

2010 BPA Rate Case  
Wholesale Power Rate Initial Proposal

**SECTION 7(b)(2) RATE TEST  
STUDY**

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February 2009

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## WP-10 SECTION 7(b)(2) RATE TEST STUDY

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## COMMONLY USED ACRONYMS

|         |  |
|---------|--|
| AC      | alternating current                          |
| AFUDC   | Allowance for Funds Used During Construction |
| AGC     | Automatic Generation Control                 |
| ALF     | Agency Load Forecast (computer model)        |
| aMW     | average megawatt                             |
| AMNR    | Accumulated Modified Net Revenues            |
| ANR     | Accumulated Net Revenues                     |
| AOP     | Assured Operating Plan                       |
| ASC     | Average System Cost                          |
| ATC     | Accrual to Cash                              |
| BAA     | Balancing Authority Area                     |
| BASC    | BPA Average System Cost                      |
| Bcf     | billion cubic feet                           |
| BiOp    | Biological Opinion                           |
| BPA     | Bonneville Power Administration              |
| Btu     | British thermal unit                         |
| CAISO   | California Independent System Operator       |
| CBFWA   | Columbia Basin Fish & Wildlife Authority     |
| CCCT    | combined-cycle combustion turbine            |
| cfs     | cubic feet per second                        |
| CGS     | Columbia Generating Station                  |
| CHJ     | Chief Joseph                                 |
| C/M     | consumers per mile of line for LDD           |
| COB     | California-Oregon Border                     |
| COE     | U.S. Army Corps of Engineers                 |
| COI     | California-Oregon Intertie                   |
| COSA    | Cost of Service Analysis                     |
| COU     | consumer-owned utility                       |
| Council | Northwest Power and Conservation Council     |
| CP      | Coincidental Peak                            |
| CRAC    | Cost Recovery Adjustment Clause              |
| CRC     | Conservation Rate Credit                     |
| CRFM    | Columbia River Fish Mitigation               |
| CRITFC  | Columbia River Inter-Tribal Fish Commission  |
| CSP     | Customer System Peak                         |
| CT      | combustion turbine                           |
| CY      | calendar year (January through December)     |
| DC      | direct current                               |
| DDC     | Dividend Distribution Clause                 |
| dec     | decremental                                  |
| DJ      | Dow Jones                                    |
| DO      | Debt Optimization                            |
| DOE     | Department of Energy                         |
| DOP     | Debt Optimization Program                    |

|        |   |
|--------|---|
| DSI    | direct-service industrial customer or direct-service industry           |
| EAF    | energy allocation factor  |
| ECC    | Energy Content Curve  |
| EIA    | Energy Information Administration                                       |
| EIS    | Environmental Impact Statement  |
| EN     | Energy Northwest, Inc. (formerly Washington Public Power Supply System) |
| EPA    | Environmental Protection Agency   |
| EPP    | Environmentally Preferred Power   |
| EQR    | Electric Quarterly Report   |
| ESA    | Endangered Species Act  |
| F&O    | financial and operating reports   |
| FBS    | Federal Base System   |
| FCRPS  | Federal Columbia River Power System                                     |
| FCRTS  | Federal Columbia River Transmission System                              |
| FERC   | Federal Energy Regulatory Commission                                    |
| FELCC  | firm energy load carrying capability                                    |
| FPA    | Federal Power Act   |
| FPS    | Firm Power Products and Services (rate)                                 |
| FY     | fiscal year (October through September)                                 |
| GAAP   | Generally Accepted Accounting Principles                                |
| GARD   | Generation and Reserves Dispatch (computer model)                       |
| GCL    | Grand Coulee  |
| GCPs   | General Contract Provisions   |
| GEP    | Green Energy Premium  |
| GI     | Generation Integration  |
| GRI    | Gas Research Institute  |
| GRSPs  | General Rate Schedule Provisions  |
| GSP    | Generation System Peak  |
| GSU    | generator step-up transformers  |
| GTA    | General Transfer Agreement  |
| GWh    | gigawatthour  |
| HLH    | heavy load hour   |
| HOSS   | Hourly Operating and Scheduling Simulator (computer model)              |
| HYDSIM | Hydro Simulation (computer model)                                       |
| IDC    | interest during construction  |
| inc    | incremental   |
| IOU    | investor-owned utility  |
| IP     | Industrial Firm Power (rate)  |
| IPR    | Integrated Program Review   |
| IRP    | Integrated Resource Plan  |
| ISD    | incremental standard deviation  |
| ISO    | Independent System Operator   |
| JDA    | John Day  |
| kaf    | thousand (kilo) acre-feet   |
| kcfs   | thousand (kilo) cubic feet per second                                   |

|                     |  |
|---------------------|--|
| K/I                 | kilowatthour per investment ratio for LDD  |
| ksfd                | thousand (kilo) second foot day  |
| kV                  | kilovolt (1000 volts)  |
| kVA                 | kilo volt-ampere (1000 volt-amperes)   |
| kW                  | kilowatt (1000 watts)  |
| kWh                 | kilowatthour   |
| LDD                 | Low Density Discount   |
| LGIP                | Large Generator Interconnection Procedures   |
| LLH                 | light load hour  |
| LME                 | London Metal Exchange  |
| LOLP                | loss of load probability   |
| LRA                 | Load Reduction Agreement   |
| m/kWh               | mills per kilowatthour   |
| MAE                 | mean absolute error  |
| Maf                 | million acre-feet  |
| MCA                 | Marginal Cost Analysis   |
| MCN                 | McNary   |
| Mid-C               | Mid-Columbia   |
| MIP                 | Minimum Irrigation Pool  |
| MMBtu               | million British thermal units  |
| MNR                 | Modified Net Revenues  |
| MOA                 | Memorandum of Agreement  |
| MOP                 | Minimum Operating Pool   |
| MORC                | Minimum Operating Reliability Criteria   |
| MOU                 | Memorandum of Understanding  |
| MRNR                | Minimum Required Net Revenue   |
| MVAr                | megavolt ampere reactive   |
| MW                  | megawatt (1 million watts)   |
| MWh                 | megawatthour   |
| NCD                 | non-coincidental demand  |
| NEPA                | National Environmental Policy Act  |
| NERC                | North American Electric Reliability Corporation  |
| NFB                 | National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp) |
| NIFC                | Northwest Infrastructure Financing Corporation   |
| NLSL                | New Large Single Load  |
| NOAA Fisheries      | National Oceanographic and Atmospheric Administration Fisheries (formerly National Marine Fisheries Service)   |
| NOB                 | Nevada-Oregon Border   |
| NORM                | Non-Operating Risk Model (computer model)  |
| Northwest Power Act | Pacific Northwest Electric Power Planning and Conservation Act   |
| NPCC                | Northwest Power and Conservation Council   |
| NPV                 | net present value  |
| NR                  | New Resource Firm Power (rate)   |
| NT                  | Network Transmission   |

|             |  |
|-------------|--|
| NTSA        | Non-Treaty Storage Agreement                     |
| NUG         | non-utility generation                           |
| NWPP        | Northwest Power Pool                             |
| OATT        | Open Access Transmission Tariff                  |
| O&M         | operation and maintenance                        |
| OMB         | Office of Management and Budget                  |
| OTC         | Operating Transfer Capability                    |
| OY          | operating year (August through July)             |
| PDP         | proportional draft points                        |
| PF          | Priority Firm Power (rate)                       |
| PI          | Plant Information                                |
| PMA         | (Federal) Power Marketing Agency                 |
| PNCA        | Pacific Northwest Coordination Agreement         |
| PNRR        | Planned Net Revenues for Risk                    |
| PNW         | Pacific Northwest                                |
| POD         | Point of Delivery                                |
| POI         | Point of Integration or Point of Interconnection |
| POM         | Point of Metering                                |
| POR         | Point of Receipt                                 |
| Project Act | Bonneville Project Act                           |
| PS          | BPA Power Services                               |
| PSC         | power sales contract                             |
| PSW         | Pacific Southwest                                |
| PTP         | Point to Point Transmission (rate)               |
| PUD         | public or people's utility district              |
| RAM         | Rate Analysis Model (computer model)             |
| RAS         | Remedial Action Scheme                           |
| Reclamation | U.S. Bureau of Reclamation                       |
| RD          | Regional Dialogue                                |
| REC         | Renewable Energy Certificate                     |
| REP         | Residential Exchange Program                     |
| RevSim      | Revenue Simulation Model (component of RiskMod)  |
| RFA         | Revenue Forecast Application (database)          |
| RFP         | Request for Proposal                             |
| RiskMod     | Risk Analysis Model (computer model)             |
| RiskSim     | Risk Simulation Model (component of RiskMod)     |
| RMS         | Remote Metering System                           |
| RMSE        | root-mean squared error                          |
| ROD         | Record of Decision                               |
| RPSA        | Residential Purchase and Sale Agreement          |
| RTF         | Regional Technical Forum                         |
| RTO         | Regional Transmission Operator                   |
| SCADA       | Supervisory Control and Data Acquisition         |
| SCCT        | single-cycle combustion turbine                  |
| Slice       | Slice of the System (product)                    |
| SME         | subject matter expert                            |

|                         |  |
|-------------------------|--|
| TAC                     | Targeted Adjustment Charge                               |
| TDA                     | The Dalles   |
| Tcf                     | trillion cubic feet                                      |
| TPP                     | Treasury Payment Probability                             |
| Transmission System Act | Federal Columbia River Transmission System Act           |
| TRL                     | Total Retail Load  |
| TRM                     | Tiered Rate Methodology                                  |
| TS                      | BPA Transmission Services                                |
| UAI                     | Unauthorized Increase                                    |
| UDC                     | utility distribution company                             |
| URC                     | Upper Rule Curve   |
| USFWS                   | U.S. Fish and Wildlife Service                           |
| VOR                     | Value of Reserves  |
| WECC                    | Western Electricity Coordinating Council (formerly WSCC) |
| WIT                     | Wind Integration Team                                    |
| WPRDS                   | Wholesale Power Rate Development Study                   |
| WREGIS                  | Western Renewable Energy Generation Information System   |
| WSPP                    | Western Systems Power Pool                               |

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## 1. INTRODUCTION

Section 7(b)(2) of the Pacific Northwest Electric Power Planning and Conservation Act (Northwest Power Act), 16 U.S.C. § 839e(b)(2), directs the Bonneville Power Administration (BPA) to conduct, after July 1, 1985, a comparison (hereafter called the Rate Test) of the projected amounts to be charged for general requirements power sold to its public body, cooperative, and Federal agency customers, over the Rate Test period plus the ensuing 4 years, with the power costs (hereafter called rates) to such customers for the same time period if certain assumptions are made. The effect of this Rate Test is to protect BPA's preference and Federal agency customers' wholesale firm power rates from costs resulting from certain provisions of the Northwest Power Act. The Rate Test can result in a reallocation of costs from the loads of Priority Firm Power (PF) preference customers to other BPA power sales. BPA has codified the procedures to conduct the Rate Test in the *Implementation Methodology of Section 7(b)(2) of the Pacific Northwest Power Planning and Conservation Act (Implementation Methodology)*, which, in turn, relies on BPA's legal interpretation of section 7(b)(2), as set forth in the *Legal Interpretation of Section 7(b)(2) of the Pacific Northwest Power Planning and Conservation Act (Legal Interpretation)*.

The Rate Test involves the projection and comparison of two sets of wholesale power rates for the general requirements of BPA's public body, cooperative, and Federal agency customers (collectively, the 7(b)(2) Customers). The two sets of rates are: (1) a set for the rate period and the ensuing four years assuming that section 7(b)(2) is not in effect (i.e., the "projected amounts to be charged for firm power," known as Program Case rates); and (2) a set for the same period taking into account the five assumptions listed in section 7(b)(2) (i.e., the "the power costs for general requirements," known as 7(b)(2) Case rates). Certain specified costs allocated pursuant to section 7(g) of the Northwest Power Act are subtracted from the Program Case rates prior to

1 the rate comparison. Next, each nominal rate is discounted to the beginning of the test period of  
2 the relevant rate case. The discounted Program Case rates are averaged, as are the 7(b)(2) Case  
3 rates. Both averages are rounded to the nearest hundredth of a mill for comparison. If the simple  
4 average of the Program Case rates is greater than the simple average of the 7(b)(2) Case rates,  
5 the Rate Test triggers. The difference between the average of the Program Case rates and the  
6 average of the 7(b)(2) Case rates is used to determine the amount of costs to be reallocated from  
7 the 7(b)(2) Customers to other BPA power sales for the rate period.

## 8 9 **1.1 Purpose and Organization of Study**

10 The purpose of this Study is to describe the application of the *Implementation Methodology* and  
11 the results of such application. The accompanying Section 7(b)(2) Rate Test Study  
12 Documentation (Documentation), WP-10-E-BPA-06A, contains the documentation of the  
13 computer models and data used to perform the Rate Test.

14  
15 This Study is organized into three major sections. The first section provides an introduction to  
16 the study, as well as a summary of the *Legal Interpretation* and the *Implementation*  
17 *Methodology*. The second section describes the methodology used in conducting the Rate Test.  
18 It provides a discussion of the calculations performed to project the two sets of power rates that  
19 are compared in the Rate Test. The third section describes the forecast of exchanging utilities'  
20 average system costs (ASCs). The fourth section presents a summary of the results of the Rate  
21 Test for the Initial Proposal. There are seven appendices to the study. Appendix A – Financing  
22 Analysis, provides documentation for the financing benefit assumptions. Appendix B – 7(b)(2)  
23 Resource Stack, provides an example of the resource stack, GDP inflator/deflator tables, and  
24 documentation in support of the accounting and financing treatment of the expensed portion of  
25 conservation resource costs. Appendix C – Non-Conservation Resources, provides  
26 documentation for the amount and costs of non-conservation resources in the resource stack.



Appendix D – Conservation Resources, provides documentation for the amount and cost of conservation resources in the resource stack. Appendices E, F, and G provide additional information regarding the ASC forecasts for FY 2010-2015. Appendix E presents summary tables; Appendix F presents forecast costs, load, and ASCs; and Appendix G presents forecast purchase power and sales for resale. There are also two attachments to the Study. Attachment 1 is the current *Legal Interpretation*. Attachment 2 is the current *Implementation Methodology*, with proposed changes shown in red-line markup.

## **1.2 Basis of Study**

### **1.2.1 Legal Interpretation**

Prior to the first phase of the 1985 general rate case, BPA published the *Legal Interpretation of Section 7(b)(2) of the Northwest Power Act*, 49 Fed. Reg. 23,998 (1984) (*1984 Legal Interpretation*). The *1984 Legal Interpretation* was revised as part of the WP-07 Supplemental rate proceeding. A short summary of the *Legal Interpretation* follows.

- The 7(b)(2) Case is modeled by limiting the differences between the Program Case and the 7(b)(2) Case to the five assumptions specified in section 7(b)(2) and the secondary effects of those assumptions, and reflecting the effects of those assumptions on the ratemaking processes, which otherwise remain the same between the Program Case and the 7(b)(2) Case.
- BPA will reallocate costs resulting from the rate test trigger, pursuant to section 7(b)(3) of the Northwest Power Act, in a manner that is consistent with section 7(a) of the Northwest Power Act.

- Applicable 7(g) Costs are excluded from the Program Case and the 7(b)(2) Case rates before those rates are compared. Applicable 7(g) Costs are excluded from the Program Case rates by an explicit subtraction. Applicable 7(g) Costs are excluded from the 7(b)(2) Case rates by not being included in the 7(b)(2) Case revenue requirement.
- “Within or Adjacent” DSI Loads are assumed to be served by 7(b)(2) Customers for the entire rate test period.
- “Within or Adjacent” DSI Loads assumed to be served by 7(b)(2) Customers are assumed to be served wholly with firm power.
- Appendix B to S. Rep. No. 272, 96th Cong., 1st Sess. (1979), is used to determine which DSI Loads are “Within or Adjacent” to 7(b)(2) Customer service areas, with modifications to reflect the actual status of BPA service to the DSIs or a change of situation in local service area or electrical connection.
- To determine “Federal Base System (FBS) resources not obligated to other entities,” DSI Loads not “Within or Adjacent” are assumed to receive service from non-7(b)(2) Customers.
- Section 7(b)(2)(D) identifies three types of additional resources that are assumed, in the 7(b)(2) Case, to meet the 7(b)(2) Customers’ loads after FBS resources are exhausted. Specific additional resources are assumed to be used in the order of least cost first; generic resources are then used if necessary.

### 1.2.2 Implementation Methodology

A hearing pursuant to section 7(i) of the Northwest Power Act was held during 1984 on section 7(b)(2) implementation issues. The section 7(i) hearing was held as the first phase of the 1985 general rate proceeding. The issues resolved in the hearing are set forth in the *Administrator's Record of Decision for Section 7(b)(2) Implementation Methodology* (7(b)(2) ROD), published in August 1984, and are reflected in the adopted *Section 7(b)(2) Implementation Methodology (1984 Implementation Methodology)*. The *1984 Implementation Methodology* was revised as part of the WP-07 Supplemental rate proceeding and adopted in the *2007 Supplemental Wholesale Power Rate Case Administrator's Final Record of Decision*, WP-07-A-05 (*2007 Supplemental ROD*). The major issues resolved in the 7(b)(2) ROD, as modified in the *2007 Supplemental ROD*, are discussed below.

- Reserve benefits provided under the Northwest Power Act are quantified using the same value of reserves analysis used in the relevant rate case, modified to reflect the assumption that "Within or Adjacent" DSI Loads may be less than the total amount of DSI Loads served by BPA. The *Implementation Methodology* allows for reserves from sources other than DSIs subject to the criteria listed therein.
- Financing benefits in the 7(b)(2) Case are quantified for planned or existing Type 1 resources (see explanation of resource "types" in Section 2.1.2.2) that have been acquired by BPA or are planned to be acquired in the Program Case during the Rate Test period. Financing benefits for existing Type 1 non-conservation resources that received a financing benefit associated with having a BPA acquisition contract when constructed and originally financed are separately identified for these specially termed "Named Resources." The financing benefits in the 7(b)(2) Case are prepared by BPA's financial advisor for the 7(b)(2) Rate Test, Public Financial Management, which estimates the resource sponsor's financial cost for the 7(b)(2) Case resources assuming that BPA did

1 not acquire the resource output. The current financing study (Appendix A) and past  
2 financing studies have made the simplifying assumption that a Joint Operating Agency  
3 (the resource(s) sponsor) would be formed to undertake the resource acquisitions for the  
4 7(b)(2) Customers, with membership consisting of the region's 7(b)(2) Customers. The  
5 composition of the membership and the credit ratings of the individual members are  
6 contained in Attachment A to Appendix A, the financing study. BPA would contract  
7 with the JOA in the 7(b)(2) Case to provide the additional resources assumed in the  
8 7(b)(2) Case. Without the financing benefits that are present in the Program Case, the  
9 resources required to meet the 7(b)(2) Customers' loads in the 7(b)(2) Case could be  
10 more expensive.

- 11  
12 • Non-conservation Type 1 and Type 2 resources that are already constructed and financed  
13 and that did not receive any financing benefit associated with having a BPA acquisition  
14 contract when constructed do not have their financing costs changed by the financing  
15 study. Financing costs in the 7(b)(2) Case are quantified for planned or existing Type 2  
16 resources that are owned or purchased by 7(b)(2) Customers but are not committed to  
17 load pursuant to section 5(b) of the Northwest Power Act. When ownership of a resource  
18 is by non-preference customers, or is unidentifiable (Type 3 resources), the  
19 *Implementation Methodology* states that the financing benefits analysis does not apply.  
20
- 21 • Secondary effects result from reflecting the five specific section 7(b)(2) assumptions in  
22 the 7(b)(2) Case rates while keeping all the underlying ratemaking premises and  
23 processes the same for both Cases. Two secondary effects are identified for possible  
24 modeling in the Rate Test: the level of surplus firm power available, and the amount of  
25 marketed secondary energy.  
26

- The Rate Test in this rate case is conducted using a single automated Excel® spreadsheet called RAM2010. The outputs of this spreadsheet model are in the Documentation, WP-10-E-BPA-6A, Section 2. The sequence of steps used to conduct the Rate Test is outlined below in Section 2.1.
- The projected rates for each year of the rate test period are discounted back to the beginning of the rate proposal test period using factors based on BPA's projected borrowing rate for each of the Rate Test years. The discounted rates then are averaged for each Case and the result rounded to the nearest hundredth of a mill. The Rate Test triggers if the simple average of the discounted rates for the Program Case exceeds the simple average of the discounted rates for the 7(b)(2) Case by one-hundredth of a mill or more. If the Rate Test triggers, the difference between the two rates is multiplied by the projected energy billing determinants of PF Preference customers in the rate period to determine the amount of costs to be reallocated from PF Preference customers to all other power sales.

## 2. METHODOLOGY

Implementing the Rate Test consists of incorporating the determinations from the *Legal Interpretation and Implementation Methodology* into the RAM2010 model.

### 2.1 Sequence of Steps

The Rate Design steps of RAM2010 carry out BPA's ratemaking process by performing the steps needed to develop wholesale power rates that are used as the Program Case for the Rate Test. The 7(b)(2) Case steps of RAM2010 carry out BPA's ratemaking process with changes to reflect the five 7(b)(2) assumptions.

#### 2.1.1 Program Case in RAM2010

RAM2010 calculates annual Program Case rates for the WP-10 rate period (FY 2010-2011) and the following four years, FY 2012-2015. The method of calculating rates and the data used to calculate rates for the Program Case of the Rate Test are identical to those used in calculating the actual proposed rates for the two-year rate period. For the following four years, the Program Case uses the same method of calculating rates as for the rate period, and data that is consistent with data used for the rate period.

##### 2.1.1.1 Sales

The sales forecast used to develop rates for the Program Case covers the period FY 2010-2015, and is the same forecast used to develop BPA's proposed rates. Sales forecasts were developed for the region's consumer-owned utilities (COUs) by aggregating utility-specific forecasts for those customers. The forecast Residential Exchange Program (REP) retail loads were provided by the utilities and verified by BPA's load forecasters. *See* Loads and Resources Study,

WP-10-E-BPA-01, Section 2.2.6. For purposes of the Rate Test, this study is forecasting the sale of a limited amount of power to the DSIs under the Industrial Firm Power (IP) rate schedule. Sales to Federal agencies and other contractual sales are entered into RAM2010.

BPA's total sales obligations are comprised of COU, investor-owned utility (IOU), DSI, Federal agency, REP, and Firm Power Products and Services (FPS) contractual sales. All PF, IP, and New Resource Firm Power (NR) forecast sales are entered into RAM2010 with diurnally and monthly differentiated energy and monthly differentiated demand billing determinants.

Documentation for these forecasts of regional power loads appears in the Loads and Resources Study, WP-10-E-BPA-01, Section 2.2, and Documentation, WP-10-E-BPA-01A, Section 2.3, Tables 2.3.1 and 2.3.2, and the WPRDS Documentation, WP-10-E-BPA-05A, Section 2.

#### **2.1.1.2 Load-Resource Balance**

RAM2010 does not perform a Federal system load-resource balance calculation for the Program Case. Instead, the model depends on the load-resource balance performed in the Loads and Resources Study, WP-10-E-BPA-01, Section 2.4. Data from the Loads and Resources Study are used to calculate the energy allocation factors (EAFs) to ensure that costs of resources are allocated to loads in the order prescribed by the Northwest Power Act. The costs of FBS resources are first allocated to the PF rate pool (consisting of COU, Federal agency, and REP loads) until FBS resources are exhausted. Exchange resources then are used to serve any remaining PF loads in the PF rate pool. DSI, New Resource, and Surplus Firm Power loads are combined into a single rate pool. Remaining REP and new resources are used to serve this combined rate pool.

### **2.1.1.3 Revenue Requirement**

FBS costs are based on the net interest and depreciation associated with the Federal investment in the hydro projects; planned and minimum required net revenues; hydro operation and maintenance expenses; annual costs related to the Columbia Generating Station, WNP-1 and WNP-3, not including the costs associated with the WNP-3 Settlement Agreement; fish and wildlife costs; costs of the Trojan nuclear plant; costs of hydro efficiency improvements; costs of system augmentation; and costs of balancing purchase power. REP resource costs are based on the ASCs of utilities participating in the REP, including cost adjustments if there are deeming utilities. New resource costs are those of the long-term generating contracts and renewable resources not designated as FBS replacements. Conservation costs include operating expenses, amortization, net interest and planned net revenues associated with the investment in BPA legacy conservation, conservation augmentation, and energy efficiency programs. Other BPA costs include Power Services and agency administrative and general expenses and depreciation, net interest, and planned net revenues associated with Power Services and agency investment in capital equipment. Transmission costs are the annual expenses associated with Power Services' purchase of BPA and non-Federal transmission and ancillary services.

### **2.1.1.4 Cost Allocation**

Allocation of projected costs to rate pools is performed on an average annual energy basis in RAM2010. Generation costs for each year are allocated by the use of EAFs calculated using the results of the Loads and Resources Study, WP-10-E-BPA-01, Section 2.2. Conservation and billing credit costs, BPA's administrative and general expenses, and energy service business costs are allocated across all BPA firm loads pursuant to section 7(g) of the Northwest Power Act. The cost allocation procedures for the Program Case are the same as those used to develop BPA's proposed rates in the WPRDS, WP-10-E-BPA-05, Chapter 3.



#### 2.1.1.5 Rate Design

The adjustments made to allocated costs in RAM2010 for the Program Case are the same as those made to develop BPA's proposed rates. These include adjustments for: (1) secondary and other revenue credits; (2) the surplus firm power revenue surplus/deficiency; (3) the section 7(c)(2) delta and margin; and (4) the DSI floor rate adjustment. These rate design adjustments are discussed below in brief. Fuller descriptions are in the WPRDS, WP-10-E-BPA-05.

**Secondary and Other Revenues** are earned from the sale of secondary energy that is made available by the assumption of the average of 70 water years for secondary energy generation capability. Secondary revenues are credited to loads served by FBS and new resources pursuant to Northwest Power Act section 7(g). RAM2010 uses the secondary energy sales revenue forecast produced by RiskMod, as documented in the WPRDS Documentation, WP-10-E-BPA-05A, Section 2, Table 2.5.3 for FY2010-2011, and the Risk Analysis and Mitigation Study Documentation, WP-10-E-BPA-04A, Section 1.4.1.5 for FY2012-2015.

**The Surplus Firm Power Revenue Surplus/Deficiency** results when available surplus firm power is sold at other than its fully allocated cost. In addition, this study assumes that long-term convertible contracts are in an exchange or power mode depending on the circumstances of the individual contracts. The WP-10 Initial Proposal assumes that all convertible contracts are in the exchange mode. The fully allocated cost of the surplus firm power, less the revenues received from the sale of that power after adjusting for transmission costs, equals the surplus firm power revenue surplus/deficiency. The surplus/deficiency is allocated to firm loads served by FBS and new resources pursuant to Northwest Power Act section 7(g). The revenues from capacity sales are included in the surplus firm power revenue surplus/deficiency and are allocated to all firm loads served by FBS and new resources pursuant to section 7(g).

1 **The 7(c)(2) Adjustment** is made to account for the difference between the costs allocated to the  
2 DSIs and the revenues resulting from the applicable DSI rate. A net margin is used in  
3 determining the applicable DSI rate. The net margin subsumes the Value of Reserves credit and  
4 the typical margin adjustment (*see* WPRDS, Section 2.2.1). The net margin is 0.568 mills/kWh  
5 in nominal dollars. Generally, costs are reallocated, pursuant to section 7(c), from the IP rate  
6 pool to other rate pools so that the applicable DSI rate equals the applicable wholesale rate to  
7 7(b)(2) Customers plus the net margin.

8  
9 **The DSI Floor Rate** test ensures that the DSI rate will not be lower than the IP rate in effect for  
10 Operating Year (OY) 1985, pursuant to section 7(c)(2) of the Northwest Power Act. If the  
11 IP rate is below that floor rate, the IP rate is raised to the floor rate and an adjustment is  
12 necessary to credit additional revenues from the DSIs to other firm power customers, pursuant to  
13 section 7(c).

#### 14 15 **2.1.2 7(b)(2) Case in RAM2010**

16 The 7(b)(2) Case section of RAM2010 calculates 7(b)(2) Case rates the same way as Program  
17 Case rates, except where the *Implementation Methodology* sets forth specific assumptions to be  
18 made that modify the Program Case.

##### 19 20 **2.1.2.1 Sales**

21 The sales forecasts input to RAM2010 to calculate rates for the 7(b)(2) Case are the same sales  
22 forecasts used in the Program Case, with the following modifications. The 7(b)(2) Case utility  
23 sales are adjusted to exclude estimates of programmatic conservation savings, competitive  
24 acquisitions conservation, and billing credits. This upward adjustment in the utility sales  
25 forecast includes annual programmatic conservation resources that have an amortized lifetime  
26 that includes the Rate Test year of FY 2015. Programmatic conservation resources with

1 amortized lifetimes that end before FY 2015 are assumed to be obsolete and have been removed  
2 from the 7(b)(2)(D) resource stack and have no effect on the 7(b)(2) Case sales forecast. The  
3 7(b)(2) Case also excludes REP loads. Sales to “Within or Adjacent” DSIs, adjusted to exclude  
4 estimates of the Conservation/Modernization program, are assumed to be transferred to the  
5 service territories of the 7(b)(2) Customers for the entire Rate Test period as 100 percent firm  
6 loads. Sales to DSIs not “Within or Adjacent” are assumed to transfer to non-7(b)(2) Customers  
7 and have no effect on the 7(b)(2) sales forecast.

#### 9 **2.1.2.2 Resources**

10 The size of the FBS is identical for the Program Case and the 7(b)(2) Case. However, RAM2010  
11 currently displays the size of the FBS in such a way that the FBS that is available to serve  
12 requirements load is shown as being slightly larger in the 7(b)(2) Case. This is because of the  
13 treatment of “other obligations” served in the Program Case that were not in existence at the time  
14 of the passage of the Northwest Power Act and are not served in the 7(b)(2) Case. If the FBS is  
15 insufficient to serve 7(b)(2) Customer loads through the test period in the 7(b)(2) Case,  
16 additional resources are assumed to come on-line. Consistent with the *2008 Implementation*  
17 *Methodology*, three types of additional resources can be added to serve 7(b)(2) Customer loads.

18  
19 Type 1 resources are actual and planned acquisitions by BPA from 7(b)(2) Customers consistent  
20 with the Program Case. Type 2 resources are existing resources of 7(b)(2) Customers not  
21 committed to load pursuant to section 5(b) of the Northwest Power Act. These first two types of  
22 resources include any BPA programmatic conservation and are used to serve remaining 7(b)(2)  
23 Customer load in order of least cost first. Type 3 resources are any additional needed resources  
24 priced at the average cost of resources acquired by BPA from non-7(b)(2) Customers consistent  
25 with the Program Case. These resources are brought on-line if the first two types of resources  
26 are insufficient to meet the 7(b)(2) Customer requirements in the 7(b)(2) Case. Consistent with

1 the *Legal Interpretation*, the portions of the Mid-Columbia hydro resources that are contracted to  
2 regional IOUs and that serve regional loads are committed to load pursuant to section 5(b) for  
3 purposes of the Rate Test. In addition, portions of the Mid-Columbia hydro resources that are  
4 contracted to regional COUs and the portion of these resources that are sold at auction are  
5 deemed to be committed to regional loads pursuant to section 5(b) unless it is demonstrated that  
6 such resources are being exported outside of the PNW.

#### 7 8 **2.1.2.3 Financing Benefits**

9 The financing benefits analysis required by section 7(b)(2)(E)(i) of the Northwest Power Act is  
10 prepared by BPA's financial advisor, Public Financial Management. The financial advisor's  
11 financing study is contained in Appendix A to this Study. It shows that the proposed financing  
12 benefit of BPA's participation in resource acquisitions of BPA-sponsored conservation and  
13 generation resources by public utilities, using 15-year term financing, is 20 basis points lower  
14 than the 7(b)(2) Case without BPA backing. For the Cowlitz Falls Project (a "Named  
15 Resource"), the proposed benefit of BPA's participation is 5 basis points between an assumed  
16 revenue bond issued with and without a BPA contract for the Project. This increases the  
17 financing costs for additional resources in the 7(b)(2) Case, thereby increasing the 7(b)(2) Case  
18 power cost of the 7(b)(2) Customers.

#### 19 20 **2.1.2.4 Load-Resource Balance**

21 The 7(b)(2) Case section of RAM2010 adjusts the established load-resource balance from the  
22 Program Case to comport with the different loads and resource use restrictions assumed in the  
23 7(b)(2) Case. The Program Case is in load-resource balance during the rate period. The size of  
24 the FBS, including the balancing purchase power and augmentation purchase power, is the same  
25 in the 7(b)(2) Case as in the Program Case. In addition, the Program Case assumes a small  
26 amount of new resources that are not included in the 7(b)(2) Case. The 7(b)(2) Customer loads

are larger than the Program Case PF Preference loads. In the 7(b)(2) Case, no conservation savings are assumed to have occurred, and “Within and Adjacent” DSI Loads are added to 7(b)(2) Customer loads. The larger 7(b)(2) Customer loads in the 7(b)(2) Case can result in the need to select additional resources from the 7(b)(2)(D) resource stack (*see* Appendix D).

#### **2.1.2.5 Revenue Requirement**

The revenue requirement in the 7(b)(2) Case contains the same costs as in the Program Case, with certain modifications. The 7(b)(2) Case excludes Program Case revenue requirement amounts for conservation and energy efficiency, billing credits, new resources, and the REP. The only Applicable 7(g) Costs in the Program Case revenue requirement are the amounts for conservation and energy efficiency and billing credits. By removing these costs from the initial 7(b)(2) Case revenue requirement, the Applicable 7(g) Costs have been removed from the 7(b)(2) Case. These Applicable 7(g) Costs are subtracted from the Program Case just prior to the rates for two Cases being compared. This is discussed further in Section 3.3 below. In addition, the contracts excluded from the 7(b)(2) Case (contracts not existing on the effective date of the Act) provide no revenue credits. Repayment studies are then performed for each year of the Rate Test period using the same procedures as the Program Case. The initial 7(b)(2) Case revenue requirement documentation can be found at WP-10-E-BPA-02B, Chapter 6. The 7(b)(2) Case revenue requirement includes the annual debt service amounts associated with the deferral of expensed conservation costs and the annual debt service associated with capitalized conservation costs that are chosen from the 7(b)(2) resource stack. Documentation of annual amounts (aMW) of conservation savings available to serve the 7(b)(2) Customer loads that are included in the resource stack and the related costs associated with these savings are shown in Appendix D to this study. The 7(b)(2) Case revenue requirement also includes the operating expenses and financing costs of non-conservation resources that are selected from the 7(b)(2) resource stack.

The documentation for the amount (aMW) of these non-conservation resources and their related costs is provided in Appendix C to this Study.

### 2.1.2.6 Cost Allocation

7(b)(2) Customers are allocated FBS and resource stack costs according to their use of the respective resources. FBS obligations are allocated costs according to their use of the FBS.

### 2.1.2.7 Rate Design

Rate design adjustments in the 7(b)(2) Case are performed in the same manner as in the Program Case. However, there is no 7(c)(2) delta or floor rate in the 7(b)(2) Case because there are no DSI loads. Also, the costs of the Conservation Rate Credit (CRC) are not explicitly added into the 7(b)(2) Case rates because these historical and projected costs are contained in the cost of conservation resources present in the 7(b)(2) resource stack.

### 3. UTILITY ASC FORECASTS FOR FY 2010-2015

To perform the Rate Test, BPA must have the ASCs for utilities participating in the REP for the rate period (FY 2010-2011) and forecasts for the following four years (FY 2012-2015). This section describes the forecasting of utility ASCs for the Rate Test.

#### 3.1 Average System Cost Calculation

An ASC is calculated by dividing a utility's total Contract System Cost (generation and transmission costs as determined in the ASC Review Process) by its total Contract System Load (total retail load adjusted for distribution losses less New Large Single Loads). The resulting quotient is the utility's ASC. Whether a cost or load may be considered in the ASC calculation is determined pursuant to a methodology developed by BPA in consultation with regional parties. The most recent version of this methodology is the 2008 ASC Methodology (2008 ASCM). ASCs are not determined in BPA's rate cases; they are calculated in ASC Review Processes, which are separate administrative proceedings. For more information about the 2008 ASCM and the ASC Review Processes, see <http://www.bpa.gov/corporate/finance/ascm/>.

#### 3.2 FY 2010-2015 ASC Calculation

##### 3.2.1 Methodology for Forecasting ASCs

ASCs are calculated in two steps under the 2008 ASC Methodology. The ASC calculation begins with a determination of a "Base Year ASC" for the utility. The Base Year ASC is an ASC based on the data from the utility's most recent FERC Form 1 (or equivalent) at the time the utility submits its ASC filing to BPA. For this rate period, the Base Year is CY 2007. In the ASC Review Process, BPA evaluates the appropriateness of the utility's costs and loads in the Base Year ASC for conformance with the 2008 ASCM.

1  
2 Once the Base Year ASC has been established, the next step is for the utility's ASC data to be  
3 adjusted for the temporal differences between the base year and the rate period. The ASC is  
4 escalated (escalation may be negative) from the utility's Base Year ASC determination to the  
5 mid-point of BPA's rate period. This escalation uses factors identified in the 2008 ASCM. The  
6 ASC that results after this final step is the utility's "Exchange Period ASC," which is referred to  
7 in this Study as the "rate period ASC." The rate period ASC changes during BPA's rate period  
8 only to reflect new resource additions or reductions that were submitted during the ASC Review  
9 Process and allowed in the utility's final ASC report.

10  
11 The costs and loads used to calculate ASCs for FY 2010-2011 are then escalated for the  
12 remainder of the Rate Test period, FY 2012-2015, to forecast ASCs for the Rate Test. The  
13 discussion of ASCs in this Study focuses on the remainder of the rate test period, FY 2012-2015.  
14 However, certain background information on the determination of the rate period ASCs is  
15 provided herein for clarity. See <http://www.bpa.gov/corporate/finance/ascm/> for additional  
16 details.

### 17 18 **3.3 2010-2011 Rate Period ASCs**

19 As noted in the WPRDS, Section 6.0, the rate period ASCs used in the Initial Proposal are based  
20 on the "as filed" ASCs (with certain specified adjustments) submitted by utilities participating in  
21 the ASC Review Process for FY 2010-2011. These ASC filings are currently being evaluated in  
22 the ASC Review Process. The FY 2010-2011 rate period ASCs used in the Final Proposal will  
23 be updated to conform to the final ASCs determined by BPA in the ASC Review Processes. For  
24 more information about the FY 2010-2011 ASCs, see WPRDS, WP-10-E-BPA-05, Section 6.0.  
25 Table 6.1 of the WPRDS summarizes the FY 2010-2011 ASCs.



### 3.4 ASC Forecast for FY 2012-2015

ASCs for FY 2012-2015 are forecast using a methodology that is similar to the 2008 ASCM used to determine ASCs for FY 2010-2011. First, the rate period ASCs are used as the starting point for forecasting the FY 2012-2015 ASCs. The rate period ASCs are then adjusted to include the costs of all new resources that are forecast to come on-line through the end of the rate period. Next, the rate period ASCs are escalated to the midpoint of each fiscal year through FY 2015, using the same ASC methodology and escalators that are used to determine the rate period ASCs. This escalation uses the same forecasts of inflation rates, natural gas prices, and market prices as are used to forecast BPA costs and revenues. The escalators are shown in Appendix E, Table 5, of this Study. The results of the ASC forecast for each year of the rate test period are shown in Appendix F, Tables A-H, of this Study.

The FY 2012-2015 ASC forecast assumes that all load growth is met with market purchases at utility-specific market rates. The utility-specific market rates are calculated using the individual utilities' price spreads contained in each utility's ASC filing. The Contract System Loads used in the FY 2012-2015 ASC forecast are shown in Appendix E, Table 2, of this Study.

Forecasts of ASCs for FY 2012-2015 are calculated for all utilities that filed ASCs with BPA in October of 2008. The filing utilities are Avista, Idaho Power, NorthWestern Energy, PacifiCorp, Portland General Electric, Puget Sound Energy, Franklin County PUD, and Snohomish County PUD. Appendix E, Table 3, summarizes the FY 2012-2015 ASC forecasts for these utilities.

To the extent that any changes are made to the rate period ASCs as a result of BPA's final determinations in the ASC Review Process, such changes will be reflected in the WP-10 Final Proposal ASC forecasts for FY 2012-2015.

### 3.5 Exchange Load Forecast for FY 2012-2015

The exchange load is defined as the sum of a utility's residential and small farm loads as determined by the terms of the utility's Residential Purchase and Sales Agreement (RPSA). The forecast exchange loads are used to estimate each utility's REP benefits by comparing the utility's ASC with BPA's PF Exchange rate and then multiplying the difference by the utility's forecast exchange load.

Utilities intending to participate in the REP for FY 2010-2011 were required to submit with their ASC filings a forecast of their exchange load, measured at the retail meter, for FY 2010-2015. These exchange load forecasts are used for both the rate period (FY 2010-2011) and the remaining years of the Rate Test period (FY 2012-2015). The exchange load forecasts were increased to include distribution losses, which were calculated using the same distribution loss factors used to determine Contract System Load in the ASC filings. If distribution loss factors are changed during the ASC Review Process, the revised loss factors will be incorporated into the WP-10 Final Proposal.

Participating utilities' retail load forecasts are summarized for both the rate period, FY 2010-2011, and the remaining years of the rate test period, FY 2012-2015, in the Loads and Resources Study Documentation, WP-10-E-BPA-01A, Section 2.2, Table 2.2.8. Exchange load forecasts for FY 2012-2015 are summarized in Appendix E, Table 4, of this Study.

Appendix E, Tables 1-4, of the Study summarize each utility's Contract System Cost, Contract System Load, ASC, and Residential and Small Farm Exchange Load, respectively, for FY 2011-2015. Appendix F shows the calculations of each utility's forecast Contract System Cost, Contract System Load, and ASC. Appendix G shows additional details on the calculation of each utility's Purchase Power expense and Sales for Resale revenue.

## 4. SUMMARY OF RESULTS

The results for the two Cases are summarized in Tables 1 and 2 below.

### 4.1 Program Case

The Program Case rate for each year is based on the costs of the resources used to serve the 7(b)(2) Customers. The resource costs are then adjusted as described above and in the WPRDS, WP-10-E-BPA-05, Section 3. Table 1 below shows the projection of undiscounted nominal Program Case rates.

### 4.2 7(b)(2) Case

The annual amount to be paid by 7(b)(2) Customers for their power needs in the 7(b)(2) Case is based on the cost of FBS resources and the cost of additional resources from the 7(b)(2)(D) resource stack. These power costs include adjustments for reserves and financing, *i.e.*, the absence of the reserve benefits and financing benefits implicit in the cost of power in the Program Case. The power costs are then subject to the same cost and revenue adjustment allocations as the Program Case rates. Table 2 below shows the projection of undiscounted nominal 7(b)(2) Case rates.

### 4.3 The Section 7(b)(2) Rate Test

RAM2010 performs the Rate Test after it calculates the two sets of test period rates. First, the projected Program Case rates are reduced by the applicable 7(g) costs allocated to the rates for each year. The applicable 7(g) costs are described in section 7(b)(2) as “conservation, resource and conservation credits, experimental resources and uncontrollable events.” The applicable 7(g) costs quantified for the Rate Test are comprised of BPA’s acquired and projected conservation, energy efficiency, and CRC costs, and the cost of billing credits. As outlined

1 above in Section 2.1.2.5, applicable 7(g) costs were removed from the 7(b)(2) Case revenue  
2 requirement. If there were uncontrollable event costs present in the Program Case revenue  
3 requirement, they also would have been excluded from the 7(b)(2) Case revenue requirement.  
4 Because these costs are excluded/subtracted from the 7(b)(2) Case at its inception by excluding  
5 them from the revenue requirement, there is no need to subtract them at this point in performing  
6 the Rate Test. This explains why Table 2, 7(b)(2) Case Rates, does not have an amount of 7(g)  
7 costs to be subtracted. The projected rates for each year then are discounted to the beginning of  
8 FY 2010 using factors based on BPA's projected borrowing rate for each year. Table 3 shows  
9 BPA's forecast borrowing rates that were used in the discounting procedure and the  
10 corresponding cumulative discount factors. When applied to the rates in the two Cases, the  
11 simple average of the discounted rates over the Rate Test period is calculated, rounded to two  
12 decimal places, and compared. As shown in Table 4, the Rate Test triggers by 8.07 mills/kWh.  
13 Therefore, an adjustment to the WP-10 proposed PF Preference rate, valued at about  
14 \$1,029 million, (*see* WPRDS documentation, Section 2, Table 2.5.9) is required.

**Table 1**  
**Program Case Rates**  
(Nominal mills/kWh)

| A           | B     | C                        | D        |
|-------------|-------|--------------------------|----------|
| Fiscal Year | Rate  | Applicable<br>7(g) Costs | Net Rate |
| 2010        | 36.45 | 1.59                     | 34.86    |
| 2011        | 37.06 | 1.54                     | 35.52    |
| 2012        | 36.27 | 1.44                     | 34.83    |
| 2013        | 38.15 | 1.48                     | 36.67    |
| 2014        | 38.07 | 1.45                     | 36.62    |
| 2015        | 40.07 | 1.37                     | 38.70    |

**Table 2**  
**7(b)(2) Case Rates**  
(Nominal mills/kWh)

| A           | B            |
|-------------|--------------|
| Fiscal Year | 7(b)(2) Rate |
| 2010        | 25.97        |
| 2011        | 26.36        |
| 2012        | 23.55        |
| 2013        | 26.44        |
| 2014        | 26.10        |
| 2015        | 27.82        |

**Table 3**  
**Discount Factors for the Rate Test**

| A           | B   | C  |
|-------------|---|--|
| Fiscal Year | Annual BPA<br>Borrowing Rate <sup>1</sup> | Cumulative<br>Discount Factor <sup>2</sup> |
| 2010        | .0679                                     | .9364                                      |
| 2011        | .0693                                     | .8757                                      |
| 2012        | .0669                                     | .8202                                      |
| 2013        | .0669                                     | .7693                                      |
| 2014        | .0669                                     | .7211                                      |
| 2015        | .0669                                     | .6759                                      |

<sup>1</sup> Revenue Requirement Study Documentation, WP-10-E-BPA-02B, Chapter 6.

<sup>2</sup>  $\text{DiscFact}_t = \text{DiscFact}_{t-1} / (1 + \text{BorrowRate}_t)$ ; Fiscal Year 2009 equals 1.

**Table 4**  
**Comparison of Rates for Test**  
(Discounted mills/kWh)

| A            | B                               | C                               |
|--------------|---------------------------------|---------------------------------|
| Fiscal Year  | Discounted Program<br>Case Rate | Discounted 7(b)(2)<br>Case Rate |
| 2010         | 32.64                           | 24.32                           |
| 2011         | 31.10                           | 23.08                           |
| 2012         | 28.59                           | 19.33                           |
| 2013         | 28.21                           | 20.34                           |
| 2014         | 26.41                           | 18.82                           |
| 2015         | 26.16                           | 18.80                           |
| Average Rate | 28.85                           | 20.78                           |

Difference of Average Rates 8.07 mills/kWh

**Section 7(b)(2)  
LEGAL INTERPRETATION**

**Attachment 1  
to  
Section 7(b)(2) Rate Test Study**

**WP-10-E-BPA-06  
Wholesale Power Rate Initial Proposal  
2010 BPA Rate Case**





# **SECTION 7(b)(2) OF THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT**

## **LEGAL INTERPRETATION**

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September 2008

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WP-07-A-06





**DEPARTMENT OF ENERGY  
BONNEVILLE POWER ADMINISTRATION**

**Legal Interpretation of Section 7(b)(2) of the Pacific Northwest  
Electric Power Planning and Conservation Act**

**I. Background**

**A. Relevant Statutory Provisions**

The Administrator of the Bonneville Power Administration (BPA) is charged with the responsibility of implementing section 7(b)(2) of the Pacific Northwest Electric Power Planning and Conservation Act, 16 U.S.C. §§ 839, *et seq.* An agency's interpretation of the statute it is charged to administer is entitled to great deference; in particular, the United States Supreme Court has held that "it is clear that the Administrator's interpretation of the Regional [Northwest Power] Act is to be given great weight." *Aluminum Co. of America v. Central Lincoln Peoples' Util. Dist.*, 467 U.S. 380, 389 (1984).

Basic principles of statutory construction must be followed in interpreting the Northwest Power Act. These principles require that particular provisions of a statute be interpreted to give effect to its overall purposes. *United States v. Am. Trucking Ass'n*, 310 U.S. 534, 543 (1950). Wherever possible, statutory provisions should be construed so as to be consistent with each other. *Adams v. Howerton*, 673 F.2d 1036, 1040 (9th Cir. 1982), *cert. denied*, 458 U.S. 1111 (1982). Thus, BPA interprets the Northwest Power Act in a manner which seeks consistency among the requirements of each section of the Northwest Power Act.

In addition to the Northwest Power Act, BPA is responsible for establishing rates pursuant to the Bonneville Project Act, 16 U.S.C. § 832, *et seq.*, the Federal Columbia River Transmission System Act, 16 U.S.C. § 838, *et seq.*, and the Flood Control Act of 1944, 16 U.S.C. § 825, *et seq.* These statutes require BPA to set rates, in accordance with sound business principles, at levels sufficient to recover BPA's total system costs, including repayment of the Federal Treasury investment in the Federal Columbia River Power and Transmission System over a reasonable number of years. All statutory provisions concerning the timely recovery of BPA's revenue requirement are relevant to the interpretation of the Northwest Power Act. For "[w]hen there are two acts upon the same subject, the rule is to give effect to both if possible." *Morton v. Mancari*, 417 U.S. 535, 551 (1974), *quoting United States v. Borden Co.*, 308 U.S. 188, 198 (1939).

Section 7 of the Northwest Power Act, 16 U.S.C. § 839e, contains a number of directives that the BPA Administrator must consider in establishing rates for the sale of electric energy and capacity and for the transmission of non-Federal power. Section 7(b)(2), commonly referred to as the "rate test," is one of these directives. Section 7(b)(2) of the Northwest Power Act, 16 U.S.C. § 839e(b)(2), provides:

After July 1, 1985, the projected amounts to be charged for firm power for the combined general requirements of public body, cooperative, and Federal agency customers exclusive of amounts charged such customers under subsection 7(g) of this section for the costs of conservation, resource and conservation credits, experimental resources and uncontrollable events, may not exceed in total, as determined by the Administrator, during any year after July 1, 1985, plus the ensuing four years, an amount equal to the power costs for general requirements of such customers if, the Administrator assumes that –

(A) the public body and cooperative customers' general requirements had included during such five-year period the direct service industrial customer loads which are

(i) served by the Administrator, and

(ii) located within or adjacent to the geographic service boundaries of such public bodies and cooperatives;

(B) public body, cooperative, and federal agency customers were served, during such five-year period, with Federal base system resources not obligated to other entities under contracts existing as of December 5, 1980, (during the remaining term of such contracts) excluding obligations to direct service industrial customer loads included in subparagraph (A) of this paragraph;

(C) no purchases or sales by the Administrator as provided in section 5(c) were made during such five-year period;

(D) all resources that would have been required, during such five-year period, to meet remaining general requirements of the public body, cooperative and Federal agency customers (other than requirements met by the available Federal base system resources determined under subparagraph (B) of this paragraph) were –

(i) purchased from such customers by the Administrator pursuant to section 6, or

(ii) not committed to load pursuant to section 5(b),

and were the least expensive resources owned or purchased by public bodies or cooperatives; and any additional needed resources were obtained at the average cost of all other new resources acquired by the Administrator; and

(E) the quantifiable monetary savings, during such five-year period, to public body, cooperative and federal agency customers resulting from –

(i) reduced public body and cooperative financing costs as applied to the total amount of resources, other than Federal base system resources, identified under subparagraph (D) of this paragraph, and

(ii) reserve benefits as a result of the Administrator's actions under this Act

were not achieved.

16 U.S.C. § 839e(b)(2).

## **B. Scope of Interpretation**

This Legal Interpretation resolves only the basic legal issues necessary to implement section 7(b)(2) and modifies the first Legal Interpretation issued June 8, 1984. *See* Legal Interpretation of Section 7(b)(2) of the Pacific Northwest Electric Power Planning and Conservation Act, 49 Fed. Reg. 23,998 (June 8, 1984).

## **II. Interpretation**

### **A. Definitions**

This section contains definitions applicable to section 7(b)(2). Terms identified in the Northwest Power Act have the same meaning in this interpretation, unless further defined.

1. Relevant Rate Case: The section 7(i) wholesale power rate adjustment proceeding being conducted at the time the projections for section 7(b)(2) are made, and in which any adjustment to rates in accordance with section 7(b)(2) may be reflected.

2. General Requirements: The public body, cooperative, and Federal agency customers' electric power assumed in the Relevant Rate Case to be purchased from BPA, exclusive of new large single loads. General Requirements are limited to power purchased from BPA under section 5(b) of the Northwest Power Act; section 5(c) purchases from BPA are not included.

3. 7(b)(2) Customers: Those firm power customers of BPA that are listed in section 7(b)(2) of the Northwest Power Act as subject to the rate test, *viz.*, public bodies, cooperatives, and Federal agencies.

4. Applicable 7(g) Costs: The costs identified in section 7(g) of the Northwest Power Act that are also listed in section 7(b)(2), *viz.*, costs chargeable to 7(b)(2) Customers for

conservation, resource and conservation credits, Experimental Resources, and Uncontrollable Events.

5. Uncontrollable Event: A discrete event which differs from the continuum of changing events that occur in nature, business, and government (such as changes in water conditions, aluminum prices, and electricity markets) and that are routinely reflected in ratemaking.

6. Experimental Resources: Resources that are undergoing research and development and are funded by BPA in full or in part.

7. Five-Year Period: The rate recovery period of the Relevant Rate Case, plus the ensuing four years. If the Relevant Rate Case has more than a one-year rate recovery period, the Five-Year Period will be greater than five years.

8. Program Case: The entire process of calculating rates to be charged in the Five-Year Period of the Relevant Rate Case under the provisions of the Northwest Power Act other than section 7(b)(2), including all specific data, assumptions, and results.

9. 7(b)(2) Case: The entire process of calculating rates for the relevant Five-Year Period under the provisions of section 7(b)(2) of the Northwest Power Act, including all specific data, assumptions, and results.

10. Five Assumptions: The five differences between the Program Case and the 7(b)(2) Case specified in subsections (A) through (E) of section 7(b)(2) of the Northwest Power Act.

11. DSI Loads: Those loads of direct service industries (DSIs) that are forecast to be served by BPA, during the Five-Year Period, pursuant to section 5(d)(1) or 5(f) of the Northwest Power Act.

12. Within or Adjacent: Relating to DSI customer loads determined in accordance with section 7(b)(2)(A) to be electrically within or adjacent to the geographic service territories of 7(b)(2) Customers.

13. Quantifiable Monetary Savings: The change in annual costs attributable to differences in resource financing or Reserve Benefits.

14. Reserve Benefits: The annual financial value of (1) resources designated by BPA as providing reserves, or (2) interruptible load that forestalls a resource acquisition by virtue of the ability to curtail the load at a time when off-line generation would otherwise need to be available to start up and serve load during unexpected conditions.

## **B. General Approach and Specific Issues of Interpreting Section 7(b)(2)**

Section 7(b)(2) assures that 7(b)(2) Customers are charged no more for their General Requirements after July 1, 1985, than they would have been charged if the Five Assumptions were to be realized. These assumptions direct BPA to hypothesize power supply arrangements between itself and its customers that are quite different from reality. Implementation of the Five Assumptions listed in section 7(b)(2) is by nature an exercise in speculation. This interpretation was undertaken to reduce this inherent speculation insofar as possible.

### **1. Interpretation: Section 7(b)(2) limits the 7(b)(2) Case to the Five Assumptions listed in section 7(b)(2) and the secondary effects of those assumptions.**

#### **Discussion:**

The Northwest Power Act provides that after July 1, 1985, the 7(b)(2) Customers' power costs "may not exceed ... as determined by the Administrator" the power costs for General Requirements based on the enumerated Five Assumptions. 16 U.S.C. § 839e(b)(2). This language grants the Administrator discretion to determine the manner in which the Five Assumptions of section 7(b)(2) are applied and the rate test is implemented. However, BPA recognizes that the reasonableness of methodologies used to implement section 7(b)(2) will be tested in the Relevant Rate Case.

The Administrator will exercise his discretionary authority in the following manner. Except for the Five Assumptions specified in section 7(b)(2), all underlying premises will remain constant between the Program Case and the 7(b)(2) Case. Assumptions not specified by the statute will not be considered. Secondary effects, however, of the Five Assumptions will be given full recognition in the modeling of the 7(b)(2) Customers' power costs in the 7(b)(2) Case. This general approach will allow the 7(b)(2) Case to be modeled under the same accepted ratemaking techniques used in the Program Case. This approach will also avoid the modeling of a hypothetical world that attempts to reflect in extreme detail what would have occurred had the Northwest Power Act not been enacted.

The legislative history of the Northwest Power Act supports limiting the assumptions of the 7(b)(2) Case to those specified in the statute. The House Committee on Interstate and Foreign Commerce Report accompanying S. 885 (the bill that became the Northwest Power Act) notes that "[t]he assumptions to be made by the Administrator in establishing this ceiling are specifically set forth." H. Rep. No. 976-I, 96th Cong., 2d Sess. 68 (1980). Similarly, the Report of the House Committee on Interior and Insular Affairs declares that "[s]ubsection 7(b)(2) establishes a 'rate ceiling' for BPA's preference customers, and specifies the method of calculating this ceiling..." H. Rep. No. 976-II, 96th Cong., 2d Sess. 52 (1980).

Legislative history also supports including the unavoidable secondary effects of the assumptions listed in the Northwest Power Act. In particular, in addressing Reserve Benefits,

Appendix B to the Report of the Senate Committee on Energy and Natural Resources provides that in addition to costs specifically described in sections 7(b)(2)(B) and (D), the Administrator is to consider “[a]ny other general system operating costs, including reserves...” S. Rep. No. 272, 96th Cong., 1st Sess. (1979), Appendix B, at 58.

As an illustration of the secondary effects referred to above, BPA identified two secondary effects of the Five Assumptions found in section 7(b)(2) in its 1984 Legal Interpretation that continue to be relevant. These effects involve surplus levels and secondary energy markets. The secondary effects must be included in section 7(b)(2) methodologies as natural consequences of the Five Assumptions in section 7(b)(2) on the results of underlying premises that are held constant between the Program Case and the 7(b)(2) Case. Surplus levels and the secondary energy market must change as a natural consequence of the Five Assumptions. As the DSIs are assumed to shift to the private utilities and 7(b)(2) Customers under section 7(b)(2), BPA’s load/resource balance changes. This change will affect the level of BPA’s surplus. The secondary energy market will also change; the top quartile of DSI Loads will not be served by BPA’s secondary energy. Any additional secondary effects will be identified by BPA in the relevant rate case.

Section 7(b)(2) requires BPA to assume that the 7(b)(2) Case is identical to the Program Case except for those differences required by the Five Assumptions set out in section 7(b)(2) (A)-(E) and the secondary effects. Present modeling techniques used in the Program Case, which will be used in the modeling of the 7(b)(2) Case, incorporate secondary effects.

**2. Interpretation: Implementation of section 7(b)(2), and any subsequent reallocation pursuant to section 7(b)(3), will not conflict with the requirements of section 7(a).**

**Discussion:**

BPA will conscientiously follow the requirements of section 7(b)(2) to perform the “rate test” for its public body, cooperative, and Federal agency customers. If the results of the rate test indicate that BPA must recover costs in excess of those allowed under section 7(b)(2), BPA will implement the section 7(b)(3) supplemental rate charge provision for that purpose. BPA’s concern is that failure to recover some, or all, of the reallocated costs “through supplemental rate charges for all other power sold by the Administrator to all customers” may result in BPA’s inability to meet the requirements of section 7(a). Such a determination, if it occurs, would be rigorously documented and exposed to careful review during the section 7(i) process for the Relevant Rate Case. Should this occur, BPA would be forced to resolve a possible conflict among sections 7(b)(2), 7(b)(3), and 7(a).

Section 7(a) of the Northwest Power Act requires that BPA rates recover the costs of the electric power and transmission systems, including the repayment of Federal Treasury investments in those systems. Section 7(a) reaffirms this longstanding obligation which was articulated earlier in the Bonneville Project Act and the Federal Columbia River Transmission



System Act. Section 7(b)(2) must be applied in a manner which enables BPA to set rates at levels sufficient to recover costs, or the rates will not receive confirmation and approval from the Federal Energy Regulatory Commission. *See* 16 U.S.C. § 839e(a)(2).

The legislative history of the Northwest Power Act supports application of section 7(b)(2) in a manner consistent with BPA's primary statutory obligation that its rates recover costs. The House Interior Committee report declares that:

Section 7 of the legislation sets out the requirements BPA must follow when fixing rates for the power sold its customers under this legislation. Subject to the general requirement (contained in section 7(a)) that BPA must continue to set its rates so that its total revenues continue to recover its total costs, BPA is required by the legislation to establish the following rates: [report continues by setting out rate structure of the Act].

H. Rep. No. 976-11, 96th Cong., 2d Sess. 36 (1980).

Section 7(a)(2) illustrates the importance of BPA's statutory obligation to set rates at levels sufficient to collect its costs. Section 7(a)(2) states that FERC cannot approve BPA's rates unless the rates "are sufficient to assure repayment of federal investment in the Federal Columbia River Power System over a reasonable number of years after first meeting the Administrator's other costs," 16 U.S.C. § 839e(a)(2)(A), and "are based upon the Administrator's total system costs ..." 16 U.S.C. § 839e(a)(2)(B). Indeed:

BPA is a self-financed agency under the terms of the Federal Columbia River Transmission System Act of 1974. This means that BPA receives no appropriations. It is required by law to cover its full costs through its own revenues derived from the sale of power and other services. ... The United States of America does not stand behind BPA's obligations. ... BPA alone must meet these obligations, and BPA's rates cannot be approved by FERC unless they are sufficient to meet these obligations.

126 Cong. Rec. H9843 (daily ed. Sep. 29, 1980) (statement of Rep. Ullman).

BPA is neither predetermining the results of the rate test nor suggesting a disregard for section 7(b)(2) with this discussion. BPA is not suggesting a solution to any problem arising from a potential conflict among sections 7(a), 7(b)(2), and 7(b)(3). BPA is merely attempting through this interpretation to alert its customers and the public to one possible problem which may present itself in the future.

**3. Interpretation: Applicable 7(g) Costs are to be excluded from the Program Case rates and the 7(b)(2) Case rates prior to comparison with the 7(b)(2) Case rates.**

**Discussion:**

Section 7(b)(2) states: "... the projected amounts to be charged for firm power for the combined general requirements of public body, cooperative and Federal agency customers, exclusive of amounts charged such customers under subsection (g) for the costs of conservation, resource and conservation credits, experimental resources and uncontrollable events, may not exceed in total ... an amount equal to the power costs for general requirements of such customers if, the Administrator assumes ..." the Five Assumptions. 16 U.S.C. § 839e(b)(2).

The foregoing language describes the basic comparison of the Program Case and the 7(b)(2) Case in performing the section 7(b)(2) rate test. In particular, it sets forth the instructions on how BPA is to initially construct the two revenue requirements that will serve as the foundation of the rate test comparison. The language begins with the Program Case. The revenue requirement in the Program Case rate is to be constructed from the "projected amounts to be charged for firm power" for the "general requirements" of BPA's preference customers. This phrase refers to the firm power costs BPA is proposing to recover through its 7(b) rates. Thus, BPA is to start with its total revenue requirement in the Program Case.

The statutory language further directs BPA to modify this revenue requirement by excluding "the amounts charged such customers under subsection (g) for the costs of conservation, resource and conservation credits, experimental resources and uncontrollable events ..." In other words, BPA must subtract the identified 7(g) costs (referred to hereafter as Applicable 7(g) Costs) from the Program Case revenue requirement. This reduces the revenue requirement in the Program Case, resulting in the power costs to be recovered in the Program Case.

The second half of the above-noted language then describes how BPA is to initially construct the revenue requirement in the 7(b)(2) Case. Specifically, the 7(b)(2) Case revenue requirement is equal to "the power costs for general requirements of such customers ..." as modified by the Five Assumptions. The phrase "power costs for general requirements of such customers" is a direct reference back to the "projected amounts to be charged" when calculating the costs of the Program Case. Because the two clauses are identical in all material respects, the same power costs that were used to serve the "general requirements" in the Program Case should be used as the starting point to construct the revenue requirement for the 7(b)(2) Case; that is, "the projected amounts to be charged for firm power, subject to the Five Assumptions and their secondary effects."

This interpretation, in addition to being consistent with the aforementioned statutory text, also makes practical sense when actually implementing the 7(b)(2) rate test. First, having symmetry between the initial revenue requirements in the Program Case and the 7(b)(2) Case ensures that the later application of the Five Assumptions and their secondary effects is the

central reason the rate test triggers or fails to trigger. Congress specifically identified the Five Assumptions as the factors the Administrator was to “assume” in determining the power costs in the 7(b)(2) Case. By limiting the cost differences between the Program Case and the 7(b)(2) Case before the application of these assumptions, BPA can give the full and proper effect to the rate test construct envisioned by Congress. Without this symmetry, the rate test results may become skewed by factors other than the Five Assumptions and their secondary effects. For example, if Applicable 7(g) Costs were excluded from the Program Case (making it less expensive), but included in the 7(b)(2) Case (making it more expensive), it could create a cost incongruity that could become a determinative factor in whether the rate test will trigger. Having an equilibrium between the costs in the Program Case and the 7(b)(2) Case reduces these unintended consequences and preserves the Congressionally identified drivers of the rate test – the Five Assumptions and their secondary effects.

Second, this interpretation also avoids potential conflicts with the remaining sections of the 7(b)(2) rate test. Specifically, if the “power costs” used in the 7(b)(2) Case were not interpreted to mean the same power costs in the Program Case, exclusive of costs related to the Five Assumptions and their secondary effects, a conflict would occur between the above-mentioned paragraph and section 7(b)(2)(D)(i), the fourth of the Five Assumptions. The fourth assumption specifies that any remaining General Requirements in the 7(b)(2) Case that have not been satisfied by Federal Base System (FBS) resources pursuant to the second assumption (*i.e.*, section 7(b)(2)(B)) are met with resources taken from a resource stack developed in accordance with subsection 7(b)(2)(D). *See* Issue 11, *infra*.

Section 7(b)(2)(D) provides that, in conducting the 7(b)(2) test, the Administrator is to assume that:

all resources that would have been required, during such five-year period, to meet remaining general requirements of the public body, cooperative and Federal agency customers (other than requirements met by the available Federal base system resources determined under subparagraph (B) of this paragraph) were –

(i) purchased from such customers by the Administrator pursuant to section 6,  
or

(ii) not committed to load pursuant to section 5(b),  
and were the least expensive resources owned or purchased by public bodies and cooperatives; and any additional needed resources were obtained at the average cost of all other resources acquired by the Administrator...

16 U.S.C. § 839e(b)(2)(D). Resources that meet the criteria identified in section 7(b)(2)(D) are assumed to be in a “resource stack,” available for use to serve the General Requirements of the 7(b)(2) Customers in the 7(b)(2) Case. This resource stack includes three types of resources. Type 1 resources are resources the Administrator acquired or plans to acquire from 7(b)(2) Customers pursuant to section 6 of the Northwest Power Act. Type 2 resources are not committed to load pursuant to section 5(b). Type 3 resources are any remaining needed

resources. *See* Issue 11, *infra*. It is the Type 1 resources that create an anomaly in the treatment of 7(g) costs.

When resources are included in the resource stack, they are not used to serve General Requirements in the 7(b)(2) Case unless needed and selected from the stack. Section 7(b)(2)(D) refers to “resources ... purchased from such [7(b)(2)] customers by the Administrator pursuant to section 6 [of the Northwest Power Act].” *Id.* Conservation is a resource that is assumed to be available in the resource stack. The Northwest Power Act specifically defines conservation as a resource:

“Resource” means – electric power, including the actual or planned electric power capability of generating facilities, or actual or planned *load reduction resulting from* direct application of a renewable energy resource by a consumer, or from a *conservation measure*.

16 U.S.C. § 839a(19) (emphasis added). Furthermore, conservation is acquired pursuant to section 6 of the Act. Section 6 provides, *inter alia*, that “[t]he Administrator shall acquire such resources through conservation ...” 16 U.S.C. § 839d(a)(1). The term “such resources” refers to resources sufficient to meet the Administrator’s contractual obligations under section 5 to provide electric power to meet firm power loads. Therefore, conservation is a Type 1 resource and must be included in the resource stack.

Conservation resources and billing credit resources, however, can only be included in the resource stack if Applicable 7(g) Costs are removed from the starting 7(b)(2) Case revenue requirements. Recall that the Applicable 7(g) Costs exclude the cost “*of conservation, resource and conservation credits*, experimental resources and uncontrollable events ...” 16 U.S.C. § 839e(b)(2) (emphasis added). The import of leaving the Applicable 7(g) Costs in the 7(b)(2) Case is that the costs of “conservation, resource and conservation credits” will remain in the 7(b)(2) revenue requirement. With conservation costs already in the costs of the 7(b)(2) Case, there is no logical way for conservation resources to be available *again* in the resource stack. To do so would be to effectively double-count the conservation costs – first in the 7(b)(2) revenue requirement (because they were never taken out), and second as the costs of a Type 1 resource (assuming it is selected). The only way to avoid this double-counting is to either remove the conservation costs from the 7(b)(2) Case revenue requirement *or* remove conservation resource costs from the resource stack.

In BPA’s view, the more appropriate alternative is the former. Treating conservation as a Type 1 resource gives full effect to section 7(b)(2)(D)(i). The Administrator will be fulfilling the Congressional mandate to include resources in the 7(b)(2) Case resource stack “purchased from such customers by the Administrator pursuant to section 6 ...”; *e.g.*, conservation resources. 16 U.S.C. § 839e(b)(2)(D)(i). By contrast, the latter alternative of removing all conservation costs from the resource stack would completely frustrate the purpose of referring to section 6 resources in section 7(b)(2)(D)(i). This is also consistent with the lack of “exclusive of” language after the reference in section 7(b)(2) to “power costs for general requirements of such

customers ...” The better interpretation is therefore to include conservation as a Type 1 resource. To effectuate this interpretation, Applicable 7(g) Costs, which include conservation costs, must be removed from the 7(b)(2) Case revenue requirement.

In summary, BPA will interpret the aforementioned statutory language as meaning that the Program Case and 7(b)(2) Case must begin with the same power costs, exclusive of costs related to the Five Assumptions and their secondary effects. That is, the costs of resources associated with the Applicable 7(g) Costs will be excluded from the 7(b)(2) Case power costs through application of the Five Assumptions. The Applicable 7(g) Costs will be excluded from the Program Case rates prior to comparison with the 7(b)(2) Case rates. This interpretation is consistent with the statutory language and the purpose of the section 7(b)(2) rate test. It also avoids unnecessary conflicts with, and gives full effect to, the other provisions of section 7(b)(2).

**4. Interpretation: The appropriate Five-Year Period is the rate recovery period for the applicable rate case plus the ensuing four years.**

**Discussion:**

Section 7(b)(2) states: “... during any year after July 1, 1985, plus the ensuing four years, ...” and several times thereafter “... during such five-year period ...” “Any year,” in this context, refers to the period of time applicable to the opening statement of section 7(b)(2); namely, the period over which “the projected amounts to be charged for firm power” are applicable, otherwise known as the revenue recovery period.

BPA has had varying lengths of revenue recovery periods in the 22 years between July 1, 1985, and October 1, 2007. Four times BPA has used two-year periods, twice BPA has used five-year periods, once for one year, once for three years, and once for 27 months. In each of these periods, the rate test was performed on the basis that the revenue recovery period was the “first year” of the Five-Year Period. For each of these rate tests, the four years subsequent to the last year of the revenue recovery period were appended to form the Five-Year Period.

It is reasonable to consider that the Five-Year Period might encompass more than 60 months. As noted above, the rate test is to compare the projected amounts to be charged for firm power. In the instance of a revenue recovery period that encompasses more than 12 months, the projected amounts to be charged are developed for the entire revenue recovery period. Therefore, to be consistent with the development of the amounts to be charged, it is reasonable to consider that time period, be it 12 months or more, the first year of the period of consideration for the rate test.

**5. Interpretation: 7(b)(2) Customers' loads include DSI Loads that are Within or Adjacent to the 7(b)(2) Customers' service territories.**

**Discussion:**

Section 7(b)(2)(A) provides that BPA is to assume that “the public body and cooperative customers’ general requirements had included during such five-year period the direct service industrial customer loads which are: (i) served by the Administrator, and (ii) located within or adjacent to the geographic service boundaries of such public bodies and cooperatives ...” 16 U.S.C. § 839e(b)(2)(A). The plain language of section 7(b)(2)(A) requires the Administrator to assume that 7(b)(2) Customers’ loads include any Within or Adjacent DSI Loads during the Five-Year Period.

The legislative history of the Northwest Power Act also supports BPA’s interpretation of the statute. In the analysis of the section 7(b)(2) directives contained in Appendix B to the Senate Report, S. Rep. No. 272, 96th Cong., 1st Sess., at 65-79 (1979), forecast DSI Loads were transferred from BPA to 7(b)(2) Customers for the entire test period regardless of contracts in effect as of the effective date of the Northwest Power Act. In the projections contained in Appendix B, calculations of public agency loads for the 7(b)(2) Case included a full 85 percent of projected DSI Loads beginning in 1980 (85 percent was the amount determined to be “Within or Adjacent” to preference agency service areas). Although Appendix B is not conclusive evidence of legislative intent, it was “an important part of the common understanding about how the costs of resources would be distributed as a result of [the Northwest Power Act].” *Id.* at 31. Appendix B is a useful tool for statutory construction where it speaks directly to an issue and does not conflict with the language of the statute.

**6. Interpretation: BPA will use Appendix B of the Senate Report to assist in determining which DSI Loads are Within or Adjacent to the geographic service boundaries of 7(b)(2) Customers.**

**Discussion:**

Section 7(b)(2)(A) requires the Administrator to assume that during the relevant Five-Year Period, “the public body and cooperative customers’ general requirements had included ... the direct service industrial customer loads which are ... located within or adjacent to the geographic service boundaries of such public bodies and cooperatives ...” 16 U.S.C. § 839e(b)(2)(A). It is not apparent from the statute how BPA is to resolve the question of which DSIs are Within or Adjacent to public body and cooperative customers’ boundaries. Therefore, BPA must look to legislative history to resolve the ambiguity.

The legislative history of the Northwest Power Act indicates that a determination of which DSIs are Within or Adjacent to public body and cooperative customers’ boundaries was made in Appendix B. S. Rep. No. 272, 96th Cong., 1st Sess., Appendix B, at 66. Appendix B includes a

table listing the DSIs “within BPA preference customers’ service areas,” DSIs “adjacent to BPA preference customers’ service areas,” and those DSIs that “could not readily be served by BPA preference customers.” *Id.*

The Within or Adjacent table in the numerical analysis in Appendix B is accompanied by a narrative explanation which states that the loads for establishing resource requirements under section 7(b)(2) will include “DSI total loads within or adjacent to the service territory of the public bodies and cooperatives. (85 percent of existing DSIs as shown in the attached table).” *Id.* at 58. The clear and detailed nature of the Within or Adjacent table and the narrative explanation in Appendix B convince BPA that Congress intended the Appendix B table to be used in resolving which DSIs are Within or Adjacent to the service territories of public body and cooperative customers. The Appendix B table will be disregarded only if conditions of service to those DSI customers change, such as in the case of termination of BPA service to a DSI industrial plant, or if the location of the DSI changes from an IOU service territory to a public utility service territory.

Adjacent will be assessed on electrical connections rather than a strictly locational basis. Circumstances may occur where a DSI’s location may be outside of a 7(b)(2) Customer’s service territory, but a direct electrical connection exists between the DSI and the 7(b)(2) Customer. Conversely, a DSI’s location may be inside a 7(b)(2) Customer’s service territory, but no direct electrical connection exists between the DSI and the 7(b)(2) Customer. This determination will consider normal operating electrical connections and disregard emergency connections.

**7. Interpretation: All DSI Loads assumed to be placed on 7(b)(2) Customers will be treated as firm loads.**

**Discussion:**

Section 7(b)(2)(A) provides that BPA is to assume “that the public body and cooperative customers’ general requirements had included during such five-year period the direct service industrial customers loads ...” 16 U.S.C. § 839e(b)(2)(A). Section 7(b)(2)(A) does not expressly state the nature or quality of service assumed to be provided by the public bodies and cooperatives to the relevant DSI Loads.

The DSI Loads originally served by BPA under the Northwest Power Act included three quartiles that were firm loads and one quartile (the first quartile) that BPA did not plan or acquire resources to serve. However, the language of the Act is compelling that Congress intended all relevant DSI Loads, assumed to be served by public bodies and cooperatives, to be treated as firm.

Section 7(b)(2)(A) requires BPA to assume that the loads of relevant DSIs are included in the 7(b)(2) Customers’ “general requirements,” a term defined by section 7(b)(4) of the Northwest Power Act as limited to electric power purchased from the Administrator under

section 5(b) of the Act. Section 5(b) deals exclusively with firm power. In addition, section 7(b)(2)(B) requires the Administrator to assume that public body, cooperative, and Federal agency customers are served first with the FBS resources, and section 7(b)(2)(D) requires that additional resources be assumed to serve the remaining general requirements of the 7(b)(2) Customers.

The legislative history of the Northwest Power Act supports interpreting the statute to require 7(b)(2) Customers' firm power General Requirements in the 7(b)(2) Case to include all DSI Loads served by the Administrator. This includes DSI Loads that BPA does not plan or acquire resources to serve (*e.g.*, first-quartile service) in the Program Case. In Appendix B, all four quartiles of DSI Loads were treated as firm when assigned to public agency customers in the 7(b)(2) Case.

**8. Interpretation: Section 7(b)(2)(B) necessitates an examination of Program Case contracts in the determination of “Federal base system resources not obligated to other entities.”**

**Discussion:**

Section 7(b)(2)(B) provides that the Administrator is to assume that 7(b)(2) Customers were served by FBS resources “not obligated to other entities under contracts existing as of December 5, 1980 (during the remaining term of such contracts), excluding obligations to direct service industrial customer loads included in [Section 7(b)(2)(A)].” 16 U.S.C. § 839e(b)(2)(A). Unlike the assumption relating to DSI Loads served by public body and cooperative customers, section 7(b)(2)(B) requires BPA to make two factual determinations: (1) what the level of FBS resources is, and (2) what level of FBS resources is obligated for service to other entities, for all or a portion of the relevant Five-Year Period. The first determination is necessary because the FBS includes resources purchased by BPA under long-term contracts. Expiration of these contracts may cause a change in the size of the FBS during the relevant Five-Year Period.

The second determination concerns BPA power sales contracts or other obligations existing as of the effective date of the Northwest Power Act. Should these contractual obligations on FBS resources be removed through expiration of the relevant contracts, the size of FBS resources available to 7(b)(2) Customers would increase. Obligations on FBS resources include uses of power mandated by treaty, statute, or contracts entered into by BPA before December 5, 1980. The DSI obligations referenced in subsection 7(b)(2)(B) have since expired, rendering the “excluding obligations” language no longer effective.

Any contract that BPA enters into subsequent to December 5, 1980, that exchanges FBS capacity for energy, exchanges seasonal FBS energy, or for the sale of FBS capacity with the return of the energy, will be assumed only if there is FBS surplus to 7(b)(2) Customer needs. Therefore, the energy and revenue from such contracts will not be recognized in the 7(b)(2) Case unless, and to the extent that, there is surplus FBS in the 7(b)(2) Case.



**9. Interpretation: Section 7(b)(2)(B) requires the allocation of resource pools to load pools in the Program Case to be reconsidered in the 7(b)(2) Case.**

**Discussion:**

Section 7(b)(2)(B) states that the Administrator is to assume that “public body ... customers were served ... with Federal base system resources not obligated to other entities under contracts existing as of December 5, 1980 ... excluding obligations to direct service industrial customer loads included in subparagraph (A) of this paragraph.” 16 U.S.C. § 839e(b)(2)(B).

In the Program Case, section 7(b)(1) sets forth the sequence of allocating resource pools to load pools.

Such rate or rates shall recover the costs of that portion of the Federal base system resources needed to supply such loads until such sales exceed the Federal base system resources. Thereafter, such rate or rates shall recover the cost of additional electric power as needed to supply such loads, first from the electric power acquired by the Administrator under section 5(c) and then from other resources.

The resource cost allocation hierarchy established by section 7(b)(1), and complemented for other rates in sections 7(c)(1)(A) and 7(f), is that the FBS is to be used first to serve 7(b) loads, then for 7(c) loads and 7(f) loads until the FBS resources are exhausted. After the FBS resources are exhausted, BPA uses power acquired from the section 5(c) exchange to serve remaining loads. After using FBS and exchange resources, other resources acquired by BPA, also referred to as new resources, are used to serve remaining loads.

The Program Case uses this resource cost allocation hierarchy to apply the resource pools, and their costs, to the load pools as the method of assigning resource costs to the load pools. However, in the 7(b)(2) Case, the size of the load pools will be different than in the Program Case. For example, section 5(c) exchange loads are removed from the 7(b)(2) Case load pool, thereby creating a smaller 7(b) load pool in the 7(b)(2) Case.

As a result of the different sizes of load pools in the two cases, the 7(b)(2) Case must construct its own separate allocation of resource pools to load pools. Furthermore, because of the explicit exclusion of the section 5(c) exchange in the 7(b)(2) Case, the exchange resource pool is eliminated. Lastly, because additional resources necessary in the 7(b)(2) Case are to be added through the 7(b)(2)(D) resource stack, the new resource resource pool is eliminated from the 7(b)(2) Case. All of these differences will result in different resource cost allocations than in the Program Case.

- 10. Interpretation: Section 7(b)(2)(C) requires the exclusion of all costs relating to the section 5(c) exchange, otherwise known as the Residential Exchange Program, from the 7(b)(2) Case. In addition, the loads and resources associated with the exchange will also be excluded from the 7(b)(2) Case.**

**Discussion:**

Section 7(b)(2)(C) states that the Administrator is to assume that “no purchases or sales by the Administrator as provided in section 5(c) were made during such five-year period.” 16 U.S.C. § 839e(b)(2)(C). This language unmistakably provides that the 7(b)(2) Case is to assume that the Residential Exchange Program is to be excluded from consideration. This includes all aspects of the exchange: the costs, the purchases, and the sales. Further, any implementation costs included in the Program Case should be excluded from the 7(b)(2) Case, as should any costs associated with a settlement of residential exchange benefits.

- 11. Interpretation: Section 7(b)(2)(D) identifies three additional resource types assumed to be available to meet the 7(b)(2) Customers’ Remaining General Requirements when FBS resources are exhausted. Type 1 are those resources not included in the FBS that are actually acquired by BPA from 7(b)(2) Customers in the Program Case. Type 2 are those resources owned or purchased by the 7(b)(2) Customers and not dedicated to load by public agencies or investor-owned utilities pursuant to section 5(b). These two types of resources are to be stacked in order of cost and then pulled from the stack to meet 7(b)(2) Customers’ loads as needed, least expensive first. Type 3 resources are additional acquired resources not included in the FBS, which are priced at the average cost of all new resources acquired by BPA from non-7(b)(2) Customers during the Five-Year Period.**

**Discussion:**

Section 7(b)(2)(D) describes the manner in which additional resources are assumed to be acquired to meet the 7(b)(2) Customers’ loads when FBS resources are exhausted. Three types of additional resources are available in the 7(b)(2) Case. The first type of resource is described in section 7(b)(2)(D)(i) as being resources that were “purchased from such customers by the Administrator pursuant to section 6.” These are the resources actually acquired by BPA from the 7(b)(2) Customers in the Program Case.

Conservation is defined in the Northwest Power Act as a resource. “‘Resource’ means ... actual or planned load reduction resulting from direct application of a renewable energy resource by a consumer, or from a conservation measure.” 16 U.S.C. § 839a(19). In addition, conservation is acquired by BPA under section 6. “The Administrator shall acquire such resources through conservation, implement all such conservation measures, and acquire such renewable resources which are installed by a residential or small commercial consumer to reduce load ...” 16 U.S.C. § 839d(a)(1). Because conservation is acquired from 7(b)(2) Customers, it is

a Type 1 resource. This being the case, section 7(b)(2)(D) requires that any conservation being acquired by BPA must be included in the resource stack as a non-FBS resource and available to meet 7(b)(2) Customer load to the extent it is needed and it is among the least expensive resources available. *See* Issue 3, *supra*.

Section 7(b)(2)(D)(ii) describes the second type of resource as those “not committed to load pursuant to section 5(b).” These are resources owned or purchased by the 7(b)(2) Customers that are not dedicated to load. Section 5(b)(1) of the Northwest Power Act provides:

Whenever requested, the Administrator shall offer to sell to each requesting public body and cooperative entitled to preference and priority under the Bonneville Project Act of 1937 and to each requesting investor-owned utility electric power to meet the firm power load of such public body, cooperative or investor-owned utility in the Region to the extent that such firm power load exceeds – (A) the capability of such entity’s firm peaking and energy resources used in the year prior to the enactment of this Act to serve its firm load in the region, and (B) such other resources as such entity determines, pursuant to contracts under this Act, will be used to serve its firm load in the region.

16 U.S.C. § 839c(b)(1). As noted in section 3(19) of the Northwest Power Act, the term “resource” includes “electric power.” 16 U.S.C. § 839a(19). Because section 5(b) applies to requirements determinations for both preference customers and investor-owned utilities, section 7(b)(2)(D)(ii) precludes BPA from including resources owned or purchased by 7(b)(2) Customers in the 7(b)(2) Case resource stack if such resources are committed to load by preference customers or investor-owned utilities.

Together, sections 7(b)(2)(D)(i) and (ii) result in a list of resources which are assumed to be available to meet 7(b)(2) Customer loads. The remainder of section 7(b)(2)(D) outlines how this list of resources is to be used to serve the 7(b)(2) Customers’ loads and describes the third type of resources available to meet 7(b)(2) Case loads. BPA is to assume for the 7(b)(2) Case that any required additional resources “were the least expensive resources owned or purchased by public bodies or cooperatives.” This means that 7(b)(2)(D)(i) and (ii) resources are stacked in order of cost and pulled from that stack to meet 7(b)(2) Customers’ loads in order of least to greatest cost. Should these resources be insufficient to satisfy the General Requirements of 7(b)(2) Customers, section 7(b)(2)(D) provides the assumption that “... any additional needed resources were obtained at the average cost of all other new resources acquired by the Administrator.” This third resource type consists of the other new resources acquired by BPA in an amount required to meet the 7(b)(2) Customers’ remaining loads, the cost of which is determined by the average cost of all new resources acquired by BPA from non-7(b)(2) Customers during the relevant Five-Year Period.

**12. Interpretation: Section 7(b)(2)(E) requires an assessment of the Quantifiable Monetary Savings that are realized by public body financing of resources that are in the resource stack.**

**Discussion:**

Section 7(b)(2)(E) states that the Administrator is to assume that “the quantifiable monetary savings, during such five-year period, to public body, cooperative and federal agency customers resulting from reduced public body and cooperative financing costs as applied to the total amount of resources, other than Federal base system resources, identified under subparagraph (D) of this paragraph, ... were not achieved.” 16 U.S.C. § 839e(b)(2)(E). The legislative history adds some clarification to this language. “The cost of resources to meet these requirements are ... (b) Costs of new resources, either actual or hypothetical, constructed or acquired by the public bodies and cooperatives as necessary to meet these preference customer load requirements using the financing costs of such agencies that would have resulted if actions of the Administrator under Section 6 of the Bill were not achieved.” S. Rep. No. 272, 96th Cong., 1st Sess., 58 (1979), Appendix B.

This subsection provides that the 7(b)(2) Case is to assume that the cost of resources in the subsection 7(b)(2)(D) resource stack is to exclude any 7(b)(2) Customer’s financing benefits due to BPA’s purchase of the output of the resource.

**13. Interpretation: Section 7(b)(2)(E) requires an assessment of the value of Reserve Benefits acquired by BPA due to the Northwest Power Act.**

**Discussion:**

Section 7(b)(2)(E) states that the Administrator is to assume that “the quantifiable monetary savings, during such five-year period, to public body, cooperative and federal agency customers resulting from ... reserve benefits as a result of the Administrator’s actions under this chapter were not achieved.” 16 U.S.C. § 839e(b)(2)(E). Reserve Benefits result from resources designated by BPA to provide reserves and BPA’s restriction rights on loads provided for in power sales contracts. In the 7(b)(2) Case, these resources and restriction rights may be unavailable to BPA. Without the restriction rights, for example, BPA would have to incur the costs of providing an equivalent amount of reserves from another source. This subsection provides that the 7(b)(2) Case is to assume that cost reductions attributable to Reserve Benefits are not achieved in the 7(b)(2) Case. Therefore, the 7(b)(2) Case revenue requirement is to assume the extra cost of procuring the reserves provided to the Program Case.

# **SECTION 7(b)(2) OF THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT**

## **IMPLEMENTATION METHODOLOGY**

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February 2009

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Attachment 2

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**DEPARTMENT OF ENERGY  
BONNEVILLE POWER ADMINISTRATION**

**Implementation Methodology of Section 7(b)(2) of the Pacific Northwest  
Electric Power Planning and Conservation Act**

**I. Introduction**

The Pacific Northwest Electric Power Planning and Conservation Act (“Northwest Power Act”), 16 U.S.C. § 839, confirms BPA’s obligation to establish and revise BPA’s rates for the sale and transmission of electric power. Section 7(b)(2) of the Northwest Power Act provides that:

after July 1, 1985, the projected amounts to be charged for firm power for the general requirements of public body, cooperative and Federal agency customers, exclusive of amounts charged such customers under subsection (g) for the costs of conservation, resource and conservation credits, experimental resources and uncontrollable events, may not exceed in total, as determined by the Administrator, during any year after July 1, 1985, plus the ensuing four years, an amount equal to the power costs for general requirements of such customers if the Administrator ...

makes a set of assumptions, outlined in the remainder of section 7(b)(2). These assumptions hypothetically remove the effects of certain provisions in the Northwest Power Act. In order to implement the provisions in section 7(b)(2), BPA has formulated a methodology that specifies how BPA will conduct the section 7(b)(2) rate test.

The implementation of section 7(b)(2) in any given BPA rate proceeding requires two distinct steps. The first step is to compare a set of annual rates developed under all the provisions of the Northwest Power Act before considering the effects of section 7(b)(2) (the Program Case), with a set of annual rates developed under the assumptions outlined in section 7(b)(2) (the 7(b)(2) Case). Both sets of rates are those applicable to public body, cooperative, and Federal agency customers (7(b)(2) Customers) and are based on the costs of power required to serve the General Requirements of those customers over the Five-Year Period.

If the rates in the Program Case are determined to be higher than those in the 7(b)(2) Case, then rate protection is to be afforded to preference customers and a second step is required. The allocated costs of the 7(b)(2) Customers must be reduced by the amount of rate protection afforded by the rate test and the difference allocated to other BPA rates pursuant to section 7(b)(3) of the Northwest Power Act. This potential reallocation must be made within the framework of sound ratemaking principles and BPA’s statutory obligations.

## II. Definitions

This section contains definitions applicable to section 7(b)(2). Terms identified in the Northwest Power Act have the same meaning in this section, unless further defined.

1. Relevant Rate Case: The section 7(i) wholesale power rate adjustment proceeding being conducted at the time the projections for section 7(b)(2) are made, and in which any adjustment to rates in accordance with section 7(b)(2) may be reflected.
2. General Requirements: The public body, cooperative, and Federal agency customers' electric power assumed in the Relevant Rate Case to be purchased from BPA, exclusive of new large single loads. General Requirements are limited to power purchased from BPA under section 5(b) of the Northwest Power Act; section 5(c) purchases from BPA are not included.
3. 7(b)(2) Customers: Those firm power customers of BPA that are listed in section 7(b)(2) of the Northwest Power Act as subject to the rate test, *viz.*, public bodies, cooperatives, and Federal agencies.
4. Applicable 7(g) Costs: The costs identified in section 7(g) of the Northwest Power Act that are also listed in section 7(b)(2), *viz.*, costs chargeable to 7(b)(2) Customers for conservation, resource and conservation credits, Experimental Resources, and Uncontrollable Events.
5. Uncontrollable Event: A discrete event which differs from the continuum of changing events that occur in nature, business, and government (such as changes in water conditions, aluminum prices, and electricity markets) and that are routinely reflected in ratemaking.
6. Experimental Resources: Resources that are undergoing research and development and are funded by BPA in full or in part.
7. Five-Year Period: The rate recovery period of the Relevant Rate Case, plus the ensuing four years. If the Relevant Rate Case has more than a one-year rate recovery period, the Five-Year Period will be greater than five years.
8. Program Case: The entire process of calculating rates to be charged in the Five-Year Period of the Relevant Rate Case under the provisions of the Northwest Power Act other than section 7(b)(2), including all specific data, assumptions, and results.
9. 7(b)(2) Case: The entire process of calculating rates for the relevant Five-Year Period under the provisions of section 7(b)(2) of the Northwest Power Act, including all specific data, assumptions, and results.
10. Five Assumptions: The five differences between the Program Case and the 7(b)(2) Case specified in subsections (A) through (E) of section 7(b)(2) of the Northwest Power Act.



11. DSI Loads: Those loads of direct service industries (DSIs) that are forecast to be served by BPA, during the Five-Year Period, pursuant to section 5(d)(1) or 5(f) of the Northwest Power Act.

12. Within or Adjacent: Relating to DSI customer loads determined in accordance with section 7(b)(2)(A) to be electrically within or adjacent to the geographic service territories of 7(b)(2) Customers.

13. Quantifiable Monetary Savings: The change in annual costs attributable to differences in resource financing or Reserve Benefits.

14. Reserve Benefits: The annual financial value of (1) resources designated by BPA as providing reserves, or (2) interruptible load that forestalls a resource acquisition by virtue of the ability to curtail the load at a time when off-line generation would otherwise need to be available to start up and serve load during unexpected conditions.

### **III. Legal Interpretation**

BPA first published a Legal Interpretation of Section 7(b)(2) of the Pacific Northwest Power Planning and Conservation Act in 1984. 49 Fed. Reg. 23,998 (June 8, 1984). The first Legal Interpretation presented BPA's interpretation of section 7(b)(2) of the Northwest Power Act, incorporating principles of statutory construction and a review of legislative history. In addition, BPA considered the views expressed in a series of informal meetings with interested persons and in comments received in response to the publication of an earlier notice of a draft Legal Interpretation. The scope of the notice was limited to those issues that relied on statutory language or legislative intent for resolution.

Concurrent with the consideration of this revision to the Implementation Methodology, BPA is proposing revisions to the Legal Interpretation. This Methodology incorporates changes to conform to revisions to the Legal Interpretation.

Briefly, BPA interprets section 7(b)(2) as follows:

1. Section 7(b)(2) limits the 7(b)(2) Case to the Five Assumptions listed in section 7(b)(2) and the secondary effects of those assumptions.

2. Implementation of section 7(b)(2), and any subsequent reallocation pursuant to section 7(b)(3), will not conflict with the requirements of section 7(a).

3. Applicable 7(g) Costs are to be excluded from the Program Case revenue requirements and the 7(b)(2) Case revenue requirements prior to further determination of the 7(b)(2) Case power costs.

4. The appropriate Five-Year Period is the rate recovery period for the applicable rate case plus the ensuing four years.

5. 7(b)(2) Customers' loads include DSI Loads that are Within or Adjacent to the 7(b)(2) Customers' service territories.
6. BPA will use Appendix B of the Senate Report to assist in determining which DSI Loads are Within or Adjacent to the geographic service boundaries of 7(b)(2) Customers.
7. All DSI Loads assumed to be placed on 7(b)(2) Customers will be treated as firm loads.
8. Section 7(b)(2)(B) necessitates an examination of Program Case contracts in the determination of "Federal base system resources not obligated to other entities."
9. Section 7(b)(2)(B) requires the allocation of resource pools to load pools in the Program Case to be reconsidered in the 7(b)(2) Case.
10. Section 7(b)(2)(C) requires the exclusion of all costs relating to the section 5(c) exchange, otherwise known as the Residential Exchange Program, from the 7(b)(2) Case. In addition, the loads and resources associated with the exchange will also be excluded from the 7(b)(2) Case.
11. Section 7(b)(2)(D) identifies three additional resource types assumed to be available to meet the 7(b)(2) Customers' remaining General Requirements when FBS resources are exhausted. Type 1 are those resources not included in the FBS that are actually acquired by BPA from 7(b)(2) Customers in the Program Case. Conservation is a Type 1 resource. Type 2 are those resources owned or purchased by the 7(b)(2) Customers and not dedicated to load by public agencies or investor-owned utilities pursuant to section 5(b). These two types of resources are to be stacked in order of cost and then pulled from the stack to meet 7(b)(2) Customers' loads as needed, least expensive first. Type 3 resources are additional acquired resources not included in the FBS, which are priced at the average cost of all new resources acquired by BPA from non-7(b)(2) Customers during the Five-Year Period.
12. Section 7(b)(2)(E) requires an assessment of the Quantifiable Monetary Savings that are realized by public body financing of resources that are in the resource stack.
13. Section 7(b)(2)(E) requires an assessment of the value of Reserve Benefits acquired by BPA due to the Northwest Power Act.

#### **IV. The Program Case**

In performing the 7(b)(2) rate test, the Program Case is the Five-Year Period projection of the average annual power rates for serving the General Requirements of the 7(b)(2) Customers conforming with all the provisions of the Northwest Power Act before considering the effects of section 7(b)(2). All rate proposal determinations, decisions, and assumptions for the rate recovery period regarding revenue requirements, loads, resources, cost allocation, and rate

design will be used. All data for the ensuing four years will be consistent with or extrapolated from rate recovery period data. Ratemaking methodologies, such as those based on the rate directives in the Northwest Power Act and those used to allocate costs and revenue adjustments to BPA customer classes, will be unchanged over the Five-Year Period.

If BPA uses its section 7(e) rate design discretion to implement an alternative tiered rate form, that rate design flexibility will be applied subsequent to the section 7(b)(2) rate test. In such cases, the rate test will continue to be performed with all ~~cost~~ costs allocated to, and all loads included in, the 7(b) load pool, without respect to the tiering of such ~~costs and~~ loads and related costs.

## **1. Load Forecast**

A load forecast will be developed for every BPA rate proposal independent of any requirements for implementing section 7(b)(2). It will include estimates of BPA programmatic conservation savings for the forecast period. The treatment of power sales contracts that expire during the Five-Year Period will be the subject of each Relevant Rate Case. This forecast will provide the load estimates for the Program Case.

## **2. DSI Loads**

A load forecast of purchases by DSIs from BPA will be developed for the Five-Year Period. This forecast, without consideration of the rate schedule under which the power is sold, will define the DSI Loads for the Program Case.

## **3. Resources**

Regional resource generation studies are also conducted for BPA's rate proposals. These studies determine the capability of BPA's and the region's hydro and thermal resources for the Five-Year Period. The resource study results will be consistently applied through the Five-Year Period except as modified to reflect the start of commercial operation or retirement of generating resources and also for the planned effect or expiration of relevant contracts or purchases. Firm and secondary hydroelectric generation will be based on these studies. Assumptions about the level of surplus firm power sales for the Program Case will be the same as those made for the Relevant Rate Case.

## **4. Revenue Requirements, Including Residential Exchange Costs**

BPA's repayment process will be used for the determination of BPA revenue requirements through the Five-Year Period. Costs will be projected over the Five-Year Period using budget estimates, when available. Estimates of future inflation and real cost escalation and planned additions to BPA's power system will be used when budget estimates are unavailable.

## **5. Surplus Firm and Secondary Sales**

The Program Case establishes the forecast of revenues from surplus power sales, whether the surplus is firm or secondary.

## **6. Subtracting Applicable 7(g) Costs**

Prior to comparing the Program Case rates to the 7(b)(2) Case rates, section 7(b)(2) directs that the Applicable 7(g) Costs are to be subtracted from the Program Case rate. To accomplish this, the amounts of Applicable 7(g) Costs allocated to the 7(b) rate pool will be removed from the Program Case rates. To do so, the allocated Applicable 7(g) Costs will be expressed as a unit rate comparable to the 7(b) rate and will be subtracted from the annual 7(b) rates to calculate the adjusted Program Case rates.

## **7. Summary Methodology for the Program Case**

The procedures and data from the rate proposal cannot be described in detail in this document. They are properly rate case determinations that are outside the scope of the Methodology for implementing section 7(b)(2). The Section 7(b)(2) Methodology must be flexible enough to incorporate the procedures and data from the rate proposal for which the section 7(b)(2) rate test is being conducted. These procedures and data, as part of a BPA rate filing, are in turn subject to review and comment pursuant to section 7(i) of the Northwest Power Act. The Section 7(b)(2) Methodology can require only that the rate proposal procedures and data be modeled or incorporated as accurately as possible, which will be subject to examination during the Relevant Rate Case.

In summary, the Program Case will be BPA's best projection of its rates without considering the effects of section 7(b)(2). The exact procedures for the rate calculation in the Program Case cannot be determined until BPA has prepared its rate proposal. However, the rate test modeling will reflect the rate proposal procedures as completely as possible in producing the Program Case when the rate test is conducted for that rate proposal.

## **V. The 7(b)(2) Case**

The language of section 7(b)(2) not only directs BPA to conduct a rate test for the 7(b)(2) Customers, but also provides a considerable amount of direction as to how the rate test is to be conducted. BPA's Legal Interpretation provides the general approach to developing the 7(b)(2) Case. Based on this, the 7(b)(2) Case will be modeled in the same way as the Program Case, except where section 7(b)(2) provides specific assumptions that modify the Program Case. The modeling of these Five Assumptions and their secondary effects may lead to different results than the underlying premises and ratemaking processes that will be held constant between the two cases. The remainder of this section outlines how the 7(b)(2) Case rate calculations for the Five-Year Period will be developed.

## **1. Load Forecast**

The initial loads that will be used in the 7(b)(2) Case will be the same General Requirements as those used in the Program Case, except that they will not include estimates of programmatic conservation savings being acquired by BPA because conservation is a non-FBS resource. In addition, conservation is a resource acquired by the Administrator pursuant to section 6 and, therefore, conservation resources are required to be included in the 7(b)(2) Case resource stack. Because conservation resources must be included in the resource stack to be drawn to meet remaining loads if needed, they have not already been acquired, and therefore they cannot have reduced the loads of the 7(b)(2) Case. To remove the effects of the acquisition of conservation, the 7(b)(2) Customer loads will be increased by conservation being acquired by BPA. Power sales contracts that expire during the Five-Year Period, except for requirements and DSI contracts, will be recognized as expiring as scheduled. This forecast will provide the load estimates for the 7(b)(2) Case.

## **2. DSI Loads**

DSI Loads will be examined on a plant-by-plant basis to reflect whether or not they are Within or Adjacent. All Within or Adjacent DSI Loads will be included in the General Requirements of the 7(b)(2) Customers during the Five-Year Period. DSI Loads not Within or Adjacent are assumed to be served by private utilities. The forecast operating levels of the DSIs that are transferred to public and private utilities are assumed to be served as 100 percent firm loads.

## **3. Resources**

Section 7(b)(2)(B) requires the Administrator to assume that public body, cooperative, and Federal agency customers are served first with FBS resources, and 7(b)(2)(D) requires that additional resources be assumed to serve the remaining general requirements of the 7(b)(2) Customers. As in the Program Case, the FBS in the 7(b)(2) Case will be reduced by any contractual, statutory, or treaty obligations on these resources that were in existence prior to passage of the Northwest Power Act (statutory and treaty including the Canadian Entitlement return, the Hungry Horse Reservation, and Bureau pumping power).

Any contract that BPA enters into subsequent to December 5, 1980, that exchanges FBS capacity for energy, exchanges seasonal FBS energy, or for the sale of FBS capacity with the return of the energy, will be assumed only if there is FBS surplus to 7(b)(2) Customer needs. Therefore, the energy and revenue from such contracts will not be recognized in the 7(b)(2) Case unless there is an FBS surplus in the 7(b)(2) Case. If the FBS surplus does not allow full recognition of these contracts, then a *pro rata* share of energy and revenues will be recognized in the 7(b)(2) Case.

Any surplus FBS resources remaining after meeting FBS obligations, 7(b)(2) Customer loads, and contracts subsequent to December 5, 1980, will be assumed to be sold in the wholesale energy markets at the forecast price assumed in the Program Case for such sales.

If FBS resources, after meeting obligations, are insufficient to meet the loads of the 7(b)(2) Customers, then three types of additional resources can be added to serve those loads. These additional resources are defined in section 7(b)(2)(D) and are: (a) actual and planned resource acquisitions by BPA from 7(b)(2) Customers consistent with the Program Case, including conservation resources; (b) existing 7(b)(2) Customer resources not currently committed to regional load by preference customers or IOUs; and (c) all other needed resources, acquired at the average cost of actual and planned resource acquisitions by BPA from non-7(b)(2) Customers consistent with the Program Case. The Type 1 and Type 2 resources will be assumed to come online to meet the remaining General Requirements of the 7(b)(2) Customers after FBS service in order of least-cost first. The resources will then be brought online in the exact amount required to meet the 7(b)(2) Customers' remaining General Requirements. However, once brought online, the resources will remain online throughout the Five-Year Period, even if loads are lower in subsequent years. In such cases, the excess resources will be assumed to be sold at the average cost of all the excess resources and the revenues credited to the 7(b)(2) Case rates.

#### **4. Revenue Requirement**

Except for specific exclusions resulting from the Five Assumptions and their secondary effects, the revenue requirement for the 7(b)(2) Case will be the same as the Program Case. The specific exceptions are:

(1) all costs related to the Residential Exchange Program will be removed, including the identified BPA costs of implementing the program. Any costs included in the Program Case that are the result of a settlement of Residential Exchange Program claims will also be excluded;

(2) all costs of any acquisition of new resources will be removed;

(3) Applicable 7(g) Costs will be removed; that is, the costs of conservation, billing credits, experimental resources, and uncontrollable events.

In addition to these explicit exclusions, the secondary effects of their exclusion will be considered. Specifically, for example, the Program Case repayment study will be performed without the excluded costs to determine the interest and amortization applicable to the 7(b)(2) Case.

#### **5. Surplus Firm and Secondary Sales**

The load and resource situation in the 7(b)(2) Case may be considerably different from that in the Program Case. The increase in the region's firm load due to the 100 percent firm service to Within or Adjacent DSI Loads, a different load forecast for the 7(b)(2) Case due to conservation removal, and a potentially different set of resources all imply that a different level of surplus firm power may be projected for the 7(b)(2) Case than for the Program Case. The level of surplus firm sales in the 7(b)(2) Case will be determined in the same manner as it is in the Program Case. However, any sales of surplus firm power projected to be made in the Program Case to serve interruptible DSI Loads will not be made in the 7(b)(2) Case. Any firm surplus FBS in the 7(b)(2) Case will be assumed to be sold at the average rate of post-Act

contract sales in the Program Case. Any difference between costs allocated to surplus firm and revenues from the sale will be allocated to 7(b)(2) Customers.

Secondary energy generation of the region's hydroelectric system will also be assumed to be the same as in the Program Case. However, the secondary energy sales will be increased in the 7(b)(2) Case to reflect additional sales due to the removal of interruptible DSI Load.

## **6. Financing Benefits**

Section 7(b)(2)(E)(1) requires that BPA assume that Quantifiable Monetary Savings to 7(b)(2) Customers resulting from reduced public utility financing costs for the first two types of non-FBS resources described above were not achieved in the 7(b)(2) Case. Therefore, any additional resources required to serve the General Requirements of 7(b)(2) Customers will not reflect the financing cost reductions implicit in resource acquisitions by public bodies. Non-conservation Type 1 and Type 2 resources that are already financed and constructed and that did not receive any financing benefit associated with having a BPA acquisition contract when originally constructed or when refinanced do not have their financing costs changed by the financing study.

A list of eligible resources will be developed, containing cost and sponsor information for each resource. For those resources actually acquired by BPA in the Program Case, and for those resources not dedicated to load and assumed available to BPA, BPA will estimate the financing costs for the resource sponsor assuming that BPA had not acquired the resource output. Finally, when detailed financing cost and sponsor information is not available for planned 7(b)(2) Customer resources, BPA will follow the same procedures, assuming projected public sponsored resource costs. Any changes in financing costs determined from this analysis will be included in the costs of the resources in the 7(b)(2) Case.

For conservation resources acquired by BPA, the financing benefits may include an increased amount of debt financing compared to the Program Case. The amount of debt financing assumed in the 7(b)(2) Case will be determined in the Relevant Rate Case.

## **7. Reserve Benefits**

Section 7(b)(2)(E)(ii) requires BPA to assume that the Quantifiable Monetary Savings resulting from Reserve Benefits were not achieved. Reserve Benefits result from BPA's designated resources or restriction rights on loads provided for in power sales contracts. In the 7(b)(2) Case, these resources and restriction rights may be unavailable to BPA. Without the restriction rights, for example, BPA would incur the costs of providing an equivalent amount of reserves from another source. Therefore, it will be assumed that BPA will incur a level of costs for the benefit of public utilities based on the value of the reserves provided by the designated resources or restriction rights to the Program Case as determined in BPA's rate proposal. The value of reserves determination is currently based, in large part, on the cost of an alternative reserve resource. Also, if the level of reserves provided by the resources or restriction rights is insufficient in the 7(b)(2) Case, based on BPA planning criteria, then additional reserve resource costs will be added in the 7(b)(2) Case.

## **VI. Rate Test Computer Model**

Conducting the section 7(b)(2) rate test requires the use of a computer model to develop the rate projections for the Program Case and the 7(b)(2) Case. The exact form of the Program Case procedures cannot be determined until the time of the Relevant Rate Case for which the rate test is being conducted. The 7(b)(2) Case is inextricably linked to the Program Case as a result of the general approach applied to modeling the 7(b)(2) Case. Therefore, to the maximum extent possible, the exact structure and form of the computer model should be the same as used in determining BPA's actual power rates.

## **VII. Comparison of Rates**

For each of the two Cases, the Program and the 7(b)(2), the rate test model will produce a set of annual average energy rates for the Five-Year Period. These two sets of rates will be used to determine if a reallocation of costs pursuant to section 7(b)(3) is required. The relevant rates for the comparison from the Program Case are BPA's average annual 7(b) rate less Applicable 7(g) Costs. The relevant rates from the 7(b)(2) Case are the per-kilowatthour power costs of serving the General Requirements of the 7(b)(2) Customers.

The 7(b) rate in the Program Case will be developed in the same manner as it is in BPA's rate proposal. The 7(b)(2) rate in the 7(b)(2) Case will include the costs of resources required to serve the 7(b)(2) Customers, along with all other costs and revenue adjustments not excluded by the Five Assumptions and their secondary effects. These costs and revenue adjustments include, but are not limited to, BPA's administrative and general costs, the FBS allocation of contract revenue deficiencies, and secondary revenue credits.

Prior to comparison with the 7(b)(2) rates from the 7(b)(2) Case, the 7(b) rates from the Program Case will be reduced by the Applicable 7(g) Costs listed in section 7(b)(2). All the costs of BPA conservation programs, billing credits, Experimental Resources, and Uncontrollable Events that were allocated to the 7(b) rates will be subtracted. The reduced Program Case rates will then be compared to the 7(b)(2) rates to determine if the 7(b)(2) rates are lower, on average, than the Program Case rates.

The comparison between the Program Case and the 7(b)(2) Case rates will be conducted for the Five-Year Period and will consider the time value of money. Therefore, the two sets of rates will be discounted back to the beginning of the first year of the Relevant Rate Case at BPA's projected future nominal borrowing rate, and then a simple average will be computed over the Five-Year Period. The discounted average rates will be rounded to the nearest ~~tenth~~ hundredth of a mill per kilowatthour. If the simple average of discounted 7(b)(2) Case rates is less than that of the Program Case rates, then a determination of an amount of rate protection to be reallocated in BPA's rate proposal is required. The difference known as the 7(b)(2) rate test trigger amount will be rounded to the nearest hundredth of a mill per kilowatthour when performing the reallocation.



## **VIII. Determination of Rate Protection Amount**

If it is determined that the results of the rate test require a reallocation of costs for BPA's rate proposal to effect the rate protection, then the amount to be credited to the 7(b)(2) Customers and reallocated to BPA's other non-PF Preference sales must be calculated. This credit reflects the fact that it is a rate period adjustment that is based on a Five-Year Period determination. The difference in average discounted rates ([rounded to the nearest hundredth of a mill](#)) will be multiplied by the preference customer loads for the Relevant Rate Case to determine the reduction in the 7(b)(2) Customers' rate period costs.

## **IX. Conclusion**

The section 7(b)(2) rate test, up to and including the point at which the rate protection amount is determined, is conducted outside of the mainstream of BPA's rate development process. Although the rate test reflects the Five Assumptions and their secondary effects used in the rate proposal, the rate test has no impact on BPA rates until the rate protection amount is included in BPA's rate design. At this point, any adjustment made to reflect the rate test results in BPA rates must be done within the overall framework of the rate development process and of BPA's ratemaking objectives and statutory requirements. Therefore, the section 7(b)(2) rate test results will be included as a step in BPA's rate design process, consistent with other statutory provisions and BPA's ratemaking objectives.

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FINAL REPORT  
TO  
**BONNEVILLE POWER ADMINISTRATION**  
ON  
ESTIMATED FINANCING COSTS  
FOR  
2010 POWER RATE CASE  
SECTION 7(b)(2) RATE TEST

January 21, 2009

PREPARED BY  
PUBLIC FINANCIAL MANAGEMENT



**The PFM Group**

Public Financial Management, Inc.  
PFM Asset Management LLC  
PFM Advisors

APPENDIX A TO:  
7(b)(2) RATE TEST STUDY, WP-10-E-BPA-06

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## **SECTION 1**

### **PURPOSE OF REPORT**

The purpose of this report is to provide our recommended financing costs that will be used by Bonneville Power Administration ("BPA") as inputs in their calculation of the "reduced public body and cooperative financing costs" as described in Section 7(b)(2)(E) of the Northwest Power Act. We also discuss certain assumptions and rationales used in arriving at these recommended financing costs. In providing the enclosed summary of our conclusions and assumptions, we have relied upon our professional experience and expertise in matters concerning the overall credit markets and the activities of BPA and other public and private utilities in the Pacific Northwest ("PNW") and throughout the country.

## **SECTION 2**

### **INTRODUCTION**

The Northwest Power Act requires that the Administrator of BPA periodically review and revise rates for the sale of Federal power and for the transmission of non-Federal power. As part of the process of reviewing and revising the rates for firm power to be charged its preference, direct-service industry ("DSI"), investor-owned utility ("IOU"), and other customers, the Administrator must follow the requirements of Section 7(b)(2) of the Northwest Power Act. Section 7(b)(2)(E) requires that the Administrator assume that:

the quantifiable monetary savings, during such five-year period, to public body, cooperative and Federal agency customers resulting from reduced public body and cooperative financing costs as applied to the total amount of resources, other than Federal Base System resources, identified under subparagraph (D) of this paragraph, and reserve benefits as a result of the Administrator's actions under this chapter were not achieved.

Section 7(b)(2)(D) specifies the assumptions to be made to meet public body, cooperative, and Federal agency customer (7(b)(2) Customers) loads. After meeting contractual obligations with Federal Base System ("FBS") resources, additional resources can be added to meet loads of the 7(b)(2) Customers. These additional resources can include actual and planned resources acquired from 7(b)(2) Customers, including conservation programs undertaken or acquired by BPA; existing 7(b)(2) Customer resources not dedicated to regional loads; and generic resources acquired from non-7(b)(2) Customers.

The quantifiable monetary savings associated with the "reserve benefits" described in Section 7(b)(2)(E)(ii) relate to reserves that could be made available to BPA by the nature of BPA's

contracts with its customers. In the WP-10 Initial Proposal, Power Services is assuming a small amount of DSI load (estimated in the range of 380-400aMW), with firm power deliveries sold at the Industrial Firm Power (IP) rate determined in the rate case. Power Services has informed PFM that it is hopeful that it will be able to negotiate contract amendments that will allow it to sell firm power to DSI loads for FY 2010-2011. Although prior DSI contracts have provided the Federal Columbia River Power System (FCRPS) with reserves through BPA's ability to restrict or interrupt portions of DSI loads, Power Services informs us that the DSI contracts' provisions to restrict or interrupt the load is uncertain. The Initial Proposal assumes a value on this interruptibility of \$0.01/MWh. As in prior rate cases where BPA has served DSI loads with firm power in the Program Case, DSI loads are assumed to be served by utilities in the Northwest instead of BPA in the 7(b)(2) Case. The 7(b)(2) rate test requires the assumption that these utilities would have had to provide their own reserve resources, and that the utilities would finance reserve resources without BPA participation. In prior rate cases, BPA's analysis of the restriction rights value for the 7(b)(2) rate test has contained the assumption that financing costs associated with such reserves would be different if they were acquired by regional utilities. However, because the rights to restrict or interrupt this load is uncertain and because the Initial Proposal assumes the value associated with these rights to be insignificant to the 7(b)(2) rate test, the 7(b)(2) rate test financing cost study will not include resource acquisitions by the Joint Operating Agency (JOA) for the replacement of supplemental reserves provided by the DSIs.

This report provides our conclusions concerning estimated financing costs for BPA's public body, cooperative, and Federal agency customers to be used in the 7(b)(2) rate test described in the Northwest Power Act. The conclusions presented in this report represent our opinions as financial advisors familiar with the municipal and governmental utility credit markets and with bond issues for both public power agencies and IOUs in the Pacific Northwest. Given the assumptions noted in this report, our conclusions represent a probable situation, had the hypothetical situation described in the Northwest Power Act occurred.

## **SECTION 3**

### **EXECUTIVE SUMMARY**

This report derives and provides estimates of the interest rates and differentials associated with financing for the different classes of resources identified in Section 7(b)(2) of the Northwest Power Act. Prior 7(b)(2) rate tests have utilized both actual historical interest rates and projected future interest rate assumptions for several financing structures. Historical interest rate assumptions have been applied to the financing of prior expenditures for "Named Resources," conservation resources,

and other forms of generating resources. Projected future interest rate assumptions have been applied to the financing of prospective expenditures for potential conservation and generating resources. This report also derives and provides estimates of interest rates and differentials associated with the different classes of resources in the Program Case. In the case of certain Named Resources, actual historical financing costs were utilized. Table A contains a summary of historical and projected interest rate assumptions for various resource categories. It is important to note that Table A has been developed from the format provided in prior 7(b)(2) rate study analyses. The prior studies sought to provide historical and prospective interest rates for long-term, fixed-rate financings. As such, the rates provided in the prior studies were for level debt service financing structures with an assumed final maturity of roughly 30 years. In order to estimate the average interest rate for a 30-year financing, prior studies used various interest rate measures for bonds having a term of 25 years. We concur that the selection of interest rate indices having a 25-year term represents a reasonable estimate of the financing costs for 30-year, level debt service borrowings.

In Table A, we have again provided interest rate assumptions based on indices and market data for 25-year maturities, along with assumptions for 5-year, 10-year, 15-year, and 20-year maturities to finance conservation investments. (See Tables C through G in this report.)

The Program Case Interest Rates and 7(b)(2) Case Interest Rates shown in Table A below are derived from historical borrowing cost and interest rate information compiled for the purposes of the Section 7(b)(2) rate test. The historical interest rate differentials have been used as a reasonable basis for establishing assumptions for projected interest rate differentials for borrowing costs for the WP-10 rate period. It is important to note that the interest rate assumptions in Table A for Projected Conservation and Projected Generation expenditures are derived from historical interest rate averages over the past three years. Prior to the WP-07 Supplemental Section 7(b)(2) Rate Test Study, the interest rate assumptions were developed by averaging data over a 10-year period preceding the relevant Section 7(b)(2) Rate Test Study.

Current credit market conditions exhibit a degree of volatility and uncertainty that has not been experienced in several decades. This period began over a year ago, and there is no consensus as to how long it will last or how severe it will be. One clear impact of the current market environment is that interest rate differentials between various credit ratings are more pronounced than they have been in many decades. Until September 2008, the impact of recent credit market volatility had not been as pronounced in the governmental utility market sector examined by this report, as compared

**TABLE A – Summary of Historical and Projected Interest Rate Assumptions**

| Resource  | Program Case<br>Interest Rate<br>With BPA Backing | 7(b)(2) Case<br>Interest Rate<br>Without BPA Backing | Interest Rate<br>Differential<br>Basis Points |
|---|---|--|---|
| <b>Historical Named Resources</b>                     |   |  |   |
| Idaho Falls   | Not Applicable                                    | Not Applicable                                       | Not Applicable                                |
| Cowlitz Falls (25Yr)                                  | 4.20% Actual <sup>(1)</sup>                       | 4.25%  | 5   |
| <b>Projected Conservation – see notes (2) and (3)</b> |   |  |   |
| BPA Sponsored (25 Yr)<br>Table C, page 14             | 4.56%   | 4.78%  | 22  |
| BPA Sponsored (20 Yr)<br>Table D, page 15             | 4.51%   | 4.73%  | 22  |
| BPA Sponsored (15 Yr)<br>Table E, page 15             | 4.37%   | 4.57%  | 20  |
| BPA Sponsored (10 Yr)<br>Table F, page 15             | 4.03%   | 4.24%  | 21  |
| BPA Sponsored (5 Yr)<br>Table G, page 15              | 3.58%   | 3.79%  | 21  |
| <b>Projected Generation</b>                           |   |  |   |
| Public (25 Yr)<br>Table C, page 14                    | 4.56%   | 4.78%  | 22  |
| Non-7(b)(2) (25 Yr)<br>Table H, page 18               | 5.96%   | 4.78%  | -118  |

(1) Actual True Interest Cost of refunding issue sold August 24, 2003.

(2) The interest rates provided for various Projected Conservation investments are assumed for either BPA or JOA borrowings having the maturities so listed. In the WP-10 Section 7(b)(2) Rate Test Study, BPA assumes that conservation capitalized measures related to fiscal years 2001 through 2015 would be amortized and financed by a JOA over a period of 15 years. Conservation first-year expensed costs would be deferred and amortized and financed over a 1 to 15-year time period. During FYs 2006-2008, BPA issued \$50 million in conservation bonds with 3 to 5 year terms. The weighted average term was 3.4 years, with a weighted average interest rate of 4.90%.

(3) During the 2010 Power Rate Case study period FY 2010 – FY 2015, BPA projects that it will borrow \$262 million for conservation investments using 5-year maturities with a weighted average interest rate of 5.35%. The bonds will be issued through the U.S. Treasury so they are not comparable to the tax exempt rates included in the table.

to lesser credit ratings. However, these market sectors – mid-to-high investment grade, tax-exempt, municipal utility bonds – have recently seen pronounced interest rate spread differentials between credit rating categories. In September and October of 2008, there were several weeks when the global credit markets, including the municipal bond market, were essentially closed to borrowers. Since that time, investment grade governmental utilities have had access to the market, albeit at interest rates and credit spreads that approach the highest levels in roughly 20 years. The new and



evolving nature of these market conditions presents a considerable challenge to the task of developing reasonable estimates to be used in the WP-10 rate case.

Given that:

- 1 - an important product of this report is the assumed interest rate differential between the Program Case Interest Rates and the 7(b)(2) Case Interest Rates,
- 2 – the interest rate differential between the two Cases is derived entirely by exploring historical interest rate data for various credit rating categories, and
- 3 – that current, and perhaps future market conditions are markedly different from conditions over the past ten years,

PFM is of the opinion that it would be inappropriate to develop assumptions for the upcoming six-year section 7(b)(2) rate test period by utilizing the past practice of averaging data from the prior 10-year period. Therefore, PFM recommends revising the prior practice of using the most recent 10 years of interest rate data and instead utilizing the most recent three years of data as a reasonable assumption for the purpose of the current rate test study. While future market conditions remain uncertain, PFM is of the opinion that utilizing the recent three-year period will reflect the likelihood that some degree of market disruption is likely to persist for at least a portion of the period covered by the current rate test study, and that the six-year nature of the rate test period leaves a considerable amount of time for the markets to return to some sense of normalcy.

As in prior rate test studies, a general observation from the data provided in Table A is that, for most financing categories, the 7(b)(2) Case interest rates are higher than those assumed in the Program Case. When there is a positive number in the “Interest Rate Differential” column, it represents that amount by which the 7(b)(2) Case interest rate is higher (or more costly) than the rate in the Program Case.

The interest rate averages listed above in Table A would serve as the assumed interest rates for the Program Case and 7(b)(2) Case for the prospective maturity terms outlined.

## **SECTION 4**

### **ASSUMPTIONS**

In developing our interest rate assumptions, we have used the types of financing that most likely would be, or could have been, used at the time of funding the hypothetical resources acquired

according to the terms of the 7(b)(2) rate test. We have relied upon common and accepted legal and financing structures for the hypothetical public financing entity that the 7(b)(2) Customers are assumed to have formed. Similarly, discrete borrowings undertaken by 7(b)(2) Customers and non-7(b)(2) Customers would be assumed to be financed using customary public financing methods for long-term, fixed-rate financing. Such assumptions as to legal and financing structure represent, in our opinion, the most prevalent means for financing large-scale resource acquisition programs similar to what BPA or its customers could have undertaken or would utilize in the future.

As noted above, the Northwest Power Act requires that an estimate be provided of the financing costs to customers in the 7(b)(2) Case, because the customers themselves would have to finance the acquisition of additional resources needed to meet their firm loads after BPA's FBS resources are exhausted. An assumption has been made in prior 7(b)(2) financing cost studies, with which we concur, that the 7(b)(2) Customers would have formed a Joint Operating Agency ("JOA") where the financing would have been the responsibility of the participant agencies in the financing. This would have been a similar, but not identical, legal structure to Energy Northwest and other JOAs such that underlying legal obligations would have been clearly enforceable.

The member agencies of the assumed JOA are listed in Attachment A along with their respective shares and credit ratings. All of the member agencies are assumed to have signed "take-or-pay agreements," such that each would pay for its proportionate share of the debt service on the financing regardless of whether or not the project produced the expected levels of output. In the event that one participant failed to pay its share of debt service, each remaining participant would be responsible for an increased level of debt service of up to 125 percent of the member agency's original commitment. Based on such a typical JOA financing structure, and in concurrence with the assumptions contained in prior 7(b)(2) financing cost studies, we have assumed that a financing by a JOA consisting of the assumed member agencies would have received and been able to maintain a rating in the "A" category from both Moody's and S&P, two well-regarded bond rating agencies. In the case of the JOA or 7(b)(2) Customer issuing revenue bonds with the advantage of a BPA "take-or-pay" or "capability" power sales contract, we have assumed that the financing would have received and maintained a rating in the "Aa/AA" category from both Moody's and S&P. BPA's current ratings are Aaa from Moody's and AA- from S&P. In PFM's opinion, the "Aa/AA" rating category represents a ratings category that contains the midrange of the divergent Moody's and S&P ratings. We utilize this assumption because there are interest rate databases for various rating categories, but there are no

databases for “split” ratings in those cases where there is a difference between the Moody’s and S&P rating categories.

In estimating the financing costs for specific Named Resources, such as the Cowlitz Falls Project, we have assumed a rating based upon the particular sponsor’s credit rating. Therefore, the ability of the Public Utility District No. 1 of Lewis County (Lewis County PUD), for example, to service its own load with the resource is also assumed in order to meet requirements for investment grade ratings from both Moody’s and S&P. Similarly, we have estimated financing costs for other anticipated conservation and generation resource providers, assuming that suitable uses for the resource output were available.

## **SECTION 5**

### **ASSUMPTIONS CONCERNING RESOURCE ACQUISITIONS**

In previous rate cases, BPA has assumed the JOA would have undertaken two phases of resource acquisition. The first phase assumed the acquisition of peaking resources to replace the reserve benefits provided by the DSI load that are not provided in the 7(b)(2) Case. As outlined in the introduction, the amount and value of interruption or restriction rights for DSI loads during the rate test period are assumed to be very limited. A small amount of Supplemental Reserve purchases are included in the 7(b)(2) Case through market purchases. Therefore, the current 7(b)(2) study will not include resource acquisitions by the JOA for the replacement of supplemental reserves provided by the DSIs.

The second phase of resource acquisition program assumes the acquisition of individual projects involving conservation resource and generation resource programs sponsored by 7(b)(2) Customers as well as a variety of other sponsors. In prior years, BPA has acquired resources through its Competitive Resource Acquisition Program, unsolicited proposals, and BPA Billing Credit programs. In recent years, BPA has acquired wind and solar renewable resources along with small hydro and waste heat recovery resources through direct acquisitions.

The City of Idaho Falls and BPA entered into a replacement Power Purchase Agreement dated September 5, 2006, for the purchase of all power and energy produced from four hydroelectric generating plants operated by the City of Idaho Falls (the Idaho Falls Project). Lewis County PUD entered into a Power Purchase Agreement dated May 23, 1991, with BPA for the output of the Cowlitz Falls Hydroelectric Project (the Cowlitz Falls Project). BPA has solicited for resources through the

BPA Billing Credits Policy is contained in section 6(h) of the Northwest Power Act and the Competitive Resource Acquisition Program, which includes the Resource Contingency Program. Under the BPA Billing Credits Policy, BPA has contracted for the output of four projects consisting of South Fork Tolt, Wynecchee, Short Mountain Landfill, and Smith Creek. The total output of these four projects is approximately 20.0 aMW. Under the terms of the BPA Billing Credits Policy, BPA's obligation to purchase the output is subject to the availability of the resource and, therefore, we do not believe the existence of the BPA power purchase agreement to be material to the credit rating of the financing associated with these particular resources.

In general, the hypothetical financing agency consisting of the 7(b)(2) Customers would apportion the risks of resource acquisition due to non-completion, technical difficulties, or other factors among the member agencies in proportion to their ownership shares. Similarly, individual resource sponsors are assumed to accept such risks without allocation to third parties. Thus, the risks of non-completion or technical difficulties are not assumed to be factors that would impact the financing costs of particular resources.

We have assumed that all financings will utilize traditional fixed-rate debt with a level debt service structure. The revenue bonds or project financings issued by, or entered into by, 7(b)(2) Customers, non-7(b)(2) Customers, or other entities would have comparable features.

Financing of the Cowlitz Falls Project and the Idaho Falls Project is assumed to have occurred at the time when the sponsors of each of the projects issued revenue bonds to provide for the capital costs of each respective resource. Resources to be acquired from non-7(b)(2) Customers are assumed to be acquired on a project finance basis. In the Program Case, BPA would contract to purchase power output. In the 7(b)(2) Case, BPA would contract with the JOA.

In addition, it is assumed that all financings by 7(b)(2) Customers are structured to take full advantage of tax-exempt financing, subject to the provisions of applicable tax law. Also, we would note that Section 9(f) of the Northwest Power Act requires certain certifications by the Administrator prior to the acquisition of resources, which must be met in order that the exemption from gross income in section 103(a)(l) of the Internal Revenue Code of 1986 be achieved. As a result, the assumption is made for purposes of the resource acquisitions contemplated with BPA that the tax-exemption for financings will not be adversely affected and that BPA will be able to provide the certifications required under the Northwest Power Act.

We would also note that the assumed credit ratings on revenue bonds involving an obligation of BPA have remained stable in recent years. Uncertain water conditions, the financial requirements of BPA's resource acquisition programs, fish and wildlife issues, and other items are significant issues affecting the PNW and BPA's credit ratings. However, for the purposes of the 7(b)(2) rate test, no change in credit ratings is projected for BPA or the 7(b)(2) Customers as it pertains to the financing feasibility of particular resources financed with debt issued in the public credit markets.

## **SECTION 6**

### **IDAHO FALLS PROJECT**

On April 1, 1982, the City of Idaho Falls, Idaho, executed a Power Purchase Agreement whereby BPA agreed to a long-term purchase of the output of four hydroelectric generating plants to be constructed in the service territory of the City of Idaho Falls. The City of Idaho Falls provided for the capital costs of constructing the four hydroelectric generating plants with the proceeds of revenue bonds issued in 1981. These bonds were subsequently refinanced on multiple occasions. On September 5, 2006, the City of Idaho Falls and BPA executed a new five-year Power Purchase Agreement for the period October 1, 2006, through September 30, 2011.. This agreement states that it is the intent of the parties to negotiate a successor contract prior to the expiration of the current contract. Because the revenues of the City's Electric System (as defined) secure the City of Idaho Falls revenue bonds issued to finance the Project, we do not believe the existence of the BPA Power Purchase Agreement to be material to the credit rating of these bonds. Therefore, the cost of the Idaho Falls Project resource would not change as a result of the financing assumptions required by the 7(b)(2) rate case.

## **SECTION 7**

### **COWLITZ FALLS PROJECT**

On May 23, 1991, Lewis County PUD entered into an Amendatory Contract for Power Purchase (the Contract) whereby BPA agreed to enter into a long-term purchase of the output of a hydroelectric generating plant known as the Cowlitz Falls Project. BPA and Lewis County PUD agreed that Lewis County PUD would finance construction of the Cowlitz Falls Project through the issuance of revenue bonds, with BPA agreeing to pay to or on behalf of Lewis County PUD amounts equal to Project Power Costs (as defined) including Annual Debt Service (as defined) on such revenue bonds for the life of the Contract. On August 27, 1991, Lewis County PUD issued \$171,095,000 in Public Utility District No.1 of Lewis County, Washington, Cowlitz Falls Hydroelectric Project Revenue Bonds, Series 1991. The bonds were rated Aa/AA with annual debt service payments of approximately \$13,465,000

and a final maturity of October 1, 2024. The callable bonds of this series were again refunded on August 23, 1993. The remaining 1991 bonds and the callable bonds issued in 1993 were refunded again on June 19, 2003.

Under the terms of the Contract, the primary source of security for the bonds is revenue received from BPA pursuant to the Contract and a Payment Agreement. Under the Contract, BPA is obligated to pay all project costs, including debt service, whether or not the project is completed or power is delivered. If BPA does not make payment under the Contract, it is obligated to pay debt service under the Payment Agreement directly to the bond trustee. Debt Service on the bonds, along with the payment of operating and maintenance (O&M) expenses of the project, have priority over payments of BPA's Treasury debt and repayment of the Federal investment in the Columbia River Power System.

Because the revenues from the Contract and the Payment Agreement secure Lewis County PUD's revenue bonds issued to finance the Project, we believe that the Contract and Payment Agreement are the primary support for the current credit ratings. BPA retains the "dry hole risk" for the Project and is obligated to pay debt service on the Bonds for their full term whether the Project is operating or not. For the purposes of the 7(b)(2) rate test, Lewis County PUD is assumed to accept the "dry hole risk" and that the Cowlitz Falls Project output would be dedicated to serving Lewis County PUD's own load.

The original bonds were priced on Tuesday, August 27, 1991, with a True Interest Cost of 7.10 percent. The refunding Bonds priced on Tuesday, August 23, 1993, had a True Interest Cost of 5.61 percent. The refunding Bonds priced on June 19, 2003, had a True Interest Cost of 4.20 percent. Of the \$146,210,000 of bonds sold in 2003, \$135,930,000 was guaranteed by municipal bond insurance companies and rated AAA. The uninsured bonds maturing in years 2005 through 2007 were rated Aa2/AA-. As stated earlier, we believe that a bond issued on behalf of the 7(b)(2) Customers would have carried a rating in the A category. During the months preceding the Lewis County sale, there were several bond issues sold for A-rated electric utilities. However, in most every case, these bonds were also guaranteed by a municipal bond insurance policy and rated AAA. Interest rates on these insured bonds were comparable to those of the Lewis County bonds. In our opinion, the net financing cost differential between AA- and A-rated bonds that were both backed by AAA-rated insurance policies would have been a function of the price charged by the insurance companies. In the case of the Lewis County bonds, one insurance policy for a portion of the bonds was priced at 0.33 percent of the total amount of insured debt service. The other policy, applied to a

different grouping of bonds, was priced at 0.475 percent of insured debt service. The amount of these premiums is taken into account in the calculation of the 4.20 percent True Interest Cost on the bonds. In our opinion, at the time the Lewis County bonds sold, an approximate market insurance premium for an A-rated issuer would have been approximately 0.75 percent of insured debt service. A recalculation of the Lewis County True Interest Cost with the 0.75 percent assumed insurance premium produces a rate of 4.25 percent. In our opinion, we believe that the borrowing advantage to the 7(b)(2) Customers from the BPA backing is approximately equal to the 5 basis point differential between the two True Interest Costs.

## **SECTION 8**

### **JOA BORROWING COSTS**

For purposes of establishing assumptions for JOA borrowing costs, it is appropriate to utilize a historical interest rate methodology, as was the case with 7(b)(2) financing cost studies conducted prior to the WP-07 and WP-07 Supplemental Power rate cases. For pre-WP-07 financing cost studies, 7(b)(2) historical assumptions were based upon an analysis of actual bond issues for selected public power agencies for the period from January 1, 1982, to March 8, 1999.

The 2002 Section 7(b)(2) Rate Test Study recognized: (1) the diminishing data set of A-rated public power bonds due to the increasing use of AAA bond insurance, and (2) the existence of useful market indices such as the Bloomberg Capital Markets fair value yield curves. The Bloomberg Capital Markets calculates daily indexes for several rating categories and maturity ranges for power revenue bonds. The information appears to be generally consistent with information included from prior years, based upon the actual issuance of power revenue bonds by different rated issuers. The Bloomberg yield curves provide data for electric revenue bonds of several credit rating categories, including bonds rated A-, A+, AA-, and AA+. In order to estimate rates for bonds in the A and AA rated categories, we calculated the average of published rates for the A- and A+ categories for the A-rated data, and took the average of published rates for the AA- and AA+ categories for the AA rated data. Interest rate estimates are for financings with level debt service and a 30-year final maturity. The Bloomberg rates for 25-year maturities were used as the best estimates of financing costs for this financing structure.

These averages for FY 2004 and prior fiscal years are found in Table B. Table B provides the following information:

- (1) the annual average of the Revenue Bond Index,
- (2) the calculated hypothetical AA rated (and thus BPA-backed) average financing cost,
- (3) the calculated hypothetical A rated (and thus JOA-backed) average financing cost, and
- (4) the interest rate differential between (3) and (4) above for fiscal years prior to 2004.

For more recent years' interest rate assumptions, and for the WP-10 Initial Proposal for FY 2010-2011, we suggest utilizing a similar methodology for establishing the estimated rates for A and AA rated electric revenue bonds. We again used the database of Bloomberg interest rates for AA rated and A rated 25-year tax-exempt electric revenue bonds as the best proxies for BPA and JOA borrowing costs. However, PFM suggests a departure from the prior practice of developing the assumptions for financing costs that utilized historical interest rates over the most recent 10 years in the 2007 Power Rate Case and prior studies. As discussed on pages 5 and 6 of this report, volatility in the credit markets calls for a change in how PFM would develop reasonable assumptions to be used in the WP-10 7(b)(2) Case. As was the case with our Final Financing Study for the WP-07 Supplemental Final Proposal, PFM recommends revising the prior practice of using the most recent 10 years of interest rate data, and instead utilizing the most recent 3 years of data as a reasonable assumption for the purpose of the financing analysis for the Section 7(b)(2) Rate Test Study. While future market conditions remain uncertain, PFM is of the opinion that utilizing the recent 3-year period will reflect the likelihood that some degree of market disruption is likely to persist for at least a portion of the period covered by the current rate test study. For this reason, we have based our future interest rate assumptions for each of the various financing structures on the data from October 15, 2005, and forward.

For the current financing cost study, we have been advised by BPA personnel that the financing terms for conservation investments would be for a 15-year term for the capitalized portion of each year's investment. The first-year expensed conservation costs will be treated as deferred charges (SFAS #71) and financed over a 1- to 15-year time period as determined during the course of the rate case. Tables D, E, F, and G below provide various historical and projected interest rate assumptions for borrowings with final maturities of 20, 15, 10, and 5 years.



**TABLE B - Historical Interest Rate Assumptions From Prior 7(b)(2) Rate Studies**

| FY End 9/30 | Revenue Bond Index | BPA Rate | JOA Rate | Difference |
|-------------|--------------------|----------|----------|------------|
| 1982        | 13.25%             | 12.65%   | 13.31%   | 0.66%      |
| 1983        | 10.13%             | 9.86%    | 10.47%   | 0.61%      |
| 1984        | 10.43%             | 10.69%   | 10.74%   | 0.05%      |
| 1985        | 9.90%              | 10.35%   | 10.10%   | -0.25%     |
| 1986        | 8.26%              | 8.49%    | 8.42%    | -0.07%     |
| 1987        | 7.68%              | 7.77%    | 7.68%    | -0.09%     |
| 1988        | 8.40%              | 8.50%    | 8.48%    | -0.02%     |
| 1989        | 7.17%              | 7.01%    | 7.13%    | 0.12%      |
| 1990        | 7.51%              | 7.62%    | 7.49%    | -0.13%     |
| 1991        | 7.20%              | 6.96%    | 7.02%    | 0.06%      |
| 1992        | 6.69%              | 6.33%    | 6.35%    | 0.02%      |
| 1993        | 6.06%              | 5.73%    | 5.81%    | 0.08%      |
| 1994        | 6.08%              | 5.63%    | 5.98%    | 0.35%      |
| 1995        | 6.57%              | 6.34%    | 6.51%    | 0.17%      |
| 1996        | 6.01%              | 5.80%    | 5.96%    | 0.16%      |
| 1997        | 5.87%              | 5.61%    | 5.76%    | 0.15%      |
| 1998        | 5.41%              | 5.15%    | 5.31%    | 0.16%      |
| 1999        | 5.41%              | 5.14%    | 5.24%    | 0.10%      |
| 2000        | 6.07%              | 5.82%    | 5.92%    | 0.10%      |
| 2001        | 5.53%              | 5.26%    | 5.42%    | 0.16%      |
| 2002        | 5.42%              | 5.10%    | 5.34%    | 0.24%      |
| 2003        | 5.15%              | 4.89%    | 5.19%    | 0.30%      |
| 2004        | 5.13%              | 4.87%    | 5.10%    | 0.23%      |

Based on the Bloomberg Fair Market yield curves over the past three years, the average AA-rated, 25-year electric revenue bond yield was 4.56 percent. This figure represents a 22 basis point advantage relative to the 4.78 percent average for the A-rated average for the comparable period. Table C provides these figures for the past three fiscal years.

**TABLE C – Recent Average AA and A Rated, 25-Year Electric Revenue Bonds**

| Year End 10/15 | Program Case<br>AA Bloomberg<br>BPA Rate | 7(b)(2) Case<br>A Bloomberg<br>JOA Rate | Difference |
|----------------|--|---|------------|
| 2006           | 4.51%                                    | 4.69%                                   | 0.18%      |
| 2007           | 4.41%                                    | 4.61%                                   | 0.20%      |
| 2008           | 4.75%                                    | 5.04%                                   | 0.29%      |
| Averages       | 4.56%                                    | 4.78%                                   | 0.22%      |

**TABLE D – 20-Year Term Structure Interest Rate Assumptions**

| Year End 10/15 | Program Case<br>'AA' Bloomberg<br>BPA Rate | 7(b)(2) Case<br>'A' Bloomberg<br>JOA Rate | Difference |
|----------------|--|---|------------|
| 2006           | 4.45%                                      | 4.65%                                     | 0.20%      |
| 2007           | 4.40%                                      | 4.60%                                     | 0.20%      |
| 2008           | 4.68%                                      | 4.94%                                     | 0.26%      |
| Averages       | 4.51%                                      | 4.73%                                     | 0.22%      |

**TABLE E – 15-Year Term Structure Interest Rate Assumptions**

| Year End 10/15 | Program Case<br>'AA' Bloomberg<br>BPA Rate | 7(b)(2) Case<br>'A' Bloomberg<br>JOA Rate | Difference |
|----------------|--|---|------------|
| 2006           | 4.31%                                      | 4.50%                                     | 0.19%      |
| 2007           | 4.33%                                      | 4.50%                                     | 0.17%      |
| 2008           | 4.47%                                      | 4.72%                                     | 0.25%      |
| Averages       | 4.37%                                      | 4.57%                                     | 0.20%      |

**TABLE F – 10-Year Term Structure Interest Rate Assumptions**

| Year End 10/15 | Program Case<br>'AA' Bloomberg<br>BPA Rate | 7(b)(2) Case<br>'A' Bloomberg<br>JOA Rate | Difference |
|----------------|--|---|------------|
| 2006           | 4.07%                                      | 4.23%                                     | 0.16%      |
| 2007           | 4.03%                                      | 4.23%                                     | 0.20%      |
| 2008           | 3.98%                                      | 4.26%                                     | 0.28%      |
| Averages       | 4.03%                                      | 4.24%                                     | 0.21%      |

**TABLE G – 5-Year Term Structure Interest Rate Assumptions**

| Year End 10/15 | Program Case<br>BPA Rate - /1 | 7(b)(2) Case<br>A Bloomberg<br>JOA Rate | Difference |
|----------------|-------------------------------|---|------------|
| 2006           | 3.72%                         | 3.88%                                   | 0.16%      |
| 2007           | 3.77%                         | 3.98%                                   | 0.21%      |
| 2008           | 3.24%                         | 3.52%                                   | 0.28%      |
| Averages       | 3.58%                         | 3.79%                                   | 0.21%      |

Note 1 - During the WP-10 rate test period, FY 2010-FY 2015, BPA projects that it will borrow \$262 million for conservation investments using five-year maturities with a weighted average interest rate of 5.35%. The bonds will be issued through the U.S. Treasury, so they are not comparable to the tax exempt rates included in the table.

The period averages listed above would serve as the assumed interest rates for the WP-10 7(b)(2) rate test prospective 20, 15, 10, and 5-year financings. To determine the rates for bonds issued with maturities between 5 and 10 years, it would be reasonable to interpolate the rates between the 5- and 10-year maturities. For example the rate for 6-year maturities would represent the 5-year maturity plus 1/5<sup>th</sup> of the difference between 5 and 10-year maturities.

In our opinion, the above-assumed projected borrowing rates are reasonable estimates for borrowing costs of municipal issuers during the 2010-2015 time period. Many factors influence the movement of tax-exempt interest rates and the relationships between borrowing rates for differently rated securities. Among these factors are the timing of particular financings, the absolute levels of interest rates, the perceived credit quality of particular issuers, and the overall supply and demand for tax-exempt and taxable securities. If any of these factors were to change over time, then historical interest rate spread relationships could increase or decrease, which would change the assumed borrowing interest rate differentials calculated above.

## **SECTION 9**

### **NON-7(b)(2) CUSTOMER BORROWING COSTS**

Private developers, industrial companies, utility subsidiaries, and governmental and quasi-governmental entities all represent viable sponsors for developing power projects whose output could be made available to BPA. Financing vehicles available to project sponsors will be either recourse, where the sponsor's balance sheet is relied upon for credit support, or non-recourse. In a non-recourse project financing, the strength of the project, not the strength of the sponsor, provides the support for the debt. Project financings would derive considerable financing benefits from inclusion of a BPA power purchase contract.

For the purposes of this analysis, it is assumed that BPA would enter into an all-encompassing power purchase agreement, whereby BPA would be obligated to pay an amount sufficient to cover a project's fixed and variable costs. As a result, the project's financing should be indifferent to the level of electricity actually purchased. Other factors, including power delivery requirements, security deposits, performance criteria, regulatory out provisions, milestone criteria, force majeure events, security interests, events of default, and remedies upon default, are presumed to be resolved in a fashion that enables a project to be financed upon standard commercial terms.

Project sponsors that are private entities may or may not be able to qualify for tax-exempt financing for a particular project and generally may do so only where a facility qualifies as an "exempt facility," such as a waste to energy facility. Projects financed with tax-exempt financing would likely occur at interest rates comparable to those for the hypothetical JOA discussed in Section 8. Projects financed with private sources of capital would likely be financed with high leverage, which is usually 75 or 80 percent but can be as much as 100 percent, which allows for a minimization of equity investment by the project sponsor. We assume that a project financing with a BPA contract would provide the means for securing debt financing at pricing that would be at the upper end of the quality range for similar projects. The perceived credit quality of the BPA contract obligation among potential financing sources would increase financing options for a given project.

Pre-2007 7(b)(2) rate test studies assumed that private debt financing for a project with a BPA contract could have been arranged at 50 basis points over the lender's cost of funds, which was assumed to have been the six-month's London Interbank Offered Rate (LIBOR), with 100 percent financing of project costs. These pre-2007 financing studies then adjusted for the possible effects of entering into interest rate swaps or conversion agreements, which could have the effect of fixing the interest rates on all or a portion of a financing for a period of time or the remaining term to maturity for the transaction. In order to adjust the variable LIBOR interest rates to an estimated fixed interest rate for comparison purposes, prior financing studies assumed a 50 basis point addition to the LIBOR-based interest rates to represent the amortized cost of an interest-rate swap.

Once again, the greater amounts of historical data and proliferation of market indices allowed us to refine the methodology from that used in the pre-2007 rate test studies. For more recent years' interest rate assumptions, and for the WP-10 Initial Proposal, we suggest utilizing the Bloomberg database of interest rates for AA rated, 25-year taxable utility bonds as the best proxy for potential non-7(b)(2) project financing costs. As previously described, we have based our future interest rate assumptions for each of the various financing structures on the recent three-year data set from October 15, 2005, to October 15, 2008. Table H below provides the past three years' averages for the Bloomberg AA rated, 25-year utility bonds as compared to the JOA financing costs assumed for the same periods. Again, the JOA financing cost assumptions are those provided in Section 8.

**TABLE H - Recent Average Bloomberg AA and A Rated, 25-Year Electric Revenue Bonds**

| Year End 10/15 | AA Bloomberg<br>Taxable Utility<br>Non 7(b)(2) Rate | A Bloomberg<br>Tax-Exempt Bond<br>JOA Rate | Difference |
|----------------|---|--|------------|
| 2006           | 5.89%   | 4.69%                                      | -1.20%     |
| 2007           | 5.83%   | 4.61%                                      | -1.22%     |
| 2008           | 6.16%   | 5.04%                                      | -1.12%     |
| Averages       | 5.96%   | 4.78%                                      | -1.18%     |

In our opinion, the above-assumed borrowing rates are reasonable estimates based upon the actual borrowing costs of taxable and tax-exempt borrowers during the indicated time periods. Many factors influence the movement of interest rates and the relationships between borrowing rates for differently rated securities. Among these factors are the timing of particular financings, the absolute levels of interest rates, the perceived credit quality of particular issuers, and the overall supply and demand for tax-exempt and taxable securities. If any of these factors were to change over time, then historical interest rate spread relationships could increase or decrease, which would change the assumed borrowing interest rate differentials calculated above.

## ATTACHMENT A

### PARTICIPATION IN HYPOTHETICAL PUBLIC FINANCING ENTITY (JOA)

| <u>PARTICIPANTS</u>   | <u>AVERAGE FINANCIAL<br/>RATING<sup>1</sup></u> | <u>% SHARE<sup>2</sup></u> |
|---|---|----------------------------|
| <u>Generators:</u>  |   |                            |
| Eugene Water and Electric Board                                     | A   | 3.41%                      |
| Seattle   | A   | 12.12                      |
| Tacoma  | A   | 6.24                       |
| PUD #1 of Chelan County   | AA  | 4.12                       |
| PUD #1 of Clark   | A   | 5.58                       |
| PUD #1 of Cowlitz County  | A   | 6.45                       |
| PUD #1 of Douglas County  | AA  | 0.78                       |
| PUD # 2 of Grant County   | AA  | 5.92                       |
| PUD #1 of Pend Oreille County                                       | BBB   | 1.20                       |
| PUD #1 of Snohomish County  | AA  | 8.48                       |
| <b>SUBTOTAL – GENERATORS (10)</b>                                   | <b>A</b>  | <b>54.29%</b>              |
| <u>Non-Generators:</u>  |   |                            |
| Central Lincoln County PUD  | A   | 1.61                       |
| Clallam County PUD #1   | A   | 1.03                       |
| Clatskanie PUD  | BBB   | 1.30                       |
| Flathead Electric Coop  | NR  | 1.92                       |
| Franklin PUD  | A   | 1.18                       |
| Inland Power & Light  | NR  | 1.12                       |
| City of McMinnville   | A   | 1.11                       |
| City of Richland  | A   | 1.03                       |
| Springfield   | A   | 1.05                       |
| Umatilla Electric Cooperative Association                           | NR  | 1.25                       |
| Wells Rural Electric Cooperative                                    | NR  | 1.06                       |
| PUD #1 of Benton County   | A   | 2.06                       |
| PUD #1 OF Grays Harbor County                                       | A   | 1.45                       |
| PUD #1 of Lewis County  | A   | 1.53%                      |
| <b>SUBTOTAL – NONGENERATORS WITH<br/>GREATER THAN 1% SHARE (14)</b> | <b>A</b>  | <b>18.70%</b>              |
| <b>SUBTOTAL – REMAINING NONGENERATORS (113)</b>                     | <b>NA</b>                                       | <b>27.01%</b>              |
| <b>TOTAL (117)</b>  | <b>A</b>  | <b>100.00%</b>             |

Note 1 – Rating represents the average of the latest reports issued by Standard and Poor's, Moody's, and Fitch rating agencies as of November 2008. The average rating is calculated by assigning a score, 1 to 10, with 1 being a 'AAA' and 10 being a 'BBB-', to the top ten rating categories for each agency and then taking the average score for each issuer. The average score was then assigned a rating of either 'AAA', 'AA', 'A', or 'BBB' based on the range with which it fell. NR designation stands for "not rated."

Note 2 – Percentage shares of participation in the JOA are based on the projected utility Total Retail Loads in relation to total regional Consumer Owned Utility loads.

## **APPENDIX B**

### **Section 7(b)(2) Section 7(b)(2) Rate Test Study and Documentation**

**Rates Analysis Model - Resource Stack**

**GDP Inflator / Deflator Tables**

**Accounting / Financing Treatment of Expensed Conservation  
Analysis and Documentation**

**WP-10 Initial Rate Proposal**

**WP-10-E-BPA-06**

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**WP-10 Wholesale Power Rate Case**  
**Section 7(b)(2) Resource Stack**  
**Accounting / Financing Treatment of Expensed Conservation**

**Introduction - Summary Information - Table of Contents**

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| Example of the Rates Analysis Model's - "7b2 Resort Sort" tab, which contains the resources sorted in least-cost order  | B - 2              |
| A summary of the conservation resources that are contained in the resource stack are presented in the historical and projected nominal costs of the year that the investment occurred   | B - 3              |
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| The detailed amounts and costs for non-conservation resources are contained in <u>Appendix C</u> to the 7 (b)(2) Study. The summary resource cost values that are contained in the resource stack are presented in 2010 dollars.          |                    |
| The detailed amounts and costs for conservation resources are contained in <u>Appendix D</u> to the 7 (b)(2) Study. The summary conservation resource cost values that are contained in the resource stack are presented in 2010 dollars. |                    |

|    | A  | B         | C             | D                  | E            | F           | G                         | H               | I                  | J                   | K                             | L                               | M                          | N                        | O     |
|----|--|-----------|---------------|--------------------|--------------|-------------|---------------------------|-----------------|--------------------|---------------------|-------------------------------|---------------------------------|----------------------------|--------------------------|-------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>   |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 2  | <b>Section 7(b)(2) Resource Stack - Rates Analysis Model - Resource Sort Spread Sheet Example</b>                          |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 3  |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 4  | <b>7b2 New Resource Sort</b>   |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 5  | <b>All Costs are in 2010 Dollars</b>   |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 6  | <b>NO LOST REVENUES INCLUDED IN COSTS</b>  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 7  | A  | B         | C             | D                  | E            | F           | G                         | H               | I                  | J                   | K                             | L                               | M                          | M                        |       |
| 8  |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 9  |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 10 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 11 | Project  | Nameplate | Interest Rate | Capital Investment | Annual O & M | Annual Fuel | Conser. First Year Amort. | Capacity Factor | Life <sup>/1</sup> | Annual Capital Cost | Total Discounted Capital Cost | Total Discounted O & M and Fuel | Total Cost Dollars per AMW | Total Cost Mills per KWH |       |
| 12 |  | (MW)      | (%)           | (\$ooo)            | (\$ooo)      | (\$ooo)     |                           |                 |                    | (\$ooo)             | (\$ooo)                       | (\$ooo)                         | (\$)                       |                          |       |
| 13 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 14 | BPA & Public Resources - Resources are listed in least cost first order.   |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 15 | BPA PROG CONS  | 2004      | 31.40         | 4.57               | 22,724       | 18,502      | 0                         | \$4,132         | 100                | 15                  | 2,126                         | 20,731                          | 17,432                     | 81,025                   | 9.25  |
| 16 | BPA PROG CONS  | 2001      | 18.70         | 4.57               | 71           | 24,855      | 0                         | \$5,550         | 100                | 15                  | 7                             | 65                              | 23,418                     | 83,717                   | 9.56  |
| 17 | IDAHO FALLS ND   | 1982      | 18.50         |                    | 0            | 6,115       | 0                         |                 | 100                | 60                  | 0                             | 0                               | 99,718                     | 89,836                   | 10.26 |
| 18 | BPA PROG CONS  | 2006      | 30.20         | 4.57               | 16,438       | 30,761      | 0                         | \$6,869         | 100                | 15                  | 1,538                         | 14,996                          | 28,982                     | 97,082                   | 11.08 |
| 19 | BPA PROG CONS  | 2007      | 28.50         | 4.57               | 11,454       | 41,500      | 0                         | \$9,267         | 100                | 15                  | 1,072                         | 10,449                          | 39,100                     | 115,903                  | 13.23 |
| 20 | BPA PROG CONS  | 2003      | 25.20         | 4.57               | 27,500       | 20,758      | 0                         | \$4,635         | 100                | 15                  | 2,573                         | 25,088                          | 19,558                     | 118,109                  | 13.48 |
| 21 | BPA PROG CONS  | 2005      | 20.00         | 4.57               | 16,720       | 25,443      | 0                         | \$5,682         | 100                | 15                  | 1,564                         | 15,253                          | 23,972                     | 130,750                  | 14.93 |
| 22 | BPA PROG CONS  | 2002      | 26.10         | 4.57               | 34,587       | 21,005      | 0                         | \$4,690         | 100                | 15                  | 3,236                         | 31,553                          | 19,790                     | 131,145                  | 14.97 |
| 23 | BPA PROG CONS  | 2008      | 34.80         | 4.57               | 8,214        | 65,071      | 0                         | \$14,531        | 100                | 15                  | 769                           | 7,493                           | 61,308                     | 131,804                  | 15.05 |
| 24 | BOARDMAN PUBLIC ND   | 1980      | 49.71         |                    |              | 16,104      | 0                         |                 | 100                | 30                  | 0                             | 0                               | 223,099                    | 149,601                  | 17.08 |
| 25 | COWLITZ FALLS  | 1994      | 26.00         | 4.25               | 0            | 3,598       | 0                         |                 | 100                | 60                  | 11,620                        | 189,488                         | 58,673                     | 159,077                  | 18.16 |
| 26 | BPA PROG CONS  | 2009      | 40.10         | 4.57               | 27,760       | 77,167      | 0                         | \$17,232        | 100                | 15                  | 2,597                         | 25,324                          | 72,704                     | 162,974                  | 18.60 |
| 27 | BPA PROG CONS  | 2015      | 38.80         | 4.57               | 43,034       | 83,127      | 0                         | \$18,562        | 100                | 15                  | 4,026                         | 39,259                          | 78,320                     | 202,026                  | 23.06 |
| 28 | BPA PROG CONS  | 2014      | 38.80         | 4.57               | 43,899       | 83,935      | 0                         | \$18,743        | 100                | 15                  | 4,107                         | 40,048                          | 79,082                     | 204,689                  | 23.37 |
| 29 | BPA PROG CONS  | 2013      | 38.80         | 4.57               | 44,788       | 84,925      | 0                         | \$18,964        | 100                | 15                  | 4,190                         | 40,859                          | 80,014                     | 207,685                  | 23.71 |
| 30 | BPA PROG CONS  | 2012      | 38.80         | 4.57               | 45,700       | 85,910      | 0                         | \$19,184        | 100                | 15                  | 4,276                         | 41,691                          | 80,942                     | 210,709                  | 24.05 |
| 31 | BPA PROG CONS  | 2011      | 34.60         | 4.57               | 38,325       | 84,552      | 0                         | \$18,881        | 100                | 15                  | 3,586                         | 34,963                          | 79,663                     | 220,858                  | 25.21 |
| 32 | BPA PROG CONS  | 2010      | 31.20         | 4.57               | 32,300       | 85,546      | 0                         | \$19,103        | 100                | 15                  | 3,022                         | 29,466                          | 80,599                     | 235,183                  | 26.85 |
| 33 | BILLING CREDITS  | 1996      | 10.14         |                    | 0            | 0           | 0                         |                 | 100                | 30                  | 5,268                         | 72,981                          | 0                          | 239,911                  | 27.39 |
| 34 | WAUNA-Steam-Cogen.   | 1996      | 21.70         |                    | 0            | 11,463      | 0                         |                 | 100                | 30                  | 0                             | 0                               | 158,811                    | 243,950                  | 27.85 |
| 35 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 36 | <b>Resources Not Included In the Resource Stack:</b>   |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 37 | PRIEST RAPIDS 1959 ND  | 1959      | 14.90         |                    | 0            | 2,932       | 0                         |                 | 100                | 70                  | 0                             | 0                               | 48,491                     | 46,492                   | 5.31  |
| 38 | WANAPAM 1963 ND  | 1963      | 14.80         |                    | 0            | 3,713       | 0                         |                 | 100                | 70                  | 0                             | 0                               | 61,408                     | 59,274                   | 6.77  |
| 39 | NINE CANYON WIND PROJ. ND  | 2008      | 13.52         |                    | 0            | 8,751       | 0                         |                 | 100                | 20                  | 0                             | 0                               | 100,864                    | 373,018                  | 42.58 |
| 40 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 41 | Note 1 - The number of years under the Life column heading represents the estimated remaining useful life of the resource. |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 42 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 43 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 44 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |
| 45 |  |           |               |                    |              |             |                           |                 |                    |                     |                               |                                 |                            |                          |       |

|    | A   | B   | C               | D               | E                   | F             | G                         | H | I | J | K |
|----|---|---|-----------------|-----------------|---------------------|---------------|---------------------------|---|---|---|---|
| 1  | BPA's 2010 Wholesale Power Rate Case  |   |                 |                 |                     |               |                           |   |   |   |   |
| 2  | BPA Programmatic Conservation - Net Historical & Projected Savings and Expenditures |   |                 |                 |                     |               |                           |   |   |   |   |
| 3  | BPA 2010 Rate Case - 7(b)(2) Resource Stack   |   |                 |                 |                     |               |                           |   |   |   |   |
| 4  | Nominal Dollars Corresponding to the Historical Year of Acquisition                 |   |                 |                 |                     |               |                           |   |   |   |   |
| 5  | <u>(\$ 000)</u>   |   |                 |                 |                     |               |                           |   |   |   |   |
| 6  |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 7  |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 8  |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 9  |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 10 |   | Conservation  | Amount          | Amount          | Capitalized         | NET           | Capitalized               |   |   |   |   |
| 11 |   | Savings   | Revenue         | Capitalized     | & Debt              | Annual        | Amortization              |   |   |   |   |
| 12 |   | <u>aMW</u>  | <u>Expensed</u> | <u>Financed</u> | <u>Expenditures</u> | <u>Period</u> | <u>Years</u> <sup>2</sup> |   |   |   |   |
| 13 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 14 | 2001 Conservation   | 18.7  | 19,905.0        | 57.0            | 19,962.0            | 15            |                           |   |   |   |   |
| 15 | 2002 Conservation   | 26.1  | 17,143.0        | 28,227.0        | 45,370.0            | 15            |                           |   |   |   |   |
| 16 | 2003 Conservation   | 25.2  | 17,286.0        | 22,900.0        | 40,186.0            | 15            |                           |   |   |   |   |
| 17 | 2004 Conservation   | 31.4  | 15,821.0        | 19,431.0        | 35,252.0            | 15            |                           |   |   |   |   |
| 18 | 2005 Conservation   | 20.0  | 22,446.0        | 14,750.0        | 37,196.0            | 15            |                           |   |   |   |   |
| 19 | 2006 Conservation   | 30.2  | 28,014.0        | 14,970.0        | 42,984.0            | 15            |                           |   |   |   |   |
| 20 | 2007 Conservation   | 28.5  | 38,860.0        | 10,725.0        | 49,585.0            | 15            |                           |   |   |   |   |
| 21 | 2008 Conservation   | 34.8  | 62,393.0        | 7,876.0         | 70,269.0            | 15            |                           |   |   |   |   |
| 22 | 2009 Conservation   | 40.1  | 75,611.0        | 27,200.0        | 102,811.0           | 15            |                           |   |   |   |   |
| 23 | Subtotal <sup>1</sup>   | 255.0   |                 |                 |                     |               |                           |   |   |   |   |
| 24 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 25 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 26 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 27 | 2010 Conservation   | 31.2  | 85,546.0        | 32,300.0        | 117,846.0           | 15            |                           |   |   |   |   |
| 28 | 2011 Conservation   | 34.6  | 86,263.0        | 39,100.0        | 125,363.0           | 15            |                           |   |   |   |   |
| 29 | 2012 Conservation   | 38.8  | 89,482.0        | 47,600.0        | 137,082.0           | 15            |                           |   |   |   |   |
| 30 | 2013 Conservation   | 38.8  | 90,257.0        | 47,600.0        | 137,857.0           | 15            |                           |   |   |   |   |
| 31 | 2014 Conservation   | 38.8  | 91,012.0        | 47,600.0        | 138,612.0           | 15            |                           |   |   |   |   |
| 32 | 2015 Conservation   | 38.8  | 91,946.0        | 47,600.0        | 139,546.0           | 15            |                           |   |   |   |   |
| 33 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 34 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 35 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 36 | Cumulative Savings  | 476.0   | \$831,985.0     | \$407,936.0     | \$1,239,921.0       |               |                           |   |   |   |   |
| 37 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 38 | Percentages   |   | 67.10%          | 32.90%          | 100.00%             |               |                           |   |   |   |   |
| 39 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 40 | Notes:  |   |                 |                 |                     |               |                           |   |   |   |   |
| 41 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 42 | Note 1  | - The amount of conservation in the resource stack for FY2001-2009 (255.0 aMW) together               |                 |                 |                     |               |                           |   |   |   |   |
| 43 |   | with billing credit resources contained in the resource stack of 10.1 aMW establish the amount of the |                 |                 |                     |               |                           |   |   |   |   |
| 44 |   | load resource balance difference between the Program Case and the 7(b)(2) Case at the start of the    |                 |                 |                     |               |                           |   |   |   |   |
| 45 |   | Rate Test Period amounting to 265.1 aMW.  |                 |                 |                     |               |                           |   |   |   |   |
| 46 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 47 | Note 2  | - Historical conservation investments that occurred prior to FY 2001 will have been fully             |                 |                 |                     |               |                           |   |   |   |   |
| 48 |   | amortized before the end of the rate test period in FY 2015 based on a composite useful life of       |                 |                 |                     |               |                           |   |   |   |   |
| 49 |   | 15 years in the 7(b)(2) Case. These resources are viewed as obsolete conservation investments         |                 |                 |                     |               |                           |   |   |   |   |
| 50 |   | that are not includable in the 7(b)(2) resource stack.  |                 |                 |                     |               |                           |   |   |   |   |
| 51 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 52 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 53 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 54 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 55 |   |   |                 |                 |                     |               |                           |   |   |   |   |
| 56 |   |   |                 |                 |                     |               |                           |   |   |   |   |

|    | L  | M                         | N            | O                | P                | Q                  | R  | S | T | U | V |
|----|--|---------------------------|--------------|------------------|------------------|--------------------|----|---|---|---|---|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 2  | <b>BPA Programmatic Conservation - Net Historical &amp; Projected Savings and Expenditures</b>                         |                           |              |                  |                  |                    |    |   |   |   |   |
| 3  | <b>BPA 2010 Rate Case - 7(b)(2) Resource Stack - Annual Investments and Savings</b>                                    |                           |              |                  |                  |                    |    |   |   |   |   |
| 4  | <b>INVESTMENTS IN 2010 DOLLARS</b>   |                           |              |                  |                  |                    |    |   |   |   |   |
| 5  | <b>(\$ 000)</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 6  |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 7  | <b>Inflator /</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 8  | <b>Deflator</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 9  | <b>Adjustment</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 10 | <b>Factor<sup>1</sup></b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 11 | <b>To Change</b>   |                           |              |                  |                  |                    |    |   |   |   |   |
| 12 | <b>To 2010 \$\$\$</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 13 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 14 | 0.800837   | 2001 Conservation         | 18.7         | 24,855.2         | 71.2             | 24,926.4           | 15 |   |   |   |   |
| 15 | 0.816124   | 2002 Conservation         | 26.1         | 21,005.4         | 34,586.7         | 55,592.1           | 15 |   |   |   |   |
| 16 | 0.832725   | 2003 Conservation         | 25.2         | 20,758.4         | 27,500.1         | 48,258.5           | 15 |   |   |   |   |
| 17 | 0.855097   | 2004 Conservation         | 31.4         | 18,502.0         | 22,723.7         | 41,225.7           | 15 |   |   |   |   |
| 18 | 0.882206   | 2005 Conservation         | 20.0         | 25,443.0         | 16,719.5         | 42,162.5           | 15 |   |   |   |   |
| 19 | 0.910697   | 2006 Conservation         | 30.2         | 30,761.1         | 16,438.0         | 47,199.1           | 15 |   |   |   |   |
| 20 | 0.936392   | 2007 Conservation         | 28.5         | 41,499.7         | 11,453.5         | 52,953.2           | 15 |   |   |   |   |
| 21 | 0.958847   | 2008 Conservation         | 34.8         | 65,070.9         | 8,214.0          | 73,284.9           | 15 |   |   |   |   |
| 22 | 0.979842   | 2009 Conservation         | 40.1         | 77,166.5         | 27,759.6         | 104,926.1          | 15 |   |   |   |   |
| 23 |  | <b>Subtotals</b>          | 255.0        | 325,062.2        | 165,466.3        | 490,528.5          |    |   |   |   |   |
| 24 |  | <b>Percentages</b>        |              | 66.27%           | 33.73%           | 100.00%            |    |   |   |   |   |
| 25 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 26 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 27 | 1.000000   | 2010 Conservation         | 31.2         | 85,546.0         | 32,300.0         | 117,846.0          | 15 |   |   |   |   |
| 28 | 1.020232   | 2011 Conservation         | 34.6         | 84,552.3         | 38,324.6         | 122,876.9          | 15 |   |   |   |   |
| 29 | 1.041582   | 2012 Conservation         | 38.8         | 85,909.7         | 45,699.7         | 131,609.4          | 15 |   |   |   |   |
| 30 | 1.062788   | 2013 Conservation         | 38.8         | 84,924.7         | 44,787.9         | 129,712.6          | 15 |   |   |   |   |
| 31 | 1.084313   | 2014 Conservation         | 38.8         | 83,935.2         | 43,898.8         | 127,834.0          | 15 |   |   |   |   |
| 32 | 1.106094   | 2015 Conservation         | 38.8         | 83,126.8         | 43,034.3         | 126,161.1          | 15 |   |   |   |   |
| 33 |  | <b>Subtotals</b>          | 221.0        | 507,995.4        | 248,045.6        | 756,041.0          |    |   |   |   |   |
| 34 |  | <b>Percentages</b>        |              | 67.19%           | 32.81%           | 100.00%            |    |   |   |   |   |
| 35 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 36 |  | <b>Cumulative Savings</b> | <b>476.0</b> | <b>833,057.6</b> | <b>413,511.9</b> | <b>1,246,569.5</b> |    |   |   |   |   |
| 37 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 38 |  | <b>Percentages</b>        |              | 66.83%           | 33.17%           | 100.00%            |    |   |   |   |   |
| 39 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 40 | <b>Notes:</b>  |                           |              |                  |                  |                    |    |   |   |   |   |
| 41 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 42 | <b>Note 1</b> - The Inflator / Deflator Indices are based on Global Insight data, The U.S. Economy: The 30-Year Focus, |                           |              |                  |                  |                    |    |   |   |   |   |
| 43 | August 2008, Base Case Scenario, adjusted to make FY2010 the base year with a inflator /deflator value of 1.000.       |                           |              |                  |                  |                    |    |   |   |   |   |
| 44 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 45 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 46 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 47 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 48 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 49 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 50 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 51 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 52 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 53 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 54 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 55 |  |                           |              |                  |                  |                    |    |   |   |   |   |
| 56 |  |                           |              |                  |                  |                    |    |   |   |   |   |

|    | A   | B     | C                     | D | E           | F                      | G                       | H        | I |
|----|---|-------|-----------------------|---|-------------|------------------------|-------------------------|----------|---|
| 1  | BPA's 2010 Wholesale Power Rate Case  |       |                       |   |             |                        |                         |          |   |
| 2  | BPA 2010 Rate Case - 7(b)(2) Resource Stack   |       |                       |   |             |                        |                         |          |   |
| 3  | Inflation Adjustment Factors  |       |                       |   |             |                        |                         |          |   |
| 4  |   |       |                       |   |             |                        |                         |          |   |
| 5  |   |       |                       |   |             |                        |                         |          |   |
| 6  | Current 2008 GDP Deflator Fcst (Update)   |       |                       |   |             | Fiscal Year Cumulative |                         |          |   |
| 7  |   |       |                       |   |             |                        |                         |          |   |
| 8  |   |       |                       |   |             |                        |                         |          |   |
| 9  |   |       |                       |   |             |                        |                         |          |   |
| 10 | Global Insight  |       |                       |   | BPA         | BPA                    | FY 2008 <sup>2, 3</sup> |          |   |
| 11 | CY 2008   |       | CY 2008               |   | FY2008      | FY2008                 | CUMULATIVE PRICE        |          |   |
| 12 | FORECAST  |       | FORECAST              |   | FORECAST    | FORECAST               | ADJUSTMENT              |          |   |
| 13 | CalendarYear  |       | CalendarYear          |   | Fiscal Year | Fiscal Year            | <u>INDEX</u>            |          |   |
| 14 | YEAR  | Index | % Change <sup>2</sup> |   | Index       | % Change <sup>2</sup>  | (Base Year 2010)        |          |   |
| 15 |   |       |                       |   |             |                        |                         |          |   |
| 16 | 1997  | 0.75  |                       |   |             |                        |                         |          |   |
| 17 | 1998  | 0.76  |                       |   | 0.758       |                        |                         |          |   |
| 18 | 1999  | 0.77  | 1.32%                 |   | 0.768       | 1.32%                  | 1999                    | 0.771859 |   |
| 19 | 2000  | 0.78  | 1.30%                 |   | 0.778       | 1.30%                  | 2000                    | 0.781910 |   |
| 20 | 2001  | 0.80  | 2.56%                 |   | 0.795       | 2.19%                  | 2001                    | 0.798995 |   |
| 21 | 2002  | 0.82  | 2.50%                 |   | 0.815       | 2.52%                  | 2002                    | 0.819095 |   |
| 22 | 2003  | 0.83  | 1.22%                 |   | 0.828       | 1.60%                  | 2003                    | 0.832161 |   |
| 23 | 2004  | 0.86  | 3.61%                 |   | 0.853       | 3.02%                  | 2004                    | 0.857286 |   |
| 24 | 2005  | 0.88  | 2.33%                 |   | 0.875       | 2.58%                  | 2005                    | 0.879397 |   |
| 25 | 2006  | 0.91  | 3.41%                 |   | 0.903       | 3.20%                  | 2006                    | 0.907538 |   |
| 26 | 2007  | 0.94  | 3.30%                 |   | 0.933       | 3.32%                  | 2007                    | 0.937688 |   |
| 27 | 2008  | 0.96  | 2.13%                 |   | 0.955       | 2.36%                  | 2008                    | 0.959799 |   |
| 28 | 2009  | 0.98  | 2.08%                 |   | 0.975       | 2.09%                  | 2009                    | 0.979899 |   |
| 29 | 2010  | 1.00  | 2.04%                 |   | 0.995       | 2.05%                  | 2010                    | 1.000000 |   |
| 30 | 2011  | 1.02  | 2.00%                 |   | 1.015       | 2.01%                  | 2011                    | 1.020101 |   |
| 31 | 2012  | 1.04  | 1.96%                 |   | 1.035       | 1.97%                  | 2012                    | 1.040201 |   |
| 32 | 2013  | 1.06  | 1.92%                 |   | 1.055       | 1.93%                  | 2013                    | 1.060302 |   |
| 33 | 2014  | 1.08  | 1.89%                 |   | 1.075       | 1.90%                  | 2014                    | 1.080402 |   |
| 34 | 2015  | 1.11  | 2.78%                 |   | 1.103       | 2.60%                  | 2015                    | 1.108543 |   |
| 35 | 2016  | 1.13  | 1.80%                 |   | 1.125       | 1.99%                  | 2016                    | 1.130653 |   |
| 36 | 2017  | 1.15  | 1.77%                 |   | 1.145       | 1.78%                  | 2017                    | 1.150754 |   |
| 37 | 2018  | 1.17  | 1.74%                 |   | 1.165       | 1.75%                  | 2018                    | 1.170854 |   |
| 38 | 2019  | 1.20  | 2.56%                 |   | 1.193       | 2.40%                  | 2019                    | 1.198995 |   |
| 39 | 2020  | 1.22  | 1.67%                 |   | 1.215       | 1.84%                  | 2020                    | 1.221106 |   |
| 40 | 2021  | 1.25  | 2.46%                 |   | 1.243       | 2.30%                  | 2021                    | 1.249246 |   |
| 41 | 2022  | 1.27  | 1.60%                 |   | 1.265       | 1.77%                  | 2022                    | 1.271357 |   |
| 42 | 2023  | 1.29  | 1.57%                 |   | 1.285       | 1.58%                  | 2023                    | 1.291457 |   |
| 43 | 2024  | 1.32  | 2.33%                 |   | 1.313       | 2.18%                  | 2024                    | 1.319598 |   |
| 44 | 2025  | 1.34  | 1.52%                 |   | 1.335       | 1.68%                  | 2025                    | 1.341709 |   |
| 45 | 2026  | 1.37  | 2.24%                 |   | 1.363       | 2.10%                  | 2026                    | 1.369849 |   |
| 46 | 2027  | 1.39  | 1.46%                 |   | 1.385       | 1.61%                  | 2027                    | 1.391960 |   |
| 47 | 2028  | 1.42  | 2.16%                 |   | 1.413       | 2.02%                  | 2028                    | 1.420101 |   |
| 48 | 2029  | 1.44  | 1.41%                 |   | 1.435       | 1.56%                  | 2029                    | 1.442211 |   |
| 49 | 2030  | 1.47  | 2.08%                 |   | 1.463       | 1.95%                  | 2030                    | 1.470352 |   |
| 50 | 2031  | 1.50  | 2.04%                 |   | 1.493       | 2.05%                  | 2031                    | 1.500503 |   |
| 51 | 2032  | 1.52  | 1.33%                 |   | 1.515       | 1.47%                  | 2032                    | 1.522613 |   |
| 52 | 2033  | 1.55  | 1.97%                 |   | 1.543       | 1.85%                  | 2033                    | 1.550754 |   |
| 53 | 2034  | 1.58  | 1.94%                 |   | 1.573       | 1.94%                  | 2034                    | 1.580905 |   |
| 54 | 2035  | 1.60  | 1.27%                 |   | 1.595       | 1.40%                  | 2035                    | 1.603015 |   |
| 55 | 2036  | 1.63  | 1.87%                 |   | 1.623       | 1.76%                  | 2036                    | 1.631156 |   |
| 56 | 2037  | 1.66  | 1.84%                 |   | 1.653       | 1.85%                  | 2037                    | 1.661307 |   |
| 57 | 2038  | 1.69  | 1.81%                 |   | 1.683       | 1.81%                  | 2038                    | 1.691457 |   |
| 58 |   |       |                       |   |             |                        |                         |          |   |
| 59 | 1/ Global Insight, The U.S. Economy: The 30-Year Focus, August 2008, Base Case Scenario.                            |       |                       |   |             |                        |                         |          |   |
| 60 |   |       |                       |   |             |                        |                         |          |   |
| 61 | 2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2009, is determined as       |       |                       |   |             |                        |                         |          |   |
| 62 | follows: 1.011 = [(2.159/100)*.5] + 1. An example of subsequent year cumulative growth such as in 2010 is found as: |       |                       |   |             |                        |                         |          |   |
| 63 | 1.032 = [1+ (2.057/100)]*1.011 (Official Agency Forecast Footnote - Will Revise Later)                              |       |                       |   |             |                        |                         |          |   |
| 64 |   |       |                       |   |             |                        |                         |          |   |
| 65 | 3/ Index restated to arrive at FY 2010 value = 1.00000.   |       |                       |   |             |                        |                         |          |   |
| 66 |   |       |                       |   |             |                        |                         |          |   |

|    | A  | B | C | D | E | F | G | H |
|----|--|---|---|---|---|---|---|---|
| 1  | <p align="center"><b>Section 7(b)(2) Rate Test Study and Documentation</b><br/> <b>Alternative Conservation Expense Deferral / Financing Periods</b><br/> <b>WP-10 Initial Rate Proposal</b></p> <p align="center"><b>SUMMARY ANALYSIS - ACCOUNTING / FINANCING TREATMENT OF EXPENSED CONSERVATION COSTS</b></p> |   |   |   |   |   |   |   |
| 2  |  |   |   |   |   |   |   |   |
| 3  |  |   |   |   |   |   |   |   |
| 4  |  |   |   |   |   |   |   |   |
| 5  |  |   |   |   |   |   |   |   |
| 7  | <b>Factor 1 - Resource Stack Selected Resources - Resource Composition:</b>  |   |   |   |   |   |   |   |
| 8  |  |   |   |   |   |   |   |   |
| 9  | <b>a) - Conservation Resources - Composition and Timing of Costs - Costs That are Constant Across All Alternatives <sup>1</sup> :</b>  |   |   |   |   |   |   |   |
| 10 |  |   |   |   |   |   |   |   |
| 11 | <p align="center"><b>Total</b></p>   |   |   |   |   |   |   |   |
| 12 | <p align="center"><b><u>FY 2010-FY 2015</u></b>                      <b><u>FY 2010</u></b>                      <b><u>FY 2011-2015</u></b>                      <b><u>FY 2016-2029</u></b></p>   |   |   |   |   |   |   |   |
| 13 |  |   |   |   |   |   |   |   |
| 14 | <p align="center"><u>Total Expense Costs</u>                      <u>Expense Costs</u>                      <u>Expense Costs</u>                      <u>Expense Costs</u></p>   |   |   |   |   |   |   |   |
| 15 | <p align="center">\$774,228,800                      \$325,062,100                      \$449,166,700                      None</p>  |   |   |   |   |   |   |   |
| 16 |  |   |   |   |   |   |   |   |
| 17 | <p align="center"><u>Total Capitalized Costs</u>                      <u>Capitalized Costs</u>                      <u>Capitalized Costs</u>                      <u>Expense Costs</u></p>   |   |   |   |   |   |   |   |
| 18 | <p align="center">\$394,638,700                      \$165,466,200                      \$229,172,500                      None</p>  |   |   |   |   |   |   |   |
| 19 |  |   |   |   |   |   |   |   |
| 20 | <p align="center">Total Investment Costs</p>   |   |   |   |   |   |   |   |
| 21 | <p align="center"><u>Excluding Interest</u></p>  |   |   |   |   |   |   |   |
| 22 | <p align="center">\$1,168,867,500                      \$490,528,300                      \$678,339,200                      \$0</p>   |   |   |   |   |   |   |   |
| 23 |  |   |   |   |   |   |   |   |
| 24 | <p align="center"><b>Total</b></p>   |   |   |   |   |   |   |   |
| 25 | <p align="center"><b><u>FY 2010-FY 2029</u></b>                      <b><u>FY 2010</u></b>                      <b><u>FY 2011-2015</u></b>                      <b><u>FY 2016-2029</u></b></p>   |   |   |   |   |   |   |   |
| 26 |  |   |   |   |   |   |   |   |
| 27 | <p align="center">Total Interest Expense                      Interest on                      Interest on                      Interest on</p>  |   |   |   |   |   |   |   |
| 28 | <p align="center"><u>Capitalized Costs /1</u>                      <u>Capitalized Costs</u>                      <u>Capitalized Costs</u>                      <u>Capitalized Costs</u></p>  |   |   |   |   |   |   |   |
| 29 | <p align="center">\$159,215,300                      \$7,561,807                      \$61,371,476                      \$90,282,017</p>   |   |   |   |   |   |   |   |
| 30 |  |   |   |   |   |   |   |   |
| 31 | <p align="center"><b>Page 1 of 6</b></p>   |   |   |   |   |   |   |   |
| 32 |  |   |   |   |   |   |   |   |
| 33 |  |   |   |   |   |   |   |   |
| 34 |  |   |   |   |   |   |   |   |

|    | A   | B                     | C                     | D                     | E                     | F                     | G                     | H                          |
|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b>  |                       |                       |                       |                       |                       |                       |                            |
| 2  | <b>Alternative Conservation Expense Deferral / Financing Periods</b>  |                       |                       |                       |                       |                       |                       |                            |
| 3  | <b>WP-10 Initial Rate Proposal</b>  |                       |                       |                       |                       |                       |                       |                            |
| 5  | <b>SUMMARY ANALYSIS - ACCOUNTING / FINANCING TREATMENT OF EXPENSED CONSERVATION COSTS</b>   |                       |                       |                       |                       |                       |                       |                            |
| 7  | <b>Factor 1 - Resource Stack Selected Resources - Resource Composition:</b>   |                       |                       |                       |                       |                       |                       |                            |
| 35 |   | <b><u>FY 2010</u></b> | <b><u>FY 2011</u></b> | <b><u>FY 2012</u></b> | <b><u>FY 2013</u></b> | <b><u>FY 2014</u></b> | <b><u>FY 2015</u></b> | <b>Totals</b>              |
| 36 |   |                       |                       |                       |                       |                       |                       | <b><u>FY 2010-2015</u></b> |
| 37 | <b><u>b) - Conservation Resources Selected from the Resource Stack:</u></b>   |                       |                       |                       |                       |                       |                       |                            |
| 38 | Number of years of  |                       |                       |                       |                       |                       |                       |                            |
| 39 | conservation investments:   | ( 9 )                 | ( 1 )                 | ( 1 )                 | ( 1 )                 | ( 1 )                 | ( 1 )                 | ( 14 )                     |
| 40 |   |                       |                       |                       |                       |                       |                       |                            |
| 41 | Conservation MWs-   | 255.0                 | 38.8                  | 38.8                  | 38.8                  | 38.8                  | 34.6                  | 444.8                      |
| 42 | Selected from the Resource Stack:   | 73.0%                 |                       |                       |                       |                       |                       | 82.5%                      |
| 43 |   |                       |                       |                       |                       |                       |                       |                            |
| 44 | <b><u>c) - Non-Conservation Resources Selected from the Resource Stack:</u></b>   |                       |                       |                       |                       |                       |                       |                            |
| 45 | Idaho Falls Hydro Resource  | 18.5                  |                       |                       |                       |                       |                       | 18.5                       |
| 46 | Boardman Coal Plant   | 49.7                  |                       |                       |                       |                       |                       | 49.7                       |
| 47 | Cowlitz Falls Hydro Resource  | 26.0                  |                       |                       |                       |                       |                       | 26.0                       |
| 48 |   | 94.2                  |                       |                       |                       |                       |                       | 94.2                       |
| 49 |   | 27.0%                 |                       |                       |                       |                       |                       | 17.5%                      |
| 50 | <b>Selected</b>   |                       |                       |                       |                       |                       |                       |                            |
| 51 | <b>Resource MW Amounts</b>  | 349.2                 | 38.8                  | 38.8                  | 38.8                  | 38.8                  | 34.6                  | 539.0                      |
| 52 |   |                       |                       |                       |                       |                       |                       |                            |
| 53 | <u>Note 1</u> - Conservation resource costs in this table have been adjusted for inflation to reflect the purchasing power costs of the year the resource is selected |                       |                       |                       |                       |                       |                       |                            |
| 54 | from the resource stack. This financing analysis assumes that financing origination of capitalized investments and conservation investments that have been            |                       |                       |                       |                       |                       |                       |                            |
| 55 | deferred occurs on the first day of the fiscal year.  |                       |                       |                       |                       |                       |                       |                            |
| 56 |   |                       |                       |                       |                       |                       |                       |                            |
| 57 | <b>Page 2 of 6</b>  |                       |                       |                       |                       |                       |                       |                            |
| 58 |   |                       |                       |                       |                       |                       |                       |                            |
| 59 |   |                       |                       |                       |                       |                       |                       |                            |
| 60 |   |                       |                       |                       |                       |                       |                       |                            |
| 61 |   |                       |                       |                       |                       |                       |                       |                            |

|    | A   | B        | C                   | D                | E                | F                | G                   | H                   |
|----|---|----------|---------------------|------------------|------------------|------------------|---------------------|---------------------|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b>                                  |          |                     |                  |                  |                  |                     |                     |
| 2  | <b>Alternative Conservation Expense Deferral / Financing Periods</b>                      |          |                     |                  |                  |                  |                     |                     |
| 3  | <b>WP-10 Initial Rate Proposal</b>  |          |                     |                  |                  |                  |                     |                     |
| 4  |   |          |                     |                  |                  |                  |                     |                     |
| 5  | <b>SUMMARY ANALYSIS - ACCOUNTING / FINANCING TREATMENT OF EXPENSED CONSERVATION COSTS</b> |          |                     |                  |                  |                  |                     |                     |
| 6  |   |          |                     |                  |                  |                  |                     |                     |
| 7  | <b>Factor 2 - Financing Costs Associated with Deferring Conservation Expensed Costs:</b>  |          |                     |                  |                  |                  |                     |                     |
| 8  |   |          |                     |                  |                  |                  |                     |                     |
| 9  | ( 3 )   |          | ( 4 )               | ( 5 )            | ( 6 )            | ( 7 )            | ( 8 )               | ( 9 )               |
| 10 |   |          |                     |                  | ( 4 ) + ( 5 )    |                  | ( 6 ) + ( 7 )       | ( 8 ) / ( 3 )       |
| 11 | Total Conservation  |          | Years 1-2           | Years 3-6 of     | Total            | Years Outside of |                     | Percent of          |
| 12 | <u>Expense Costs</u>  |          | Rate Period         | Rate Test Period | Rate Test Period | Rate Test Period |                     | Total Interest to   |
| 13 | <u>Excluding Interest</u>   |          | Interest            | Interest Paid    | Interest Paid    | Interest Paid    | Total Interest Paid | Deferred Expenses   |
| 14 | <b>774,228,800</b>  | Interest | Paid - FY 2010-2011 | FY 2012-2015     | FY 2010-2015     | FY 2016-2029     | FY 2010-2029        | <u>FY 2010-2029</u> |
| 15 |   | Rate     |                     |                  |                  |                  |                     |                     |
| 16 |   |          |                     |                  |                  |                  |                     |                     |
| 17 | <b><u>Alternative 1 - Expense in the</u></b>  |          |                     |                  |                  |                  |                     |                     |
| 18 | year incurred, no deferral  | N/A      | 0                   | 0                | 0                | 0                | 0                   | 0.00%               |
| 19 |   |          |                     |                  |                  |                  |                     |                     |
| 20 | <b><u>Alternative 2 - Deferral -</u></b>  | 3.70%    | \$24,347,516        | \$39,645,531     | \$63,993,047     | \$8,923,612      | \$72,916,659        | 9.42%               |
| 21 | financing over 4-years  |          | 33.39%              | 54.37%           | 87.76%           | 12.24%           | 100.00%             |                     |
| 22 |   |          |                     |                  |                  |                  |                     |                     |
| 23 | <b><u>Alternative 3 - Deferral -</u></b>  | 3.79%    | \$25,569,806        | \$49,947,739     | \$75,517,545     | \$14,694,068     | \$90,211,613        | 11.65%              |
| 24 | financing over 5-years  |          | 28.34%              | 55.37%           | 83.71%           | 16.29%           | 100.00%             |                     |
| 25 |   |          |                     |                  |                  |                  |                     |                     |
| 26 | <b><u>Alternative 4 - Deferral -</u></b>  | 3.88%    | \$26,608,174        | \$59,832,289     | \$86,440,463     | \$22,032,077     | \$108,472,540       | 14.01%              |
| 27 | financing over 6-years  |          | 24.53%              | 55.16%           | 79.69%           | 20.31%           | 100.00%             |                     |
| 28 |   |          |                     |                  |                  |                  |                     |                     |
| 29 | <b><u>Alternative 5 - Deferral -</u></b>  | 3.97%    | \$27,541,446        | \$67,598,359     | \$95,139,805     | \$32,588,312     | \$127,728,117       | 16.50%              |
| 30 | financing over 7-years  |          | 21.56%              | 52.92%           | 74.49%           | 25.51%           | 100.00%             |                     |
| 31 |   |          |                     |                  |                  |                  |                     |                     |
| 32 | <b><u>Alternative 6 - Deferral -</u></b>  | 4.57%    | \$32,875,410        | \$101,511,878    | \$134,387,288    | \$177,965,168    | \$312,352,456       | 40.34%              |
| 33 | financing over 15-years   |          | 10.53%              | 32.50%           | 43.02%           | 56.98%           | 100.00%             |                     |
| 34 |   |          |                     |                  |                  |                  |                     |                     |
| 35 |   |          |                     |                  |                  |                  |                     |                     |
| 36 | <b>Page 3 of 6</b>  |          |                     |                  |                  |                  |                     |                     |
| 37 |   |          |                     |                  |                  |                  |                     |                     |
| 38 |   |          |                     |                  |                  |                  |                     |                     |
| 39 |   |          |                     |                  |                  |                  |                     |                     |



|    | A  | B                          | C | D                      | E | F                            | G | H                              |
|----|--|----------------------------|---|------------------------|---|------------------------------|---|--------------------------------|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b>             |                            |   |                        |   |                              |   |                                |
| 2  | <b>Alternative Conservation Expense Deferral / Financing Periods</b> |                            |   |                        |   |                              |   |                                |
| 3  | <b>WP-10 Initial Rate Proposal</b>                                   |                            |   |                        |   |                              |   |                                |
| 4  |  |                            |   |                        |   |                              |   |                                |
| 5  | <b><u>Factor 3 - Cost Recovery Considerations:</u></b>               |                            |   |                        |   |                              |   |                                |
| 6  |  |                            |   |                        |   |                              |   |                                |
| 7  | <b><u>Weighted Average Cost Recovery Period</u></b>                  |                            |   |                        |   |                              |   |                                |
| 8  |  | <b><u>(\$ 000)</u></b>     |   |                        |   | <b><u>Weighted</u></b>       |   | <b><u>Percent of Total</u></b> |
| 9  |  | <b><u>Conservation</u></b> |   | <b><u>Recovery</u></b> |   | <b><u>Average</u></b>        |   | <b><u>Costs Recovered</u></b>  |
| 10 |  | <b><u>Investment</u></b>   |   | <b><u>Period</u></b>   |   | <b><u>Recovery</u></b>       |   | <b><u>During the</u></b>       |
| 11 |  | <b><u>Cost</u></b>         |   | <b><u>Years</u></b>    |   | <b><u>Period - Years</u></b> |   | <b><u>Rate Test Period</u></b> |
| 12 | <b><u>"Mock" Program Case</u></b>                                    |                            |   |                        |   |                              |   |                                |
| 13 | - Accounting and Financing Treatment                                 |                            |   |                        |   |                              |   |                                |
| 14 |  |                            |   |                        |   |                              |   |                                |
| 15 | Capital Expenditures   | \$261,799.9                |   | 5                      |   | 1.64                         |   |                                |
| 16 | Expensed Expenditures  | \$534,505.9                |   | 1                      |   | 0.67                         |   |                                |
| 17 | <b>Total Cost</b>  | <b>\$796,305.8</b>         |   |                        |   | <b>2.31</b>                  |   | <b>87.42%</b>                  |
| 18 |  |                            |   |                        |   |                              |   |                                |
| 19 | <b><u>Alternative 1 - Expense</u></b>                                |                            |   |                        |   |                              |   |                                |
| 20 | in the year incurred, no deferral                                    |                            |   |                        |   |                              |   |                                |
| 21 |  |                            |   |                        |   |                              |   |                                |
| 22 | Capital Expenditures   | \$394,638.7                |   | 15                     |   | 5.06                         |   |                                |
| 23 | Expensed Expenditures  | \$774,228.8                |   | 1                      |   | 0.66                         |   |                                |
| 24 | <b>Total Cost</b>  | <b>\$1,168,867.5</b>       |   |                        |   | <b>5.72</b>                  |   | <b>73.79%</b>                  |
| 25 |  |                            |   |                        |   |                              |   |                                |
| 26 | <b><u>Alternative 2 - Deferral -</u></b>                             |                            |   |                        |   |                              |   |                                |
| 27 | financing over 4-years   |                            |   |                        |   |                              |   |                                |
| 28 | Capital Expenditures   | \$394,638.7                |   | 15                     |   | 5.06                         |   |                                |
| 29 | Expensed Expenditures  | \$774,228.8                |   | 4                      |   | 2.65                         |   |                                |
| 30 | <b>Total Cost</b>  | <b>\$1,168,867.5</b>       |   |                        |   | <b>7.71</b>                  |   | <b>61.51%</b>                  |
| 31 |  |                            |   |                        |   |                              |   |                                |
| 32 | <b><u>Alternative 3 - Deferral -</u></b>                             |                            |   |                        |   |                              |   |                                |
| 33 | financing over 5-years   |                            |   |                        |   |                              |   |                                |
| 34 | Capital Expenditures   | \$394,638.7                |   | 15                     |   | 5.06                         |   |                                |
| 35 | Expensed Expenditures  | \$774,228.8                |   | 5                      |   | 3.31                         |   |                                |
| 36 | <b>Total Cost</b>  | <b>\$1,168,867.5</b>       |   |                        |   | <b>8.37</b>                  |   | <b>57.43%</b>                  |
| 37 |  |                            |   |                        |   |                              |   |                                |
| 38 | <b><u>Alternative 4 - Deferral -</u></b>                             |                            |   |                        |   |                              |   |                                |
| 39 | financing over 6-years   |                            |   |                        |   |                              |   |                                |
| 40 | Capital Expenditures   | \$394,638.7                |   | 15                     |   | 5.06                         |   |                                |
| 41 | Expensed Expenditures  | \$774,228.8                |   | 6                      |   | 3.97                         |   |                                |
| 42 | <b>Total Cost</b>  | <b>\$1,168,867.5</b>       |   |                        |   | <b>9.03</b>                  |   | <b>53.37%</b>                  |
| 43 |  |                            |   |                        |   |                              |   |                                |
| 44 | <b><u>Alternative 5 - Deferral -</u></b>                             |                            |   |                        |   |                              |   |                                |
| 45 | financing over 7-years   |                            |   |                        |   |                              |   |                                |
| 46 | Capital Expenditures   | \$394,638.7                |   | 15                     |   | 5.06                         |   |                                |
| 47 | Expensed Expenditures  | \$774,228.8                |   | 7                      |   | 4.64                         |   |                                |
| 48 | <b>Total Cost</b>  | <b>\$1,168,867.5</b>       |   |                        |   | <b>9.70</b>                  |   | <b>46.03%</b>                  |
| 49 |  |                            |   |                        |   |                              |   |                                |
| 50 | <b><u>Alternative 6 - Deferral -</u></b>                             |                            |   |                        |   |                              |   |                                |
| 51 | financing over 15-years  |                            |   |                        |   |                              |   |                                |
| 52 | Capital Expenditures   | \$394,638.7                |   | 15                     |   | 5.06                         |   |                                |
| 53 | Expensed Expenditures  | \$774,228.8                |   | 15                     |   | 9.94                         |   |                                |
| 54 | <b>Total Cost</b>  | <b>\$1,168,867.5</b>       |   |                        |   | <b>15.00</b>                 |   | <b>22.27%</b>                  |
| 55 |  |                            |   |                        |   |                              |   |                                |
| 56 | <b>Page 4 of 6</b>   |                            |   |                        |   |                              |   |                                |
| 57 |  |                            |   |                        |   |                              |   |                                |

|    | A | B   | C | D                 | E                 | F                 | G                 | H                 | I                 | J                |
|----|---|---|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| 1  |   | <b>Section 7(b)(2) Rate Test Study and Documentation</b>                            |   |                   |                   |                   |                   |                   |                   |                  |
| 2  |   | <b>Alternative Conservation Expense Deferral / Financing Periods</b>                |   |                   |                   |                   |                   |                   |                   |                  |
| 3  |   | <b>WP-10 Initial Rate Proposal</b>  |   |                   |                   |                   |                   |                   |                   |                  |
| 4  |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 5  |   | <b>Factor 4 - Cost Comparability Between the Program Case and the 7(b)(2) Case:</b> |   |                   |                   |                   |                   |                   |                   |                  |
| 6  |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 7  |   | (\$ 000)  |   |                   |                   |                   |                   |                   |                   |                  |
| 8  |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 9  |   |   |   | <b>FY 2010</b>    | <b>FY 2011</b>    | <b>FY 2012</b>    | <b>FY 2013</b>    | <b>FY 2014</b>    | <b>FY 2015</b>    | <b>AVERAGES</b>  |
| 10 |   | <b>Program Case Conservation Expense Costs:</b>                                     |   |                   |                   |                   |                   |                   |                   |                  |
| 11 |   | Staffing, Indirect, General & Administrative  |   | 22,546.0          | 23,263.0          | 24,482.0          | 25,257.0          | 26,012.0          | 26,946.0          |                  |
| 12 |   | Market Transformation Funding   |   | 12,000.0          | 12,000.0          | 12,000.0          | 12,000.0          | 12,000.0          | 12,000.0          |                  |
| 13 |   | Expense Agreements & Grants   |   | 5,000.0           | 5,000.0           | 6,000.0           | 6,000.0           | 6,000.0           | 6,000.0           |                  |
| 14 |   | Conservation Rate Credit  |   | 32,000.0          | 32,000.0          | 32,000.0          | 32,000.0          | 32,000.0          | 32,000.0          |                  |
| 15 |   | Program Support & Evaluation Costs  |   | 14,000.0          | 14,000.0          | 15,000.0          | 15,000.0          | 15,000.0          | 15,000.0          |                  |
| 16 |   | <b>Sub Total Expense Costs - 7(b)(2) Amounts<sup>1</sup></b>                        |   | <b>85,546.0</b>   | <b>86,263.0</b>   | <b>89,482.0</b>   | <b>90,257.0</b>   | <b>91,012.0</b>   | <b>91,946.0</b>   | <b>89,084.3</b>  |
| 17 |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 18 |   | Federal Reimbursable Program (EE Development)                                       |   | 20,500.0          | 20,500.0          | 22,000.0          | 22,000.0          | 22,000.0          | 22,000.0          |                  |
| 19 |   | Demand Management Supply Technology   |   | 1,600.0           | 1,600.0           | 1,600.0           | 1,600.0           | 1,600.0           | 1,600.0           |                  |
| 20 |   | Legacy Conservation - Prior Year Efforts  |   | 1,988.0           | 1,622.0           | 999.0             | 1,311.0           | 717.0             | 717.0             |                  |
| 21 |   | Other Offsetting Credits  |   | (2,241.0)         | (2,162.0)         | (2,184.0)         | (2,203.0)         | (2,220.0)         | (2,369.0)         |                  |
| 22 |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 23 |   | <b>Total Direct Conservation Expenses - Program Case - (A)</b>                      |   | <b>107,393.0</b>  | <b>107,823.0</b>  | <b>111,897.0</b>  | <b>112,965.0</b>  | <b>113,109.0</b>  | <b>113,894.0</b>  | <b>111,180.2</b> |
| 24 |   | <b>Program Case Offsetting Revenue Credits</b>                                      |   | <b>(20,500.0)</b> | <b>(20,500.0)</b> | <b>(22,000.0)</b> | <b>(22,000.0)</b> | <b>(22,000.0)</b> | <b>(22,000.0)</b> |                  |
| 25 |   | <b>Similar Program Case Expense Level Comparison - ( D )</b>                        |   | <b>86,893.0</b>   | <b>87,323.0</b>   | <b>89,897.0</b>   | <b>90,965.0</b>   | <b>91,109.0</b>   | <b>91,894.0</b>   | <b>89,680.2</b>  |
| 26 |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 27 |   | <b>Program Case Capital Costs, Interest Expense:</b>                                |   |                   |                   |                   |                   |                   |                   |                  |
| 28 |   | Current Year's Capitalized Conservation Amortization                                |   | 3,230.0           | 3,910.0           | 3,910.0           | 3,910.0           | 3,910.0           | 3,910.0           |                  |
| 29 |   | Prior Year's BPA Capitalized Conservation Amortization                              |   | 47,045.4          | 51,655.4          | 42,421.0          | 45,674.0          | 46,570.0          | 44,159.0          |                  |
| 30 |   | Prior Year's Other Entities Debt Service Requirements                               |   | 5,078.6           | 4,923.6           | 4,923.0           | 4,917.0           | 4,911.0           | 305.0             |                  |
| 31 |   | Net Interest Expense - Allocated to Conservation                                    |   | 13,754.0          | 12,551.0          | 11,062.0          | 10,777.0          | 9,829.0           | 8,948.0           |                  |
| 32 |   | <b>Total Program Case Capital Costs, Interest Expense - (B)</b>                     |   | <b>69,108.0</b>   | <b>73,040.0</b>   | <b>62,316.0</b>   | <b>65,278.0</b>   | <b>65,220.0</b>   | <b>57,322.0</b>   | <b>65,380.7</b>  |
| 33 |   |   |   |                   |                   |                   |                   |                   |                   |                  |
| 34 |   | <b>Program Case MRNR, PNRR, and Billing Credits:</b>                                |   |                   |                   |                   |                   |                   |                   |                  |
| 35 |   | MRNR - Allocated to Conservation  |   | 10,237.9          | 311.0             | 0.0               | 2,370.0           | 2,161.0           | 1,967.0           |                  |
| 36 |   | PNRR - Allocated to Conservation  |   | 3,597.1           | 3,508.0           | 0.0               | 0.0               | 0.0               | 0.0               |                  |
| 37 |   | Billing Credits   |   | 7,383.0           | 7,469.0           | 5,873.0           | 5,685.0           | 5,750.0           | 5,796.0           |                  |
| 38 |   | <b>Total Program Case MRNR, PNRR, and Billing Credits - (C)</b>                     |   | <b>21,218.0</b>   | <b>11,288.0</b>   | <b>5,873.0</b>    | <b>8,055.0</b>    | <b>7,911.0</b>    | <b>7,763.0</b>    | <b>10,351</b>    |

|    | A  | B                           | C                 | D                     | E                     | F                     | G                     | H                     | I                     |
|----|--|-----------------------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b><br><b>Alternative Conservation Expense Deferral / Financing Periods</b><br><b>WP-10 Initial Rate Proposal</b> |                             |                   |                       |                       |                       |                       |                       |                       |
| 2  |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 3  |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 4  |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 5  | <b>SUMMARY ANALYSIS - ACCOUNTING / FINANCING TREATMENT OF EXPENSED CONSERVATION COSTS</b>  |                             |                   |                       |                       |                       |                       |                       |                       |
| 6  |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 7  | <b>Factor 5 - 7(b)(2) Case - Rate Impacts:</b>   |                             |                   |                       |                       |                       |                       |                       |                       |
| 8  |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 9  |  | <b>FY 2010-2011</b>         |                   |                       |                       |                       |                       |                       |                       |
| 10 |  | <b><u>Average Rates</u></b> |                   | <b><u>FY 2010</u></b> | <b><u>FY 2011</u></b> | <b><u>FY 2012</u></b> | <b><u>FY 2013</u></b> | <b><u>FY 2014</u></b> | <b><u>FY 2015</u></b> |
| 11 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 12 | <b><u>Alternative 1 - Expense in</u></b>   |                             | 7b2 PF Rate       | 29.71                 | 26.27                 | 23.21                 | 25.86                 | 25.28                 | 27.73                 |
| 13 | <b><u>the year incurred,</u></b>   |                             | 7b2 PF Rate Loads | 67526                 | 67743                 | 69811                 | 70156                 | 71525                 | 72235                 |
| 14 | <b><u>no deferral</u></b>  | 27.99                       | Revenues          | 2,006,204             | 1,779,602             | 1,620,310             | 1,814,237             | 1,808,156             | 2,003,086             |
| 15 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 16 | <b><u>Alternative 2 - Deferral -</u></b>   |                             | 7b2 PF Rate       | 26.21                 | 26.67                 | 23.91                 | 26.86                 | 25.33                 | 27.81                 |
| 17 | <b><u>financing over 4-years</u></b>   |                             | 7b2 PF Rate Loads | 67526                 | 67743                 | 69811                 | 70156                 | 71525                 | 72235                 |
| 18 |  | 26.44                       | Revenues          | 1,769,862             | 1,806,699             | 1,669,177             | 1,884,393             | 1,811,732             | 2,008,865             |
| 19 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 20 | <b><u>Alternative 3 - Deferral -</u></b>   |                             | 7b2 PF Rate       | 25.97                 | 26.36                 | 23.55                 | 26.44                 | 26.10                 | 27.82                 |
| 21 | <b><u>financing over 5-years</u></b>   |                             | 7b2 PF Rate Loads | 67526                 | 67743                 | 69811                 | 70156                 | 71525                 | 72235                 |
| 22 |  | 26.17                       | Revenues          | 1,753,656             | 1,785,698             | 1,644,045             | 1,854,927             | 1,866,806             | 2,009,587             |
| 23 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 24 | <b><u>Alternative 4 - Deferral -</u></b>   |                             | 7b2 PF Rate       | 25.81                 | 26.16                 | 23.32                 | 26.16                 | 25.78                 | 28.47                 |
| 25 | <b><u>financing over 6-years</u></b>   |                             | 7b2 PF Rate Loads | 67526                 | 67743                 | 69811                 | 70156                 | 71525                 | 72235                 |
| 26 |  | 25.99                       | Revenues          | 1,742,851             | 1,772,150             | 1,627,989             | 1,835,283             | 1,843,918             | 2,056,540             |
| 27 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 28 | <b><u>Alternative 5 - Deferral -</u></b>   |                             | 7b2 PF Rate       | 25.70                 | 26.02                 | 23.15                 | 25.97                 | 25.56                 | 28.22                 |
| 29 | <b><u>financing over 7-years</u></b>   |                             | 7b2 PF Rate Loads | 67526                 | 67743                 | 69811                 | 70156                 | 71525                 | 72235                 |
| 30 |  | 25.86                       | Revenues          | 1,735,423             | 1,762,666             | 1,616,121             | 1,821,954             | 1,828,183             | 2,038,481             |
| 31 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 32 | <b><u>Alternative 6 - Deferral -</u></b>   |                             | 7b2 PF Rate       | 25.35                 | 25.58                 | 22.63                 | 25.36                 | 24.86                 | 27.44                 |
| 33 | <b><u>financing over 15-years</u></b>  |                             | 7b2 PF Rate Loads | 67526                 | 67743                 | 69811                 | 70156                 | 71525                 | 72235                 |
| 34 |  | 25.47                       | Revenues          | 1,711,789             | 1,732,859             | 1,579,819             | 1,779,159             | 1,778,115             | 1,982,138             |
| 35 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 36 | <b>Page 6 of 6</b>   |                             |                   |                       |                       |                       |                       |                       |                       |
| 37 |  |                             |                   |                       |                       |                       |                       |                       |                       |
| 38 |  |                             |                   |                       |                       |                       |                       |                       |                       |

|    | A  | B  | C                   | D                           | E | F                            | G                  | H                | I                   | J                              | K                   |                  |
|----|--|--|---------------------|-----------------------------|---|------------------------------|--------------------|------------------|---------------------|--------------------------------|---------------------|------------------|
| 1  | Section 7(b)(2) Rate Test Study and Documentation  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments                       |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 3  | WP-10 Initial Rate Proposal  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 4  |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 5  | "Mock Program Case Treatment of 7(b)(2) Adjusted Conservation Amounts"                     |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 6  |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 7  |  |  |                     | <u>Inflation Adjustment</u> |   | <u>Capitalized</u>           |                    |                  |                     | <u>"Expensed" Conservation</u> |                     |                  |
| 8  |  |  | FY 2010             | 1.000000                    |   | <u>Conservation</u>          |                    |                  |                     | <u>Expenditures Are</u>        |                     |                  |
| 9  |  |  | FY 2011             | 1.020232                    |   | <u>Interest Rate</u>         |                    |                  |                     | <u>Expensed in the Year</u>    |                     |                  |
| 10 |  |  | FY 2012             | 1.041582                    |   | <u>5 - Year</u>              |                    |                  |                     | <u>Incurred</u>                |                     |                  |
| 11 |  |  | FY 2013             | 1.062788                    |   | <u>Maturity</u>              |                    |                  |                     |                                |                     |                  |
| 12 |  |  | FY 2014             | 1.084313                    |   | 0.0535                       |                    |                  |                     |                                |                     |                  |
| 13 |  |  | FY 2015             | 1.106094                    |   |                              |                    |                  |                     |                                |                     |                  |
| 14 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 15 | Schedule of 7 (b)(2) Case Conservation Investments - Using Program Case Accounting Methods |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 16 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 17 |  |  |                     |                             |   |                              | <u>Amount</u>      |                  |                     |                                | <u>Annual</u>       |                  |
| 18 |  |  |                     | <u>Conservation</u>         |   | <u>Amount</u>                | <u>Capitalized</u> |                  | <u>NET</u>          |                                | <u>Debt Service</u> |                  |
| 19 |  |  |                     | <u>Savings</u>              |   | <u>Revenue</u>               | <u>&amp; Debt</u>  |                  | <u>Annual</u>       |                                | <u>Whole</u>        |                  |
| 20 |  |  | <u>Vintage Year</u> | <u>aMW</u>                  |   | <u>Expensed</u>              | <u>Financed</u>    |                  | <u>Expenditures</u> |                                | <u>Dollars</u>      |                  |
| 21 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 22 | #1   | <u>2010 Conservation - 2010\$\$</u>                |                     | 31.2                        |   | <u>85,546.0</u>              | <u>32,300.0</u>    |                  | <u>117,846.0</u>    |                                |                     |                  |
| 23 |  | Capitalized Costs - Debt Service Requirements      |                     |                             |   |                              |                    |                  |                     |                                | 7,532,812.64        |                  |
| 24 |  | Expensed Costs /Deferral Debt Service Requirements |                     |                             |   |                              |                    |                  |                     |                                | 85,546,000.00       |                  |
| 25 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 26 |  | 2011 Conservation - 2010\$\$                       |                     | 34.6                        |   | 84,552.3                     | 38,324.6           |                  | 122,876.9           |                                |                     |                  |
| 27 | #2   | <u>2011 Conservation - 2011\$\$</u>                |                     |                             |   | <u>86,263.0</u>              | <u>39,100.0</u>    |                  | <u>125,363.0</u>    |                                |                     |                  |
| 28 |  | Capitalized Costs - Debt Service Requirements      |                     |                             |   |                              |                    |                  |                     |                                | 9,118,667.93        |                  |
| 29 |  | Expensed Costs /Deferral Debt Service Requirements |                     |                             |   |                              |                    |                  |                     |                                | 86,263,000.00       |                  |
| 30 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 31 |  | 2012 Conservation - 2010\$\$                       |                     | 38.8                        |   | 85,909.7                     | 45,699.7           |                  | 131,609.5           |                                |                     |                  |
| 32 | #3   | <u>2012 Conservation - 2012\$\$</u>                |                     |                             |   | <u>89,482.0</u>              | <u>47,600.0</u>    |                  | <u>137,082.0</u>    |                                |                     |                  |
| 33 |  | Capitalized Costs - Debt Service Requirements      |                     |                             |   |                              |                    |                  |                     |                                | 11,100,987.04       |                  |
| 34 |  | Expensed Costs /Deferral Debt Service Requirements |                     |                             |   |                              |                    |                  |                     |                                | 89,482,000.00       |                  |
| 35 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 36 |  | 2013 Conservation - 2010\$\$                       |                     | 38.8                        |   | 84,924.7                     | 44,787.8           |                  | 129,712.6           |                                |                     |                  |
| 37 | #4   | <u>2013 Conservation - 2013\$\$</u>                |                     |                             |   | <u>90,257.0</u>              | <u>47,599.9</u>    |                  | <u>137,856.9</u>    |                                |                     |                  |
| 38 |  | Capitalized Costs - Debt Service Requirements      |                     |                             |   |                              |                    |                  |                     |                                | 11,100,963.72       |                  |
| 39 |  | Expensed Costs /Deferral Debt Service Requirements |                     |                             |   |                              |                    |                  |                     |                                | 90,257,000.00       |                  |
| 40 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 41 |  | 2014 Conservation - 2010\$\$                       |                     | 38.8                        |   | 83,935.2                     | 43,898.8           |                  | 127,833.9           |                                |                     |                  |
| 42 | #5   | <u>2014 Conservation - 2014\$\$</u>                |                     |                             |   | <u>91,012.0</u>              | <u>47,600.0</u>    |                  | <u>138,612.0</u>    |                                |                     |                  |
| 43 |  | Capitalized Costs - Debt Service Requirements      |                     |                             |   |                              |                    |                  |                     |                                | 11,100,987.04       |                  |
| 44 |  | Expensed Costs /Deferral Debt Service Requirements |                     |                             |   |                              |                    |                  |                     |                                | 91,012,000.00       |                  |
| 45 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 46 |  | 2015 Conservation - 2010\$\$                       |                     | 38.8                        |   | 83,126.7                     | 43,034.3           |                  | 126,161.1           |                                |                     |                  |
| 47 | #6   | <u>2015 Conservation - 2015\$\$</u>                |                     |                             |   | <u>91,945.9</u>              | <u>47,600.0</u>    |                  | <u>139,545.9</u>    |                                |                     |                  |
| 48 |  | Capitalized Costs - Debt Service Requirements      |                     |                             |   |                              |                    |                  |                     |                                | 11,100,987.04       |                  |
| 49 |  | Expensed Costs /Deferral Debt Service Requirements |                     |                             |   |                              |                    |                  |                     |                                | 91,945,900.00       |                  |
| 50 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 51 |  |  |                     |                             |   | <u>Principal</u>             | <u>Principal</u>   |                  | <u>Interest</u>     |                                | <u>Cumulative</u>   |                  |
| 52 |  |  |                     |                             |   | <u>Expensed</u>              | <u>Capital</u>     |                  | <u>Paid</u>         |                                | <u>Totals</u>       |                  |
| 53 |  |  |                     |                             |   | <u>Costs</u>                 | <u>Costs</u>       |                  |                     |                                |                     |                  |
| 54 | TOTAL Capital Costs - Debt Ser. Req. = TCC   |  |                     |                             |   |                              |                    | 261,799.9        |                     | 54,578.6                       |                     | 316,378.5        |
| 55 | TOTAL Expense Costs - Debt Serv. Req. = TEC  |  |                     |                             |   |                              | 534,505.9          |                  |                     | 0.0                            |                     | 534,505.9        |
| 56 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 57 | TOTAL DEBT SERVICE REQUIREMENTS = TDSR   |  |                     |                             |   |                              | <u>534,505.9</u>   | <u>261,799.9</u> |                     | <u>54,578.6</u>                |                     | <u>850,884.4</u> |
| 58 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 59 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 60 |  |  |                     |                             |   | Principal Expense Costs      |                    |                  |                     |                                | 534,505.9           |                  |
| 61 |  |  |                     |                             |   | Interest Paid Expensed Costs |                    |                  |                     |                                | 0.0                 |                  |
| 62 |  |  |                     |                             |   | Principal Capital Costs      |                    |                  |                     |                                | 261,799.9           |                  |
| 63 |  |  |                     |                             |   | Interest Paid Capital Costs  |                    |                  |                     |                                | 54,578.6            |                  |
| 64 |  |  |                     |                             |   | <b>Totals</b>                |                    |                  |                     |                                | <b>850,884.4</b>    |                  |
| 65 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 66 | Page 1 of 5  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |
| 67 |  |  |                     |                             |   |                              |                    |                  |                     |                                |                     |                  |

|    | A   | B                     | C                     | D                     | E                     | F                     | G                     | H                     | I                     | J                     | K                     | L        |
|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 2  | <b>Alternative Conservation Expense Accounting and Financing Treatments</b>                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 3  | <b>WP-10 Initial Rate Proposal</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 5  | <b>"Mock Program Case Treatment of 7(b)(2) Adjusted Conservation Amounts"</b>                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 7  | <b>Schedule of 7 (b)(2) Case Conservation Investments - Using Program Case Accounting Methods</b> |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 9  | <b>Debt Service Requirements - Principal and Interest (\$ 000)</b>                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 11 |   | <b><u>FY 2010</u></b> | <b><u>FY 2011</u></b> | <b><u>FY 2012</u></b> | <b><u>FY 2013</u></b> | <b><u>FY 2014</u></b> | <b><u>FY 2015</u></b> | <b><u>FY 2016</u></b> | <b><u>FY 2017</u></b> | <b><u>FY 2018</u></b> | <b><u>FY 2019</u></b> |          |
| 12 |   | 1                     | 2                     | 3                     | 4                     | 5                     | 6                     | 7                     | 8                     | 9                     | 10                    |          |
| 13 | <b><u>2010 Conservation - 2010\$\$</u></b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 14 | Capitalized Costs - Debt Service  | 7,532.8               | 7,532.8               | 7,532.8               | 7,532.8               | 7,532.8               | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 15 | Expensed Expenditures   | 85,546.0              | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 18 | <b><u>2011 Conservation - 2011\$\$</u></b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 19 | Capitalized Costs - Debt Service  | 0.0                   | 9,118.7               | 9,118.7               | 9,118.7               | 9,118.7               | 9,118.7               | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 20 | Expensed Expenditures   | 0.0                   | 86,263.0              | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 22 | <b><u>2012 Conservation - 2012\$\$</u></b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 23 | Capitalized Costs - Debt Service  | 0.0                   | 0.0                   | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 0.0                   | 0.0                   | 0.0                   |          |
| 24 | Expensed Expenditures   | 0.0                   | 0.0                   | 89,482.0              | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 27 | <b><u>2013 Conservation - 2013\$\$</u></b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 28 | Capitalized Costs - Debt Service  | 0.0                   | 0.0                   | 0.0                   | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 0.0                   | 0.0                   |          |
| 29 | Expensed Expenditures   | 0.0                   | 0.0                   | 0.0                   | 90,257.0              | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 32 | <b><u>2014 Conservation - 2014\$\$</u></b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 33 | Capitalized Costs - Debt Service  | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              |          |
| 34 | Expensed Expenditures   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 91,012.0              | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 37 | <b><u>2015 Conservation - 2015\$\$</u></b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 38 | Capitalized Costs - Debt Service  | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              | 11,101.0              |          |
| 39 | Expensed Expenditures   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 0.0                   | 91,945.9              | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 41 | <b>ANNUAL TOTALS</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 42 | <b>Capital Costs - Debt Service Requirements</b>  | 7,532.8               | 16,651.5              | 27,752.5              | 38,853.5              | 49,954.5              | 53,522.7              | 44,404.0              | 33,303.0              | 22,202.0              | 22,202.0              |          |
| 43 | <b>Expense Costs - Expensed in the Year Incurred</b>  | 85,546.0              | 86,263.0              | 89,482.0              | 90,257.0              | 91,012.0              | 91,945.9              | 0.0                   | 0.0                   | 0.0                   | 0.0                   |          |
| 45 |   | 850,884.4             | 93,078.8              | 102,914.5             | 117,234.5             | 129,110.5             | 140,966.5             | 145,468.6             | 44,404.0              | 33,303.0              | 22,202.0              | 22,202.0 |
| 47 | Page 2 of 5   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |

|     | A | B | C | D | E | F | G | H | I | J | K | L |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|
| 49  |   |   |   |   |   |   |   |   |   |   |   |   |
| 50  |   |   |   |   |   |   |   |   |   |   |   |   |
| 51  |   |   |   |   |   |   |   |   |   |   |   |   |
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| 62  |   |   |   |   |   |   |   |   |   |   |   |   |
| 63  |   |   |   |   |   |   |   |   |   |   |   |   |
| 64  |   |   |   |   |   |   |   |   |   |   |   |   |
| 65  |   |   |   |   |   |   |   |   |   |   |   |   |
| 66  |   |   |   |   |   |   |   |   |   |   |   |   |
| 67  |   |   |   |   |   |   |   |   |   |   |   |   |
| 68  |   |   |   |   |   |   |   |   |   |   |   |   |
| 69  |   |   |   |   |   |   |   |   |   |   |   |   |
| 70  |   |   |   |   |   |   |   |   |   |   |   |   |
| 71  |   |   |   |   |   |   |   |   |   |   |   |   |
| 72  |   |   |   |   |   |   |   |   |   |   |   |   |
| 73  |   |   |   |   |   |   |   |   |   |   |   |   |
| 74  |   |   |   |   |   |   |   |   |   |   |   |   |
| 75  |   |   |   |   |   |   |   |   |   |   |   |   |
| 76  |   |   |   |   |   |   |   |   |   |   |   |   |
| 77  |   |   |   |   |   |   |   |   |   |   |   |   |
| 78  |   |   |   |   |   |   |   |   |   |   |   |   |
| 79  |   |   |   |   |   |   |   |   |   |   |   |   |
| 80  |   |   |   |   |   |   |   |   |   |   |   |   |
| 81  |   |   |   |   |   |   |   |   |   |   |   |   |
| 82  |   |   |   |   |   |   |   |   |   |   |   |   |
| 83  |   |   |   |   |   |   |   |   |   |   |   |   |
| 84  |   |   |   |   |   |   |   |   |   |   |   |   |
| 85  |   |   |   |   |   |   |   |   |   |   |   |   |
| 86  |   |   |   |   |   |   |   |   |   |   |   |   |
| 87  |   |   |   |   |   |   |   |   |   |   |   |   |
| 88  |   |   |   |   |   |   |   |   |   |   |   |   |
| 89  |   |   |   |   |   |   |   |   |   |   |   |   |
| 90  |   |   |   |   |   |   |   |   |   |   |   |   |
| 91  |   |   |   |   |   |   |   |   |   |   |   |   |
| 92  |   |   |   |   |   |   |   |   |   |   |   |   |
| 93  |   |   |   |   |   |   |   |   |   |   |   |   |
| 94  |   |   |   |   |   |   |   |   |   |   |   |   |
| 95  |   |   |   |   |   |   |   |   |   |   |   |   |
| 96  |   |   |   |   |   |   |   |   |   |   |   |   |
| 97  |   |   |   |   |   |   |   |   |   |   |   |   |
| 98  |   |   |   |   |   |   |   |   |   |   |   |   |
| 99  |   |   |   |   |   |   |   |   |   |   |   |   |
| 100 |   |   |   |   |   |   |   |   |   |   |   |   |

Section 7(b)(2) Rate Test Study and Documentation  
Alternative Conservation Expense Accounting and Financing Treatments  
WP-10 Initial Rate Proposal

"Mock Program Case Treatment of 7(b)(2) Adjusted Conservation Amounts"

Amortization of Principal - Conservation Capital Expend. Bond Sinking Fund Payments  
Schedule of Conservation First Year Expensed Amounts  
(whole dollars)

| Cumulative                                       |             |            |            |             |             |             |             |            |            |            |            |   |
|--|-------------|------------|------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|---|
| Totals   | FY 2010     | FY 2011    | FY 2012    | FY 2013     | FY 2014     | FY 2015     | FY 2016     | FY 2017    | FY 2018    | FY 2019    |            |   |
| <b>2010 Conservation - 2010\$\$</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| Capital Expenditures - Amortization of Principal | 32,300,000  | 5,804,763  | 6,115,318  | 6,442,487   | 6,787,160   | 7,150,272   | 0           | 0          | 0          | 0          | 0          | 0 |
| Expensed Expenditures                            | 85,546,000  | 85,546,000 | 0          | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 0 |
| <b>2011 Conservation - 2011\$\$</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| Capital Expenditures - Amortization of Principal | 39,100,000  | 0          | 7,026,818  | 7,402,753   | 7,798,800   | 8,216,036   | 8,655,593   | 0          | 0          | 0          | 0          | 0 |
| Expensed Expenditures                            | 86,263,000  | 0          | 86,263,000 | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 0 |
| <b>2012 Conservation - 2012\$\$</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| Capital Expenditures - Amortization of Principal | 47,600,000  | 0          | 0          | 8,554,387   | 9,012,047   | 9,494,191   | 10,002,130  | 10,537,245 |            |            |            |   |
| Expensed Expenditures                            | 89,482,000  | 0          | 0          | 89,482,000  | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 0 |
| <b>2013 Conservation - 2013\$\$</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| Capital Expenditures - Amortization of Principal | 47,599,900  | 0          | 0          | 0           | 8,554,369   | 9,012,028   | 9,494,172   | 10,002,110 | 10,537,221 | 0          | 0          | 0 |
| Expensed Expenditures                            | 90,257,000  | 0          | 0          | 0           | 90,257,000  | 0           | 0           | 0          | 0          | 0          | 0          | 0 |
| <b>2014 Conservation - 2014\$\$</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| Capital Expenditures - Amortization of Principal | 47,600,000  | 0          | 0          | 0           | 0           | 8,554,387   | 9,012,047   | 9,494,191  | 10,002,130 | 10,537,245 |            |   |
| Expensed Expenditures                            | 91,012,000  | 0          | 0          | 0           | 0           | 91,012,000  | 0           | 0          | 0          | 0          | 0          | 0 |
| <b>2015 Conservation - 2015\$\$</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| Capital Expenditures - Amortization of Principal | 47,600,000  | 0          | 0          | 0           | 0           | 0           | 8,554,387   | 9,012,047  | 9,494,191  | 10,002,130 | 10,537,245 |   |
| Expensed Expenditures                            | 91,945,900  | 0          | 0          | 0           | 0           | 0           | 91,945,900  | 0          | 0          | 0          | 0          | 0 |
| <b>TOTALS AMORTIZATION OF PRINCIPAL</b>          | 261,799,900 | 5,804,763  | 13,142,136 | 22,399,627  | 32,152,376  | 42,426,914  | 45,718,329  | 39,045,593 | 30,033,542 | 20,539,375 | 10,537,245 |   |
|  | 261,799,900 |            |            |             |             |             |             |            |            |            |            |   |
| <b>TOTALS EXPENSED CONSERVATION</b>              | 534,505,900 | 85,546,000 | 86,263,000 | 89,482,000  | 90,257,000  | 91,012,000  | 91,945,900  | 0          | 0          | 0          | 0          | 0 |
|  | 534,505,900 |            |            |             |             |             |             |            |            |            |            |   |
| <b>TOTAL CONSERVATION PRINCIPAL</b>              |             |            |            |             |             |             |             |            |            |            |            |   |
| <b>AND EXPENSE COSTS</b>                         | 796,305,800 | 91,350,763 | 99,405,136 | 111,881,627 | 122,409,376 | 133,438,914 | 137,664,229 | 39,045,593 | 30,033,542 | 20,539,375 | 10,537,245 |   |
| <b>PERCENTAGE OF TOTAL PRINCIPAL</b>             |             |            |            |             |             |             |             |            |            |            |            |   |
| <b>AND EXPENSE COSTS PAID</b>                    |             | 11.47%     | 12.48%     | 14.05%      | 15.37%      | 16.76%      | 17.29%      | 4.90%      | 3.77%      | 2.58%      | 1.32%      |   |
| <b>CUMULATIVE PRINCIPAL AND</b>                  |             |            |            |             |             |             |             |            |            |            |            |   |
| <b>EXPENSE COSTS PAID</b>                        |             | 11.47%     | 23.95%     | 38.00%      | 53.37%      | 70.13%      | 87.42%      | 92.32%     | 96.09%     | 98.67%     | 99.99%     |   |
| <b>PERCENTAGE OF TOTAL PRINCIPLE</b>             |             |            |            |             |             |             |             |            |            |            |            |   |
| <b>PAID DURING THE RATE TEST PERIOD</b>          |             | 87.42%     |            |             |             |             |             |            |            |            |            |   |

|    | A  | B | C | D | E | F | G | H | I | J | K |
|----|--|---|---|---|---|---|---|---|---|---|---|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |   |   |   |   |   |   |   |   |   |   |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |   |   |   |   |   |   |   |   |   |   |
| 3  | WP-10 Initial Rate Proposal  |   |   |   |   |   |   |   |   |   |   |
| 5  | "Mock Program Case Treatment of 7(b)(2) Adjusted Conservation Amounts" |   |   |   |   |   |   |   |   |   |   |
| 7  | Amortization Schedules - Annual Capitalized Conservation Investments   |   |   |   |   |   |   |   |   |   |   |
| 9  | #1 2010 Conservation - 2010\$\$  |   |   |   |   |   |   |   |   |   |   |
| 10 | 7,532,813  |   |   |   |   |   |   |   |   |   |   |
| 11 | Conservation Fiscal Payment 0.0535 Principal                           |   |   |   |   |   |   |   |   |   |   |
| 12 | Capital Year Amount Interest Reduction Balance                         |   |   |   |   |   |   |   |   |   |   |
| 13 | Expenditures   |   |   |   |   |   |   |   |   |   |   |
| 14 | Amortization   |   |   |   |   |   |   |   |   |   |   |
| 15 | Schedule beginning balance 32,300,000                                  |   |   |   |   |   |   |   |   |   |   |
| 16 | 2010 7,532,813 1,728,050 5,804,763 26,495,237                          |   |   |   |   |   |   |   |   |   |   |
| 17 | 2011 7,532,813 1,417,495 6,115,318 20,379,919                          |   |   |   |   |   |   |   |   |   |   |
| 18 | 2012 7,532,813 1,090,326 6,442,487 13,937,432                          |   |   |   |   |   |   |   |   |   |   |
| 19 | 2013 7,532,813 745,653 6,787,160 7,150,272                             |   |   |   |   |   |   |   |   |   |   |
| 20 | 2014 7,532,812 382,540 7,150,272 0                                     |   |   |   |   |   |   |   |   |   |   |
| 21 | Totals 5,364,064 32,300,000 0  |   |   |   |   |   |   |   |   |   |   |
| 24 | #2 2011 Conservation - 2011\$\$  |   |   |   |   |   |   |   |   |   |   |
| 25 | 9,118,668  |   |   |   |   |   |   |   |   |   |   |
| 26 | Conservation Fiscal Payment 0.0535 Principal                           |   |   |   |   |   |   |   |   |   |   |
| 27 | Capital Year Amount Interest Reduction Balance                         |   |   |   |   |   |   |   |   |   |   |
| 28 | Expenditures   |   |   |   |   |   |   |   |   |   |   |
| 29 | Amortization beginning balance 39,100,000                              |   |   |   |   |   |   |   |   |   |   |
| 30 | Schedule 2011 9,118,668 2,091,850 7,026,818 32,073,182                 |   |   |   |   |   |   |   |   |   |   |
| 31 | 2012 9,118,668 1,715,915 7,402,753 24,670,429                          |   |   |   |   |   |   |   |   |   |   |
| 32 | 2013 9,118,668 1,319,868 7,798,800 16,871,629                          |   |   |   |   |   |   |   |   |   |   |
| 33 | 2014 9,118,668 902,632 8,216,036 8,655,593                             |   |   |   |   |   |   |   |   |   |   |
| 34 | 2015 9,118,667 463,074 8,655,593 0                                     |   |   |   |   |   |   |   |   |   |   |
| 35 | Totals 6,493,339 39,100,000 0  |   |   |   |   |   |   |   |   |   |   |
| 39 | #3 2012 Conservation - 2012\$\$  |   |   |   |   |   |   |   |   |   |   |
| 40 | 11,100,987   |   |   |   |   |   |   |   |   |   |   |
| 41 | Conservation Fiscal Payment 0.0535 Principal                           |   |   |   |   |   |   |   |   |   |   |
| 42 | Capital Year Amount Interest Reduction Balance                         |   |   |   |   |   |   |   |   |   |   |
| 43 | Expenditures   |   |   |   |   |   |   |   |   |   |   |
| 44 | Amortization beginning balance 47,600,000                              |   |   |   |   |   |   |   |   |   |   |
| 45 | Schedule 2012 11,100,987 2,546,600 8,554,387 39,045,613                |   |   |   |   |   |   |   |   |   |   |
| 46 | 2013 11,100,987 2,088,940 9,012,047 30,033,566                         |   |   |   |   |   |   |   |   |   |   |
| 47 | 2014 11,100,987 1,606,796 9,494,191 20,539,375                         |   |   |   |   |   |   |   |   |   |   |
| 48 | 2015 11,100,987 1,098,857 10,002,130 10,537,245                        |   |   |   |   |   |   |   |   |   |   |
| 49 | 2016 11,100,988 563,743 10,537,245 0                                   |   |   |   |   |   |   |   |   |   |   |
| 50 | Totals 7,904,936 47,600,000 0  |   |   |   |   |   |   |   |   |   |   |
| 57 | Page 4 of 5  |   |   |   |   |   |   |   |   |   |   |

|     |  |   |        |                   |           |            |   |   |   |   |            |
|-----|--|---|--------|-------------------|-----------|------------|---|---|---|---|------------|
|     | A  | B | C      | D                 | E         | F          | G | H | I | J | K          |
| 58  | Section 7(b)(2) Rate Test Study and Documentation                      |   |        |                   |           |            |   |   |   |   |            |
| 59  | Alternative Conservation Expense Accounting and Financing Treatments   |   |        |                   |           |            |   |   |   |   |            |
| 60  | WP-10 Initial Rate Proposal  |   |        |                   |           |            |   |   |   |   |            |
| 61  |  |   |        |                   |           |            |   |   |   |   |            |
| 62  | "Mock Program Case Treatment of 7(b)(2) Adjusted Conservation Amounts" |   |        |                   |           |            |   |   |   |   |            |
| 63  |  |   |        |                   |           |            |   |   |   |   |            |
| 64  | Amortization Schedules - Annual Capitalized Conservation Investments   |   |        |                   |           |            |   |   |   |   |            |
| 65  |  |   |        |                   |           |            |   |   |   |   |            |
| 66  | #4 2013 Conservation - 2013\$\$  |   |        |                   |           |            |   |   |   |   |            |
| 67  | 11,100,964   |   |        |                   |           |            |   |   |   |   |            |
| 68  | Conservation   |   | Fiscal | Payment           | 0.0535    | Principal  |   |   |   |   |            |
| 69  | Capital  |   | Year   | Amount            | Interest  | Reduction  |   |   |   |   | Balance    |
| 70  | Expenditures   |   |        |                   |           |            |   |   |   |   |            |
| 71  | Amortization   |   |        | beginning balance |           |            |   |   |   |   | 47,599,900 |
| 72  | Schedule   |   | 2013   | 11,100,964        | 2,546,595 | 8,554,369  |   |   |   |   | 39,045,531 |
| 73  |  |   | 2014   | 11,100,964        | 2,088,936 | 9,012,028  |   |   |   |   | 30,033,503 |
| 74  |  |   | 2015   | 11,100,964        | 1,606,792 | 9,494,172  |   |   |   |   | 20,539,331 |
| 75  |  |   | 2016   | 11,100,964        | 1,098,854 | 10,002,110 |   |   |   |   | 10,537,221 |
| 76  |  |   | 2017   | 11,100,962        | 563,741   | 10,537,221 |   |   |   |   | 0          |
| 77  |  |   |        |                   |           |            |   |   |   |   |            |
| 78  |  |   | Totals |                   | 7,904,918 | 47,599,900 |   |   |   |   | 0          |
| 79  |  |   |        |                   |           |            |   |   |   |   |            |
| 80  |  |   |        |                   |           |            |   |   |   |   |            |
| 81  | #5 2014 Conservation - 2014\$\$  |   |        |                   |           |            |   |   |   |   |            |
| 82  | 11,100,987   |   |        |                   |           |            |   |   |   |   |            |
| 83  | Conservation   |   | Fiscal | Payment           | 0.0535    | Principal  |   |   |   |   |            |
| 84  | Capital  |   | Year   | Amount            | Interest  | Reduction  |   |   |   |   | Balance    |
| 85  | Expenditures   |   |        |                   |           |            |   |   |   |   |            |
| 86  | Amortization   |   |        | beginning balance |           |            |   |   |   |   | 47,600,000 |
| 87  | Schedule   |   | 2014   | 11,100,987        | 2,546,600 | 8,554,387  |   |   |   |   | 39,045,613 |
| 88  |  |   | 2015   | 11,100,987        | 2,088,940 | 9,012,047  |   |   |   |   | 30,033,566 |
| 89  |  |   | 2016   | 11,100,987        | 1,606,796 | 9,494,191  |   |   |   |   | 20,539,375 |
| 90  |  |   | 2017   | 11,100,987        | 1,098,857 | 10,002,130 |   |   |   |   | 10,537,245 |
| 91  |  |   | 2018   | 11,100,988        | 563,743   | 10,537,245 |   |   |   |   | 0          |
| 92  |  |   |        |                   |           |            |   |   |   |   |            |
| 93  |  |   | Totals |                   | 7,904,936 | 47,600,000 |   |   |   |   | 0          |
| 94  |  |   |        |                   |           |            |   |   |   |   |            |
| 95  |  |   |        |                   |           |            |   |   |   |   |            |
| 96  | #6 2015 Conservation - 2015\$\$  |   |        |                   |           |            |   |   |   |   |            |
| 97  | 11,100,987   |   |        |                   |           |            |   |   |   |   |            |
| 98  | Conservation   |   | Fiscal | Payment           | 0.0535    | Principal  |   |   |   |   |            |
| 99  | Capital  |   | Year   | Amount            | Interest  | Reduction  |   |   |   |   | Balance    |
| 100 | Expenditures   |   |        |                   |           |            |   |   |   |   |            |
| 101 | Amortization   |   |        | beginning balance |           |            |   |   |   |   | 47,600,000 |
| 102 | Schedule   |   | 2015   | 11,100,987        | 2,546,600 | 8,554,387  |   |   |   |   | 39,045,613 |
| 103 |  |   | 2016   | 11,100,987        | 2,088,940 | 9,012,047  |   |   |   |   | 30,033,566 |
| 104 |  |   | 2017   | 11,100,987        | 1,606,796 | 9,494,191  |   |   |   |   | 20,539,375 |
| 105 |  |   | 2018   | 11,100,987        | 1,098,857 | 10,002,130 |   |   |   |   | 10,537,245 |
| 106 |  |   | 2019   | 11,100,988        | 563,743   | 10,537,245 |   |   |   |   | 0          |
| 107 |  |   |        |                   |           |            |   |   |   |   |            |
| 108 |  |   | Totals |                   | 7,904,936 | 47,600,000 |   |   |   |   | 0          |
| 109 |  |   |        |                   |           |            |   |   |   |   |            |
| 110 |  |   |        |                   |           |            |   |   |   |   |            |
| 111 | Page 5 of 5  |   |        |                   |           |            |   |   |   |   |            |
| 112 |  |   |        |                   |           |            |   |   |   |   |            |
| 113 |  |   |        |                   |           |            |   |   |   |   |            |
| 114 |  |   |        |                   |           |            |   |   |   |   |            |



|    | A  | B | C | D | E | F | G | H | I | J | K |
|----|--|---|---|---|---|---|---|---|---|---|---|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |   |   |   |   |   |   |   |   |   |   |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |   |   |   |   |   |   |   |   |   |   |
| 3  | WP-10 Initial Rate Proposal  |   |   |   |   |   |   |   |   |   |   |
| 4  |  |   |   |   |   |   |   |   |   |   |   |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |   |   |   |   |   |   |   |   |   |   |
| 6  | Expensed costs are expensed in the year incurred (1st year)            |   |   |   |   |   |   |   |   |   |   |
| 7  |  |   |   |   |   |   |   |   |   |   |   |
| 8  | ALTERNATIVE - 1  |   |   |   |   |   |   |   |   |   |   |
| 9  |  |   |   |   |   |   |   |   |   |   |   |
| 10 |  |   |   |   |   |   |   |   |   |   |   |
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|    | L  | M | N | O | P | Q | R | S | T | U | V | W |
|----|--|---|---|---|---|---|---|---|---|---|---|---|
| 1  | <p align="center"><b>Section 7(b)(2) Rate Test Study and Documentation</b><br/> <b>Alternative Conservation Expense Accounting and Financing Treatments</b><br/> <b>WP-10 Initial Rate Proposal</b></p> <p align="center"><b>Scenario = Capitalized costs are amortized and financed over 15 years,</b><br/> <b>Expensed costs are expensed in the year incurred (1st year)</b></p> <p align="center"><b>ALTERNATIVE - 1</b></p> |   |   |   |   |   |   |   |   |   |   |   |
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|    | X  | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI |
|----|--|---|---|----|----|----|----|----|----|----|----|----|
| 1  | <p align="center"><b>Section 7(b)(2) Rate Test Study and Documentation</b><br/> <b>Alternative Conservation Expense Accounting and Financing Treatments</b><br/> <b>WP-10 Initial Rate Proposal</b></p> <p align="center"><b>Scenario = Capitalized costs are amortized and financed over 15 years,</b><br/> <b>Expensed costs are expensed in the year incurred (1st year)</b></p> <p align="center"><b>ALTERNATIVE - 1</b></p> |   |   |    |    |    |    |    |    |    |    |    |
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|     | A  | B  | C            | D            | E | F        | G                | H                | I               | J                 | K             |
|-----|--|--|--------------|--------------|---|----------|------------------|------------------|-----------------|-------------------|---------------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |  |              |              |   |          |                  |                  |                 |                   |               |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |  |              |              |   |          |                  |                  |                 |                   |               |
| 68  | WP-10 Initial Rate Proposal  |  |              |              |   |          |                  |                  |                 |                   |               |
| 69  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |              |              |   |          |                  |                  |                 |                   |               |
| 71  | Expensed costs are expensed in the year incurred (1st year)            |  |              |              |   |          |                  |                  |                 |                   |               |
| 72  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 73  | ALTERNATIVE - 1  |  |              |              |   |          |                  |                  |                 |                   |               |
| 74  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 75  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 76  | Res.   |  |              | Conservation |   | Amount   | Amount           |                  | NET             |                   | Annual        |
| 77  | Stack  |  |              | Savings      |   | Revenue  | Capitalized      |                  | Annual          |                   | Debt service  |
| 78  | Order  |  | Vintage Year | aMW          |   | Expensed | & Debt           |                  | Expenditures    |                   | Whole         |
| 79  |  |  |              |              |   |          | Financed         |                  |                 |                   | Dollars       |
| 80  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 81  | <b>FY 2011 Conservation Resources Selected</b>                         |  |              |              |   |          |                  |                  |                 |                   |               |
| 82  |  | 2015 Conservation - 2010\$\$                       |              | 38.8         |   | 83,126.7 | 43,034.3         |                  | 126,161.1       |                   |               |
| 83  | <b>13</b>  | <b>2015 Conservation - 2011\$\$</b>                |              |              |   | 84,808.5 | 43,905.0         |                  | 128,713.5       |                   |               |
| 84  |  | Capitalized Costs - Debt Service Requirements      |              |              |   |          |                  |                  |                 |                   | 4,107,859.76  |
| 85  |  | Expensed Costs /Deferral Debt Service Requirements |              |              |   |          |                  |                  |                 |                   | 84,808,500.00 |
| 86  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 87  | <b>FY 2012 Conservation Resources Selected</b>                         |  |              |              |   |          |                  |                  |                 |                   |               |
| 88  |  | 2014 Conservation - 2010\$\$                       |              | 38.8         |   | 83,935.2 | 43,898.8         |                  | 127,833.9       |                   |               |
| 89  | <b>14</b>  | <b>2014 Conservation - 2012\$\$</b>                |              |              |   | 87,425.4 | 45,724.2         |                  | 133,149.6       |                   |               |
| 90  |  | Capitalized Costs - Debt Service Requirements      |              |              |   |          |                  |                  |                 |                   | 4,278,068.59  |
| 91  |  | Expensed Costs /Deferral Debt Service Requirements |              |              |   |          |                  |                  |                 |                   | 87,425,400.00 |
| 92  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 93  | <b>FY 2013 Conservation Resources Selected</b>                         |  |              |              |   |          |                  |                  |                 |                   |               |
| 94  |  | 2013 Conservation - 2010\$\$                       |              | 38.8         |   | 84,924.7 | 44,787.8         |                  | 129,712.6       |                   |               |
| 95  | <b>15</b>  | <b>2013 Conservation - 2013\$\$</b>                |              |              |   | 90,257.0 | 47,599.9         |                  | 137,856.9       |                   |               |
| 96  |  | Capitalized Costs - Debt Service Requirements      |              |              |   |          |                  |                  |                 |                   | 4,453,563.69  |
| 97  |  | Expensed Costs /Deferral Debt Service Requirements |              |              |   |          |                  |                  |                 |                   | 90,257,000.00 |
| 98  |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 99  | <b>FY 2014 Conservation Resources Selected</b>                         |  |              |              |   |          |                  |                  |                 |                   |               |
| 100 |  | 2012 Conservation - 2010\$\$                       |              | 38.8         |   | 85,909.7 | 45,699.7         |                  | 131,609.5       |                   |               |
| 101 | <b>16</b>  | <b>2012 Conservation - 2014\$\$</b>                |              |              |   | 93,153.0 | 49,552.8         |                  | 142,705.8       |                   |               |
| 102 |  | Capitalized Costs - Debt Service Requirements      |              |              |   |          |                  |                  |                 |                   | 4,636,281.82  |
| 103 |  | Expensed Costs /Deferral Debt Service Requirements |              |              |   |          |                  |                  |                 |                   | 93,153,000.00 |
| 104 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 105 | <b>FY 2015 Conservation Resources Selected</b>                         |  |              |              |   |          |                  |                  |                 |                   |               |
| 106 |  | 2011 Conservation - 2010\$\$                       |              | 34.6         |   | 84,552.3 | 38,324.6         |                  | 122,876.9       |                   |               |
| 107 | <b>17</b>  | <b>2011 Conservation - 2015\$\$</b>                |              |              |   | 93,522.8 | 42,390.6         |                  | 135,913.4       |                   |               |
| 108 |  | Capitalized Costs - Debt Service Requirements      |              |              |   |          |                  |                  |                 |                   | 3,966,168.77  |
| 109 |  | Expensed Costs /Deferral Debt Service Requirements |              |              |   |          |                  |                  |                 |                   | 93,522,800.00 |
| 110 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 111 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 112 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 113 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 114 | <b>TOTAL Capital Costs - Debt Ser. Req. = TCC</b>                      |  |              |              |   |          | <b>Principal</b> | <b>Principal</b> | <b>Interest</b> | <b>Cumulative</b> |               |
| 115 | <b>TOTAL Expense Costs - Debt Serv. Req. = TEC</b>                     |  |              |              |   |          | <b>Expensed</b>  | <b>Capital</b>   | <b>Paid</b>     | <b>Totals</b>     |               |
| 116 |  |  |              |              |   |          | <b>Costs</b>     | <b>Costs</b>     |                 |                   |               |
| 117 | <b>TOTAL DEBT SERVICE REQUIREMENTS = TDSR</b>                          |  |              |              |   |          | 774,228.8        | 394,638.7        | 159,215.3       | 553,854.0         |               |
| 118 |  |  |              |              |   |          |                  |                  | 0.0             | 774,228.8         |               |
| 119 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 120 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 121 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 122 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 123 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 124 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 125 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 126 |  |  |              |              |   |          |                  |                  |                 |                   |               |
| 127 |  |  |              |              |   |          |                  |                  |                 |                   |               |

|     | L   | M                                   | N              | O              | P              | Q              | R              | S              | T              | U              | V              | W        |
|-----|---|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation<br>Alternative Conservation Expense Accounting and Financing Treatments<br>WP-10 Initial Rate Proposal<br><br>Scenario = Capitalized costs are amortized and financed over 15 years,<br>Expensed costs are expensed in the year incurred (1st year) |                                     |                |                |                |                |                |                |                |                |                |          |
| 67  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 68  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 69  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 70  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 71  | Scenario = Capitalized costs are amortized and financed over 15 years,<br>Expensed costs are expensed in the year incurred (1st year)   |                                     |                |                |                |                |                |                |                |                |                |          |
| 72  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 73  | ALTERNATIVE - 1   |                                     |                |                |                |                |                |                |                |                |                |          |
| 74  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)   |                                     |                |                |                |                |                |                |                |                |                |          |
| 76  | Res.  |                                     |                |                |                |                |                |                |                |                |                |          |
| 77  | Stack   |                                     |                |                |                |                |                |                |                |                |                |          |
| 78  | Order   | <u>FY 2010</u>                      | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> |          |
| 79  |   | 1                                   | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             |          |
| 80  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 81  | <u>FY 2011 Conservation Resources Selected</u>  |                                     |                |                |                |                |                |                |                |                |                |          |
| 82  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 83  | <u>13</u>   | <u>2015 Conservation - 2011\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 84  |   | 0.0                                 | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9  |
| 85  |   | 0.0                                 | 84,808.5       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 86  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 87  | <u>FY 2012 Conservation Resources Selected</u>  |                                     |                |                |                |                |                |                |                |                |                |          |
| 88  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 89  | <u>14</u>   | <u>2014 Conservation - 2012\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 90  |   | 0.0                                 | 0.0            | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1  |
| 91  |   | 0.0                                 | 0.0            | 87,425.4       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 92  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 93  | <u>FY 2013 Conservation Resources Selected</u>  |                                     |                |                |                |                |                |                |                |                |                |          |
| 94  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 95  | <u>15</u>   | <u>2013 Conservation - 2013\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 96  |   | 0.0                                 | 0.0            | 0.0            | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6  |
| 97  |   | 0.0                                 | 0.0            | 0.0            | 90,257.0       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 98  |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 99  | <u>FY 2014 Conservation Resources Selected</u>  |                                     |                |                |                |                |                |                |                |                |                |          |
| 100 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 101 | <u>16</u>   | <u>2012 Conservation - 2014\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 102 |   | 0.0                                 | 0.0            | 0.0            | 0.0            | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3  |
| 103 |   | 0.0                                 | 0.0            | 0.0            | 0.0            | 93,153.0       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 104 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 105 | <u>FY 2015 Conservation Resources Selected</u>  |                                     |                |                |                |                |                |                |                |                |                |          |
| 106 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 107 | <u>17</u>   | <u>2011 Conservation - 2015\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 108 |   | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2  |
| 109 |   | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 93,522.8       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 110 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 111 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 112 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 113 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 114 | TCC   | 15,481.5                            | 19,589.4       | 23,867.5       | 28,321.1       | 32,957.4       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6 |
| 115 | TEC   | 325,062.1                           | 84,808.5       | 87,425.4       | 90,257.0       | 93,153.0       | 93,522.8       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 116 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 117 | TDSR  | 340,543.6                           | 104,397.9      | 111,292.9      | 118,578.1      | 126,110.4      | 130,446.4      | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6 |
| 118 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 119 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 120 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 121 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 122 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 123 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 124 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 125 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 126 |   |                                     |                |                |                |                |                |                |                |                |                |          |
| 127 |   |                                     |                |                |                |                |                |                |                |                |                |          |

|     | X  | Y  | Z              | AA             | AB             | AC             | AD             | AE             | AF             | AG             | AH             | AI |
|-----|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |  |                |                |                |                |                |                |                |                |                |    |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |  |                |                |                |                |                |                |                |                |                |    |
| 68  | WP-10 Initial Rate Proposal  |  |                |                |                |                |                |                |                |                |                |    |
| 69  |  |  |                |                |                |                |                |                |                |                |                |    |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |                |                |                |                |                |                |                |                |                |    |
| 71  | Expensed costs are expensed in the year incurred (1st year)            |  |                |                |                |                |                |                |                |                |                |    |
| 72  |  |  |                |                |                |                |                |                |                |                |                |    |
| 73  | ALTERNATIVE - 1  |  |                |                |                |                |                |                |                |                |                |    |
| 74  |  |  |                |                |                |                |                |                |                |                |                |    |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |  |                |                |                |                |                |                |                |                |                |    |
| 76  | Res.   |  |                |                |                |                |                |                |                |                |                |    |
| 77  | Stack  |  |                |                |                |                |                |                |                |                |                |    |
| 78  | Order  | <u>FY 2020</u>                             | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>FY 2027</u> | <u>FY 2028</u> | <u>FY 2029</u> |    |
| 79  |  | 11   | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             | 20             |    |
| 80  |  |  |                |                |                |                |                |                |                |                |                |    |
| 81  | <b><u>FY 2011 Conservation Resources Selected</u></b>                  |  |                |                |                |                |                |                |                |                |                |    |
| 82  |  |  |                |                |                |                |                |                |                |                |                |    |
| 83  | <b>13</b>  | <b><u>2015 Conservation - 2011\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 84  |  | 4,107.9                                    | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        |                |                |                |                |    |
| 85  |  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |    |
| 86  |  |  |                |                |                |                |                |                |                |                |                |    |
| 87  | <b><u>FY 2012 Conservation Resources Selected</u></b>                  |  |                |                |                |                |                |                |                |                |                |    |
| 88  |  |  |                |                |                |                |                |                |                |                |                |    |
| 89  | <b>14</b>  | <b><u>2014 Conservation - 2012\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 90  |  | 4,278.1                                    | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        |                |                |                |    |
| 91  |  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |    |
| 92  |  |  |                |                |                |                |                |                |                |                |                |    |
| 93  | <b><u>FY 2013 Conservation Resources Selected</u></b>                  |  |                |                |                |                |                |                |                |                |                |    |
| 94  |  |  |                |                |                |                |                |                |                |                |                |    |
| 95  | <b>15</b>  | <b><u>2013 Conservation - 2013\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 96  |  | 4,453.6                                    | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        |                |                |    |
| 97  |  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |    |
| 98  |  |  |                |                |                |                |                |                |                |                |                |    |
| 99  | <b><u>FY 2014 Conservation Resources Selected</u></b>                  |  |                |                |                |                |                |                |                |                |                |    |
| 100 |  |  |                |                |                |                |                |                |                |                |                |    |
| 101 | <b>16</b>  | <b><u>2012 Conservation - 2014\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 102 |  | 4,636.3                                    | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        |                |    |
| 103 |  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |    |
| 104 |  |  |                |                |                |                |                |                |                |                |                |    |
| 105 | <b><u>FY 2015 Conservation Resources Selected</u></b>                  |  |                |                |                |                |                |                |                |                |                |    |
| 106 |  |  |                |                |                |                |                |                |                |                |                |    |
| 107 | <b>17</b>  | <b><u>2011 Conservation - 2015\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 108 |  | 3,966.2                                    | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        |    |
| 109 |  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |    |
| 110 |  |  |                |                |                |                |                |                |                |                |                |    |
| 111 |  |  |                |                |                |                |                |                |                |                |                |    |
| 112 |  |  |                |                |                |                |                |                |                |                |                |    |
| 113 |  |  |                |                |                |                |                |                |                |                |                |    |
| 114 | <b>TCC</b>   | 36,923.6                                   | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |    |
| 115 | <b>TEC</b>   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |    |
| 116 |  |  |                |                |                |                |                |                |                |                |                |    |
| 117 | <b>TDSR</b>  | 36,923.6                                   | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |    |
| 118 |  |  |                |                |                |                |                |                |                |                |                |    |
| 119 |  |  |                |                |                |                |                |                |                |                |                |    |
| 120 |  |  |                |                |                |                |                |                |                |                |                |    |
| 121 |  |  |                |                |                |                |                |                |                |                |                |    |
| 122 |  |  |                |                |                |                |                |                |                |                |                |    |
| 123 |  |  |                |                |                |                |                |                |                |                |                |    |
| 124 |  |  |                |                |                |                |                |                |                |                |                |    |
| 125 |  |  |                |                |                |                |                |                |                |                |                |    |
| 126 |  |  |                |                |                |                |                |                |                |                |                |    |
| 127 |  |  |                |                |                |                |                |                |                |                |                |    |

|    | A   | B   | C                   | D  | E              | F              | G              | H              | I              | J              | K              | L              |
|----|---|---|---------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1  |   |   |                     | Section 7(b)(2) Rate Test Study and Documentation                    |                |                |                |                |                |                |                |                |
| 2  |   |   |                     | Alternative Conservation Expense Accounting and Financing Treatments |                |                |                |                |                |                |                |                |
| 3  |   |   |                     | WP-10 Initial Rate Proposal  |                |                |                |                |                |                |                |                |
| 5  |   |   |                     | Scenario = Capitalized costs amortized / financed over 15 years,     |                |                |                |                |                |                |                |                |
| 6  |   |   |                     | = Expensed costs are expensed in the year incurred (1st year)        |                |                |                |                |                |                |                |                |
| 8  |   |   |                     | ALTERNATIVE - 1  |                |                |                |                |                |                |                |                |
| 10 |   |   |                     | Amortization of Principal - (whole dollars)                          |                |                |                |                |                |                |                |                |
| 11 | Res.  |   |                     | <u>Total</u>   |                |                |                |                |                |                |                |                |
| 12 | Stack   |   |                     | <u>Amortization</u>  |                |                |                |                |                |                |                |                |
| 13 | <u>Order</u>  |   | <u>Vintage Year</u> | <u>of Principal</u>  | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> |
| 13 | <b><u>FY 2010 Conservation Resources Selected</u></b> |   |                     |  |                |                |                |                |                |                |                |                |
| 14 | FY 2010   | Conservation (9) Res. Selected - Total MW = |                     | 255  |                |                |                |                |                |                |                |                |
| 15 | <b>1</b>  | <b><u>2004 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 16 |   | Capital Expenditures - Amort. of Principal  |                     | 22,723,700   | 1,087,612      | 1,137,316      | 1,189,291      | 1,243,642      | 1,300,476      | 1,359,908      | 1,422,056      | 1,487,044      |
| 17 |   | Expense Expenditures - Amort. of Principal  |                     | 18,502,000   | 18,502,000     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 18 | <b>2</b>  | <b><u>2001 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 19 |   | Capital Expenditures - Amort. of Principal  |                     | 71,200   | 3,408          | 3,564          | 3,727          | 3,897          | 4,075          | 4,261          | 4,456          | 4,660          |
| 20 |   | Expense Expenditures - Amort. of Principal  |                     | 24,855,200   | 24,855,200     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 21 | <b>4</b>  | <b><u>2006 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 22 |   | Capital Expenditures - Amort. of Principal  |                     | 16,438,000   | 786,763        | 822,718        | 860,317        | 899,633        | 940,746        | 983,738        | 1,028,695      | 1,075,707      |
| 23 |   | Expense Expenditures - Amort. of Principal  |                     | 30,761,100   | 30,761,100     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 24 | <b>5</b>  | <b><u>2007 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 25 |   | Capital Expenditures - Amort. of Principal  |                     | 11,453,500   | 548,193        | 573,245        | 599,443        | 626,837        | 655,484        | 685,439        | 716,764        | 749,520        |
| 26 |   | Expense Expenditures - Amort. of Principal  |                     | 41,499,700   | 41,499,700     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 27 | <b>6</b>  | <b><u>2003 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 28 |   | Capital Expenditures - Amort. of Principal  |                     | 27,500,100   | 1,316,222      | 1,376,374      | 1,439,274      | 1,505,049      | 1,573,830      | 1,645,754      | 1,720,965      | 1,799,613      |
| 29 |   | Expense Expenditures - Amort. of Principal  |                     | 20,758,300   | 20,758,300     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 30 | <b>7</b>  | <b><u>2005 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 31 |   | Capital Expenditures - Amort. of Principal  |                     | 16,719,500   | 800,237        | 836,808        | 875,050        | 915,040        | 956,857        | 1,000,585      | 1,046,312      | 1,094,128      |
| 32 |   | Expense Expenditures - Amort. of Principal  |                     | 25,443,000   | 25,443,000     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 33 | <b>8</b>  | <b><u>2002 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 34 |   | Capital Expenditures - Amort. of Principal  |                     | 34,586,600   | 1,655,399      | 1,731,051      | 1,810,160      | 1,892,884      | 1,979,389      | 2,069,847      | 2,164,439      | 2,263,354      |
| 35 |   | Expense Expenditures - Amort. of Principal  |                     | 21,005,400   | 21,005,400     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 36 | <b>9</b>  | <b><u>2008 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 37 |   | Capital Expenditures - Amort. of Principal  |                     | 8,214,000  | 393,142        | 411,109        | 429,896        | 449,543        | 470,087        | 491,570        | 514,035        | 537,526        |
| 38 |   | Expense Expenditures - Amort. of Principal  |                     | 65,070,900   | 65,070,900     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 39 | <b>12</b>   | <b><u>2009 Conservation - 2010\$\$</u></b>  |                     |  |                |                |                |                |                |                |                |                |
| 40 |   | Capital Expenditures - Amort. of Principal  |                     | 27,759,600   | 1,328,642      | 1,389,361      | 1,452,855      | 1,519,250      | 1,588,680      | 1,661,283      | 1,737,204      | 1,816,594      |
| 41 |   | Expense Expenditures - Amort. of Principal  |                     | 77,166,500   | 77,166,500     | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 42 |   |   |                     |  |                |                |                |                |                |                |                |                |
| 43 |   |   |                     |  |                |                |                |                |                |                |                |                |
| 44 |   |   |                     |  |                |                |                |                |                |                |                |                |
| 45 |   |   |                     |  |                |                |                |                |                |                |                |                |

|    | A       | B | C  | M         | N         | O         | P         | Q         | R         | S         | T       | U       | V       | W       | X       |
|----|---------|---|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|
| 1  |         |   | Section 7(b)(2) Rate Test Study and Documentation                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 2  |         |   | Alternative Conservation Expense Accounting and Financing Treatments |           |           |           |           |           |           |           |         |         |         |         |         |
| 3  |         |   | WP-10 Initial Rate Proposal  |           |           |           |           |           |           |           |         |         |         |         |         |
| 5  |         |   | Scenario = Capitalized costs amortized / financed over 15 years,     |           |           |           |           |           |           |           |         |         |         |         |         |
| 6  |         |   | = Expensed costs are expensed in the year incurred (1st year)        |           |           |           |           |           |           |           |         |         |         |         |         |
| 8  |         |   | ALTERNATIVE - 1  |           |           |           |           |           |           |           |         |         |         |         |         |
| 10 |         |   | Amortization of Principal - (whole dollars)                          |           |           |           |           |           |           |           |         |         |         |         |         |
|    | Res.    |   |  |           |           |           |           |           |           |           |         |         |         |         |         |
|    | Stack   |   |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 11 | Order   |   | Vintage Year   |           |           |           |           |           |           |           |         |         |         |         |         |
| 12 |         |   |  | FY 2018   | FY 2019   | FY 2020   | FY 2021   | FY 2022   | FY 2023   | FY 2024   | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |
| 13 |         |   | <b>FY 2010 Conservation Resources Selected</b>                       |           |           |           |           |           |           |           |         |         |         |         |         |
| 14 | FY 2010 |   | Conservation (9) Res. Selected - Total MW =                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 15 | 1       |   | <b>2004 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 16 |         |   | Capital Expenditures - Amort. of Principal                           | 1,555,002 | 1,626,065 | 1,700,376 | 1,778,084 | 1,859,342 | 1,944,314 | 2,033,172 |         |         |         |         |         |
| 17 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 18 | 2       |   | <b>2001 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 19 |         |   | Capital Expenditures - Amort. of Principal                           | 4,873     | 5,095     | 5,328     | 5,572     | 5,826     | 6,093     | 6,365     |         |         |         |         |         |
| 20 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 21 | 4       |   | <b>2006 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 22 |         |   | Capital Expenditures - Amort. of Principal                           | 1,124,866 | 1,176,273 | 1,230,029 | 1,286,241 | 1,345,022 | 1,406,490 | 1,470,762 |         |         |         |         |         |
| 23 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 24 | 5       |   | <b>2007 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 25 |         |   | Capital Expenditures - Amort. of Principal                           | 783,773   | 819,592   | 857,047   | 896,214   | 937,171   | 980,000   | 1,024,778 |         |         |         |         |         |
| 26 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 27 | 6       |   | <b>2003 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 28 |         |   | Capital Expenditures - Amort. of Principal                           | 1,881,855 | 1,967,856 | 2,057,787 | 2,151,828 | 2,250,166 | 2,352,999 | 2,460,528 |         |         |         |         |         |
| 29 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 30 | 7       |   | <b>2005 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 31 |         |   | Capital Expenditures - Amort. of Principal                           | 1,144,130 | 1,196,417 | 1,251,093 | 1,308,268 | 1,368,056 | 1,430,576 | 1,495,943 |         |         |         |         |         |
| 32 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 33 | 8       |   | <b>2002 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 34 |         |   | Capital Expenditures - Amort. of Principal                           | 2,366,789 | 2,474,952 | 2,588,057 | 2,706,331 | 2,830,011 | 2,959,342 | 3,094,595 |         |         |         |         |         |
| 35 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 36 | 9       |   | <b>2008 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 37 |         |   | Capital Expenditures - Amort. of Principal                           | 562,091   | 587,778   | 614,640   | 642,729   | 672,102   | 702,817   | 734,935   |         |         |         |         |         |
| 38 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 39 | 12      |   | <b>2009 Conservation - 2010\$\$</b>                                  |           |           |           |           |           |           |           |         |         |         |         |         |
| 40 |         |   | Capital Expenditures - Amort. of Principal                           | 1,899,612 | 1,986,424 | 2,077,204 | 2,172,132 | 2,271,399 | 2,375,202 | 2,483,758 |         |         |         |         |         |
| 41 |         |   | Expense Expenditures - Amort. of Principal                           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 42 |         |   |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 43 |         |   |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 44 |         |   |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 45 |         |   |  |           |           |           |           |           |           |           |         |         |         |         |         |



|    | A   | B  | C            | D  | E           | F          | G           | H           | I           | J           | K          | L          |
|----|---|--|--------------|--|-------------|------------|-------------|-------------|-------------|-------------|------------|------------|
| 46 |   |  |              | Section 7(b)(2) Rate Test Study and Documentation                    |             |            |             |             |             |             |            |            |
| 47 |   |  |              | Alternative Conservation Expense Accounting and Financing Treatments |             |            |             |             |             |             |            |            |
| 48 |   |  |              | WP-10 Initial Rate Proposal  |             |            |             |             |             |             |            |            |
| 49 |   |  |              | Scenario = Capitalized costs amortized / financed over 15 years,     |             |            |             |             |             |             |            |            |
| 50 |   |  |              | = Expensed costs are expensed in the year incurred (1st year)        |             |            |             |             |             |             |            |            |
| 51 |   |  |              |  |             |            |             |             |             |             |            |            |
| 52 |   |  |              | ALTERNATIVE - 1  |             |            |             |             |             |             |            |            |
| 53 |   |  |              |  |             |            |             |             |             |             |            |            |
| 54 |   |  |              | Amortization of Principal - (whole dollars)                          |             |            |             |             |             |             |            |            |
| 55 |   |  |              |  |             |            |             |             |             |             |            |            |
| 56 | Res.  | Stack                                      |              |  |             |            |             |             |             |             |            |            |
| 57 | Order   |  | Vintage Year | Total Amortization   |             |            |             |             |             |             |            |            |
| 58 |   |  |              | of Principal   | FY 2010     | FY 2011    | FY 2012     | FY 2013     | FY 2014     | FY 2015     | FY 2016    | FY 2017    |
| 59 | FY 2011                                       | Conservation Resources Selected            |              |  |             |            |             |             |             |             |            |            |
| 60 | 13  | 2015 Conservation - 2011\$\$               |              |  |             |            |             |             |             |             |            |            |
| 61 |   | Capital Expenditures - Amort. of Principal |              | 43,905,000   | 0           | 2,101,401  | 2,197,436   | 2,297,858   | 2,402,870   | 2,512,682   | 2,627,511  | 2,747,588  |
| 62 |   | Expense Expenditures - Amort. of Principal |              | 84,808,500   | 0           | 84,808,500 | 0           | 0           | 0           | 0           | 0          | 0          |
| 63 | FY 2012                                       | Conservation Resources Selected            |              |  |             |            |             |             |             |             |            |            |
| 64 | 14  | 2014 Conservation - 2012\$\$               |              |  |             |            |             |             |             |             |            |            |
| 65 |   | Capital Expenditures - Amort. of Principal |              | 45,724,200   | 0           | 0          | 2,188,473   | 2,288,486   | 2,393,070   | 2,502,433   | 2,616,795  | 2,736,382  |
| 66 |   | Expense Expenditures - Amort. of Principal |              | 87,425,400   | 0           | 0          | 87,425,400  | 0           | 0           | 0           | 0          | 0          |
| 67 | FY 2013                                       | Conservation Resources Selected            |              |  |             |            |             |             |             |             |            |            |
| 68 | 15  | 2013 Conservation - 2013\$\$               |              |  |             |            |             |             |             |             |            |            |
| 69 |   | Capital Expenditures - Amort. of Principal |              | 47,599,900   | 0           | 0          | 0           | 2,278,249   | 2,382,365   | 2,491,239   | 2,605,088  | 2,724,141  |
| 70 |   | Expense Expenditures - Amort. of Principal |              | 90,257,000   | 0           | 0          | 0           | 90,257,000  | 0           | 0           | 0          | 0          |
| 71 | FY 2014                                       | Conservation Resources Selected            |              |  |             |            |             |             |             |             |            |            |
| 72 | 16  | 2012 Conservation - 2014\$\$               |              |  |             |            |             |             |             |             |            |            |
| 73 |   | Capital Expenditures - Amort. of Principal |              | 49,552,800   | 0           | 0          | 0           | 0           | 2,371,719   | 2,480,107   | 2,593,447  | 2,711,968  |
| 74 |   | Expense Expenditures - Amort. of Principal |              | 93,153,000   | 0           | 0          | 0           | 0           | 93,153,000  | 0           | 0          | 0          |
| 75 | FY 2015                                       | Conservation Resources Selected            |              |  |             |            |             |             |             |             |            |            |
| 76 | 17  | 2011 Conservation - 2015\$\$               |              |  |             |            |             |             |             |             |            |            |
| 77 |   | Capital Expenditures - Amort. of Principal |              | 42,390,600   | 0           | 0          | 0           | 0           | 0           | 2,028,919   | 2,121,640  | 2,218,599  |
| 78 |   | Expense Expenditures - Amort. of Principal |              | 93,522,800   | 0           | 0          | 0           | 0           | 0           | 93,522,800  | 0          | 0          |
| 79 | TOTALS - CAPITAL EXPENDITURES -               |  |              | 394,638,700  |             |            |             |             |             |             |            |            |
| 80 | AMORTIZATION OF PRINCIPAL                     |  |              | 394,638,700  | 7,919,618   | 10,382,947 | 13,045,922  | 15,920,368  | 19,019,648  | 21,917,765  | 22,919,407 | 23,966,824 |
| 81 | TOTALS - EXPENSE EXPENDITURES -               |  |              | 774,228,800  |             |            |             |             |             |             |            |            |
| 82 | AMORTIZATION OF PRINCIPAL                     |  |              | 774,228,800  | 325,062,100 | 84,808,500 | 87,425,400  | 90,257,000  | 93,153,000  | 93,522,800  | 0          | 0          |
| 83 | TOTAL CONSERVATION PRINCIPAL                  |  |              |  |             |            |             |             |             |             |            |            |
| 84 | AND EXPENSE COSTS                             |  |              | 1,168,867,500  | 332,981,718 | 95,191,447 | 100,471,322 | 106,177,368 | 112,172,648 | 115,440,565 | 22,919,407 | 23,966,824 |
| 85 | PERCENTAGE OF TOTAL PRINCIPAL PAID            |  |              | 100.00%  | 28.49%      | 8.14%      | 8.60%       | 9.08%       | 9.60%       | 9.88%       | 1.96%      | 2.05%      |
| 86 |   |  |              |  |             |            |             |             |             |             |            |            |
| 87 | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID |  |              |  | 28.49%      | 36.63%     | 45.23%      | 54.31%      | 63.91%      | 73.79%      | 75.75%     | 77.80%     |
| 88 |   |  |              |  |             |            |             |             |             |             |            |            |
| 89 |   |  |              | PERCENTAGE OF TOTAL PRINCIPLE PAID DURING THE RATE TEST PERIOD       |             |            |             |             | 73.79%      |             |            |            |
| 90 |   |  |              | TOTAL INTEREST PAID ON EXPENSED PORTION                              |             |            |             |             | \$0         |             |            |            |
| 91 |   |  |              |  |             |            |             |             |             |             |            |            |
| 92 |   |  |              |  |             |            |             |             |             |             |            |            |
| 93 |   |  |              |  |             |            |             |             |             |             |            |            |
| 94 |   |  |              |  |             |            |             |             |             |             |            |            |

|    | A     | B     | C  | M          | N          | O          | P          | Q          | R          | S          | T          | U          | V          | W         | X         |
|----|-------|-------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| 46 |       |       | Section 7(b)(2) Rate Test Study and Documentation                    |            |            |            |            |            |            |            |            |            |            |           |           |
| 47 |       |       | Alternative Conservation Expense Accounting and Financing Treatments |            |            |            |            |            |            |            |            |            |            |           |           |
| 48 |       |       | WP-10 Initial Rate Proposal  |            |            |            |            |            |            |            |            |            |            |           |           |
| 50 |       |       | Scenario = Capitalized costs amortized / financed over 15 years,     |            |            |            |            |            |            |            |            |            |            |           |           |
| 51 |       |       | = Expensed costs are expensed in the year incurred (1st year)        |            |            |            |            |            |            |            |            |            |            |           |           |
| 53 |       |       | ALTERNATIVE - 1  |            |            |            |            |            |            |            |            |            |            |           |           |
| 55 |       |       | Amortization of Principal - (whole dollars)                          |            |            |            |            |            |            |            |            |            |            |           |           |
| 56 | Res.  | Stack |  |            |            |            |            |            |            |            |            |            |            |           |           |
| 56 | Order |       | Vintage Year   |            |            |            |            |            |            |            |            |            |            |           |           |
| 57 |       |       | FY 2011 Conservation Resources Selected                              |            |            |            |            |            |            |            |            |            |            |           |           |
| 58 | 13    |       | 2015 Conservation - 2011\$\$   |            |            |            |            |            |            |            |            |            |            |           |           |
| 59 |       |       | Capital Expenditures - Amort. of Principal                           | 2,873,153  | 3,004,456  | 3,141,760  | 3,285,338  | 3,435,478  | 3,592,480  | 3,756,656  | 3,928,333  |            |            |           |           |
| 60 |       |       | Expense Expenditures - Amort. of Principal                           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |            |            |           |           |
| 61 |       |       | FY 2012 Conservation Resources Selected                              |            |            |            |            |            |            |            |            |            |            |           |           |
| 62 | 14    |       | 2014 Conservation - 2012\$\$   |            |            |            |            |            |            |            |            |            |            |           |           |
| 63 |       |       | Capital Expenditures - Amort. of Principal                           | 2,861,435  | 2,992,202  | 3,128,946  | 3,271,939  | 3,421,466  | 3,577,827  | 3,741,334  | 3,912,313  | 4,091,099  |            |           |           |
| 64 |       |       | Expense Expenditures - Amort. of Principal                           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |            |           |           |
| 65 |       |       | FY 2013 Conservation Resources Selected                              |            |            |            |            |            |            |            |            |            |            |           |           |
| 66 | 15    |       | 2013 Conservation - 2013\$\$   |            |            |            |            |            |            |            |            |            |            |           |           |
| 67 |       |       | Capital Expenditures - Amort. of Principal                           | 2,848,634  | 2,978,817  | 3,114,949  | 3,257,302  | 3,406,160  | 3,561,822  | 3,724,597  | 3,894,811  | 4,072,804  | 4,258,922  |           |           |
| 68 |       |       | Expense Expenditures - Amort. of Principal                           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |           |           |
| 69 |       |       | FY 2014 Conservation Resources Selected                              |            |            |            |            |            |            |            |            |            |            |           |           |
| 70 | 16    |       | 2012 Conservation - 2014\$\$   |            |            |            |            |            |            |            |            |            |            |           |           |
| 71 |       |       | Capital Expenditures - Amort. of Principal                           | 2,835,905  | 2,965,506  | 3,101,029  | 3,242,746  | 3,390,940  | 3,545,906  | 3,707,954  | 3,877,407  | 4,054,605  | 4,239,900  | 4,433,661 |           |
| 72 |       |       | Expense Expenditures - Amort. of Principal                           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         |           |
| 73 |       |       | FY 2015 Conservation Resources Selected                              |            |            |            |            |            |            |            |            |            |            |           |           |
| 74 | 17    |       | 2011 Conservation - 2015\$\$   |            |            |            |            |            |            |            |            |            |            |           |           |
| 75 |       |       | Capital Expenditures - Amort. of Principal                           | 2,319,989  | 2,426,013  | 2,536,881  | 2,652,817  | 2,774,051  | 2,900,825  | 3,033,392  | 3,172,018  | 3,316,980  | 3,468,566  | 3,627,079 | 3,792,831 |
| 76 |       |       | Expense Expenditures - Amort. of Principal                           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         |
| 78 |       |       | TOTALS - CAPITAL EXPENDITURES -                                      |            |            |            |            |            |            |            |            |            |            |           |           |
| 79 |       |       | AMORTIZATION OF PRINCIPAL  | 25,062,107 | 26,207,446 | 27,405,126 | 28,657,541 | 29,967,190 | 31,336,693 | 32,768,769 | 18,784,882 | 15,535,488 | 11,967,388 | 8,060,740 | 3,792,831 |
| 80 |       |       | TOTALS - EXPENSE EXPENDITURES -                                      |            |            |            |            |            |            |            |            |            |            |           |           |
| 81 |       |       | AMORTIZATION OF PRINCIPAL  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         |
| 82 |       |       | TOTAL CONSERVATION PRINCIPAL   |            |            |            |            |            |            |            |            |            |            |           |           |
| 83 |       |       | AND EXPENSE COSTS  | 25,062,107 | 26,207,446 | 27,405,126 | 28,657,541 | 29,967,190 | 31,336,693 | 32,768,769 | 18,784,882 | 15,535,488 | 11,967,388 | 8,060,740 | 3,792,831 |
| 85 |       |       | PERCENTAGE OF TOTAL PRINCIPAL PAID                                   | 2.14%      | 2.24%      | 2.34%      | 2.45%      | 2.56%      | 2.68%      | 2.80%      | 1.61%      | 1.33%      | 1.02%      | 0.69%     | 0.32%     |
| 87 |       |       | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID                        | 79.94%     | 82.18%     | 84.52%     | 86.97%     | 89.53%     | 92.21%     | 95.01%     | 96.62%     | 97.95%     | 98.97%     | 99.66%    | 99.98%    |
| 92 |       |       | Page 10 of 10  |            |            |            |            |            |            |            |            |            |            |           |           |

|    |  |  |              |                      |          |               |              |         |              |                 |   |
|----|--|--|--------------|----------------------|----------|---------------|--------------|---------|--------------|-----------------|---|
|    | A  | B  | C            | D                    | E        | F             | G            | H       | I            | J               | K |
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |  |              |                      |          |               |              |         |              |                 |   |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |  |              |                      |          |               |              |         |              |                 |   |
| 3  | WP-10 Initial Rate Proposal  |  |              |                      |          |               |              |         |              |                 |   |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |              |                      |          |               |              |         |              |                 |   |
| 6  | Expensed costs are deferred and financed over 4-years                  |  |              |                      |          |               |              |         |              |                 |   |
| 8  | ALTERNATIVE - 2  |  |              |                      |          |               |              |         |              |                 |   |
| 10 |  |  |              | Capitalized          |          | Expensed      |              |         |              |                 |   |
| 11 |  |  |              | Conservation         |          | Conservation  |              |         |              |                 |   |
| 12 |  |  |              | Interest Rate        |          | Deferral/     |              |         |              |                 |   |
| 13 |  |  |              | 15 - Year            |          | Maturity      |              |         |              |                 |   |
| 14 |  |  |              | Maturity             |          | Interest Rate |              |         |              |                 |   |
| 15 |  |  |              | Inflation Adjustment |          | # of Years    |              |         |              |                 |   |
| 16 |  |  |              | FY 2010              | 1.000000 | 0.0457        |              | 4       |              | 0.0370          |   |
| 17 |  |  |              | FY 2011              | 1.020232 |               |              | 5       |              | 0.0379          |   |
| 18 |  |  |              | FY 2012              | 1.041582 |               |              | 6       |              | 0.0388          |   |
| 19 |  |  |              | FY 2013              | 1.062788 |               |              | 7       |              | 0.0397          |   |
| 20 |  |  |              | FY 2014              | 1.084313 |               |              | 15      |              | 0.0457          |   |
| 21 |  |  |              | FY 2015              | 1.106094 |               |              |         |              |                 |   |
| 22 | Res.   |  | Conservation | Amount               | Amount   | Capitalized   | NET          | Annual  | Debt service |                 |   |
| 23 | Stack  |  | Savings      | Revenue              | Revenue  | & Debt        | Annual       | Whole   |              |                 |   |
| 24 | Order  | Vintage Year                                       | aMW          | Expensed             | Expensed | Financed      | Expenditures | Dollars |              |                 |   |
| 26 | FY 2010 Conservation Resources Selected                                |  |              |                      |          |               |              |         |              |                 |   |
| 27 | 1  | 2004 Conservation - 2010\$\$                       |              | 31.4                 | 18,502.0 | 22,723.7      | 41,225.7     |         |              |                 |   |
| 28 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | \$2,126,085.25  |   |
| 29 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$5,061,128.31  |   |
| 31 | 2  | 2001 Conservation - 2010\$\$                       |              | 18.7                 | 24,855.2 | 71.2          | 24,926.4     |         |              |                 |   |
| 32 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | \$6,661.65      |   |
| 33 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$6,799,013.97  |   |
| 35 | 4  | 2006 Conservation - 2010\$\$                       |              | 30.2                 | 30,761.1 | 16,438.0      | 47,199.1     |         |              |                 |   |
| 36 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 1,537,979.70    |   |
| 37 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$8,414,542.97  |   |
| 39 | 5  | 2007 Conservation - 2010\$\$                       |              | 28.5                 | 41,499.7 | 11,453.5      | 52,953.2     |         |              |                 |   |
| 40 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 1,071,617.62    |   |
| 41 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$11,352,032.57 |   |
| 43 | 6  | 2003 Conservation - 2010\$\$                       |              | 25.2                 | 20,758.3 | 27,500.1      | 48,258.4     |         |              |                 |   |
| 44 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 2,572,976.98    |   |
| 45 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$5,678,327.74  |   |
| 47 | 7  | 2005 Conservation - 2010\$\$                       |              | 20.0                 | 25,443.0 | 16,719.5      | 42,162.5     |         |              |                 |   |
| 48 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 1,564,317.53    |   |
| 49 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$6,959,803.68  |   |
| 51 | 8  | 2002 Conservation - 2010\$\$                       |              | 26.1                 | 21,005.4 | 34,586.6      | 55,592.0     |         |              |                 |   |
| 52 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 3,236,007.34    |   |
| 53 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$5,745,920.69  |   |
| 55 | 9  | 2008 Conservation - 2010\$\$                       |              | 34.8                 | 65,070.9 | 8,214.0       | 73,284.9     |         |              |                 |   |
| 56 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 768,522.04      |   |
| 57 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$17,799,814.84 |   |
| 59 | 12   | 2009 Conservation - 2010\$\$                       |              | 40.1                 | 77,166.5 | 27,759.6      | 104,926.1    |         |              |                 |   |
| 60 |  | Capitalized Costs - Debt Service Requirements      |              |                      |          |               |              |         |              | 2,597,256.44    |   |
| 61 |  | Expensed Costs /Deferral Debt Service Requirements |              |                      |          |               |              |         |              | \$21,108,504.91 |   |
| 63 | Page 1 of 10   |  |              |                      |          |               |              |         |              |                 |   |

|    | L  | M                                   | N        | O        | P        | Q        | R       | S       | T       | U       | V       | W       |
|----|--|-------------------------------------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |          |          |          |          |         |         |         |         |         |         |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |          |          |          |          |         |         |         |         |         |         |
| 3  | WP-10 Initial Rate Proposal  |                                     |          |          |          |          |         |         |         |         |         |         |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |          |          |          |          |         |         |         |         |         |         |
| 6  | Expensed costs are deferred and financed over 4-years                  |                                     |          |          |          |          |         |         |         |         |         |         |
| 8  |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 10 | ALTERNATIVE - 2  |                                     |          |          |          |          |         |         |         |         |         |         |
| 11 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 12 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 13 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 14 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 15 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 16 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 17 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 18 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 19 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 20 | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |          |          |          |          |         |         |         |         |         |         |
| 21 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 22 | Res.   |                                     |          |          |          |          |         |         |         |         |         |         |
| 23 | Stack  |                                     |          |          |          |          |         |         |         |         |         |         |
| 24 | Order  |                                     | FY 2010  | FY 2011  | FY 2012  | FY 2013  | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 |
| 25 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 26 | <b>FY 2010 Conservation Resources Selected</b>                         |                                     |          |          |          |          |         |         |         |         |         |         |
| 27 | <b>1</b>   | <b>2004 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 28 | Capital  |                                     | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |
| 29 | Expense  |                                     | 5,061.1  | 5,061.1  | 5,061.1  | 5,061.1  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 30 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 31 | <b>2</b>   | <b>2001 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 32 | Capital  |                                     | 6.7      | 6.7      | 6.7      | 6.7      | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |
| 33 | Expense  |                                     | 6,799.0  | 6,799.0  | 6,799.0  | 6,799.0  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 34 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 35 | <b>4</b>   | <b>2006 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 36 | Capital  |                                     | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |
| 37 | Expense  |                                     | 8,414.5  | 8,414.5  | 8,414.5  | 8,414.5  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 38 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 39 | <b>5</b>   | <b>2007 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 40 | Capital  |                                     | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |
| 41 | Expense  |                                     | 11,352.0 | 11,352.0 | 11,352.0 | 11,352.0 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 42 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 43 | <b>6</b>   | <b>2003 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 44 | Capital  |                                     | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |
| 45 | Expense  |                                     | 5,678.3  | 5,678.3  | 5,678.3  | 5,678.3  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 46 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 47 | <b>7</b>   | <b>2005 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 48 | Capital  |                                     | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |
| 49 | Expense  |                                     | 6,959.8  | 6,959.8  | 6,959.8  | 6,959.8  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 50 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 51 | <b>8</b>   | <b>2002 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 52 | Capital  |                                     | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |
| 53 | Expense  |                                     | 5,745.9  | 5,745.9  | 5,745.9  | 5,745.9  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 54 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 55 | <b>9</b>   | <b>2008 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 56 | Capital  |                                     | 768.5    | 768.5    | 768.5    | 768.5    | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   |
| 57 | Expense  |                                     | 17,799.8 | 17,799.8 | 17,799.8 | 17,799.8 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 58 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 59 | <b>12</b>  | <b>2009 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 60 | Capital  |                                     | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |
| 61 | Expense  |                                     | 21,108.5 | 21,108.5 | 21,108.5 | 21,108.5 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 63 | Page 2 of 10   |                                     |          |          |          |          |         |         |         |         |         |         |
| 64 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 65 |  |                                     |          |          |          |          |         |         |         |         |         |         |

|    | X   | Y  | Z              | AA             | AB             | AC             | AD             | AE             | AF             | AG             | AH             | AI |
|----|---|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b>                      |  |                |                |                |                |                |                |                |                |                |    |
| 2  | <b>Alternative Conservation Expense Accounting and Financing Treatments</b>   |  |                |                |                |                |                |                |                |                |                |    |
| 3  | <b>WP-10 Initial Rate Proposal</b>  |  |                |                |                |                |                |                |                |                |                |    |
| 5  | <b>Scenario = Capitalized costs are amortized and financed over 15 years,</b> |  |                |                |                |                |                |                |                |                |                |    |
| 6  | <b>Expensed costs are deferred and financed over 4-years</b>                  |  |                |                |                |                |                |                |                |                |                |    |
| 8  |   |  |                |                |                |                |                |                |                |                |                |    |
| 10 | <b>ALTERNATIVE - 2</b>  |  |                |                |                |                |                |                |                |                |                |    |
| 11 |   |  |                |                |                |                |                |                |                |                |                |    |
| 12 |   |  |                |                |                |                |                |                |                |                |                |    |
| 13 |   |  |                |                |                |                |                |                |                |                |                |    |
| 14 |   |  |                |                |                |                |                |                |                |                |                |    |
| 15 |   |  |                |                |                |                |                |                |                |                |                |    |
| 16 |   |  |                |                |                |                |                |                |                |                |                |    |
| 17 |   |  |                |                |                |                |                |                |                |                |                |    |
| 18 |   |  |                |                |                |                |                |                |                |                |                |    |
| 19 |   |  |                |                |                |                |                |                |                |                |                |    |
| 20 | <b>Debt Service Requirements - Principal and Interest (\$ 000)</b>            |  |                |                |                |                |                |                |                |                |                |    |
| 21 |   |  |                |                |                |                |                |                |                |                |                |    |
| 22 | <b>Res.</b>   |  |                |                |                |                |                |                |                |                |                |    |
| 23 | <b>Stack</b>  |  |                |                |                |                |                |                |                |                |                |    |
| 24 | <b>Order</b>  | <b>FY 2020</b>                             | <b>FY 2021</b> | <b>FY 2022</b> | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025</b> | <b>FY 2026</b> | <b>FY 2027</b> | <b>FY 2028</b> | <b>FY 2029</b> |    |
| 25 |   |  |                |                |                |                |                |                |                |                |                |    |
| 26 | <b><u>FY 2010 Conservation Resources Selected</u></b>                         |  |                |                |                |                |                |                |                |                |                |    |
| 27 | <b><u>1</u></b>   | <b><u>2004 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 28 | Capital   | 2,126.1                                    | 2,126.1        | 2,126.1        | 2,126.1        | 2,126.1        |                |                |                |                |                |    |
| 29 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 30 |   |  |                |                |                |                |                |                |                |                |                |    |
| 31 | <b><u>2</u></b>   | <b><u>2001 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 32 | Capital   | 6.7  | 6.7            | 6.7            | 6.7            | 6.7            |                |                |                |                |                |    |
| 33 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 34 |   |  |                |                |                |                |                |                |                |                |                |    |
| 35 | <b><u>4</u></b>   | <b><u>2006 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 36 | Capital   | 1,538.0                                    | 1,538.0        | 1,538.0        | 1,538.0        | 1,538.0        |                |                |                |                |                |    |
| 37 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 38 |   |  |                |                |                |                |                |                |                |                |                |    |
| 39 | <b><u>5</u></b>   | <b><u>2007 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 40 |   | 1,071.6                                    | 1,071.6        | 1,071.6        | 1,071.6        | 1,071.6        |                |                |                |                |                |    |
| 41 |   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 42 |   |  |                |                |                |                |                |                |                |                |                |    |
| 43 | <b><u>6</u></b>   | <b><u>2003 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 44 | Capital   | 2,573.0                                    | 2,573.0        | 2,573.0        | 2,573.0        | 2,573.0        |                |                |                |                |                |    |
| 45 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 46 |   |  |                |                |                |                |                |                |                |                |                |    |
| 47 | <b><u>7</u></b>   | <b><u>2005 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 48 | Capital   | 1,564.3                                    | 1,564.3        | 1,564.3        | 1,564.3        | 1,564.3        |                |                |                |                |                |    |
| 49 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 50 |   |  |                |                |                |                |                |                |                |                |                |    |
| 51 | <b><u>8</u></b>   | <b><u>2002 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 52 | Capital   | 3,236.0                                    | 3,236.0        | 3,236.0        | 3,236.0        | 3,236.0        |                |                |                |                |                |    |
| 53 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 54 |   |  |                |                |                |                |                |                |                |                |                |    |
| 55 | <b><u>9</u></b>   | <b><u>2008 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 56 | Capital   | 768.5                                      | 768.5          | 768.5          | 768.5          | 768.5          |                |                |                |                |                |    |
| 57 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 58 |   |  |                |                |                |                |                |                |                |                |                |    |
| 59 | <b><u>12</u></b>  | <b><u>2009 Conservation - 2010\$\$</u></b> |                |                |                |                |                |                |                |                |                |    |
| 60 | Capital   | 2,597.3                                    | 2,597.3        | 2,597.3        | 2,597.3        | 2,597.3        |                |                |                |                |                |    |
| 61 | Expense   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |                |    |
| 62 |   |  |                |                |                |                |                |                |                |                |                |    |
| 63 | Page 3 of 10  |  |                |                |                |                |                |                |                |                |                |    |
| 64 |   |  |                |                |                |                |                |                |                |                |                |    |
| 65 |   |  |                |                |                |                |                |                |                |                |                |    |

|     | A  | B | C  | D            | E | F        | G                               | H                              | I                    | J                        | K               |
|-----|--|---|--|--------------|---|----------|---------------------------------|--------------------------------|----------------------|--------------------------|-----------------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 68  | WP-10 Initial Rate Proposal  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 71  | Expensed costs are deferred and financed over 4-years                  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 73  | ALTERNATIVE - 2  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 75  |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 76  | Res.   |   |  | Conservation |   | Amount   | Amount                          |                                |                      |                          | Annual          |
| 77  | Stack  |   |  | Savings      |   | Revenue  | Capitalized                     |                                | NET                  |                          | Debt service    |
| 78  | Order  |   | Vintage Year                                       | aMW          |   | Expensed | & Debt                          |                                | Annual               |                          | Whole           |
| 79  |  |   |  |              |   |          | Financed                        |                                | Expenditures         |                          | Dollars         |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 81  |  |   | 2015 Conservation - 2010\$\$                       | 38.8         |   | 83,126.7 | 43,034.3                        |                                | 126,161.1            |                          |                 |
| 82  | <b>13</b>  |   | <b>2015 Conservation - 2011\$\$</b>                |              |   | 84,808.5 | 43,905.0                        |                                | 128,713.5            |                          |                 |
| 83  |  |   | Capitalized Costs - Debt Service Requirements      |              |   |          |                                 |                                |                      |                          | 4,107,859.76    |
| 84  |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |          |                                 |                                |                      |                          | \$23,198,935.27 |
| 85  |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 87  |  |   | 2014 Conservation - 2010\$\$                       | 38.8         |   | 83,935.2 | 43,898.8                        |                                | 127,833.9            |                          |                 |
| 88  | <b>14</b>  |   | <b>2014 Conservation - 2012\$\$</b>                |              |   | 87,425.4 | 45,724.2                        |                                | 133,149.6            |                          |                 |
| 89  |  |   | Capitalized Costs - Debt Service Requirements      |              |   |          |                                 |                                |                      |                          | 4,278,068.59    |
| 90  |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |          |                                 |                                |                      |                          | \$23,914,775.00 |
| 91  |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 93  |  |   | 2013 Conservation - 2010\$\$                       | 38.8         |   | 84,924.7 | 44,787.8                        |                                | 129,712.6            |                          |                 |
| 94  | <b>15</b>  |   | <b>2013 Conservation - 2013\$\$</b>                |              |   | 90,257.0 | 47,599.9                        |                                | 137,856.9            |                          |                 |
| 95  |  |   | Capitalized Costs - Debt Service Requirements      |              |   |          |                                 |                                |                      |                          | 4,453,563.69    |
| 96  |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |          |                                 |                                |                      |                          | \$24,689,344.83 |
| 97  |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 99  |  |   | 2012 Conservation - 2010\$\$                       | 38.8         |   | 85,909.7 | 45,699.7                        |                                | 131,609.5            |                          |                 |
| 100 | <b>16</b>  |   | <b>2012 Conservation - 2014\$\$</b>                |              |   | 93,153.0 | 49,552.8                        |                                | 142,705.8            |                          |                 |
| 101 |  |   | Capitalized Costs - Debt Service Requirements      |              |   |          |                                 |                                |                      |                          | 4,636,281.82    |
| 102 |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |          |                                 |                                |                      |                          | \$25,481,530.95 |
| 103 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 105 |  |   | 2011 Conservation - 2010\$\$                       | 34.6         |   | 84,552.3 | 38,324.6                        |                                | 122,876.9            |                          |                 |
| 106 | <b>17</b>  |   | <b>2011 Conservation - 2015\$\$</b>                |              |   | 93,522.8 | 42,390.6                        |                                | 135,913.4            |                          |                 |
| 107 |  |   | Capitalized Costs - Debt Service Requirements      |              |   |          |                                 |                                |                      |                          | 3,966,168.77    |
| 108 |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |          |                                 |                                |                      |                          | \$25,582,687.86 |
| 109 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 110 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 111 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 112 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 113 | <b>TOTAL Capital Costs - Debt Ser. Req. = TCC</b>                      |   |  |              |   |          | <b>Principal Expensed Costs</b> | <b>Principal Capital Costs</b> | <b>Interest Paid</b> | <b>Cumulative Totals</b> |                 |
| 114 | <b>TOTAL Expense Costs - Debt Serv. Req. = TEC</b>                     |   |  |              |   |          | 774,228.8                       | 394,638.7                      | 159,215.3            | 553,854.0                |                 |
| 115 |  |   |  |              |   |          |                                 |                                | 72,915.6             | 847,144.4                |                 |
| 116 | <b>TOTAL DEBT SERVICE REQUIREMENTS = TDSR</b>                          |   |  |              |   |          | 774,228.8                       | 394,638.7                      | 232,130.9            | 1,400,998.4              |                 |
| 117 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 118 |  |   |  |              |   |          | Principal Expense Costs         |                                |                      | 774,228.8                |                 |
| 119 |  |   |  |              |   |          | Interest Paid Expensed Costs    |                                |                      | 72,915.6                 |                 |
| 120 |  |   |  |              |   |          | Principal Capital Costs         |                                |                      | 394,638.7                |                 |
| 121 |  |   |  |              |   |          | Interest Paid Capital Costs     |                                |                      | 159,215.3                |                 |
| 122 |  |   |  |              |   |          | Totals                          |                                |                      | 1,400,998.4              |                 |
| 123 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 124 | Page 4 of 10   |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 125 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |
| 126 |  |   |  |              |   |          |                                 |                                |                      |                          |                 |

|     | L  | M                                   | N         | O         | P         | Q         | R         | S         | T        | U        | V        | W        |
|-----|--|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |           |           |           |           |           |           |          |          |          |          |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |           |           |           |           |           |           |          |          |          |          |
| 68  | WP-10 Initial Rate Proposal  |                                     |           |           |           |           |           |           |          |          |          |          |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |           |           |           |           |           |           |          |          |          |          |
| 71  | Expensed costs are deferred and financed over 4-years                  |                                     |           |           |           |           |           |           |          |          |          |          |
| 73  | ALTERNATIVE - 2  |                                     |           |           |           |           |           |           |          |          |          |          |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |           |           |           |           |           |           |          |          |          |          |
| 76  | Res.   |                                     |           |           |           |           |           |           |          |          |          |          |
| 77  | Stack  |                                     |           |           |           |           |           |           |          |          |          |          |
| 78  | Order  | FY 2010                             | FY 2011   | FY 2012   | FY 2013   | FY 2014   | FY 2015   | FY 2016   | FY 2017  | FY 2018  | FY 2019  |          |
| 79  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |                                     |           |           |           |           |           |           |          |          |          |          |
| 81  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 82  | <b>13</b>  | <b>2015 Conservation - 2011\$\$</b> |           |           |           |           |           |           |          |          |          |          |
| 83  | Capital  | 0.0                                 | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9  | 4,107.9  | 4,107.9  | 4,107.9  |
| 84  | Expense  | 0.0                                 | 23,198.9  | 23,198.9  | 23,198.9  | 23,198.9  | 0.0       | 0.0       | 0.0      | 0.0      | 0.0      | 0.0      |
| 85  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |                                     |           |           |           |           |           |           |          |          |          |          |
| 87  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 88  | <b>14</b>  | <b>2014 Conservation - 2012\$\$</b> |           |           |           |           |           |           |          |          |          |          |
| 89  | Capital  | 0.0                                 | 0.0       | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1  | 4,278.1  | 4,278.1  | 4,278.1  |
| 90  | Expense  | 0.0                                 | 0.0       | 23,914.8  | 23,914.8  | 23,914.8  | 23,914.8  | 0.0       | 0.0      | 0.0      | 0.0      | 0.0      |
| 91  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |                                     |           |           |           |           |           |           |          |          |          |          |
| 93  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 94  | <b>15</b>  | <b>2013 Conservation - 2013\$\$</b> |           |           |           |           |           |           |          |          |          |          |
| 95  | Capital  | 0.0                                 | 0.0       | 0.0       | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6  | 4,453.6  | 4,453.6  | 4,453.6  |
| 96  | Expense  | 0.0                                 | 0.0       | 0.0       | 24,689.3  | 24,689.3  | 24,689.3  | 24,689.3  | 0.0      | 0.0      | 0.0      | 0.0      |
| 97  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |                                     |           |           |           |           |           |           |          |          |          |          |
| 99  |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 100 | <b>16</b>  | <b>2012 Conservation - 2014\$\$</b> |           |           |           |           |           |           |          |          |          |          |
| 101 | Capital  | 0.0                                 | 0.0       | 0.0       | 0.0       | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3  |
| 102 | Expense  | 0.0                                 | 0.0       | 0.0       | 0.0       | 25,481.5  | 25,481.5  | 25,481.5  | 25,481.5 | 0.0      | 0.0      | 0.0      |
| 103 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |                                     |           |           |           |           |           |           |          |          |          |          |
| 105 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 106 | <b>17</b>  | <b>2011 Conservation - 2015\$\$</b> |           |           |           |           |           |           |          |          |          |          |
| 107 | Capital  | 0.0                                 | 0.0       | 0.0       | 0.0       | 0.0       | 3,966.2   | 3,966.2   | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  |
| 108 | Expense  | 0.0                                 | 0.0       | 0.0       | 0.0       | 0.0       | 25,582.7  | 25,582.7  | 25,582.7 | 25,582.7 | 0.0      | 0.0      |
| 109 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 110 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 111 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 112 | <b>TCC</b>   | 15,481.5                            | 19,589.4  | 23,867.5  | 28,321.1  | 32,957.4  | 36,923.6  | 36,923.6  | 36,923.6 | 36,923.6 | 36,923.6 | 36,923.6 |
| 114 | <b>TEC</b>   | 88,918.9                            | 112,117.8 | 136,032.6 | 160,721.9 | 97,284.5  | 99,668.3  | 75,753.5  | 51,064.2 | 25,582.7 | 0.0      | 0.0      |
| 115 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 116 | <b>TDSR</b>  | 104,400.4                           | 131,707.2 | 159,900.1 | 189,043.0 | 130,241.9 | 136,591.9 | 112,677.1 | 87,987.8 | 62,506.3 | 36,923.6 |          |
| 117 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 118 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 119 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 120 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 121 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 122 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 123 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 124 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 125 |  |                                     |           |           |           |           |           |           |          |          |          |          |
| 126 |  |                                     |           |           |           |           |           |           |          |          |          |          |

|     | X  | Y  | Z              | AA             | AB             | AC             | AD             | AE             | AF             | AG             | AH             | AI      |
|-----|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |  |                |                |                |                |                |                |                |                |                |         |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |  |                |                |                |                |                |                |                |                |                |         |
| 68  | WP-10 Initial Rate Proposal  |  |                |                |                |                |                |                |                |                |                |         |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |                |                |                |                |                |                |                |                |                |         |
| 71  | Expensed costs are deferred and financed over 4-years                  |  |                |                |                |                |                |                |                |                |                |         |
| 73  | ALTERNATIVE - 2  |  |                |                |                |                |                |                |                |                |                |         |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |  |                |                |                |                |                |                |                |                |                |         |
| 76  | Res.   |  |                |                |                |                |                |                |                |                |                |         |
| 77  | Stack  |  |                |                |                |                |                |                |                |                |                |         |
| 78  | Order  | <u>FY 2020</u>                             | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>FY 2027</u> | <u>FY 2028</u> | <u>FY 2029</u> |         |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |  |                |                |                |                |                |                |                |                |                |         |
| 82  | <b>13</b>  | <b><u>2015 Conservation - 2011\$\$</u></b> |                |                |                |                |                |                |                |                |                |         |
| 83  | Capital  | 4,107.9                                    | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        |                |                |                |                |         |
| 84  | Expense  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |         |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |  |                |                |                |                |                |                |                |                |                |         |
| 88  | <b>14</b>  | <b><u>2014 Conservation - 2012\$\$</u></b> |                |                |                |                |                |                |                |                |                |         |
| 89  | Capital  | 4,278.1                                    | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        |                |                |                |         |
| 90  | Expense  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |         |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |  |                |                |                |                |                |                |                |                |                |         |
| 94  | <b>15</b>  | <b><u>2013 Conservation - 2013\$\$</u></b> |                |                |                |                |                |                |                |                |                |         |
| 95  | Capital  | 4,453.6                                    | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        |                |                |         |
| 96  | Expense  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |         |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |  |                |                |                |                |                |                |                |                |                |         |
| 100 | <b>16</b>  | <b><u>2012 Conservation - 2014\$\$</u></b> |                |                |                |                |                |                |                |                |                |         |
| 101 | Capital  | 4,636.3                                    | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        |         |
| 102 | Expense  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |         |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |  |                |                |                |                |                |                |                |                |                |         |
| 106 | <b>17</b>  | <b><u>2011 Conservation - 2015\$\$</u></b> |                |                |                |                |                |                |                |                |                |         |
| 107 | Capital  | 3,966.2                                    | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2 |
| 108 | Expense  | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0     |
| 113 | <b>TCC</b>   | 36,923.6                                   | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |         |
| 114 | <b>TEC</b>   | 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |         |
| 116 | <b>TDSR</b>  | 36,923.6                                   | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |         |
| 117 |  |  |                |                |                |                |                |                |                |                |                |         |
| 118 |  |  |                |                |                |                |                |                |                |                |                |         |
| 119 |  |  |                |                |                |                |                |                |                |                |                |         |
| 120 |  |  |                |                |                |                |                |                |                |                |                |         |
| 121 |  |  |                |                |                |                |                |                |                |                |                |         |
| 122 |  |  |                |                |                |                |                |                |                |                |                |         |
| 123 |  |  |                |                |                |                |                |                |                |                |                |         |
| 124 | Page 6 of 10   |  |                |                |                |                |                |                |                |                |                |         |
| 125 |  |  |                |                |                |                |                |                |                |                |                |         |
| 126 |  |  |                |                |                |                |                |                |                |                |                |         |



|    | A | B         | C   | D                                     | E          | F          | G          | H          | I         | J         | K         | L         |
|----|---|-----------|---|---------------------------------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| 1  |   |           | Section 7(b)(2) Rate Test Study and Documentation                     |                                       |            |            |            |            |           |           |           |           |
| 2  |   |           | Alternative Conservation Expense Accounting and Financing Treatments  |                                       |            |            |            |            |           |           |           |           |
| 3  |   |           | WP-10 Initial Rate Proposal   |                                       |            |            |            |            |           |           |           |           |
| 5  |   |           | Scenario = Capitalized costs amortized / financed over 15 years,      |                                       |            |            |            |            |           |           |           |           |
| 6  |   |           | = Expensed costs are deferred and amortized / financed over 4 - years |                                       |            |            |            |            |           |           |           |           |
| 8  |   |           | ALTERNATIVE - 2   |                                       |            |            |            |            |           |           |           |           |
| 10 |   |           | Amortization of Principal - (whole dollars)                           |                                       |            |            |            |            |           |           |           |           |
| 11 |   | Res.      |   |                                       |            |            |            |            |           |           |           |           |
| 12 |   | Stack     |   |                                       |            |            |            |            |           |           |           |           |
| 13 |   | Order     | Vintage Year  | Total<br>Amortization<br>of Principal | FY 2010    | FY 2011    | FY 2012    | FY 2013    | FY 2014   | FY 2015   | FY 2016   | FY 2017   |
| 13 |   |           | <b>FY 2010 Conservation Resources Selected</b>                        |                                       |            |            |            |            |           |           |           |           |
| 14 |   |           | FY 2010 Conservation (9) Res. Selected - Total MW =                   | 255                                   |            |            |            |            |           |           |           |           |
| 15 |   | <b>1</b>  | <b>2004 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 16 |   |           | Capital Expenditures - Amort. of Principal                            | 22,723,700                            | 1,087,612  | 1,137,316  | 1,189,291  | 1,243,642  | 1,300,476 | 1,359,908 | 1,422,056 | 1,487,044 |
| 17 |   |           | Expense Expenditures - Amort. of Principal                            | 18,502,000                            | 4,376,554  | 4,538,486  | 4,706,410  | 4,880,550  | 0         | 0         | 0         | 0         |
| 18 |   | <b>2</b>  | <b>2001 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 19 |   |           | Capital Expenditures - Amort. of Principal                            | 71,200                                | 3,408      | 3,564      | 3,727      | 3,897      | 4,075     | 4,261     | 4,456     | 4,660     |
| 20 |   |           | Expense Expenditures - Amort. of Principal                            | 24,855,200                            | 5,879,372  | 6,096,908  | 6,322,494  | 6,556,426  | 0         | 0         | 0         | 0         |
| 21 |   | <b>4</b>  | <b>2006 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 22 |   |           | Capital Expenditures - Amort. of Principal                            | 16,438,000                            | 786,763    | 822,718    | 860,317    | 899,633    | 940,746   | 983,738   | 1,028,695 | 1,075,707 |
| 23 |   |           | Expense Expenditures - Amort. of Principal                            | 30,761,100                            | 7,276,382  | 7,545,608  | 7,824,796  | 8,114,314  | 0         | 0         | 0         | 0         |
| 24 |   | <b>5</b>  | <b>2007 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 25 |   |           | Capital Expenditures - Amort. of Principal                            | 11,453,500                            | 548,193    | 573,245    | 599,443    | 626,837    | 655,484   | 685,439   | 716,764   | 749,520   |
| 26 |   |           | Expense Expenditures - Amort. of Principal                            | 41,499,700                            | 9,816,544  | 10,179,756 | 10,556,407 | 10,946,993 | 0         | 0         | 0         | 0         |
| 27 |   | <b>6</b>  | <b>2003 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 28 |   |           | Capital Expenditures - Amort. of Principal                            | 27,500,100                            | 1,316,222  | 1,376,374  | 1,439,274  | 1,505,049  | 1,573,830 | 1,645,754 | 1,720,965 | 1,799,613 |
| 29 |   |           | Expense Expenditures - Amort. of Principal                            | 20,758,300                            | 4,910,271  | 5,091,951  | 5,280,353  | 5,475,725  | 0         | 0         | 0         | 0         |
| 30 |   | <b>7</b>  | <b>2005 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 31 |   |           | Capital Expenditures - Amort. of Principal                            | 16,719,500                            | 800,237    | 836,808    | 875,050    | 915,040    | 956,857   | 1,000,585 | 1,046,312 | 1,094,128 |
| 32 |   |           | Expense Expenditures - Amort. of Principal                            | 25,443,000                            | 6,018,413  | 6,241,094  | 6,472,015  | 6,711,478  | 0         | 0         | 0         | 0         |
| 33 |   | <b>8</b>  | <b>2002 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 34 |   |           | Capital Expenditures - Amort. of Principal                            | 34,586,600                            | 1,655,399  | 1,731,051  | 1,810,160  | 1,892,884  | 1,979,389 | 2,069,847 | 2,164,439 | 2,263,354 |
| 35 |   |           | Expense Expenditures - Amort. of Principal                            | 21,005,400                            | 4,968,721  | 5,152,564  | 5,343,209  | 5,540,906  | 0         | 0         | 0         | 0         |
| 36 |   | <b>9</b>  | <b>2008 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 37 |   |           | Capital Expenditures - Amort. of Principal                            | 8,214,000                             | 393,142    | 411,109    | 429,896    | 449,543    | 470,087   | 491,570   | 514,035   | 537,526   |
| 38 |   |           | Expense Expenditures - Amort. of Principal                            | 65,070,900                            | 15,392,192 | 15,961,703 | 16,552,286 | 17,164,719 | 0         | 0         | 0         | 0         |
| 39 |   | <b>12</b> | <b>2009 Conservation - 2010\$\$</b>                                   |                                       |            |            |            |            |           |           |           |           |
| 40 |   |           | Capital Expenditures - Amort. of Principal                            | 27,759,600                            | 1,328,642  | 1,389,361  | 1,452,855  | 1,519,250  | 1,588,680 | 1,661,283 | 1,737,204 | 1,816,594 |
| 41 |   |           | Expense Expenditures - Amort. of Principal                            | 77,166,500                            | 18,253,344 | 18,928,718 | 19,629,081 | 20,355,357 | 0         | 0         | 0         | 0         |
| 42 |   |           |   |                                       |            |            |            |            |           |           |           |           |
| 43 |   |           |   |                                       |            |            |            |            |           |           |           |           |
| 44 |   |           |   |                                       |            |            |            |            |           |           |           |           |
| 45 |   |           |   |                                       |            |            |            |            |           |           |           |           |



|    | A   | B  | C            | D  | E          | F           | G           | H           | I           | J           | K            | L          |
|----|---|--|--------------|--|------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|
| 46 | Section 7(b)(2) Rate Test Study and Documentation                     |  |              |  |            |             |             |             |             |             |              |            |
| 47 | Alternative Conservation Expense Accounting and Financing Treatments  |  |              |  |            |             |             |             |             |             |              |            |
| 48 | WP-10 Initial Rate Proposal   |  |              |  |            |             |             |             |             |             |              |            |
| 50 | Scenario = Capitalized costs amortized / financed over 15 years,      |  |              |  |            |             |             |             |             |             |              |            |
| 51 | = Expensed costs are deferred and amortized / financed over 4 - years |  |              |  |            |             |             |             |             |             |              |            |
| 53 | ALTERNATIVE - 2   |  |              |  |            |             |             |             |             |             |              |            |
| 55 | Amortization of Principal - (whole dollars)                           |  |              |  |            |             |             |             |             |             |              |            |
|    | Res.  |  |              | Total  |            |             |             |             |             |             |              |            |
|    | Stack   |  |              | Amortization   |            |             |             |             |             |             |              |            |
| 56 | Order   |  | Vintage Year | of Principal   | FY 2010    | FY 2011     | FY 2012     | FY 2013     | FY 2014     | FY 2015     | FY 2016      | FY 2017    |
| 57 | FY 2011   | Conservation Resources Selected            |              |  |            |             |             |             |             |             |              |            |
| 58 | 13  | 2015 Conservation - 2011\$\$               |              | 43,905,000   | 0          | 2,101,401   | 2,197,436   | 2,297,858   | 2,402,870   | 2,512,682   | 2,627,511    | 2,747,588  |
| 59 |   | Capital Expenditures - Amort. of Principal |              | 84,808,500   | 0          | 20,061,020  | 20,803,278  | 21,573,000  | 22,371,202  | 0           | 0            | 0          |
| 60 |   | Expense Expenditures - Amort. of Principal |              |  |            |             |             |             |             |             |              |            |
| 61 | FY 2012   | Conservation Resources Selected            |              |  |            |             |             |             |             |             |              |            |
| 62 | 14  | 2014 Conservation - 2012\$\$               |              |  |            |             |             |             |             |             |              |            |
| 63 |   | Capital Expenditures - Amort. of Principal |              | 45,724,200   | 0          | 0           | 2,188,473   | 2,288,486   | 2,393,070   | 2,502,433   | 2,616,795    | 2,736,382  |
| 64 |   | Expense Expenditures - Amort. of Principal |              | 87,425,400   | 0          | 0           | 20,680,035  | 21,445,196  | 22,238,669  | 23,061,500  | 0            | 0          |
| 65 | FY 2013   | Conservation Resources Selected            |              |  |            |             |             |             |             |             |              |            |
| 66 | 15  | 2013 Conservation - 2013\$\$               |              |  |            |             |             |             |             |             |              |            |
| 67 |   | Capital Expenditures - Amort. of Principal |              | 47,599,900   | 0          | 0           | 0           | 2,278,249   | 2,382,365   | 2,491,239   | 2,605,088    | 2,724,141  |
| 68 |   | Expense Expenditures - Amort. of Principal |              | 90,257,000   | 0          | 0           | 0           | 21,349,836  | 22,139,780  | 22,958,952  | 23,808,432   | 0          |
| 69 | FY 2014   | Conservation Resources Selected            |              |  |            |             |             |             |             |             |              |            |
| 70 | 16  | 2012 Conservation - 2014\$\$               |              |  |            |             |             |             |             |             |              |            |
| 71 |   | Capital Expenditures - Amort. of Principal |              | 49,552,800   | 0          | 0           | 0           | 0           | 2,371,719   | 2,480,107   | 2,593,447    | 2,711,968  |
| 72 |   | Expense Expenditures - Amort. of Principal |              | 93,153,000   | 0          | 0           | 0           | 0           | 22,034,870  | 22,850,160  | 23,695,616   | 24,572,354 |
| 73 | FY 2015   | Conservation Resources Selected            |              |  |            |             |             |             |             |             |              |            |
| 74 | 17  | 2011 Conservation - 2015\$\$               |              |  |            |             |             |             |             |             |              |            |
| 75 |   | Capital Expenditures - Amort. of Principal |              | 42,390,600   | 0          | 0           | 0           | 0           | 0           | 2,028,919   | 2,121,640    | 2,218,599  |
| 76 |   | Expense Expenditures - Amort. of Principal |              | 93,522,800   | 0          | 0           | 0           | 0           | 0           | 22,122,344  | 22,940,871   | 23,789,683 |
| 77 |   |  |              |  |            |             |             |             |             |             |              |            |
| 78 | TOTALS - CAPITAL EXPENDITURES -                                       |  |              | 394,638,700  |            |             |             |             |             |             |              |            |
| 79 | AMORTIZATION OF PRINCIPAL   |  |              | 394,638,700  | 7,919,618  | 10,382,947  | 13,045,922  | 15,920,368  | 19,019,648  | 21,917,765  | 22,919,407   | 23,966,824 |
| 80 | TOTALS - EXPENSE EXPENDITURES -                                       |  |              | 774,228,800  |            |             |             |             |             |             |              |            |
| 81 | AMORTIZATION OF PRINCIPAL   |  |              | 774,228,800  | 76,891,793 | 99,797,808  | 124,170,364 | 150,114,500 | 88,784,521  | 90,992,956  | 70,444,919   | 48,362,037 |
| 82 |   |  |              |  |            |             |             |             |             |             |              |            |
| 83 | TOTAL CONSERVATION PRINCIPAL COSTS                                    |  |              | 1,168,867,500  | 84,811,411 | 110,180,755 | 137,216,286 | 166,034,868 | 107,804,169 | 112,910,721 | 93,364,326   | 72,328,861 |
| 84 |   |  |              |  |            |             |             |             |             |             |              |            |
| 85 | PERCENTAGE OF TOTAL PRINCIPAL PAID                                    |  |              | 100.00%  | 7.26%      | 9.43%       | 11.74%      | 14.20%      | 9.22%       | 9.66%       | 7.99%        | 6.19%      |
| 86 |   |  |              |  |            |             |             |             |             |             |              |            |
| 87 | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID                         |  |              |  | 7.26%      | 16.69%      | 28.43%      | 42.63%      | 51.85%      | 61.51%      | 69.50%       | 75.69%     |
| 88 |   |  |              |  |            |             |             |             |             |             |              |            |
| 89 |   |  |              | PERCENTAGE OF TOTAL PRINCIPLE PAID DURING THE RATE TEST PERIOD |            |             |             |             |             |             | 61.51%       |            |
| 90 |   |  |              | TOTAL INTEREST PAID ON EXPENSED PORTION                        |            |             |             |             |             |             | \$72,916,659 |            |
| 91 |   |  |              | INTEREST EXPENSE - % OF EXPENSED CONSERVATION EXPENDITURES     |            |             |             |             |             |             | 9.42%        |            |
| 92 |   |  |              |  |            |             |             |             |             |             |              |            |
| 93 |   |  |              |  |            |             |             |             |             |             |              |            |
| 94 |   |  |              |  |            |             |             |             |             |             |              |            |



|    | A  | B  | C  | D                           | E | F               | G           | H | I         | J                 | K                    |
|----|--|--|--|-----------------------------|---|-----------------|-------------|---|-----------|-------------------|----------------------|
| 1  |  |  | Section 7(b)(2) Rate Test Study and Documentation                      |                             |   |                 |             |   |           |                   |                      |
| 2  |  |  | Alternative Conservation Expense Accounting and Financing Treatments   |                             |   |                 |             |   |           |                   |                      |
| 3  |  |  | WP-10 Initial Rate Proposal  |                             |   |                 |             |   |           |                   |                      |
| 5  |  |  | Scenario = Capitalized costs are amortized and financed over 15 years, |                             |   |                 |             |   |           |                   |                      |
| 6  |  |  | Expensed costs are deferred and financed over 5-years                  |                             |   |                 |             |   |           |                   |                      |
| 8  |  |  | ALTERNATIVE - 3  |                             |   |                 |             |   |           |                   |                      |
| 10 |  |  |  |                             |   | Capitalized     |             |   |           | Expensed          |                      |
| 11 |  |  |  |                             |   | Conservation    |             |   |           | Conservation      |                      |
| 12 |  |  |  |                             |   | Interest Rate   |             |   |           | Deferral/         |                      |
| 13 |  |  |  |                             |   | 15 - Year       |             |   |           | Maturity          |                      |
| 14 |  |  |  | <u>Inflation Adjustment</u> |   | <u>Maturity</u> |             |   |           | <u># of Years</u> | <u>Interest Rate</u> |
| 15 |  |  | FY 2010  | 1.000000                    |   | 0.0457          |             |   |           | 4                 | 0.0370               |
| 16 |  |  | FY 2011  | 1.020232                    |   |                 |             |   |           | 5                 | 0.0379               |
| 17 |  |  | FY 2012  | 1.041582                    |   |                 |             |   |           | 6                 | 0.0388               |
| 18 |  |  | FY 2013  | 1.062788                    |   |                 |             |   |           | 7                 | 0.0397               |
| 19 |  |  | FY 2014  | 1.084313                    |   |                 |             |   |           | 15                | 0.0457               |
| 20 |  |  | FY 2015  | 1.106094                    |   |                 |             |   |           |                   |                      |
| 21 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 22 | Res.   |  |  | Conservation                |   | Amount          | Amount      |   |           | NET               | Annual               |
| 23 | Stack  |  |  | Savings                     |   | Revenue         | Capitalized |   |           | Annual            | Debt service         |
| 24 | Order  | <u>Vintage Year</u>                                |  | aMW                         |   | Expensed        | & Debt      |   |           | Expenditures      | Whole                |
| 25 |  |  |  |                             |   |                 | Financed    |   |           |                   | Dollars              |
| 26 | <b>FY 2010 Conservation Resources Selected</b> |  |  |                             |   |                 |             |   |           |                   |                      |
| 27 | <b>1</b>                                       | <b><u>2004 Conservation - 2010\$\$</u></b>         |  | 31.4                        |   | 18,502.0        | 22,723.7    |   | 41,225.7  |                   |                      |
| 28 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | \$2,126,085.25       |
| 29 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$4,131,563.31       |
| 30 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 31 | <b>2</b>                                       | <b><u>2001 Conservation - 2010\$\$</u></b>         |  | 18.7                        |   | 24,855.2        | 71.2        |   | 24,926.4  |                   |                      |
| 32 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | \$6,661.65           |
| 33 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$5,550,255.78       |
| 34 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 35 | <b>4</b>                                       | <b><u>2006 Conservation - 2010\$\$</u></b>         |  | 30.2                        |   | 30,761.1        | 16,438.0    |   | 47,199.1  |                   |                      |
| 36 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 1,537,979.70         |
| 37 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$6,869,064.54       |
| 38 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 39 | <b>5</b>                                       | <b><u>2007 Conservation - 2010\$\$</u></b>         |  | 28.5                        |   | 41,499.7        | 11,453.5    |   | 52,953.2  |                   |                      |
| 40 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 1,071,617.62         |
| 41 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$9,267,032.64       |
| 42 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 43 | <b>6</b>                                       | <b><u>2003 Conservation - 2010\$\$</u></b>         |  | 25.2                        |   | 20,758.3        | 27,500.1    |   | 48,258.4  |                   |                      |
| 44 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 2,572,976.98         |
| 45 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$4,635,403.24       |
| 46 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 47 | <b>7</b>                                       | <b><u>2005 Conservation - 2010\$\$</u></b>         |  | 20.0                        |   | 25,443.0        | 16,719.5    |   | 42,162.5  |                   |                      |
| 48 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 1,564,317.53         |
| 49 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$5,681,513.64       |
| 50 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 51 | <b>8</b>                                       | <b><u>2002 Conservation - 2010\$\$</u></b>         |  | 26.1                        |   | 21,005.4        | 34,586.6    |   | 55,592.0  |                   |                      |
| 52 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 3,236,007.34         |
| 53 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$4,690,581.56       |
| 54 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 55 | <b>9</b>                                       | <b><u>2008 Conservation - 2010\$\$</u></b>         |  | 34.8                        |   | 65,070.9        | 8,214.0     |   | 73,284.9  |                   |                      |
| 56 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 768,522.04           |
| 57 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$14,530,566.59      |
| 58 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 59 | <b>12</b>                                      | <b><u>2009 Conservation - 2010\$\$</u></b>         |  | 40.1                        |   | 77,166.5        | 27,759.6    |   | 104,926.1 |                   |                      |
| 60 |  | Capitalized Costs - Debt Service Requirements      |  |                             |   |                 |             |   |           |                   | 2,597,256.44         |
| 61 |  | Expensed Costs /Deferral Debt Service Requirements |  |                             |   |                 |             |   |           |                   | \$17,231,557.68      |
| 62 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 63 |  | Page 1 of 10                                       |  |                             |   |                 |             |   |           |                   |                      |
| 64 |  |  |  |                             |   |                 |             |   |           |                   |                      |
| 65 |  |  |  |                             |   |                 |             |   |           |                   |                      |

|    | L  | M                                   | N        | O        | P        | Q        | R       | S       | T       | U       | V       | W       |
|----|--|-------------------------------------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |          |          |          |          |         |         |         |         |         |         |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |          |          |          |          |         |         |         |         |         |         |
| 3  | WP-10 Initial Rate Proposal  |                                     |          |          |          |          |         |         |         |         |         |         |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |          |          |          |          |         |         |         |         |         |         |
| 6  | Expensed costs are deferred and financed over 5-years                  |                                     |          |          |          |          |         |         |         |         |         |         |
| 8  |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 10 | ALTERNATIVE - 3  |                                     |          |          |          |          |         |         |         |         |         |         |
| 11 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 12 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 13 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 14 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 15 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 16 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 17 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 18 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 19 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 20 | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |          |          |          |          |         |         |         |         |         |         |
| 21 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 22 | Res.   |                                     |          |          |          |          |         |         |         |         |         |         |
| 23 | Stack  |                                     |          |          |          |          |         |         |         |         |         |         |
| 24 | Order  | FY 2010                             | FY 2011  | FY 2012  | FY 2013  | FY 2014  | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 |         |
| 25 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 26 | <b>FY 2010 Conservation Resources Selected</b>                         |                                     |          |          |          |          |         |         |         |         |         |         |
| 27 | <b>1</b>   | <b>2004 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 28 | Capital  | 2,126.1                             | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |
| 29 | Expense  | 4,131.6                             | 4,131.6  | 4,131.6  | 4,131.6  | 4,131.6  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 30 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 31 | <b>2</b>   | <b>2001 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 32 | Capital  | 6.7                                 | 6.7      | 6.7      | 6.7      | 6.7      | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |
| 33 | Expense  | 5,550.3                             | 5,550.3  | 5,550.3  | 5,550.3  | 5,550.3  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 34 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 35 | <b>4</b>   | <b>2006 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 36 | Capital  | 1,538.0                             | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |
| 37 | Expense  | 6,869.1                             | 6,869.1  | 6,869.1  | 6,869.1  | 6,869.1  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 38 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 39 | <b>5</b>   | <b>2007 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 40 | Capital  | 1,071.6                             | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |
| 41 | Expense  | 9,267.0                             | 9,267.0  | 9,267.0  | 9,267.0  | 9,267.0  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 42 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 43 | <b>6</b>   | <b>2003 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 44 | Capital  | 2,573.0                             | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |
| 45 | Expense  | 4,635.4                             | 4,635.4  | 4,635.4  | 4,635.4  | 4,635.4  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 46 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 47 | <b>7</b>   | <b>2005 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 48 | Capital  | 1,564.3                             | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |
| 49 | Expense  | 5,681.5                             | 5,681.5  | 5,681.5  | 5,681.5  | 5,681.5  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 50 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 51 | <b>8</b>   | <b>2002 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 52 | Capital  | 3,236.0                             | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |
| 53 | Expense  | 4,690.6                             | 4,690.6  | 4,690.6  | 4,690.6  | 4,690.6  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 54 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 55 | <b>9</b>   | <b>2008 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 56 | Capital  | 768.5                               | 768.5    | 768.5    | 768.5    | 768.5    | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   |
| 57 | Expense  | 14,530.6                            | 14,530.6 | 14,530.6 | 14,530.6 | 14,530.6 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 58 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 59 | <b>12</b>  | <b>2009 Conservation - 2010\$\$</b> |          |          |          |          |         |         |         |         |         |         |
| 60 | Capital  | 2,597.3                             | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |
| 61 | Expense  | 17,231.6                            | 17,231.6 | 17,231.6 | 17,231.6 | 17,231.6 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 63 | Page 2 of 10   |                                     |          |          |          |          |         |         |         |         |         |         |
| 64 |  |                                     |          |          |          |          |         |         |         |         |         |         |
| 65 |  |                                     |          |          |          |          |         |         |         |         |         |         |

|    | X  | Y  | Z       | AA      | AB      | AC      | AD      | AE      | AF      | AG      | AH      | AI |
|----|--|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |  |         |         |         |         |         |         |         |         |         |    |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |  |         |         |         |         |         |         |         |         |         |    |
| 3  | WP-10 Initial Rate Proposal  |  |         |         |         |         |         |         |         |         |         |    |
| 4  |  |  |         |         |         |         |         |         |         |         |         |    |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |         |         |         |         |         |         |         |         |         |    |
| 6  | Expensed costs are deferred and financed over 5-years                  |  |         |         |         |         |         |         |         |         |         |    |
| 7  |  |  |         |         |         |         |         |         |         |         |         |    |
| 8  |  |  |         |         |         |         |         |         |         |         |         |    |
| 9  |  |  |         |         |         |         |         |         |         |         |         |    |
| 10 | ALTERNATIVE - 3  |  |         |         |         |         |         |         |         |         |         |    |
| 11 |  |  |         |         |         |         |         |         |         |         |         |    |
| 12 |  |  |         |         |         |         |         |         |         |         |         |    |
| 13 |  |  |         |         |         |         |         |         |         |         |         |    |
| 14 |  |  |         |         |         |         |         |         |         |         |         |    |
| 15 |  |  |         |         |         |         |         |         |         |         |         |    |
| 16 |  |  |         |         |         |         |         |         |         |         |         |    |
| 17 |  |  |         |         |         |         |         |         |         |         |         |    |
| 18 |  |  |         |         |         |         |         |         |         |         |         |    |
| 19 |  |  |         |         |         |         |         |         |         |         |         |    |
| 20 | Debt Service Requirements - Principal and Interest (\$ 000)            |  |         |         |         |         |         |         |         |         |         |    |
| 21 |  |  |         |         |         |         |         |         |         |         |         |    |
| 22 | Res.   |  |         |         |         |         |         |         |         |         |         |    |
| 23 | Stack  |  |         |         |         |         |         |         |         |         |         |    |
| 24 | Order  | FY 2020                                    | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |    |
| 25 |  |  |         |         |         |         |         |         |         |         |         |    |
| 26 | <b><u>FY 2010 Conservation Resources Selected</u></b>                  |  |         |         |         |         |         |         |         |         |         |    |
| 27 | <b><u>1</u></b>  | <b><u>2004 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 28 | Capital  | 2,126.1                                    | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |         |         |         |         |         |    |
| 29 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 30 |  |  |         |         |         |         |         |         |         |         |         |    |
| 31 | <b><u>2</u></b>  | <b><u>2001 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 32 | Capital  | 6.7  | 6.7     | 6.7     | 6.7     | 6.7     |         |         |         |         |         |    |
| 33 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 34 |  |  |         |         |         |         |         |         |         |         |         |    |
| 35 | <b><u>4</u></b>  | <b><u>2006 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 36 | Capital  | 1,538.0                                    | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |         |         |         |         |         |    |
| 37 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 38 |  |  |         |         |         |         |         |         |         |         |         |    |
| 39 | <b><u>5</u></b>  | <b><u>2007 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 40 |  | 1,071.6                                    | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |         |         |         |         |         |    |
| 41 |  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 42 |  |  |         |         |         |         |         |         |         |         |         |    |
| 43 | <b><u>6</u></b>  | <b><u>2003 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 44 | Capital  | 2,573.0                                    | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |         |         |         |         |         |    |
| 45 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 46 |  |  |         |         |         |         |         |         |         |         |         |    |
| 47 | <b><u>7</u></b>  | <b><u>2005 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 48 | Capital  | 1,564.3                                    | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |         |         |         |         |         |    |
| 49 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 50 |  |  |         |         |         |         |         |         |         |         |         |    |
| 51 | <b><u>8</u></b>  | <b><u>2002 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 52 | Capital  | 3,236.0                                    | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |         |         |         |         |         |    |
| 53 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 54 |  |  |         |         |         |         |         |         |         |         |         |    |
| 55 | <b><u>9</u></b>  | <b><u>2008 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 56 | Capital  | 768.5                                      | 768.5   | 768.5   | 768.5   | 768.5   |         |         |         |         |         |    |
| 57 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 58 |  |  |         |         |         |         |         |         |         |         |         |    |
| 59 | <b><u>12</u></b>   | <b><u>2009 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 60 | Capital  | 2,597.3                                    | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |         |         |         |         |         |    |
| 61 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 62 |  |  |         |         |         |         |         |         |         |         |         |    |
| 63 | Page 3 of 10   |  |         |         |         |         |         |         |         |         |         |    |
| 64 |  |  |         |         |         |         |         |         |         |         |         |    |
| 65 |  |  |         |         |         |         |         |         |         |         |         |    |

|     | A   | B  | C  | D            | E | F        | G           | H | I            | J | K               |
|-----|---|--|--|--------------|---|----------|-------------|---|--------------|---|-----------------|
| 66  |   |  | Section 7(b)(2) Rate Test Study and Documentation                      |              |   |          |             |   |              |   |                 |
| 67  |   |  | Alternative Conservation Expense Accounting and Financing Treatments   |              |   |          |             |   |              |   |                 |
| 68  |   |  | WP-10 Initial Rate Proposal  |              |   |          |             |   |              |   |                 |
| 69  |   |  |  |              |   |          |             |   |              |   |                 |
| 70  |   |  | Scenario = Capitalized costs are amortized and financed over 15 years, |              |   |          |             |   |              |   |                 |
| 71  |   |  | Expensed costs are deferred and financed over 5-years                  |              |   |          |             |   |              |   |                 |
| 72  |   |  |  |              |   |          |             |   |              |   |                 |
| 73  |   |  | ALTERNATIVE - 3  |              |   |          |             |   |              |   |                 |
| 74  |   |  |  |              |   |          |             |   |              |   |                 |
| 75  |   |  |  |              |   |          |             |   |              |   |                 |
| 76  | Res.  |  |  | Conservation |   | Amount   | Amount      |   |              |   | Annual          |
| 77  | Stack   |  |  | Savings      |   | Revenue  | Capitalized |   | NET          |   | Debt service    |
| 78  | Order   | Vintage Year                                       |  | aMW          |   | Expensed | & Debt      |   | Annual       |   | Whole           |
| 79  |   |  |  |              |   |          | Financed    |   | Expenditures |   | Dollars         |
| 80  | <b><u>FY 2011 Conservation Resources Selected</u></b> |  |  |              |   |          |             |   |              |   |                 |
| 81  |   | 2015 Conservation - 2010\$\$                       |  | 38.8         |   | 83,126.7 | 43,034.3    |   | 126,161.1    |   |                 |
| 82  | <b>13</b>   | <b><u>2015 Conservation - 2011\$\$</u></b>         |  |              |   | 84,808.5 | 43,905.0    |   | 128,713.5    |   |                 |
| 83  |   | Capitalized Costs - Debt Service Requirements      |  |              |   |          |             |   |              |   | 4,107,859.76    |
| 84  |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |          |             |   |              |   | \$18,938,043.84 |
| 85  |   |  |  |              |   |          |             |   |              |   |                 |
| 86  | <b><u>FY 2012 Conservation Resources Selected</u></b> |  |  |              |   |          |             |   |              |   |                 |
| 87  |   | 2014 Conservation - 2010\$\$                       |  | 38.8         |   | 83,935.2 | 43,898.8    |   | 127,833.9    |   |                 |
| 88  | <b>14</b>   | <b><u>2014 Conservation - 2012\$\$</u></b>         |  |              |   | 87,425.4 | 45,724.2    |   | 133,149.6    |   |                 |
| 89  |   | Capitalized Costs - Debt Service Requirements      |  |              |   |          |             |   |              |   | 4,278,068.59    |
| 90  |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |          |             |   |              |   | \$19,522,407.04 |
| 91  |   |  |  |              |   |          |             |   |              |   |                 |
| 92  | <b><u>FY 2013 Conservation Resources Selected</u></b> |  |  |              |   |          |             |   |              |   |                 |
| 93  |   | 2013 Conservation - 2010\$\$                       |  | 38.8         |   | 84,924.7 | 44,787.8    |   | 129,712.6    |   |                 |
| 94  | <b>15</b>   | <b><u>2013 Conservation - 2013\$\$</u></b>         |  |              |   | 90,257.0 | 47,599.9    |   | 137,856.9    |   |                 |
| 95  |   | Capitalized Costs - Debt Service Requirements      |  |              |   |          |             |   |              |   | 4,453,563.69    |
| 96  |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |          |             |   |              |   | \$20,154,713.53 |
| 97  |   |  |  |              |   |          |             |   |              |   |                 |
| 98  | <b><u>FY 2014 Conservation Resources Selected</u></b> |  |  |              |   |          |             |   |              |   |                 |
| 99  |   | 2012 Conservation - 2010\$\$                       |  | 38.8         |   | 85,909.7 | 45,699.7    |   | 131,609.5    |   |                 |
| 100 | <b>16</b>   | <b><u>2012 Conservation - 2014\$\$</u></b>         |  |              |   | 93,153.0 | 49,552.8    |   | 142,705.8    |   |                 |
| 101 |   | Capitalized Costs - Debt Service Requirements      |  |              |   |          |             |   |              |   | 4,636,281.82    |
| 102 |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |          |             |   |              |   | \$20,801,400.78 |
| 103 |   |  |  |              |   |          |             |   |              |   |                 |
| 104 | <b><u>FY 2015 Conservation Resources Selected</u></b> |  |  |              |   |          |             |   |              |   |                 |
| 105 |   | 2011 Conservation - 2010\$\$                       |  | 34.6         |   | 84,552.3 | 38,324.6    |   | 122,876.9    |   |                 |
| 106 | <b>17</b>   | <b><u>2011 Conservation - 2015\$\$</u></b>         |  |              |   | 93,522.8 | 42,390.6    |   | 135,913.4    |   |                 |
| 107 |   | Capitalized Costs - Debt Service Requirements      |  |              |   |          |             |   |              |   | 3,966,168.77    |
| 108 |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |          |             |   |              |   | \$20,883,978.45 |
| 109 |   |  |  |              |   |          |             |   |              |   |                 |
| 110 |   |  |  |              |   |          |             |   |              |   |                 |
| 111 |   |  |  |              |   |          |             |   |              |   |                 |
| 112 |   |  |  |              |   |          |             |   |              |   |                 |
| 113 |   |  |  |              |   |          |             |   |              |   |                 |
| 114 |   |  |  |              |   |          |             |   |              |   |                 |
| 115 |   |  |  |              |   |          |             |   |              |   |                 |
| 116 |   |  |  |              |   |          |             |   |              |   |                 |
| 117 |   |  |  |              |   |          |             |   |              |   |                 |
| 118 |   |  |  |              |   |          |             |   |              |   |                 |
| 119 |   |  |  |              |   |          |             |   |              |   |                 |
| 120 |   |  |  |              |   |          |             |   |              |   |                 |
| 121 |   |  |  |              |   |          |             |   |              |   |                 |
| 122 |   |  |  |              |   |          |             |   |              |   |                 |
| 123 |   |  |  |              |   |          |             |   |              |   |                 |
| 124 |   |  |  |              |   |          |             |   |              |   |                 |
| 125 |   |  |  |              |   |          |             |   |              |   |                 |
| 126 |   |  |  |              |   |          |             |   |              |   |                 |



|     | L  | M                                   | N              | O              | P              | Q              | R              | S              | T              | U              | V              | W        |
|-----|--|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |                |                |                |                |                |                |                |                |                |          |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |                |                |                |                |                |                |                |                |                |          |
| 68  | WP-10 Initial Rate Proposal  |                                     |                |                |                |                |                |                |                |                |                |          |
| 69  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |                |                |                |                |                |                |                |                |                |          |
| 71  | Expensed costs are deferred and financed over 5-years                  |                                     |                |                |                |                |                |                |                |                |                |          |
| 72  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 73  | ALTERNATIVE - 3  |                                     |                |                |                |                |                |                |                |                |                |          |
| 74  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |                |                |                |                |                |                |                |                |                |          |
| 76  | Res.   |                                     |                |                |                |                |                |                |                |                |                |          |
| 77  | Stack  |                                     |                |                |                |                |                |                |                |                |                |          |
| 78  | Order  | <u>FY 2010</u>                      | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> |          |
| 79  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 80  | <u>FY 2011 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 81  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 82  | <b>13</b>  | <u>2015 Conservation - 2011\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 83  | Capital  | 0.0                                 | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9  |
| 84  | Expense  | 0.0                                 | 18,938.0       | 18,938.0       | 18,938.0       | 18,938.0       | 18,938.0       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0      |
| 85  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 86  | <u>FY 2012 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 87  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 88  | <b>14</b>  | <u>2014 Conservation - 2012\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 89  | Capital  | 0.0                                 | 0.0            | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1  |
| 90  | Expense  | 0.0                                 | 0.0            | 19,522.4       | 19,522.4       | 19,522.4       | 19,522.4       | 19,522.4       | 0.0            | 0.0            | 0.0            | 0.0      |
| 91  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 92  | <u>FY 2013 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 93  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 94  | <b>15</b>  | <u>2013 Conservation - 2013\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 95  | Capital  | 0.0                                 | 0.0            | 0.0            | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6  |
| 96  | Expense  | 0.0                                 | 0.0            | 0.0            | 20,154.7       | 20,154.7       | 20,154.7       | 20,154.7       | 20,154.7       | 0.0            | 0.0            | 0.0      |
| 97  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 98  | <u>FY 2014 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 99  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 100 | <b>16</b>  | <u>2012 Conservation - 2014\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 101 | Capital  | 0.0                                 | 0.0            | 0.0            | 0.0            | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3  |
| 102 | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 20,801.4       | 20,801.4       | 20,801.4       | 20,801.4       | 20,801.4       | 20,801.4       | 0.0      |
| 103 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 104 | <u>FY 2015 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 105 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 106 | <b>17</b>  | <u>2011 Conservation - 2015\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 107 | Capital  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2  |
| 108 | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 20,884.0       | 20,884.0       | 20,884.0       | 20,884.0       | 20,884.0       | 20,884.0 |
| 109 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 110 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 111 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 112 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 113 | TCC  | 15,481.5                            | 19,589.4       | 23,867.5       | 28,321.1       | 32,957.4       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6 |
| 114 | TEC  | 72,587.7                            | 91,525.7       | 111,048.1      | 131,202.8      | 152,004.2      | 100,300.5      | 81,362.5       | 61,840.1       | 41,685.4       | 20,884.0       |          |
| 115 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 116 | TDSR   | 88,069.2                            | 111,115.1      | 134,915.6      | 159,523.9      | 184,961.6      | 137,224.1      | 118,286.1      | 98,763.7       | 78,609.0       | 57,807.6       |          |
| 117 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 118 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 119 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 120 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 121 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 122 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 123 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 124 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 125 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 126 |  |                                     |                |                |                |                |                |                |                |                |                |          |

|     | X  | Y                                   | Z              | AA             | AB             | AC             | AD             | AE             | AF             | AG             | AH             | AI      |
|-----|--|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |                |                |                |                |                |                |                |                |                |         |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |                |                |                |                |                |                |                |                |                |         |
| 68  | WP-10 Initial Rate Proposal  |                                     |                |                |                |                |                |                |                |                |                |         |
| 69  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |                |                |                |                |                |                |                |                |                |         |
| 71  | Expensed costs are deferred and financed over 5-years                  |                                     |                |                |                |                |                |                |                |                |                |         |
| 72  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 73  | ALTERNATIVE - 3  |                                     |                |                |                |                |                |                |                |                |                |         |
| 74  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |                |                |                |                |                |                |                |                |                |         |
| 76  | Res.   |                                     |                |                |                |                |                |                |                |                |                |         |
| 77  | Stack  |                                     |                |                |                |                |                |                |                |                |                |         |
| 78  | Order  | <u>FY 2020</u>                      | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>FY 2027</u> | <u>FY 2028</u> | <u>FY 2029</u> |         |
| 79  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 80  | <u>FY 2011 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 81  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 82  | <b>13</b>  | <u>2015 Conservation - 2011\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 83  | Capital  | 4,107.9                             | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        |                |                |                |                |         |
| 84  | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |         |
| 85  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 86  | <u>FY 2012 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 87  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 88  | <b>14</b>  | <u>2014 Conservation - 2012\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 89  | Capital  | 4,278.1                             | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        |                |                |                |         |
| 90  | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |         |
| 91  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 92  | <u>FY 2013 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 93  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 94  | <b>15</b>  | <u>2013 Conservation - 2013\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 95  | Capital  | 4,453.6                             | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        |                |                |         |
| 96  | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |         |
| 97  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 98  | <u>FY 2014 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 99  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 100 | <b>16</b>  | <u>2012 Conservation - 2014\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 101 | Capital  | 4,636.3                             | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        |                |         |
| 102 | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |         |
| 103 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 104 | <u>FY 2015 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 105 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 106 | <b>17</b>  | <u>2011 Conservation - 2015\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 107 | Capital  | 3,966.2                             | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2 |
| 108 | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0     |
| 109 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 110 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 111 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 112 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 113 | TCC  | 36,923.6                            | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |         |
| 114 | TEC  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0     |
| 115 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 116 | TDSR   | 36,923.6                            | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |         |
| 117 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 118 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 119 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 120 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 121 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 122 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 123 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 124 | Page 6 of 10   |                                     |                |                |                |                |                |                |                |                |                |         |
| 125 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 126 |  |                                     |                |                |                |                |                |                |                |                |                |         |

|    | A            | B | C   | D          | E                   | F          | G          | H          | I          | J         | K         | L         |
|----|--------------|---|---|------------|---------------------|------------|------------|------------|------------|-----------|-----------|-----------|
| 1  |              |   | Section 7(b)(2) Rate Test Study and Documentation                     |            |                     |            |            |            |            |           |           |           |
| 2  |              |   | Alternative Conservation Expense Accounting and Financing Treatments  |            |                     |            |            |            |            |           |           |           |
| 3  |              |   | WP-10 Initial Rate Proposal   |            |                     |            |            |            |            |           |           |           |
| 4  |              |   |   |            |                     |            |            |            |            |           |           |           |
| 5  |              |   | Scenario = Capitalized costs amortized / financed over 15 years,      |            |                     |            |            |            |            |           |           |           |
| 6  |              |   | = Expensed costs are deferred and amortized / financed over 5 - years |            |                     |            |            |            |            |           |           |           |
| 7  |              |   |   |            |                     |            |            |            |            |           |           |           |
| 8  |              |   | ALTERNATIVE - 3   |            |                     |            |            |            |            |           |           |           |
| 9  |              |   |   |            |                     |            |            |            |            |           |           |           |
| 10 |              |   | Amortization of Principal - (whole dollars)                           |            |                     |            |            |            |            |           |           |           |
|    |              |   |   |            | <u>Total</u>        |            |            |            |            |           |           |           |
|    |              |   |   |            | <u>Amortization</u> |            |            |            |            |           |           |           |
|    |              |   |   |            | <u>of Principal</u> |            |            |            |            |           |           |           |
| 11 | <u>Res.</u>  |   |   |            |                     |            |            |            |            |           |           |           |
| 12 | <u>Stack</u> |   |   |            |                     |            |            |            |            |           |           |           |
| 13 | <u>Order</u> |   | <u>Vintage Year</u>   |            |                     |            |            |            |            |           |           |           |
| 14 |              |   |   |            |                     |            |            |            |            |           |           |           |
| 15 |              |   | <b><u>FY 2010 Conservation Resources Selected</u></b>                 |            |                     |            |            |            |            |           |           |           |
| 16 |              |   | FY 2010 Conservation (9) Res. Selected - Total MW =                   | 255        |                     |            |            |            |            |           |           |           |
| 17 |              |   | <b><u>1 2004 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 18 |              |   | Capital Expenditures - Amort. of Principal                            | 22,723,700 | 1,087,612           | 1,137,316  | 1,189,291  | 1,243,642  | 1,300,476  | 1,359,908 | 1,422,056 | 1,487,044 |
| 19 |              |   | Expense Expenditures - Amort. of Principal                            | 18,502,000 | 3,430,337           | 3,560,347  | 3,695,284  | 3,835,335  | 3,980,697  | 0         | 0         | 0         |
| 20 |              |   | <b><u>2 2001 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 21 |              |   | Capital Expenditures - Amort. of Principal                            | 71,200     | 3,408               | 3,564      | 3,727      | 3,897      | 4,075      | 4,261     | 4,456     | 4,660     |
| 22 |              |   | Expense Expenditures - Amort. of Principal                            | 24,855,200 | 4,608,244           | 4,782,896  | 4,964,168  | 5,152,310  | 5,347,582  | 0         | 0         | 0         |
| 23 |              |   | <b><u>4 2006 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 24 |              |   | Capital Expenditures - Amort. of Principal                            | 16,438,000 | 786,763             | 822,718    | 860,317    | 899,633    | 940,746    | 983,738   | 1,028,695 | 1,075,707 |
| 25 |              |   | Expense Expenditures - Amort. of Principal                            | 30,761,100 | 5,703,219           | 5,919,371  | 6,143,715  | 6,376,562  | 6,618,233  | 0         | 0         | 0         |
| 26 |              |   | <b><u>5 2007 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 27 |              |   | Capital Expenditures - Amort. of Principal                            | 11,453,500 | 548,193             | 573,245    | 599,443    | 626,837    | 655,484    | 685,439   | 716,764   | 749,520   |
| 28 |              |   | Expense Expenditures - Amort. of Principal                            | 41,499,700 | 7,694,194           | 7,985,804  | 8,288,466  | 8,602,599  | 8,928,637  | 0         | 0         | 0         |
| 29 |              |   | <b><u>6 2003 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 30 |              |   | Capital Expenditures - Amort. of Principal                            | 27,500,100 | 1,316,222           | 1,376,374  | 1,439,274  | 1,505,049  | 1,573,830  | 1,645,754 | 1,720,965 | 1,799,613 |
| 31 |              |   | Expense Expenditures - Amort. of Principal                            | 20,758,300 | 3,848,663           | 3,994,528  | 4,145,920  | 4,303,051  | 4,466,138  | 0         | 0         | 0         |
| 32 |              |   | <b><u>7 2005 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 33 |              |   | Capital Expenditures - Amort. of Principal                            | 16,719,500 | 800,237             | 836,808    | 875,050    | 915,040    | 956,857    | 1,000,585 | 1,046,312 | 1,094,128 |
| 34 |              |   | Expense Expenditures - Amort. of Principal                            | 25,443,000 | 4,717,224           | 4,896,007  | 5,081,566  | 5,274,157  | 5,474,046  | 0         | 0         | 0         |
| 35 |              |   | <b><u>8 2002 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 36 |              |   | Capital Expenditures - Amort. of Principal                            | 34,586,600 | 1,655,399           | 1,731,051  | 1,810,160  | 1,892,884  | 1,979,389  | 2,069,847 | 2,164,439 | 2,263,354 |
| 37 |              |   | Expense Expenditures - Amort. of Principal                            | 21,005,400 | 3,894,477           | 4,042,078  | 4,195,273  | 4,354,274  | 4,519,298  | 0         | 0         | 0         |
| 38 |              |   | <b><u>9 2008 Conservation - 2010\$\$</u></b>                          |            |                     |            |            |            |            |           |           |           |
| 39 |              |   | Capital Expenditures - Amort. of Principal                            | 8,214,000  | 393,142             | 411,109    | 429,896    | 449,543    | 470,087    | 491,570   | 514,035   | 537,526   |
| 40 |              |   | Expense Expenditures - Amort. of Principal                            | 65,070,900 | 12,064,380          | 12,521,620 | 12,996,189 | 13,488,745 | 13,999,966 | 0         | 0         | 0         |
| 41 |              |   | <b><u>12 2009 Conservation - 2010\$\$</u></b>                         |            |                     |            |            |            |            |           |           |           |
| 42 |              |   | Capital Expenditures - Amort. of Principal                            | 27,759,600 | 1,328,642           | 1,389,361  | 1,452,855  | 1,519,250  | 1,588,680  | 1,661,283 | 1,737,204 | 1,816,594 |
| 43 |              |   | Expense Expenditures - Amort. of Principal                            | 77,166,500 | 14,306,948          | 14,849,181 | 15,411,965 | 15,996,078 | 16,602,328 | 0         | 0         | 0         |
| 44 |              |   | Page 7 of 10  |            |                     |            |            |            |            |           |           |           |
| 45 |              |   |   |            |                     |            |            |            |            |           |           |           |

|    | A | B                      | C   | M         | N         | O         | P         | Q         | R         | S         | T       | U       | V       | W       | X       |
|----|---|------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|
| 1  |   |                        | Section 7(b)(2) Rate Test Study and Documentation                     |           |           |           |           |           |           |           |         |         |         |         |         |
| 2  |   |                        | Alternative Conservation Expense Accounting and Financing Treatments  |           |           |           |           |           |           |           |         |         |         |         |         |
| 3  |   |                        | WP-10 Initial Rate Proposal   |           |           |           |           |           |           |           |         |         |         |         |         |
| 5  |   |                        | Scenario = Capitalized costs amortized / financed over 15 years,      |           |           |           |           |           |           |           |         |         |         |         |         |
| 6  |   |                        | = Expensed costs are deferred and amortized / financed over 5 - years |           |           |           |           |           |           |           |         |         |         |         |         |
| 8  |   |                        | ALTERNATIVE - 3   |           |           |           |           |           |           |           |         |         |         |         |         |
| 9  |   |                        | Amortization of Principal - (whole dollars)                           |           |           |           |           |           |           |           |         |         |         |         |         |
| 10 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |
|    |   | Res.<br>Stack<br>Order | Vintage Year  | FY 2018   | FY 2019   | FY 2020   | FY 2021   | FY 2022   | FY 2023   | FY 2024   | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |
| 11 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |
| 12 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |
| 13 |   |                        | <b><u>FY 2010 Conservation Resources Selected</u></b>                 |           |           |           |           |           |           |           |         |         |         |         |         |
| 14 |   |                        | FY 2010 Conservation (9) Res. Selected - Total MW =                   |           |           |           |           |           |           |           |         |         |         |         |         |
| 15 |   |                        | <b><u>1 2004 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 16 |   |                        | Capital Expenditures - Amort. of Principal                            | 1,555,002 | 1,626,065 | 1,700,376 | 1,778,084 | 1,859,342 | 1,944,314 | 2,033,172 |         |         |         |         |         |
| 17 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 18 |   |                        | <b><u>2 2001 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 19 |   |                        | Capital Expenditures - Amort. of Principal                            | 4,873     | 5,095     | 5,328     | 5,572     | 5,826     | 6,093     | 6,365     |         |         |         |         |         |
| 20 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 21 |   |                        | <b><u>4 2006 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 22 |   |                        | Capital Expenditures - Amort. of Principal                            | 1,124,866 | 1,176,273 | 1,230,029 | 1,286,241 | 1,345,022 | 1,406,490 | 1,470,762 |         |         |         |         |         |
| 23 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 24 |   |                        | <b><u>5 2007 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 25 |   |                        | Capital Expenditures - Amort. of Principal                            | 783,773   | 819,592   | 857,047   | 896,214   | 937,171   | 980,000   | 1,024,778 |         |         |         |         |         |
| 26 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 27 |   |                        | <b><u>6 2003 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 28 |   |                        | Capital Expenditures - Amort. of Principal                            | 1,881,855 | 1,967,856 | 2,057,787 | 2,151,828 | 2,250,166 | 2,352,999 | 2,460,528 |         |         |         |         |         |
| 29 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 30 |   |                        | <b><u>7 2005 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 31 |   |                        | Capital Expenditures - Amort. of Principal                            | 1,144,130 | 1,196,417 | 1,251,093 | 1,308,268 | 1,368,056 | 1,430,576 | 1,495,943 |         |         |         |         |         |
| 32 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 33 |   |                        | <b><u>8 2002 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 34 |   |                        | Capital Expenditures - Amort. of Principal                            | 2,366,789 | 2,474,952 | 2,588,057 | 2,706,331 | 2,830,011 | 2,959,342 | 3,094,595 |         |         |         |         |         |
| 35 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 36 |   |                        | <b><u>9 2008 Conservation - 2010\$\$</u></b>                          |           |           |           |           |           |           |           |         |         |         |         |         |
| 37 |   |                        | Capital Expenditures - Amort. of Principal                            | 562,091   | 587,778   | 614,640   | 642,729   | 672,102   | 702,817   | 734,935   |         |         |         |         |         |
| 38 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 39 |   |                        | <b><u>12 2009 Conservation - 2010\$\$</u></b>                         |           |           |           |           |           |           |           |         |         |         |         |         |
| 40 |   |                        | Capital Expenditures - Amort. of Principal                            | 1,899,612 | 1,986,424 | 2,077,204 | 2,172,132 | 2,271,399 | 2,375,202 | 2,483,758 |         |         |         |         |         |
| 41 |   |                        | Expense Expenditures - Amort. of Principal                            | 0         | 0         | 0         | 0         | 0         | 0         | 0         |         |         |         |         |         |
| 42 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |
| 43 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |
| 44 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |
| 45 |   |                        |   |           |           |           |           |           |           |           |         |         |         |         |         |

|    | A | B  | C   | D                                  | E          | F          | G           | H           | I           | J            | K          | L          |
|----|---|--|---|------------------------------------|------------|------------|-------------|-------------|-------------|--------------|------------|------------|
| 46 |   |  | Section 7(b)(2) Rate Test Study and Documentation                     |                                    |            |            |             |             |             |              |            |            |
| 47 |   |  | Alternative Conservation Expense Accounting and Financing Treatments  |                                    |            |            |             |             |             |              |            |            |
| 48 |   |  | WP-10 Initial Rate Proposal   |                                    |            |            |             |             |             |              |            |            |
| 50 |   |  | Scenario = Capitalized costs amortized / financed over 15 years,      |                                    |            |            |             |             |             |              |            |            |
| 51 |   |  | = Expensed costs are deferred and amortized / financed over 5 - years |                                    |            |            |             |             |             |              |            |            |
| 53 |   |  | ALTERNATIVE - 3   |                                    |            |            |             |             |             |              |            |            |
| 54 |   |  | Amortization of Principal - (whole dollars)                           |                                    |            |            |             |             |             |              |            |            |
| 55 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 56 |   | Res.<br>Stack<br>Order   | Vintage Year  | Total Amortization<br>of Principal | FY 2010    | FY 2011    | FY 2012     | FY 2013     | FY 2014     | FY 2015      | FY 2016    | FY 2017    |
| 57 |   | <b>FY 2011 Conservation Resources Selected</b>                 |   |                                    |            |            |             |             |             |              |            |            |
| 58 |   | 13   | 2015 Conservation - 2011\$\$  | 43,905,000                         | 0          | 2,101,401  | 2,197,436   | 2,297,858   | 2,402,870   | 2,512,682    | 2,627,511  | 2,747,588  |
| 59 |   |  | Capital Expenditures - Amort. of Principal                            | 84,808,500                         | 0          | 15,723,802 | 16,319,734  | 16,938,252  | 17,580,212  | 18,246,500   | 0          | 0          |
| 60 |   |  | Expense Expenditures - Amort. of Principal                            |                                    |            |            |             |             |             |              |            |            |
| 61 |   | <b>FY 2012 Conservation Resources Selected</b>                 |   |                                    |            |            |             |             |             |              |            |            |
| 62 |   | 14   | 2014 Conservation - 2012\$\$  |                                    |            |            |             |             |             |              |            |            |
| 63 |   |  | Capital Expenditures - Amort. of Principal                            | 45,724,200                         | 0          | 0          | 2,188,473   | 2,288,486   | 2,393,070   | 2,502,433    | 2,616,795  | 2,736,382  |
| 64 |   |  | Expense Expenditures - Amort. of Principal                            | 87,425,400                         | 0          | 0          | 16,208,984  | 16,823,305  | 17,460,908  | 18,122,677   | 18,809,526 | 0          |
| 65 |   | <b>FY 2013 Conservation Resources Selected</b>                 |   |                                    |            |            |             |             |             |              |            |            |
| 66 |   | 15   | 2013 Conservation - 2013\$\$  |                                    |            |            |             |             |             |              |            |            |
| 67 |   |  | Capital Expenditures - Amort. of Principal                            | 47,599,900                         | 0          | 0          | 0           | 2,278,249   | 2,382,365   | 2,491,239    | 2,605,088  | 2,724,141  |
| 68 |   |  | Expense Expenditures - Amort. of Principal                            | 90,257,000                         | 0          | 0          | 0           | 16,733,974  | 17,368,191  | 18,026,446   | 18,709,648 | 19,418,741 |
| 69 |   | <b>FY 2014 Conservation Resources Selected</b>                 |   |                                    |            |            |             |             |             |              |            |            |
| 70 |   | 16   | 2012 Conservation - 2014\$\$  |                                    |            |            |             |             |             |              |            |            |
| 71 |   |  | Capital Expenditures - Amort. of Principal                            | 49,552,800                         | 0          | 0          | 0           | 0           | 2,371,719   | 2,480,107    | 2,593,447  | 2,711,968  |
| 72 |   |  | Expense Expenditures - Amort. of Principal                            | 93,153,000                         | 0          | 0          | 0           | 0           | 17,270,902  | 17,925,469   | 18,604,845 | 19,309,968 |
| 73 |   | <b>FY 2015 Conservation Resources Selected</b>                 |   |                                    |            |            |             |             |             |              |            |            |
| 74 |   | 17   | 2011 Conservation - 2015\$\$  |                                    |            |            |             |             |             |              |            |            |
| 75 |   |  | Capital Expenditures - Amort. of Principal                            | 42,390,600                         | 0          | 0          | 0           | 0           | 0           | 2,028,919    | 2,121,640  | 2,218,599  |
| 76 |   |  | Expense Expenditures - Amort. of Principal                            | 93,522,800                         | 0          | 0          | 0           | 0           | 0           | 17,339,464   | 17,996,630 | 18,678,702 |
| 77 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 78 |   | TOTALS - CAPITAL EXPENDITURES -                                |   | 394,638,700                        |            |            |             |             |             |              |            |            |
| 79 |   | AMORTIZATION OF PRINCIPAL                                      |   | 394,638,700                        | 7,919,618  | 10,382,947 | 13,045,922  | 15,920,368  | 19,019,648  | 21,917,765   | 22,919,407 | 23,966,824 |
| 80 |   | TOTALS - EXPENSE EXPENDITURES -                                |   | 774,228,800                        |            |            |             |             |             |              |            |            |
| 81 |   | AMORTIZATION OF PRINCIPAL                                      |   | 774,228,800                        | 60,267,686 | 78,275,634 | 97,451,264  | 117,878,642 | 139,617,138 | 89,660,556   | 74,120,649 | 57,407,411 |
| 82 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 83 |   | TOTAL CONSERVATION PRINCIPAL COSTS                             |   | 1,168,867,500                      | 68,187,304 | 88,658,581 | 110,497,186 | 133,799,010 | 158,636,786 | 111,578,321  | 97,040,056 | 81,374,235 |
| 84 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 85 |   | PERCENTAGE OF TOTAL PRINCIPAL PAID                             |   | 100.00%                            | 5.83%      | 7.58%      | 9.45%       | 11.45%      | 13.57%      | 9.55%        | 8.30%      | 6.96%      |
| 86 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 87 |   | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID                  |   |                                    | 5.83%      | 13.41%     | 22.86%      | 34.31%      | 47.88%      | 57.43%       | 65.73%     | 72.69%     |
| 88 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 89 |   | PERCENTAGE OF TOTAL PRINCIPLE PAID DURING THE RATE TEST PERIOD |   |                                    |            |            |             |             |             | 57.43%       |            |            |
| 90 |   | TOTAL INTEREST PAID ON EXPENSED PORTION                        |   |                                    |            |            |             |             |             | \$90,212,200 |            |            |
| 91 |   | INTEREST EXPENSE - % OF EXPENSED CONSERVATION EXPENDITURES     |   |                                    |            |            |             |             |             | 11.65%       |            |            |
| 92 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 93 |   | Page 9 of 10   |   |                                    |            |            |             |             |             |              |            |            |
| 94 |   |  |   |                                    |            |            |             |             |             |              |            |            |
| 95 |   |  |   |                                    |            |            |             |             |             |              |            |            |

|    | A | B  | C   | M          | N          | O          | P          | Q          | R          | S          | T          | U          | V          | W         | X         |
|----|---|--|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| 46 |   |  | Section 7(b)(2) Rate Test Study and Documentation                     |            |            |            |            |            |            |            |            |            |            |           |           |
| 47 |   |  | Alternative Conservation Expense Accounting and Financing Treatments  |            |            |            |            |            |            |            |            |            |            |           |           |
| 48 |   |  | WP-10 Initial Rate Proposal   |            |            |            |            |            |            |            |            |            |            |           |           |
| 49 |   |  | Scenario = Capitalized costs amortized / financed over 15 years,      |            |            |            |            |            |            |            |            |            |            |           |           |
| 50 |   |  | = Expensed costs are deferred and amortized / financed over 5 - years |            |            |            |            |            |            |            |            |            |            |           |           |
| 51 |   |  | ALTERNATIVE - 3   |            |            |            |            |            |            |            |            |            |            |           |           |
| 52 |   |  | Amortization of Principal - (whole dollars)                           |            |            |            |            |            |            |            |            |            |            |           |           |
| 53 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 54 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 55 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 56 |   | Res.<br>Stack<br>Order                         | Vintage Year  | FY 2018    | FY 2019    | FY 2020    | FY 2021    | FY 2022    | FY 2023    | FY 2024    | FY 2025    | FY 2026    | FY 2027    | FY 2028   | FY 2029   |
| 57 |   | <b>FY 2011 Conservation Resources Selected</b> |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 58 |   | 13   | 2015 Conservation - 2011\$\$  | 2,873,153  | 3,004,456  | 3,141,760  | 3,285,338  | 3,435,478  | 3,592,480  | 3,756,656  | 3,928,333  |            |            |           |           |
| 59 |   |  | Capital Expenditures - Amort. of Principal                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |            |            |           |           |
| 60 |   |  | Expense Expenditures - Amort. of Principal                            |            |            |            |            |            |            |            |            |            |            |           |           |
| 61 |   | <b>FY 2012 Conservation Resources Selected</b> |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 62 |   | 14   | 2014 Conservation - 2012\$\$  |            |            |            |            |            |            |            |            |            |            |           |           |
| 63 |   |  | Capital Expenditures - Amort. of Principal                            | 2,861,435  | 2,992,202  | 3,128,946  | 3,271,939  | 3,421,466  | 3,577,827  | 3,741,334  | 3,912,313  | 4,091,099  |            |           |           |
| 64 |   |  | Expense Expenditures - Amort. of Principal                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |            |           |           |
| 65 |   | <b>FY 2013 Conservation Resources Selected</b> |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 66 |   | 15   | 2013 Conservation - 2013\$\$  |            |            |            |            |            |            |            |            |            |            |           |           |
| 67 |   |  | Capital Expenditures - Amort. of Principal                            | 2,848,634  | 2,978,817  | 3,114,949  | 3,257,302  | 3,406,160  | 3,561,822  | 3,724,597  | 3,894,811  | 4,072,804  | 4,258,922  |           |           |
| 68 |   |  | Expense Expenditures - Amort. of Principal                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |           |           |
| 69 |   | <b>FY 2014 Conservation Resources Selected</b> |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 70 |   | 16   | 2012 Conservation - 2014\$\$  |            |            |            |            |            |            |            |            |            |            |           |           |
| 71 |   |  | Capital Expenditures - Amort. of Principal                            | 2,835,905  | 2,965,506  | 3,101,029  | 3,242,746  | 3,390,940  | 3,545,906  | 3,707,954  | 3,877,407  | 4,054,605  | 4,239,900  | 4,433,661 |           |
| 72 |   |  | Expense Expenditures - Amort. of Principal                            | 20,041,816 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         |           |
| 73 |   | <b>FY 2015 Conservation Resources Selected</b> |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 74 |   | 17   | 2011 Conservation - 2015\$\$  |            |            |            |            |            |            |            |            |            |            |           |           |
| 75 |   |  | Capital Expenditures - Amort. of Principal                            | 2,319,989  | 2,426,013  | 2,536,881  | 2,652,817  | 2,774,051  | 2,900,825  | 3,033,392  | 3,172,018  | 3,316,980  | 3,468,566  | 3,627,079 | 3,792,831 |
| 76 |   |  | Expense Expenditures - Amort. of Principal                            | 19,386,625 | 20,121,379 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         |
| 77 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 78 |   | TOTALS - CAPITAL EXPENDITURES -                |   | 25,062,107 | 26,207,446 | 27,405,126 | 28,657,541 | 29,967,190 | 31,336,693 | 32,768,769 | 18,784,882 | 15,535,488 | 11,967,388 | 8,060,740 | 3,792,831 |
| 79 |   | AMORTIZATION OF PRINCIPAL                      |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 80 |   | TOTALS - EXPENSE EXPENDITURES -                |   | 39,428,441 | 20,121,379 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         |
| 81 |   | AMORTIZATION OF PRINCIPAL                      |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 82 |   | TOTAL CONSERVATION PRINCIPAL COSTS             |   | 64,490,548 | 46,328,825 | 27,405,126 | 28,657,541 | 29,967,190 | 31,336,693 | 32,768,769 | 18,784,882 | 15,535,488 | 11,967,388 | 8,060,740 | 3,792,831 |
| 83 |   | PERCENTAGE OF TOTAL PRINCIPAL PAID             |   | 5.52%      | 3.96%      | 2.34%      | 2.45%      | 2.56%      | 2.68%      | 2.80%      | 1.61%      | 1.33%      | 1.02%      | 0.69%     | 0.32%     |
| 84 |   | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID  |   | 78.21%     | 82.17%     | 84.51%     | 86.96%     | 89.52%     | 92.20%     | 95.00%     | 96.61%     | 97.94%     | 98.96%     | 99.65%    | 99.97%    |
| 85 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 86 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 87 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 88 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 89 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 90 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 91 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 92 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 93 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 94 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |
| 95 |   |  |   |            |            |            |            |            |            |            |            |            |            |           |           |

|    | A  | B | C | D | E | F | G | H | I | J | K |
|----|--|---|---|---|---|---|---|---|---|---|---|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |   |   |   |   |   |   |   |   |   |   |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |   |   |   |   |   |   |   |   |   |   |
| 3  | WP-10 Initial Rate Proposal  |   |   |   |   |   |   |   |   |   |   |
| 4  |  |   |   |   |   |   |   |   |   |   |   |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |   |   |   |   |   |   |   |   |   |   |
| 6  | Expensed costs are deferred and financed over 6-years                  |   |   |   |   |   |   |   |   |   |   |
| 7  |  |   |   |   |   |   |   |   |   |   |   |
| 8  | ALTERNATIVE - 4  |   |   |   |   |   |   |   |   |   |   |
| 9  |  |   |   |   |   |   |   |   |   |   |   |
| 10 |  |   |   |   |   |   |   |   |   |   |   |
| 11 |  |   |   |   |   |   |   |   |   |   |   |
| 12 |  |   |   |   |   |   |   |   |   |   |   |
| 13 |  |   |   |   |   |   |   |   |   |   |   |
| 14 |  |   |   |   |   |   |   |   |   |   |   |
| 15 |  |   |   |   |   |   |   |   |   |   |   |
| 16 |  |   |   |   |   |   |   |   |   |   |   |
| 17 |  |   |   |   |   |   |   |   |   |   |   |
| 18 |  |   |   |   |   |   |   |   |   |   |   |
| 19 |  |   |   |   |   |   |   |   |   |   |   |
| 20 |  |   |   |   |   |   |   |   |   |   |   |
| 21 |  |   |   |   |   |   |   |   |   |   |   |
| 22 |  |   |   |   |   |   |   |   |   |   |   |
| 23 |  |   |   |   |   |   |   |   |   |   |   |
| 24 |  |   |   |   |   |   |   |   |   |   |   |
| 25 |  |   |   |   |   |   |   |   |   |   |   |
| 26 |  |   |   |   |   |   |   |   |   |   |   |
| 27 |  |   |   |   |   |   |   |   |   |   |   |
| 28 |  |   |   |   |   |   |   |   |   |   |   |
| 29 |  |   |   |   |   |   |   |   |   |   |   |
| 30 |  |   |   |   |   |   |   |   |   |   |   |
| 31 |  |   |   |   |   |   |   |   |   |   |   |
| 32 |  |   |   |   |   |   |   |   |   |   |   |
| 33 |  |   |   |   |   |   |   |   |   |   |   |
| 34 |  |   |   |   |   |   |   |   |   |   |   |
| 35 |  |   |   |   |   |   |   |   |   |   |   |
| 36 |  |   |   |   |   |   |   |   |   |   |   |
| 37 |  |   |   |   |   |   |   |   |   |   |   |
| 38 |  |   |   |   |   |   |   |   |   |   |   |
| 39 |  |   |   |   |   |   |   |   |   |   |   |
| 40 |  |   |   |   |   |   |   |   |   |   |   |
| 41 |  |   |   |   |   |   |   |   |   |   |   |
| 42 |  |   |   |   |   |   |   |   |   |   |   |
| 43 |  |   |   |   |   |   |   |   |   |   |   |
| 44 |  |   |   |   |   |   |   |   |   |   |   |
| 45 |  |   |   |   |   |   |   |   |   |   |   |
| 46 |  |   |   |   |   |   |   |   |   |   |   |
| 47 |  |   |   |   |   |   |   |   |   |   |   |
| 48 |  |   |   |   |   |   |   |   |   |   |   |
| 49 |  |   |   |   |   |   |   |   |   |   |   |
| 50 |  |   |   |   |   |   |   |   |   |   |   |
| 51 |  |   |   |   |   |   |   |   |   |   |   |
| 52 |  |   |   |   |   |   |   |   |   |   |   |
| 53 |  |   |   |   |   |   |   |   |   |   |   |
| 54 |  |   |   |   |   |   |   |   |   |   |   |
| 55 |  |   |   |   |   |   |   |   |   |   |   |
| 56 |  |   |   |   |   |   |   |   |   |   |   |
| 57 |  |   |   |   |   |   |   |   |   |   |   |
| 58 |  |   |   |   |   |   |   |   |   |   |   |
| 59 |  |   |   |   |   |   |   |   |   |   |   |
| 60 |  |   |   |   |   |   |   |   |   |   |   |
| 61 |  |   |   |   |   |   |   |   |   |   |   |
| 62 |  |   |   |   |   |   |   |   |   |   |   |
| 63 |  |   |   |   |   |   |   |   |   |   |   |
| 64 |  |   |   |   |   |   |   |   |   |   |   |
| 65 |  |   |   |   |   |   |   |   |   |   |   |

|    | L  | M                                   | N        | O        | P        | Q        | R        | S       | T       | U       | V       | W       |
|----|--|-------------------------------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |          |          |          |          |          |         |         |         |         |         |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |          |          |          |          |          |         |         |         |         |         |
| 3  | WP-10 Initial Rate Proposal  |                                     |          |          |          |          |          |         |         |         |         |         |
| 4  |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |          |          |          |          |          |         |         |         |         |         |
| 6  | Expensed costs are deferred and financed over 6-years                  |                                     |          |          |          |          |          |         |         |         |         |         |
| 7  |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 8  |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 9  |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 10 | ALTERNATIVE - 4  |                                     |          |          |          |          |          |         |         |         |         |         |
| 11 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 12 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 13 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 14 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 15 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 16 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 17 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 18 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 19 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 20 | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |          |          |          |          |          |         |         |         |         |         |
| 21 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 22 | Res.   |                                     |          |          |          |          |          |         |         |         |         |         |
| 23 | Stack  |                                     |          |          |          |          |          |         |         |         |         |         |
| 24 | Order  | FY 2010                             | FY 2011  | FY 2012  | FY 2013  | FY 2014  | FY 2015  | FY 2016 | FY 2017 | FY 2018 | FY 2019 |         |
| 25 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 26 | <b>FY 2010 Conservation Resources Selected</b>                         |                                     |          |          |          |          |          |         |         |         |         |         |
| 27 | <b>1</b>   | <b>2004 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 28 | Capital  | 2,126.1                             | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |
| 29 | Expense  | 3,515.7                             | 3,515.7  | 3,515.7  | 3,515.7  | 3,515.7  | 3,515.7  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 30 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 31 | <b>2</b>   | <b>2001 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 32 | Capital  | 6.7                                 | 6.7      | 6.7      | 6.7      | 6.7      | 6.7      | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |
| 33 | Expense  | 4,722.9                             | 4,722.9  | 4,722.9  | 4,722.9  | 4,722.9  | 4,722.9  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 34 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 35 | <b>4</b>   | <b>2006 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 36 | Capital  | 1,538.0                             | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |
| 37 | Expense  | 5,845.1                             | 5,845.1  | 5,845.1  | 5,845.1  | 5,845.1  | 5,845.1  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 38 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 39 | <b>5</b>   | <b>2007 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 40 | Capital  | 1,071.6                             | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |
| 41 | Expense  | 7,885.7                             | 7,885.7  | 7,885.7  | 7,885.7  | 7,885.7  | 7,885.7  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 42 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 43 | <b>6</b>   | <b>2003 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 44 | Capital  | 2,573.0                             | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |
| 45 | Expense  | 3,944.4                             | 3,944.4  | 3,944.4  | 3,944.4  | 3,944.4  | 3,944.4  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 46 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 47 | <b>7</b>   | <b>2005 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 48 | Capital  | 1,564.3                             | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |
| 49 | Expense  | 4,834.6                             | 4,834.6  | 4,834.6  | 4,834.6  | 4,834.6  | 4,834.6  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 50 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 51 | <b>8</b>   | <b>2002 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 52 | Capital  | 3,236.0                             | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |
| 53 | Expense  | 3,991.4                             | 3,991.4  | 3,991.4  | 3,991.4  | 3,991.4  | 3,991.4  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 54 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 55 | <b>9</b>   | <b>2008 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 56 | Capital  | 768.5                               | 768.5    | 768.5    | 768.5    | 768.5    | 768.5    | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   |
| 57 | Expense  | 12,364.6                            | 12,364.6 | 12,364.6 | 12,364.6 | 12,364.6 | 12,364.6 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 58 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 59 | <b>12</b>  | <b>2009 Conservation - 2010\$\$</b> |          |          |          |          |          |         |         |         |         |         |
| 60 | Capital  | 2,597.3                             | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |
| 61 | Expense  | 14,663.0                            | 14,663.0 | 14,663.0 | 14,663.0 | 14,663.0 | 14,663.0 | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 63 | Page 2 of 10   |                                     |          |          |          |          |          |         |         |         |         |         |
| 64 |  |                                     |          |          |          |          |          |         |         |         |         |         |
| 65 |  |                                     |          |          |          |          |          |         |         |         |         |         |



|    | X  | Y                                   | Z       | AA      | AB      | AC      | AD      | AE      | AF      | AG      | AH      | AI |
|----|--|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |         |         |         |         |         |         |         |         |         |    |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |         |         |         |         |         |         |         |         |         |    |
| 3  | WP-10 Initial Rate Proposal  |                                     |         |         |         |         |         |         |         |         |         |    |
| 4  |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |         |         |         |         |         |         |         |         |         |    |
| 6  | Expensed costs are deferred and financed over 6-years                  |                                     |         |         |         |         |         |         |         |         |         |    |
| 7  |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 8  |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 9  |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 10 | ALTERNATIVE - 4  |                                     |         |         |         |         |         |         |         |         |         |    |
| 11 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 12 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 13 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 14 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 15 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 16 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 17 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 18 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 19 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 20 | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |         |         |         |         |         |         |         |         |         |    |
| 21 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 22 | Res.   |                                     |         |         |         |         |         |         |         |         |         |    |
| 23 | Stack  |                                     |         |         |         |         |         |         |         |         |         |    |
| 24 | Order  | FY 2020                             | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |    |
| 25 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 26 | <b>FY 2010 Conservation Resources Selected</b>                         |                                     |         |         |         |         |         |         |         |         |         |    |
| 27 | <b>1</b>   | <b>2004 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 28 | Capital  | 2,126.1                             | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |         |         |         |         |         |    |
| 29 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 30 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 31 | <b>2</b>   | <b>2001 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 32 | Capital  | 6.7                                 | 6.7     | 6.7     | 6.7     | 6.7     |         |         |         |         |         |    |
| 33 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 34 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 35 | <b>4</b>   | <b>2006 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 36 | Capital  | 1,538.0                             | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |         |         |         |         |         |    |
| 37 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 38 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 39 | <b>5</b>   | <b>2007 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 40 |  | 1,071.6                             | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |         |         |         |         |         |    |
| 41 |  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 42 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 43 | <b>6</b>   | <b>2003 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 44 | Capital  | 2,573.0                             | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |         |         |         |         |         |    |
| 45 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 46 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 47 | <b>7</b>   | <b>2005 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 48 | Capital  | 1,564.3                             | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |         |         |         |         |         |    |
| 49 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 50 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 51 | <b>8</b>   | <b>2002 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 52 | Capital  | 3,236.0                             | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |         |         |         |         |         |    |
| 53 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 54 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 55 | <b>9</b>   | <b>2008 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 56 | Capital  | 768.5                               | 768.5   | 768.5   | 768.5   | 768.5   |         |         |         |         |         |    |
| 57 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 58 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 59 | <b>12</b>  | <b>2009 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |    |
| 60 | Capital  | 2,597.3                             | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |         |         |         |         |         |    |
| 61 | Expense  | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 62 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 63 | Page 3 of 10   |                                     |         |         |         |         |         |         |         |         |         |    |
| 64 |  |                                     |         |         |         |         |         |         |         |         |         |    |
| 65 |  |                                     |         |         |         |         |         |         |         |         |         |    |

|     | A  | B  | C | D            | E | F        | G           | H            | I | J | K               |
|-----|--|--|---|--------------|---|----------|-------------|--------------|---|---|-----------------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |  |   |              |   |          |             |              |   |   |                 |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |  |   |              |   |          |             |              |   |   |                 |
| 68  | WP-10 Initial Rate Proposal  |  |   |              |   |          |             |              |   |   |                 |
| 69  |  |  |   |              |   |          |             |              |   |   |                 |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |   |              |   |          |             |              |   |   |                 |
| 71  | Expensed costs are deferred and financed over 6-years                  |  |   |              |   |          |             |              |   |   |                 |
| 72  |  |  |   |              |   |          |             |              |   |   |                 |
| 73  | ALTERNATIVE - 4  |  |   |              |   |          |             |              |   |   |                 |
| 74  |  |  |   |              |   |          |             |              |   |   |                 |
| 75  |  |  |   |              |   |          |             |              |   |   |                 |
| 76  | Res.   |  |   | Conservation |   | Amount   | Amount      |              |   |   | Annual          |
| 77  | Stack  |  |   | Savings      |   | Revenue  | Capitalized | NET          |   |   | Debt Service    |
| 78  | Order  |  |   | aMW          |   | Expensed | & Debt      | Annual       |   |   | Whole           |
| 79  |  | Vintage Year                                       |   |              |   |          | Financed    | Expenditures |   |   | Dollars         |
| 80  | <b><u>FY 2011 Conservation Resources Selected</u></b>                  |  |   |              |   |          |             |              |   |   |                 |
| 81  |  | 2015 Conservation - 2010\$\$                       |   | 38.8         |   | 83,126.7 | 43,034.3    | 126,161.1    |   |   |                 |
| 82  | <b>13</b>  | <b><u>2015 Conservation - 2011\$\$</u></b>         |   |              |   | 84,808.5 | 43,905.0    | 128,713.5    |   |   |                 |
| 83  |  | Capitalized Costs - Debt Service Requirements      |   |              |   |          |             |              |   |   | 4,107,859.76    |
| 84  |  | Expensed Costs /Deferral Debt Service Requirements |   |              |   |          |             |              |   |   | \$16,115,084.74 |
| 85  |  |  |   |              |   |          |             |              |   |   |                 |
| 86  | <b><u>FY 2012 Conservation Resources Selected</u></b>                  |  |   |              |   |          |             |              |   |   |                 |
| 87  |  | 2014 Conservation - 2010\$\$                       |   | 38.8         |   | 83,935.2 | 43,898.8    | 127,833.9    |   |   |                 |
| 88  | <b>14</b>  | <b><u>2014 Conservation - 2012\$\$</u></b>         |   |              |   | 87,425.4 | 45,724.2    | 133,149.6    |   |   |                 |
| 89  |  | Capitalized Costs - Debt Service Requirements      |   |              |   |          |             |              |   |   | 4,278,068.59    |
| 90  |  | Expensed Costs /Deferral Debt Service Requirements |   |              |   |          |             |              |   |   | \$16,612,341.09 |
| 91  |  |  |   |              |   |          |             |              |   |   |                 |
| 92  | <b><u>FY 2013 Conservation Resources Selected</u></b>                  |  |   |              |   |          |             |              |   |   |                 |
| 93  |  | 2013 Conservation - 2010\$\$                       |   | 38.8         |   | 84,924.7 | 44,787.8    | 129,712.6    |   |   |                 |
| 94  | <b>15</b>  | <b><u>2013 Conservation - 2013\$\$</u></b>         |   |              |   | 90,257.0 | 47,599.9    | 137,856.9    |   |   |                 |
| 95  |  | Capitalized Costs - Debt Service Requirements      |   |              |   |          |             |              |   |   | 4,453,563.69    |
| 96  |  | Expensed Costs /Deferral Debt Service Requirements |   |              |   |          |             |              |   |   | \$17,150,394.16 |
| 97  |  |  |   |              |   |          |             |              |   |   |                 |
| 98  | <b><u>FY 2014 Conservation Resources Selected</u></b>                  |  |   |              |   |          |             |              |   |   |                 |
| 99  |  | 2012 Conservation - 2010\$\$                       |   | 38.8         |   | 85,909.7 | 45,699.7    | 131,609.5    |   |   |                 |
| 100 | <b>16</b>  | <b><u>2012 Conservation - 2014\$\$</u></b>         |   |              |   | 93,153.0 | 49,552.8    | 142,705.8    |   |   |                 |
| 101 |  | Capitalized Costs - Debt Service Requirements      |   |              |   |          |             |              |   |   | 4,636,281.82    |
| 102 |  | Expensed Costs /Deferral Debt Service Requirements |   |              |   |          |             |              |   |   | \$17,700,684.35 |
| 103 |  |  |   |              |   |          |             |              |   |   |                 |
| 104 | <b><u>FY 2015 Conservation Resources Selected</u></b>                  |  |   |              |   |          |             |              |   |   |                 |
| 105 |  | 2011 Conservation - 2010\$\$                       |   | 34.6         |   | 84,552.3 | 38,324.6    | 122,876.9    |   |   |                 |
| 106 | <b>17</b>  | <b><u>2011 Conservation - 2015\$\$</u></b>         |   |              |   | 93,522.8 | 42,390.6    | 135,913.4    |   |   |                 |
| 107 |  | Capitalized Costs - Debt Service Requirements      |   |              |   |          |             |              |   |   | 3,966,168.77    |
| 108 |  | Expensed Costs /Deferral Debt Service Requirements |   |              |   |          |             |              |   |   | \$17,770,952.76 |
| 109 |  |  |   |              |   |          |             |              |   |   |                 |
| 110 |  |  |   |              |   |          |             |              |   |   |                 |
| 111 |  |  |   |              |   |          |             |              |   |   |                 |
| 112 |  |  |   |              |   |          |             |              |   |   |                 |
| 113 | <b>TOTAL Capital Costs - Debt Ser. Req. = TCC</b>                      |  |   |              |   |          |             |              |   |   |                 |
| 114 | <b>TOTAL Expense Costs - Debt Serv. Req. = TEC</b>                     |  |   |              |   |          |             |              |   |   |                 |
| 115 |  |  |   |              |   |          |             |              |   |   |                 |
| 116 | <b>TOTAL DEBT SERVICE REQUIREMENTS = TDSR</b>                          |  |   |              |   |          |             |              |   |   |                 |
| 117 |  |  |   |              |   |          |             |              |   |   |                 |
| 118 |  |  |   |              |   |          |             |              |   |   |                 |
| 119 |  |  |   |              |   |          |             |              |   |   |                 |
| 120 |  |  |   |              |   |          |             |              |   |   |                 |
| 121 |  |  |   |              |   |          |             |              |   |   |                 |
| 122 |  |  |   |              |   |          |             |              |   |   |                 |
| 123 |  |  |   |              |   |          |             |              |   |   |                 |
| 124 |  |  |   |              |   |          |             |              |   |   |                 |
| 125 |  |  |   |              |   |          |             |              |   |   |                 |
| 126 |  |  |   |              |   |          |             |              |   |   |                 |

|     | L  | M                                   | N        | O         | P         | Q         | R         | S         | T         | U        | V        | W        |
|-----|--|-------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |          |           |           |           |           |           |           |          |          |          |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |          |           |           |           |           |           |           |          |          |          |
| 68  | WP-10 Initial Rate Proposal  |                                     |          |           |           |           |           |           |           |          |          |          |
| 69  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |          |           |           |           |           |           |           |          |          |          |
| 71  | Expensed costs are deferred and financed over 6-years                  |                                     |          |           |           |           |           |           |           |          |          |          |
| 72  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 73  | ALTERNATIVE - 4  |                                     |          |           |           |           |           |           |           |          |          |          |
| 74  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |          |           |           |           |           |           |           |          |          |          |
| 76  | Res.   |                                     |          |           |           |           |           |           |           |          |          |          |
| 77  | Stack  |                                     |          |           |           |           |           |           |           |          |          |          |
| 78  | Order  | FY 2010                             | FY 2011  | FY 2012   | FY 2013   | FY 2014   | FY 2015   | FY 2016   | FY 2017   | FY 2018  | FY 2019  |          |
| 79  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |                                     |          |           |           |           |           |           |           |          |          |          |
| 81  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 82  | <b>13</b>  | <b>2015 Conservation - 2011\$\$</b> |          |           |           |           |           |           |           |          |          |          |
| 83  | Capital  | 0.0                                 | 4,107.9  | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9  | 4,107.9  | 4,107.9  |
| 84  | Expense  | 0.0                                 | 16,115.1 | 16,115.1  | 16,115.1  | 16,115.1  | 16,115.1  | 16,115.1  | 0.0       | 0.0      | 0.0      |          |
| 85  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |                                     |          |           |           |           |           |           |           |          |          |          |
| 87  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 88  | <b>14</b>  | <b>2014 Conservation - 2012\$\$</b> |          |           |           |           |           |           |           |          |          |          |
| 89  | Capital  | 0.0                                 | 0.0      | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1  | 4,278.1  | 4,278.1  |
| 90  | Expense  | 0.0                                 | 0.0      | 16,612.3  | 16,612.3  | 16,612.3  | 16,612.3  | 16,612.3  | 16,612.3  | 0.0      | 0.0      |          |
| 91  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |                                     |          |           |           |           |           |           |           |          |          |          |
| 93  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 94  | <b>15</b>  | <b>2013 Conservation - 2013\$\$</b> |          |           |           |           |           |           |           |          |          |          |
| 95  | Capital  | 0.0                                 | 0.0      | 0.0       | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6  | 4,453.6  | 4,453.6  |
| 96  | Expense  | 0.0                                 | 0.0      | 0.0       | 17,150.4  | 17,150.4  | 17,150.4  | 17,150.4  | 17,150.4  | 17,150.4 | 17,150.4 | 0.0      |
| 97  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |                                     |          |           |           |           |           |           |           |          |          |          |
| 99  |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 100 | <b>16</b>  | <b>2012 Conservation - 2014\$\$</b> |          |           |           |           |           |           |           |          |          |          |
| 101 | Capital  | 0.0                                 | 0.0      | 0.0       | 0.0       | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3  | 4,636.3  | 4,636.3  |
| 102 | Expense  | 0.0                                 | 0.0      | 0.0       | 0.0       | 17,700.7  | 17,700.7  | 17,700.7  | 17,700.7  | 17,700.7 | 17,700.7 | 17,700.7 |
| 103 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |                                     |          |           |           |           |           |           |           |          |          |          |
| 105 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 106 | <b>17</b>  | <b>2011 Conservation - 2015\$\$</b> |          |           |           |           |           |           |           |          |          |          |
| 107 | Capital  | 0.0                                 | 0.0      | 0.0       | 0.0       | 0.0       | 3,966.2   | 3,966.2   | 3,966.2   | 3,966.2  | 3,966.2  | 3,966.2  |
| 108 | Expense  | 0.0                                 | 0.0      | 0.0       | 0.0       | 0.0       | 17,771.0  | 17,771.0  | 17,771.0  | 17,771.0 | 17,771.0 | 17,771.0 |
| 109 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 110 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 111 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 112 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 113 | TCC  | 15,481.5                            | 19,589.4 | 23,867.5  | 28,321.1  | 32,957.4  | 36,923.6  | 36,923.6  | 36,923.6  | 36,923.6 | 36,923.6 | 36,923.6 |
| 114 | TEC  | 61,767.4                            | 77,882.5 | 94,494.8  | 111,645.2 | 129,345.9 | 147,116.9 | 85,349.5  | 69,234.4  | 52,622.1 | 35,471.7 |          |
| 115 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 116 | TDSR   | 77,248.9                            | 97,471.9 | 118,362.3 | 139,966.3 | 162,303.3 | 184,040.5 | 122,273.1 | 106,158.0 | 89,545.7 | 72,395.3 |          |
| 117 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 118 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 119 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 120 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 121 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 122 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 123 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 124 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 125 |  |                                     |          |           |           |           |           |           |           |          |          |          |
| 126 |  |                                     |          |           |           |           |           |           |           |          |          |          |

|     | X  | Y                                   | Z        | AA       | AB       | AC       | AD       | AE       | AF       | AG      | AH      | AI      |
|-----|--|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |          |          |          |          |          |          |          |         |         |         |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |          |          |          |          |          |          |          |         |         |         |
| 68  | WP-10 Initial Rate Proposal  |                                     |          |          |          |          |          |          |          |         |         |         |
| 69  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |          |          |          |          |          |          |          |         |         |         |
| 71  | Expensed costs are deferred and financed over 6-years                  |                                     |          |          |          |          |          |          |          |         |         |         |
| 72  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 73  | ALTERNATIVE - 4  |                                     |          |          |          |          |          |          |          |         |         |         |
| 74  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |          |          |          |          |          |          |          |         |         |         |
| 76  | Res.   |                                     |          |          |          |          |          |          |          |         |         |         |
| 77  | Stack  |                                     |          |          |          |          |          |          |          |         |         |         |
| 78  | Order  | FY 2020                             | FY 2021  | FY 2022  | FY 2023  | FY 2024  | FY 2025  | FY 2026  | FY 2027  | FY 2028 | FY 2029 |         |
| 79  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |                                     |          |          |          |          |          |          |          |         |         |         |
| 81  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 82  | <b>13</b>  | <b>2015 Conservation - 2011\$\$</b> |          |          |          |          |          |          |          |         |         |         |
| 83  | Capital  | 4,107.9                             | 4,107.9  | 4,107.9  | 4,107.9  | 4,107.9  | 4,107.9  |          |          |         |         |         |
| 84  | Expense  | 0.0                                 | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |          |          |         |         |         |
| 85  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |                                     |          |          |          |          |          |          |          |         |         |         |
| 87  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 88  | <b>14</b>  | <b>2014 Conservation - 2012\$\$</b> |          |          |          |          |          |          |          |         |         |         |
| 89  | Capital  | 4,278.1                             | 4,278.1  | 4,278.1  | 4,278.1  | 4,278.1  | 4,278.1  | 4,278.1  |          |         |         |         |
| 90  | Expense  | 0.0                                 | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |          |         |         |         |
| 91  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |                                     |          |          |          |          |          |          |          |         |         |         |
| 93  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 94  | <b>15</b>  | <b>2013 Conservation - 2013\$\$</b> |          |          |          |          |          |          |          |         |         |         |
| 95  | Capital  | 4,453.6                             | 4,453.6  | 4,453.6  | 4,453.6  | 4,453.6  | 4,453.6  | 4,453.6  | 4,453.6  |         |         |         |
| 96  | Expense  | 0.0                                 | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |         |         |         |
| 97  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |                                     |          |          |          |          |          |          |          |         |         |         |
| 99  |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 100 | <b>16</b>  | <b>2012 Conservation - 2014\$\$</b> |          |          |          |          |          |          |          |         |         |         |
| 101 | Capital  | 4,636.3                             | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3 |         |         |
| 102 | Expense  | 0.0                                 | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0     |         |         |
| 103 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |                                     |          |          |          |          |          |          |          |         |         |         |
| 105 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 106 | <b>17</b>  | <b>2011 Conservation - 2015\$\$</b> |          |          |          |          |          |          |          |         |         |         |
| 107 | Capital  | 3,966.2                             | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2 | 3,966.2 | 3,966.2 |
| 108 | Expense  | 17,771.0                            | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0     | 0.0     | 0.0     |
| 109 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 110 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 111 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 112 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 113 | TCC  | 36,923.6                            | 36,923.6 | 36,923.6 | 36,923.6 | 36,923.6 | 21,442.1 | 17,334.2 | 13,056.1 | 8,602.5 |         | 3,966.2 |
| 114 | TEC  | 17,771.0                            | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0     |         | 0.0     |
| 115 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 116 | TDSR   | 54,694.6                            | 36,923.6 | 36,923.6 | 36,923.6 | 36,923.6 | 21,442.1 | 17,334.2 | 13,056.1 | 8,602.5 |         | 3,966.2 |
| 117 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 118 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 119 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 120 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 121 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 122 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 123 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 124 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 125 |  |                                     |          |          |          |          |          |          |          |         |         |         |
| 126 |  |                                     |          |          |          |          |          |          |          |         |         |         |

|    | A | B     | C   | D | E | F | G | H | I | J | K | L |  |
|----|---|-------|---|---|---|---|---|---|---|---|---|---|--|
| 1  |   |       | Section 7(b)(2) Rate Test Study and Documentation                     |   |   |   |   |   |   |   |   |   |  |
| 2  |   |       | Alternative Conservation Expense Accounting and Financing Treatments  |   |   |   |   |   |   |   |   |   |  |
| 3  |   |       | WP-10 Initial Rate Proposal   |   |   |   |   |   |   |   |   |   |  |
| 4  |   |       | Scenario = Capitalized costs amortized / financed over 15 years,      |   |   |   |   |   |   |   |   |   |  |
| 5  |   |       | = Expensed costs are deferred and amortized / financed over 6 - years |   |   |   |   |   |   |   |   |   |  |
| 6  |   |       | ALTERNATIVE - 4   |   |   |   |   |   |   |   |   |   |  |
| 7  |   |       | Amortization of Principal - (whole dollars)                           |   |   |   |   |   |   |   |   |   |  |
| 8  |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 9  |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 10 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 11 |   | Res.  |   |   |   |   |   |   |   |   |   |   |  |
| 12 |   | Stack |   |   |   |   |   |   |   |   |   |   |  |
| 13 |   | Order |   |   |   |   |   |   |   |   |   |   |  |
| 14 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 15 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 16 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 17 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 18 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 19 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 20 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 21 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 22 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 23 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 24 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 25 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 26 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 27 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 28 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 29 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 30 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 31 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 32 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 33 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 34 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 35 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 36 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 37 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 38 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 39 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 40 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 41 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 42 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 43 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 44 |   |       |   |   |   |   |   |   |   |   |   |   |  |
| 45 |   |       |   |   |   |   |   |   |   |   |   |   |  |



|    | A   | B  | C   | D                         | E              | F              | G              | H              | I              | J              | K              | L              |
|----|---|--|---|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 46 |   |  | Section 7(b)(2) Rate Test Study and Documentation                     |                           |                |                |                |                |                |                |                |                |
| 47 |   |  | Alternative Conservation Expense Accounting and Financing Treatments  |                           |                |                |                |                |                |                |                |                |
| 48 |   |  | WP-10 Initial Rate Proposal   |                           |                |                |                |                |                |                |                |                |
| 49 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 50 |   |  | Scenario = Capitalized costs amortized / financed over 15 years,      |                           |                |                |                |                |                |                |                |                |
| 51 |   |  | = Expensed costs are deferred and amortized / financed over 6 - years |                           |                |                |                |                |                |                |                |                |
| 52 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 53 |   |  | ALTERNATIVE - 4   |                           |                |                |                |                |                |                |                |                |
| 54 |   |  | Amortization of Principal - (whole dollars)                           |                           |                |                |                |                |                |                |                |                |
| 55 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 56 | Res.  | Stack  |   | <u>Total Amortization</u> |                |                |                |                |                |                |                |                |
| 57 | Order   | Vintage Year   |   | <u>of Principal</u>       | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> |
| 58 | FY 2011                                       | Conservation Resources Selected                                |   |                           |                |                |                |                |                |                |                |                |
| 59 | 13  | 2015 Conservation - 2011\$\$                                   |   | 43,905,000                | 0              | 2,101,401      | 2,197,436      | 2,297,858      | 2,402,870      | 2,512,682      | 2,627,511      | 2,747,588      |
| 60 |   | Capital Expenditures - Amort. of Principal                     |   | 84,808,500                | 0              | 12,824,515     | 13,322,106     | 13,839,004     | 14,375,957     | 14,933,745     | 15,513,173     | 0              |
| 61 |   | Expense Expenditures - Amort. of Principal                     |   |                           |                |                |                |                |                |                |                |                |
| 62 | FY 2012                                       | Conservation Resources Selected                                |   |                           |                |                |                |                |                |                |                |                |
| 63 | 14  | 2014 Conservation - 2012\$\$                                   |   |                           |                |                |                |                |                |                |                |                |
| 64 |   | Capital Expenditures - Amort. of Principal                     |   | 45,724,200                | 0              | 0              | 2,188,473      | 2,288,486      | 2,393,070      | 2,502,433      | 2,616,795      | 2,736,382      |
| 65 |   | Expense Expenditures - Amort. of Principal                     |   | 87,425,400                | 0              | 0              | 13,220,235     | 13,733,181     | 14,266,028     | 14,819,550     | 15,394,548     | 15,991,858     |
| 66 | FY 2013                                       | Conservation Resources Selected                                |   |                           |                |                |                |                |                |                |                |                |
| 67 | 15  | 2013 Conservation - 2013\$\$                                   |   |                           |                |                |                |                |                |                |                |                |
| 68 |   | Capital Expenditures - Amort. of Principal                     |   | 47,599,900                | 0              | 0              | 0              | 2,278,249      | 2,382,365      | 2,491,239      | 2,605,088      | 2,724,141      |
| 69 |   | Expense Expenditures - Amort. of Principal                     |   | 90,257,000                | 0              | 0              | 0              | 13,648,422     | 14,177,981     | 14,728,087     | 15,299,537     | 15,893,159     |
| 70 | FY 2014                                       | Conservation Resources Selected                                |   |                           |                |                |                |                |                |                |                |                |
| 71 | 16  | 2012 Conservation - 2014\$\$                                   |   |                           |                |                |                |                |                |                |                |                |
| 72 |   | Capital Expenditures - Amort. of Principal                     |   | 49,552,800                | 0              | 0              | 0              | 0              | 2,371,719      | 2,480,107      | 2,593,447      | 2,711,968      |
| 73 |   | Expense Expenditures - Amort. of Principal                     |   | 93,153,000                | 0              | 0              | 0              | 0              | 14,086,348     | 14,632,898     | 15,200,654     | 15,790,440     |
| 74 | FY 2015                                       | Conservation Resources Selected                                |   |                           |                |                |                |                |                |                |                |                |
| 75 | 17  | 2011 Conservation - 2015\$\$                                   |   |                           |                |                |                |                |                |                |                |                |
| 76 |   | Capital Expenditures - Amort. of Principal                     |   | 42,390,600                | 0              | 0              | 0              | 0              | 0              | 2,028,919      | 2,121,640      | 2,218,599      |
| 77 |   | Expense Expenditures - Amort. of Principal                     |   | 93,522,800                | 0              | 0              | 0              | 0              | 0              | 14,142,268     | 14,690,988     | 15,260,999     |
| 78 | TOTALS - CAPITAL EXPENDITURES -               |  |   | 394,638,700               |                |                |                |                |                |                |                |                |
| 79 |   | AMORTIZATION OF PRINCIPAL                                      |   | 394,638,700               | 7,919,618      | 10,382,947     | 13,045,922     | 15,920,368     | 19,019,648     | 21,917,765     | 22,919,407     | 23,966,824     |
| 80 | TOTALS - EXPENSE EXPENDITURES -               |  |   | 774,228,800               |                |                |                |                |                |                |                |                |
| 81 |   | AMORTIZATION OF PRINCIPAL                                      |   | 774,228,800               | 49,155,023     | 63,886,754     | 79,585,794     | 96,322,145     | 114,145,793    | 132,716,916    | 76,098,900     | 62,936,456     |
| 82 | TOTAL CONSERVATION PRINCIPAL COSTS            |  |   | 1,168,867,500             | 57,074,641     | 74,269,701     | 92,631,716     | 112,242,513    | 133,165,441    | 154,634,681    | 99,018,307     | 86,903,280     |
| 83 | PERCENTAGE OF TOTAL PRINCIPAL PAID            |  |   | 100.00%                   | 4.88%          | 6.35%          | 7.92%          | 9.60%          | 11.39%         | 13.23%         | 8.47%          | 7.43%          |
| 84 | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID |  |   |                           | 4.88%          | 11.23%         | 19.15%         | 28.75%         | 40.14%         | 53.37%         | 61.84%         | 69.27%         |
| 85 |   | PERCENTAGE OF TOTAL PRINCIPLE PAID DURING THE RATE TEST PERIOD |   |                           |                |                |                |                | 53.37%         |                |                |                |
| 86 |   | TOTAL INTEREST PAID ON EXPENSED PORTION                        |   |                           |                |                |                |                | \$108,472,600  |                |                |                |
| 87 |   | INTEREST EXPENSE - % OF EXPENSED CONSERVATION EXPENDITURES     |   |                           |                |                |                |                | 14.01%         |                |                |                |
| 88 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 89 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 90 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 91 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 92 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 93 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 94 |   |  |   |                           |                |                |                |                |                |                |                |                |
| 95 |   |  |   |                           |                |                |                |                |                |                |                |                |

|    | A   | B   | C          | M          | N          | O          | P          | Q          | R          | S          | T          | U          | V         | W         | X |
|----|---|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|---|
| 46 | Section 7(b)(2) Rate Test Study and Documentation                     |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 47 | Alternative Conservation Expense Accounting and Financing Treatments  |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 48 | WP-10 Initial Rate Proposal   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 49 | Scenario = Capitalized costs amortized / financed over 15 years,      |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 50 | = Expensed costs are deferred and amortized / financed over 6 - years |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 51 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 52 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 53 | ALTERNATIVE - 4   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 54 | Amortization of Principal - (whole dollars)                           |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 55 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 56 | Res.  |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 57 | Stack   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 58 | Order   | Vintage Year  |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 59 |   |   | FY 2018    | FY 2019    | FY 2020    | FY 2021    | FY 2022    | FY 2023    | FY 2024    | FY 2025    | FY 2026    | FY 2027    | FY 2028   | FY 2029   |   |
| 60 |   | Conservation Resources Selected                           |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 61 |   | 13 2015 Conservation - 2011\$\$                           | 2,873,153  | 3,004,456  | 3,141,760  | 3,285,338  | 3,435,478  | 3,592,480  | 3,756,656  | 3,928,333  |            |            |           |           |   |
| 62 |   | Capital Expenditures - Amort. of Principal                | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |            |            |           |           |   |
| 63 |   | Expense Expenditures - Amort. of Principal                |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 64 |   | Conservation Resources Selected                           |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 65 |   | 14 2014 Conservation - 2012\$\$                           | 2,861,435  | 2,992,202  | 3,128,946  | 3,271,939  | 3,421,466  | 3,577,827  | 3,741,334  | 3,912,313  | 4,091,099  |            |           |           |   |
| 66 |   | Capital Expenditures - Amort. of Principal                | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |            |           |           |   |
| 67 |   | Expense Expenditures - Amort. of Principal                |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 68 |   | Conservation Resources Selected                           |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 69 |   | 15 2013 Conservation - 2013\$\$                           | 2,848,634  | 2,978,817  | 3,114,949  | 3,257,302  | 3,406,160  | 3,561,822  | 3,724,597  | 3,894,811  | 4,072,804  | 4,258,922  |           |           |   |
| 70 |   | Capital Expenditures - Amort. of Principal                | 16,509,814 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |           |           |   |
| 71 |   | Expense Expenditures - Amort. of Principal                |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 72 |   | Conservation Resources Selected                           |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 73 |   | 16 2012 Conservation - 2014\$\$                           | 2,835,905  | 2,965,506  | 3,101,029  | 3,242,746  | 3,390,940  | 3,545,906  | 3,707,954  | 3,877,407  | 4,054,605  | 4,239,900  | 4,433,661 |           |   |
| 74 |   | Capital Expenditures - Amort. of Principal                | 16,403,109 | 17,039,551 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         |           |   |
| 75 |   | Expense Expenditures - Amort. of Principal                |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 76 |   | Conservation Resources Selected                           |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 77 |   | 17 2011 Conservation - 2015\$\$                           | 2,319,989  | 2,426,013  | 2,536,881  | 2,652,817  | 2,774,051  | 2,900,825  | 3,033,392  | 3,172,018  | 3,316,980  | 3,468,566  | 3,627,079 | 3,792,831 |   |
| 78 |   | Capital Expenditures - Amort. of Principal                | 15,853,125 | 16,468,227 | 17,107,193 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         | 0 |
| 79 |   | Expense Expenditures - Amort. of Principal                |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 80 |   | TOTALS - CAPITAL EXPENDITURES - AMORTIZATION OF PRINCIPAL | 25,062,107 | 26,207,446 | 27,405,126 | 28,657,541 | 29,967,190 | 31,336,693 | 32,768,769 | 18,784,882 | 15,535,488 | 11,967,388 | 8,060,740 | 3,792,831 |   |
| 81 |   | TOTALS - EXPENSE EXPENDITURES - AMORTIZATION OF PRINCIPAL | 48,766,048 | 33,507,778 | 17,107,193 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         | 0 |
| 82 |   | TOTAL CONSERVATION PRINCIPAL COSTS                        | 73,828,155 | 59,715,224 | 44,512,319 | 28,657,541 | 29,967,190 | 31,336,693 | 32,768,769 | 18,784,882 | 15,535,488 | 11,967,388 | 8,060,740 | 3,792,831 |   |
| 83 |   | PERCENTAGE OF TOTAL PRINCIPAL PAID                        | 6.32%      | 5.11%      | 3.81%      | 2.45%      | 2.56%      | 2.68%      | 2.80%      | 1.61%      | 1.33%      | 1.02%      | 0.69%     | 0.32%     |   |
| 84 |   | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID             | 75.59%     | 80.70%     | 84.51%     | 86.96%     | 89.52%     | 92.20%     | 95.00%     | 96.61%     | 97.94%     | 98.96%     | 99.65%    | 99.97%    |   |
| 85 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 86 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 87 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 88 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 89 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 90 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 91 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 92 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 93 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 94 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |
| 95 |   |   |            |            |            |            |            |            |            |            |            |            |           |           |   |



|    | A  | B  | C  | D                    | E | F             | G           | H | I | J            | K               |
|----|--|--|--|----------------------|---|---------------|-------------|---|---|--------------|-----------------|
| 1  |  |  | Section 7(b)(2) Rate Test Study and Documentation                      |                      |   |               |             |   |   |              |                 |
| 2  |  |  | Alternative Conservation Expense Accounting and Financing Treatments   |                      |   |               |             |   |   |              |                 |
| 3  |  |  | WP-10 Initial Rate Proposal  |                      |   |               |             |   |   |              |                 |
| 4  |  |  |  |                      |   |               |             |   |   |              |                 |
| 5  |  |  | Scenario = Capitalized costs are amortized and financed over 15 years, |                      |   |               |             |   |   |              |                 |
| 6  |  |  | Expensed costs are deferred and financed over 7-years                  |                      |   |               |             |   |   |              |                 |
| 7  |  |  | ALTERNATIVE - 5  |                      |   |               |             |   |   |              |                 |
| 8  |  |  |  |                      |   |               |             |   |   |              |                 |
| 9  |  |  |  |                      |   | Capitalized   |             |   |   | Expensed     |                 |
| 10 |  |  |  |                      |   | Conservation  |             |   |   | Conservation |                 |
| 11 |  |  |  |                      |   | Interest Rate |             |   |   | Deferral/    |                 |
| 12 |  |  |  |                      |   | 15 - Year     |             |   |   | Maturity     |                 |
| 13 |  |  |  | Inflation Adjustment |   | Maturity      |             |   |   | # of Years   | Interest Rate   |
| 14 |  |  | FY 2010  | 1.000000             |   | 0.0457        |             |   |   | 4            | 0.0370          |
| 15 |  |  | FY 2011  | 1.020232             |   |               |             |   |   | 5            | 0.0379          |
| 16 |  |  | FY 2012  | 1.041582             |   |               |             |   |   | 6            | 0.0388          |
| 17 |  |  | FY 2013  | 1.062788             |   |               |             |   |   | 7            | 0.0397          |
| 18 |  |  | FY 2014  | 1.084313             |   |               |             |   |   | 15           | 0.0457          |
| 19 |  |  | FY 2015  | 1.106094             |   |               |             |   |   |              |                 |
| 20 |  |  |  |                      |   |               |             |   |   |              |                 |
| 21 | Res.   |  |  | Conservation         |   | Amount        | Amount      |   |   | NET          | Annual          |
| 22 | Stack  |  |  | Savings              |   | Revenue       | Capitalized |   |   | Annual       | Debt Service    |
| 23 | Order  | Vintage Year                                       |  | aMW                  |   | Expensed      | & Debt      |   |   | Expenditures | Whole           |
| 24 |  |  |  |                      |   |               | Financed    |   |   |              | Dollars         |
| 25 | <b>FY 2010 Conservation Resources Selected</b> |  |  |                      |   |               |             |   |   |              |                 |
| 26 | <b>1</b>                                       | <b>2004 Conservation - 2010\$\$</b>                |  | 31.4                 |   | 18,502.0      | 22,723.7    |   |   | 41,225.7     |                 |
| 27 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | \$2,126,085.25  |
| 28 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$3,079,194.40  |
| 29 |  |  |  |                      |   |               |             |   |   |              |                 |
| 30 | <b>2</b>                                       | <b>2001 Conservation - 2010\$\$</b>                |  | 18.7                 |   | 24,855.2      | 71.2        |   |   | 24,926.4     |                 |
| 31 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | \$6,661.65      |
| 32 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$4,136,525.38  |
| 33 |  |  |  |                      |   |               |             |   |   |              |                 |
| 34 | <b>4</b>                                       | <b>2006 Conservation - 2010\$\$</b>                |  | 30.2                 |   | 30,761.1      | 16,438.0    |   |   | 47,199.1     |                 |
| 35 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 1,537,979.70    |
| 36 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$5,119,414.48  |
| 37 |  |  |  |                      |   |               |             |   |   |              |                 |
| 38 | <b>5</b>                                       | <b>2007 Conservation - 2010\$\$</b>                |  | 28.5                 |   | 41,499.7      | 11,453.5    |   |   | 52,953.2     |                 |
| 39 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 1,071,617.62    |
| 40 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$6,906,585.44  |
| 41 |  |  |  |                      |   |               |             |   |   |              |                 |
| 42 | <b>6</b>                                       | <b>2003 Conservation - 2010\$\$</b>                |  | 25.2                 |   | 20,758.3      | 27,500.1    |   |   | 48,258.4     |                 |
| 43 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 2,572,976.98    |
| 44 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$3,454,699.01  |
| 45 |  |  |  |                      |   |               |             |   |   |              |                 |
| 46 | <b>7</b>                                       | <b>2005 Conservation - 2010\$\$</b>                |  | 20.0                 |   | 25,443.0      | 16,719.5    |   |   | 42,162.5     |                 |
| 47 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 1,564,317.53    |
| 48 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$4,234,349.97  |
| 49 |  |  |  |                      |   |               |             |   |   |              |                 |
| 50 | <b>8</b>                                       | <b>2002 Conservation - 2010\$\$</b>                |  | 26.1                 |   | 21,005.4      | 34,586.6    |   |   | 55,592.0     |                 |
| 51 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 3,236,007.34    |
| 52 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$3,495,822.61  |
| 53 |  |  |  |                      |   |               |             |   |   |              |                 |
| 54 | <b>9</b>                                       | <b>2008 Conservation - 2010\$\$</b>                |  | 34.8                 |   | 65,070.9      | 8,214.0     |   |   | 73,284.9     |                 |
| 55 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 768,522.04      |
| 56 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$10,829,421.18 |
| 57 |  |  |  |                      |   |               |             |   |   |              |                 |
| 58 | <b>12</b>                                      | <b>2009 Conservation - 2010\$\$</b>                |  | 40.1                 |   | 77,166.5      | 27,759.6    |   |   | 104,926.1    |                 |
| 59 |  | Capitalized Costs - Debt Service Requirements      |  |                      |   |               |             |   |   |              | 2,597,256.44    |
| 60 |  | Expensed Costs /Deferral Debt Service Requirements |  |                      |   |               |             |   |   |              | \$12,842,430.79 |
| 61 |  |  |  |                      |   |               |             |   |   |              |                 |
| 62 |  |  |  |                      |   |               |             |   |   |              |                 |
| 63 |  |  |  |                      |   |               |             |   |   |              |                 |
| 64 |  |  |  |                      |   |               |             |   |   |              |                 |

|    | L  | M  | N        | O        | P        | Q        | R        | S        | T       | U       | V       | W       |
|----|--|--|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |  |          |          |          |          |          |          |         |         |         |         |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |  |          |          |          |          |          |          |         |         |         |         |
| 3  | WP-10 Initial Rate Proposal  |  |          |          |          |          |          |          |         |         |         |         |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |          |          |          |          |          |          |         |         |         |         |
| 6  | Expensed costs are deferred and financed over 7-years                  |  |          |          |          |          |          |          |         |         |         |         |
| 9  | ALTERNATIVE - 5  |  |          |          |          |          |          |          |         |         |         |         |
| 19 | Debt Service Requirements - Principal and Interest (\$ 000)            |  |          |          |          |          |          |          |         |         |         |         |
| 21 | Res.   |  |          |          |          |          |          |          |         |         |         |         |
| 22 | Stack  |  |          |          |          |          |          |          |         |         |         |         |
| 23 | Order  | FY 2010                                    | FY 2011  | FY 2012  | FY 2013  | FY 2014  | FY 2015  | FY 2016  | FY 2017 | FY 2018 | FY 2019 |         |
| 25 | <b><u>FY 2010 Conservation Resources Selected</u></b>                  |  |          |          |          |          |          |          |         |         |         |         |
| 26 | <b><u>1</u></b>  | <b><u>2004 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 27 | Capital  | 2,126.1                                    | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1  | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |
| 28 | Expense  | 3,079.2                                    | 3,079.2  | 3,079.2  | 3,079.2  | 3,079.2  | 3,079.2  | 3,079.2  | 0.0     | 0.0     | 0.0     |         |
| 30 | <b><u>2</u></b>  | <b><u>2001 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 31 | Capital  | 6.7  | 6.7      | 6.7      | 6.7      | 6.7      | 6.7      | 6.7      | 6.7     | 6.7     | 6.7     | 6.7     |
| 32 | Expense  | 4,136.5                                    | 4,136.5  | 4,136.5  | 4,136.5  | 4,136.5  | 4,136.5  | 4,136.5  | 0.0     | 0.0     | 0.0     |         |
| 34 | <b><u>4</u></b>  | <b><u>2006 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 35 | Capital  | 1,538.0                                    | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0  | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |
| 36 | Expense  | 5,119.4                                    | 5,119.4  | 5,119.4  | 5,119.4  | 5,119.4  | 5,119.4  | 5,119.4  | 0.0     | 0.0     | 0.0     |         |
| 38 | <b><u>5</u></b>  | <b><u>2007 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 39 | Capital  | 1,071.6                                    | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6  | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |
| 40 | Expense  | 6,906.6                                    | 6,906.6  | 6,906.6  | 6,906.6  | 6,906.6  | 6,906.6  | 6,906.6  | 0.0     | 0.0     | 0.0     |         |
| 42 | <b><u>6</u></b>  | <b><u>2003 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 43 | Capital  | 2,573.0                                    | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0  | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |
| 44 | Expense  | 3,454.7                                    | 3,454.7  | 3,454.7  | 3,454.7  | 3,454.7  | 3,454.7  | 3,454.7  | 0.0     | 0.0     | 0.0     |         |
| 46 | <b><u>7</u></b>  | <b><u>2005 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 47 | Capital  | 1,564.3                                    | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3  | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |
| 48 | Expense  | 4,234.3                                    | 4,234.3  | 4,234.3  | 4,234.3  | 4,234.3  | 4,234.3  | 4,234.3  | 0.0     | 0.0     | 0.0     |         |
| 50 | <b><u>8</u></b>  | <b><u>2002 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 51 | Capital  | 3,236.0                                    | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0  | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |
| 52 | Expense  | 3,495.8                                    | 3,495.8  | 3,495.8  | 3,495.8  | 3,495.8  | 3,495.8  | 3,495.8  | 0.0     | 0.0     | 0.0     |         |
| 54 | <b><u>9</u></b>  | <b><u>2008 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 55 | Capital  | 768.5                                      | 768.5    | 768.5    | 768.5    | 768.5    | 768.5    | 768.5    | 768.5   | 768.5   | 768.5   | 768.5   |
| 56 | Expense  | 10,829.4                                   | 10,829.4 | 10,829.4 | 10,829.4 | 10,829.4 | 10,829.4 | 10,829.4 | 0.0     | 0.0     | 0.0     |         |
| 58 | <b><u>12</u></b>   | <b><u>2009 Conservation - 2010\$\$</u></b> |          |          |          |          |          |          |         |         |         |         |
| 59 | Capital  | 2,597.3                                    | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3  | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |
| 60 | Expense  | 12,842.4                                   | 12,842.4 | 12,842.4 | 12,842.4 | 12,842.4 | 12,842.4 | 12,842.4 | 0.0     | 0.0     | 0.0     |         |
| 62 | Page 2 of 10   |  |          |          |          |          |          |          |         |         |         |         |

|    | X  | Y  | Z       | AA      | AB      | AC      | AD      | AE      | AF      | AG      | AH      | AI |
|----|--|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |  |         |         |         |         |         |         |         |         |         |    |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |  |         |         |         |         |         |         |         |         |         |    |
| 3  | WP-10 Initial Rate Proposal  |  |         |         |         |         |         |         |         |         |         |    |
| 4  |  |  |         |         |         |         |         |         |         |         |         |    |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |         |         |         |         |         |         |         |         |         |    |
| 6  | Expensed costs are deferred and financed over 7-years                  |  |         |         |         |         |         |         |         |         |         |    |
| 7  |  |  |         |         |         |         |         |         |         |         |         |    |
| 8  |  |  |         |         |         |         |         |         |         |         |         |    |
| 9  | ALTERNATIVE - 5  |  |         |         |         |         |         |         |         |         |         |    |
| 10 |  |  |         |         |         |         |         |         |         |         |         |    |
| 11 |  |  |         |         |         |         |         |         |         |         |         |    |
| 12 |  |  |         |         |         |         |         |         |         |         |         |    |
| 13 |  |  |         |         |         |         |         |         |         |         |         |    |
| 14 |  |  |         |         |         |         |         |         |         |         |         |    |
| 15 |  |  |         |         |         |         |         |         |         |         |         |    |
| 16 |  |  |         |         |         |         |         |         |         |         |         |    |
| 17 |  |  |         |         |         |         |         |         |         |         |         |    |
| 18 |  |  |         |         |         |         |         |         |         |         |         |    |
| 19 | Debt Service Requirements - Principal and Interest (\$ 000)            |  |         |         |         |         |         |         |         |         |         |    |
| 20 |  |  |         |         |         |         |         |         |         |         |         |    |
| 21 | Res.   |  |         |         |         |         |         |         |         |         |         |    |
| 22 | Stack  |  |         |         |         |         |         |         |         |         |         |    |
| 23 | Order  | FY 2020                                    | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |    |
| 24 |  |  |         |         |         |         |         |         |         |         |         |    |
| 25 | <b>FY 2010 Conservation Resources Selected</b>                         |  |         |         |         |         |         |         |         |         |         |    |
| 26 | <b>1</b>   | <b><u>2004 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 27 | Capital  | 2,126.1                                    | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |         |         |         |         |         |    |
| 28 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 29 |  |  |         |         |         |         |         |         |         |         |         |    |
| 30 | <b>2</b>   | <b><u>2001 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 31 | Capital  | 6.7  | 6.7     | 6.7     | 6.7     | 6.7     |         |         |         |         |         |    |
| 32 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 33 |  |  |         |         |         |         |         |         |         |         |         |    |
| 34 | <b>4</b>   | <b><u>2006 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 35 | Capital  | 1,538.0                                    | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |         |         |         |         |         |    |
| 36 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 37 |  |  |         |         |         |         |         |         |         |         |         |    |
| 38 | <b>5</b>   | <b><u>2007 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 39 |  | 1,071.6                                    | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |         |         |         |         |         |    |
| 40 |  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 41 |  |  |         |         |         |         |         |         |         |         |         |    |
| 42 | <b>6</b>   | <b><u>2003 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 43 | Capital  | 2,573.0                                    | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |         |         |         |         |         |    |
| 44 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 45 |  |  |         |         |         |         |         |         |         |         |         |    |
| 46 | <b>7</b>   | <b><u>2005 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 47 | Capital  | 1,564.3                                    | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |         |         |         |         |         |    |
| 48 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 49 |  |  |         |         |         |         |         |         |         |         |         |    |
| 50 | <b>8</b>   | <b><u>2002 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 51 | Capital  | 3,236.0                                    | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |         |         |         |         |         |    |
| 52 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 53 |  |  |         |         |         |         |         |         |         |         |         |    |
| 54 | <b>9</b>   | <b><u>2008 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 55 | Capital  | 768.5                                      | 768.5   | 768.5   | 768.5   | 768.5   |         |         |         |         |         |    |
| 56 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 57 |  |  |         |         |         |         |         |         |         |         |         |    |
| 58 | <b>12</b>  | <b><u>2009 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 59 | Capital  | 2,597.3                                    | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |         |         |         |         |         |    |
| 60 | Expense  | 0.0  | 0.0     | 0.0     | 0.0     | 0.0     |         |         |         |         |         |    |
| 61 |  |  |         |         |         |         |         |         |         |         |         |    |
| 62 | Page 3 of 10   |  |         |         |         |         |         |         |         |         |         |    |
| 63 |  |  |         |         |         |         |         |         |         |         |         |    |
| 64 |  |  |         |         |         |         |         |         |         |         |         |    |

|     | A   | B  | C  | D            | E | F                            | G           | H         | I | J             | K               |
|-----|---|--|--|--------------|---|------------------------------|-------------|-----------|---|---------------|-----------------|
| 65  |   |  | Section 7(b)(2) Rate Test Study and Documentation                      |              |   |                              |             |           |   |               |                 |
| 66  |   |  | Alternative Conservation Expense Accounting and Financing Treatments   |              |   |                              |             |           |   |               |                 |
| 67  |   |  | WP-10 Initial Rate Proposal  |              |   |                              |             |           |   |               |                 |
| 68  |   |  |  |              |   |                              |             |           |   |               |                 |
| 69  |   |  | Scenario = Capitalized costs are amortized and financed over 15 years, |              |   |                              |             |           |   |               |                 |
| 70  |   |  | Expensed costs are deferred and financed over 7-years                  |              |   |                              |             |           |   |               |                 |
| 71  |   |  |  |              |   |                              |             |           |   |               |                 |
| 72  |   |  | ALTERNATIVE - 5  |              |   |                              |             |           |   |               |                 |
| 73  |   |  |  |              |   |                              |             |           |   |               |                 |
| 74  |   |  |  |              |   |                              |             |           |   |               |                 |
| 75  | Res.  |  |  | Conservation |   | Amount                       | Amount      |           |   | NET           | Annual          |
| 76  | Stack   |  |  | Savings      |   | Revenue                      | Capitalized |           |   | Annual        | Debt Service    |
| 77  | Order   | Vintage Year                                       |  | aMW          |   | Expensed                     | & Debt      |           |   | Expenditures  | Whole           |
| 78  |   |  |  |              |   |                              | Financed    |           |   |               | Dollars         |
| 79  | <b><u>FY 2011 Conservation Resources Selected</u></b> |  |  |              |   |                              |             |           |   |               |                 |
| 80  |   | 2015 Conservation - 2010\$\$                       |  | 38.8         |   | 83,126.7                     | 43,034.3    |           |   | 126,161.1     |                 |
| 81  | 13  | <b><u>2015 Conservation - 2011\$\$</u></b>         |  |              |   | 84,808.5                     | 43,905.0    |           |   | 128,713.5     |                 |
| 82  |   | Capitalized Costs - Debt Service Requirements      |  |              |   |                              |             |           |   |               | 4,107,859.76    |
| 83  |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |                              |             |           |   |               | \$14,114,250.25 |
| 84  |   |  |  |              |   |                              |             |           |   |               |                 |
| 85  | <b><u>FY 2012 Conservation Resources Selected</u></b> |  |  |              |   |                              |             |           |   |               |                 |
| 86  |   | 2014 Conservation - 2010\$\$                       |  | 38.8         |   | 83,935.2                     | 43,898.8    |           |   | 127,833.9     |                 |
| 87  | 14  | <b><u>2014 Conservation - 2012\$\$</u></b>         |  |              |   | 87,425.4                     | 45,724.2    |           |   | 133,149.6     |                 |
| 88  |   | Capitalized Costs - Debt Service Requirements      |  |              |   |                              |             |           |   |               | 4,278,068.59    |
| 89  |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |                              |             |           |   |               | \$14,549,767.70 |
| 90  |   |  |  |              |   |                              |             |           |   |               |                 |
| 91  | <b><u>FY 2013 Conservation Resources Selected</u></b> |  |  |              |   |                              |             |           |   |               |                 |
| 92  |   | 2013 Conservation - 2010\$\$                       |  | 38.8         |   | 84,924.7                     | 44,787.8    |           |   | 129,712.6     |                 |
| 93  | 15  | <b><u>2013 Conservation - 2013\$\$</u></b>         |  |              |   | 90,257.0                     | 47,599.9    |           |   | 137,856.9     |                 |
| 94  |   | Capitalized Costs - Debt Service Requirements      |  |              |   |                              |             |           |   |               | 4,453,563.69    |
| 95  |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |                              |             |           |   |               | \$15,021,016.58 |
| 96  |   |  |  |              |   |                              |             |           |   |               |                 |
| 97  | <b><u>FY 2014 Conservation Resources Selected</u></b> |  |  |              |   |                              |             |           |   |               |                 |
| 98  |   | 2012 Conservation - 2010\$\$                       |  | 38.8         |   | 85,909.7                     | 45,699.7    |           |   | 131,609.5     |                 |
| 99  | 16  | <b><u>2012 Conservation - 2014\$\$</u></b>         |  |              |   | 93,153.0                     | 49,552.8    |           |   | 142,705.8     |                 |
| 100 |   | Capitalized Costs - Debt Service Requirements      |  |              |   |                              |             |           |   |               | 4,636,281.82    |
| 101 |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |                              |             |           |   |               | \$15,502,983.23 |
| 102 |   |  |  |              |   |                              |             |           |   |               |                 |
| 103 | <b><u>FY 2015 Conservation Resources Selected</u></b> |  |  |              |   |                              |             |           |   |               |                 |
| 104 |   | 2011 Conservation - 2010\$\$                       |  | 34.6         |   | 84,552.3                     | 38,324.6    |           |   | 122,876.9     |                 |
| 105 | 17  | <b><u>2011 Conservation - 2015\$\$</u></b>         |  |              |   | 93,522.8                     | 42,390.6    |           |   | 135,913.4     |                 |
| 106 |   | Capitalized Costs - Debt Service Requirements      |  |              |   |                              |             |           |   |               | 3,966,168.77    |
| 107 |   | Expensed Costs /Deferral Debt Service Requirements |  |              |   |                              |             |           |   |               | \$15,564,527.18 |
| 108 |   |  |  |              |   | Principal                    | Principal   |           |   | Interest Paid |                 |
| 109 |   |  |  |              |   | Expense                      | Capital     |           |   | Expense       | Cumulative      |
| 110 |   |  |  |              |   | Costs                        | Costs       |           |   | Costs         | Totals          |
| 111 | TOTAL Capital Costs - Debt Ser. Req. = TCC            |  |  |              |   |                              | 394,638.7   |           |   | 159,215.3     | 553,854.0       |
| 112 | TOTAL Expense Costs - Debt Serv. Req. = TEC           |  |  |              |   |                              | 774,228.8   |           |   | 127,727.5     | 901,956.3       |
| 113 |   |  |  |              |   |                              |             |           |   |               |                 |
| 114 | TOTAL DEBT SERVICE REQUIREMENTS = TDSR                |  |  |              |   |                              | 774,228.8   | 394,638.7 |   | 286,942.8     | 1,455,810.3     |
| 115 |   |  |  |              |   |                              |             |           |   |               |                 |
| 116 |   |  |  |              |   | Principal Expense Costs      |             |           |   |               | 774,228.8       |
| 117 |   |  |  |              |   | Interest Paid Expensed Costs |             |           |   |               | 127,727.5       |
| 118 |   |  |  |              |   | Principal Capital Costs      |             |           |   |               | 394,638.7       |
| 119 |   |  |  |              |   | Interest Paid Capital Costs  |             |           |   |               | 159,215.3       |
| 120 |   |  |  |              |   | Totals                       |             |           |   |               | 1,455,810.3     |
| 121 | Page 4 of 10  |  |  |              |   |                              |             |           |   |               |                 |
| 122 |   |  |  |              |   |                              |             |           |   |               |                 |
| 123 |   |  |  |              |   |                              |             |           |   |               |                 |

|     | L  | M                                   | N              | O              | P              | Q              | R              | S              | T              | U              | V              | W        |
|-----|--|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| 65  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |                |                |                |                |                |                |                |                |                |          |
| 66  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |                |                |                |                |                |                |                |                |                |          |
| 67  | WP-10 Initial Rate Proposal  |                                     |                |                |                |                |                |                |                |                |                |          |
| 68  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 69  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |                |                |                |                |                |                |                |                |                |          |
| 70  | Expensed costs are deferred and financed over 7-years                  |                                     |                |                |                |                |                |                |                |                |                |          |
| 71  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 72  | ALTERNATIVE - 5  |                                     |                |                |                |                |                |                |                |                |                |          |
| 73  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 74  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |                |                |                |                |                |                |                |                |                |          |
| 75  | Res.   |                                     |                |                |                |                |                |                |                |                |                |          |
| 76  | Stack  |                                     |                |                |                |                |                |                |                |                |                |          |
| 77  | Order  | <u>FY 2010</u>                      | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> |          |
| 78  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 79  | <u>FY 2011 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 80  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 81  | <b>13</b>  | <u>2015 Conservation - 2011\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 82  | Capital  | 0.0                                 | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9  |
| 83  | Expense  | 0.0                                 | 14,114.3       | 14,114.3       | 14,114.3       | 14,114.3       | 14,114.3       | 14,114.3       | 14,114.3       | 14,114.3       | 0.0            | 0.0      |
| 84  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 85  | <u>FY 2012 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 86  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 87  | <b>14</b>  | <u>2014 Conservation - 2012\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 88  | Capital  | 0.0                                 | 0.0            | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1  |
| 89  | Expense  | 0.0                                 | 0.0            | 14,549.8       | 14,549.8       | 14,549.8       | 14,549.8       | 14,549.8       | 14,549.8       | 14,549.8       | 14,549.8       | 0.0      |
| 90  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 91  | <u>FY 2013 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 92  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 93  | <b>15</b>  | <u>2013 Conservation - 2013\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 94  | Capital  | 0.0                                 | 0.0            | 0.0            | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6  |
| 95  | Expense  | 0.0                                 | 0.0            | 0.0            | 15,021.0       | 15,021.0       | 15,021.0       | 15,021.0       | 15,021.0       | 15,021.0       | 15,021.0       | 15,021.0 |
| 96  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 97  | <u>FY 2014 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 98  |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 99  | <b>16</b>  | <u>2012 Conservation - 2014\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 100 | Capital  | 0.0                                 | 0.0            | 0.0            | 0.0            | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3  |
| 101 | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 15,503.0       | 15,503.0       | 15,503.0       | 15,503.0       | 15,503.0       | 15,503.0       | 15,503.0 |
| 102 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 103 | <u>FY 2015 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |          |
| 104 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 105 | <b>17</b>  | <u>2011 Conservation - 2015\$\$</u> |                |                |                |                |                |                |                |                |                |          |
| 106 | Capital  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2  |
| 107 | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 15,564.5       | 15,564.5       | 15,564.5       | 15,564.5       | 15,564.5       | 15,564.5 |
| 108 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 109 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 110 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 111 | <b>TCC</b>   | 15,481.5                            | 19,589.4       | 23,867.5       | 28,321.1       | 32,957.4       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6 |
| 112 | <b>TEC</b>   | 54,098.3                            | 68,212.6       | 82,762.4       | 97,783.4       | 113,286.4      | 128,850.9      | 128,850.9      | 74,752.6       | 60,638.3       | 46,088.5       |          |
| 113 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 114 | <b>TDSR</b>  | 69,579.8                            | 87,802.0       | 106,629.9      | 126,104.5      | 146,243.8      | 165,774.5      | 165,774.5      | 111,676.2      | 97,561.9       | 83,012.1       |          |
| 115 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 116 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 117 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 118 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 119 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 120 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 121 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 122 |  |                                     |                |                |                |                |                |                |                |                |                |          |
| 123 |  |                                     |                |                |                |                |                |                |                |                |                |          |

|     | X  | Y                                   | Z              | AA             | AB             | AC             | AD             | AE             | AF             | AG             | AH             | AI      |
|-----|--|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| 65  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |                |                |                |                |                |                |                |                |                |         |
| 66  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |                |                |                |                |                |                |                |                |                |         |
| 67  | WP-10 Initial Rate Proposal  |                                     |                |                |                |                |                |                |                |                |                |         |
| 68  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 69  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |                |                |                |                |                |                |                |                |                |         |
| 70  | Expensed costs are deferred and financed over 7-years                  |                                     |                |                |                |                |                |                |                |                |                |         |
| 71  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 72  | ALTERNATIVE - 5  |                                     |                |                |                |                |                |                |                |                |                |         |
| 73  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 74  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |                |                |                |                |                |                |                |                |                |         |
| 75  | Res.   |                                     |                |                |                |                |                |                |                |                |                |         |
| 76  | Stack  |                                     |                |                |                |                |                |                |                |                |                |         |
| 77  | Order  | <u>FY 2020</u>                      | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>FY 2027</u> | <u>FY 2028</u> | <u>FY 2029</u> |         |
| 78  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 79  | <u>FY 2011 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 80  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 81  | <b>13</b>  | <u>2015 Conservation - 2011\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 82  | Capital  | 4,107.9                             | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        | 4,107.9        |                |                |                |                |         |
| 83  | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |                |         |
| 84  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 85  | <u>FY 2012 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 86  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 87  | <b>14</b>  | <u>2014 Conservation - 2012\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 88  | Capital  | 4,278.1                             | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        | 4,278.1        |                |                |                |         |
| 89  | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |                |         |
| 90  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 91  | <u>FY 2013 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 92  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 93  | <b>15</b>  | <u>2013 Conservation - 2013\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 94  | Capital  | 4,453.6                             | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        | 4,453.6        |                |                |         |
| 95  | Expense  | 0.0                                 | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |                |                |         |
| 96  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 97  | <u>FY 2014 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 98  |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 99  | <b>16</b>  | <u>2012 Conservation - 2014\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 100 | Capital  | 4,636.3                             | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        | 4,636.3        |                |         |
| 101 | Expense  | 15,503.0                            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |         |
| 102 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 103 | <u>FY 2015 Conservation Resources Selected</u>                         |                                     |                |                |                |                |                |                |                |                |                |         |
| 104 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 105 | <b>17</b>  | <u>2011 Conservation - 2015\$\$</u> |                |                |                |                |                |                |                |                |                |         |
| 106 | Capital  | 3,966.2                             | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2        | 3,966.2 |
| 107 | Expense  | 15,564.5                            | 15,564.5       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0     |
| 108 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 109 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 110 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 111 | <b>TCC</b>   | 36,923.6                            | 36,923.6       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |         |
| 112 | <b>TEC</b>   | 31,067.5                            | 15,564.5       | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |         |
| 113 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 114 | <b>TDSR</b>  | 67,991.1                            | 52,488.1       | 36,923.6       | 36,923.6       | 36,923.6       | 21,442.1       | 17,334.2       | 13,056.1       | 8,602.5        | 3,966.2        |         |
| 115 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 116 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 117 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 118 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 119 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 120 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 121 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 122 |  |                                     |                |                |                |                |                |                |                |                |                |         |
| 123 |  |                                     |                |                |                |                |                |                |                |                |                |         |

|    | A     | B            | C | D   | E              | F              | G              | H              | I              | J              | K              | L              |
|----|-------|--------------|---|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1  |       |              |   | Section 7(b)(2) Rate Test Study and Documentation                     |                |                |                |                |                |                |                |                |
| 2  |       |              |   | Alternative Conservation Expense Accounting and Financing Treatments  |                |                |                |                |                |                |                |                |
| 3  |       |              |   | WP-10 Initial Rate Proposal   |                |                |                |                |                |                |                |                |
| 5  |       |              |   | Scenario = Capitalized costs amortized / financed over 15 years,      |                |                |                |                |                |                |                |                |
| 6  |       |              |   | = Expensed costs are deferred and amortized / financed over 7 - years |                |                |                |                |                |                |                |                |
| 8  |       |              |   | ALTERNATIVE - 5   |                |                |                |                |                |                |                |                |
| 9  |       |              |   |   |                |                |                |                |                |                |                |                |
| 10 |       |              |   | Amortization of Principal - (whole dollars)                           |                |                |                |                |                |                |                |                |
|    | Res.  |              |   | <u>Total</u>  |                |                |                |                |                |                |                |                |
|    | Stack |              |   | <u>Amortization</u>   |                |                |                |                |                |                |                |                |
|    | Order | Vintage Year |   | <u>of Principal</u>   | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> |
| 11 |       |              |   |   |                |                |                |                |                |                |                |                |
| 12 |       |              |   |   |                |                |                |                |                |                |                |                |
| 13 |       |              |   | <b>FY 2010 Conservation Resources Selected</b>                        |                |                |                |                |                |                |                |                |
| 14 |       |              |   | FY 2010 Conservation (9) Res. Selected - Total MW =                   | 255            |                |                |                |                |                |                |                |
| 15 |       |              |   |   |                |                |                |                |                |                |                |                |
| 16 |       |              |   | <b>1 2004 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 17 |       |              |   | Capital Expenditures - Amort. of Principal                            | 22,723,700     | 1,087,612      | 1,137,316      | 1,189,291      | 1,243,642      | 1,300,476      | 1,359,908      | 1,422,056      |
| 18 |       |              |   | Expense Expenditures - Amort. of Principal                            | 18,502,000     | 2,344,665      | 2,437,748      | 2,534,526      | 2,635,147      | 2,739,762      | 2,848,531      | 2,961,621      |
| 19 |       |              |   | <b>2 2001 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 20 |       |              |   | Capital Expenditures - Amort. of Principal                            | 71,200         | 3,408          | 3,564          | 3,727          | 3,897          | 4,075          | 4,261          | 4,456          |
| 21 |       |              |   | Expense Expenditures - Amort. of Principal                            | 24,855,200     | 3,149,774      | 3,274,820      | 3,404,830      | 3,540,002      | 3,680,540      | 3,826,657      | 3,978,577      |
| 22 |       |              |   | <b>4 2006 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 23 |       |              |   | Capital Expenditures - Amort. of Principal                            | 16,438,000     | 786,763        | 822,718        | 860,317        | 899,633        | 940,746        | 983,738        | 1,028,695      |
| 24 |       |              |   | Expense Expenditures - Amort. of Principal                            | 30,761,100     | 3,898,198      | 4,052,957      | 4,213,859      | 4,381,149      | 4,555,081      | 4,735,918      | 4,923,938      |
| 25 |       |              |   | <b>5 2007 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 26 |       |              |   | Capital Expenditures - Amort. of Principal                            | 11,453,500     | 548,193        | 573,245        | 599,443        | 626,837        | 655,484        | 685,439        | 716,764        |
| 27 |       |              |   | Expense Expenditures - Amort. of Principal                            | 41,499,700     | 5,259,047      | 5,467,831      | 5,684,904      | 5,910,595      | 6,145,245      | 6,389,212      | 6,642,866      |
| 28 |       |              |   | <b>6 2003 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 29 |       |              |   | Capital Expenditures - Amort. of Principal                            | 27,500,100     | 1,316,222      | 1,376,374      | 1,439,274      | 1,505,049      | 1,573,830      | 1,645,754      | 1,720,965      |
| 30 |       |              |   | Expense Expenditures - Amort. of Principal                            | 20,758,300     | 2,630,594      | 2,735,029      | 2,843,610      | 2,956,501      | 3,073,874      | 3,195,907      | 3,322,785      |
| 31 |       |              |   | <b>7 2005 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 32 |       |              |   | Capital Expenditures - Amort. of Principal                            | 16,719,500     | 800,237        | 836,808        | 875,050        | 915,040        | 956,857        | 1,000,585      | 1,046,312      |
| 33 |       |              |   | Expense Expenditures - Amort. of Principal                            | 25,443,000     | 3,224,263      | 3,352,266      | 3,485,351      | 3,623,720      | 3,767,581      | 3,917,154      | 4,072,665      |
| 34 |       |              |   | <b>8 2002 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 35 |       |              |   | Capital Expenditures - Amort. of Principal                            | 34,586,600     | 1,655,399      | 1,731,051      | 1,810,160      | 1,892,884      | 1,979,389      | 2,069,847      | 2,164,439      |
| 36 |       |              |   | Expense Expenditures - Amort. of Principal                            | 21,005,400     | 2,661,909      | 2,767,586      | 2,877,460      | 2,991,695      | 3,110,465      | 3,233,950      | 3,362,335      |
| 37 |       |              |   | <b>9 2008 Conservation - 2010\$\$</b>                                 |                |                |                |                |                |                |                |                |
| 38 |       |              |   | Capital Expenditures - Amort. of Principal                            | 8,214,000      | 393,142        | 411,109        | 429,896        | 449,543        | 470,087        | 491,570        | 514,035        |
| 39 |       |              |   | Expense Expenditures - Amort. of Principal                            | 65,070,900     | 8,246,106      | 8,573,477      | 8,913,844      | 9,267,723      | 9,635,652      | 10,018,187     | 10,415,911     |
| 40 |       |              |   | <b>12 2009 Conservation - 2010\$\$</b>                                |                |                |                |                |                |                |                |                |
| 41 |       |              |   | Capital Expenditures - Amort. of Principal                            | 27,759,600     | 1,328,642      | 1,389,361      | 1,452,855      | 1,519,250      | 1,588,680      | 1,661,283      | 1,737,204      |
| 42 |       |              |   | Expense Expenditures - Amort. of Principal                            | 77,166,500     | 9,778,921      | 10,167,144     | 10,570,780     | 10,990,440     | 11,426,760     | 11,880,403     | 12,352,052     |
| 43 |       |              |   |   |                |                |                |                |                |                |                |                |
| 44 |       |              |   |   |                |                |                |                |                |                |                |                |
| 45 |       |              |   |   |                |                |                |                |                |                |                |                |





|    | A   | B | C  | D   | E          | F          | G          | H          | I             | J           | K           | L          |
|----|---|---|--|---|------------|------------|------------|------------|---------------|-------------|-------------|------------|
| 46 |   |   |  | Section 7(b)(2) Rate Test Study and Documentation                     |            |            |            |            |               |             |             |            |
| 47 |   |   |  | Alternative Conservation Expense Accounting and Financing Treatments  |            |            |            |            |               |             |             |            |
| 48 |   |   |  | WP-10 Initial Rate Proposal   |            |            |            |            |               |             |             |            |
| 49 |   |   |  |   |            |            |            |            |               |             |             |            |
| 50 |   |   |  | Scenario = Capitalized costs amortized / financed over 15 years,      |            |            |            |            |               |             |             |            |
| 51 |   |   |  | = Expensed costs are deferred and amortized / financed over 7 - years |            |            |            |            |               |             |             |            |
| 52 |   |   |  |   |            |            |            |            |               |             |             |            |
| 53 |   |   |  | ALTERNATIVE - 5   |            |            |            |            |               |             |             |            |
| 54 |   |   |  |   |            |            |            |            |               |             |             |            |
| 55 |   |   |  | Amortization of Principal - (whole dollars)                           |            |            |            |            |               |             |             |            |
|    | Res.  |   |  |   |            |            |            |            |               |             |             |            |
|    | Stack   |   |  |   |            |            |            |            |               |             |             |            |
|    | Order   |   |  |   |            |            |            |            |               |             |             |            |
| 56 |   |   | Vintage Year                               | Total Amortization  |            |            |            |            |               |             |             |            |
| 57 | FY 2011                                       |   | Conservation Resources Selected            | of Principal  | FY 2010    | FY 2011    | FY 2012    | FY 2013    | FY 2014       | FY 2015     | FY 2016     | FY 2017    |
| 58 | 13  |   | 2015 Conservation - 2011\$\$               | 43,905,000  | 0          | 2,101,401  | 2,197,436  | 2,297,858  | 2,402,870     | 2,512,682   | 2,627,511   | 2,747,588  |
| 59 |   |   | Capital Expenditures - Amort. of Principal | 84,808,500  | 0          | 10,747,353 | 11,174,022 | 11,617,631 | 12,078,851    | 12,558,381  | 13,056,949  | 13,575,313 |
| 60 |   |   | Expense Expenditures - Amort. of Principal |   |            |            |            |            |               |             |             |            |
| 61 | FY 2012                                       |   | Conservation Resources Selected            |   |            |            |            |            |               |             |             |            |
| 62 | 14  |   | 2014 Conservation - 2012\$\$               |   |            |            |            |            |               |             |             |            |
| 63 |   |   | Capital Expenditures - Amort. of Principal | 45,724,200  | 0          | 0          | 2,188,473  | 2,288,486  | 2,393,070     | 2,502,433   | 2,616,795   | 2,736,382  |
| 64 |   |   | Expense Expenditures - Amort. of Principal | 87,425,400  | 0          | 0          | 11,078,980 | 11,518,815 | 11,976,112    | 12,451,564  | 12,945,891  | 13,459,843 |
| 65 | FY 2013                                       |   | Conservation Resources Selected            |   |            |            |            |            |               |             |             |            |
| 66 | 15  |   | 2013 Conservation - 2013\$\$               |   |            |            |            |            |               |             |             |            |
| 67 |   |   | Capital Expenditures - Amort. of Principal | 47,599,900  | 0          | 0          | 0          | 2,278,249  | 2,382,365     | 2,491,239   | 2,605,088   | 2,724,141  |
| 68 |   |   | Expense Expenditures - Amort. of Principal | 90,257,000  | 0          | 0          | 0          | 11,437,814 | 11,891,895    | 12,364,004  | 12,854,855  | 13,365,192 |
| 69 | FY 2014                                       |   | Conservation Resources Selected            |   |            |            |            |            |               |             |             |            |
| 70 | 16  |   | 2012 Conservation - 2014\$\$               |   |            |            |            |            |               |             |             |            |
| 71 |   |   | Capital Expenditures - Amort. of Principal | 49,552,800  | 0          | 0          | 0          | 0          | 2,371,719     | 2,480,107   | 2,593,447   | 2,711,968  |
| 72 |   |   | Expense Expenditures - Amort. of Principal | 93,153,000  | 0          | 0          | 0          | 0          | 11,804,809    | 12,273,460  | 12,760,716  | 13,267,317 |
| 73 | FY 2015                                       |   | Conservation Resources Selected            |   |            |            |            |            |               |             |             |            |
| 74 | 17  |   | 2011 Conservation - 2015\$\$               |   |            |            |            |            |               |             |             |            |
| 75 |   |   | Capital Expenditures - Amort. of Principal | 42,390,600  | 0          | 0          | 0          | 0          | 0             | 2,028,919   | 2,121,640   | 2,218,599  |
| 76 |   |   | Expense Expenditures - Amort. of Principal | 93,522,800  | 0          | 0          | 0          | 0          | 0             | 11,851,672  | 12,322,183  | 12,811,374 |
| 77 |   |   |  |   |            |            |            |            |               |             |             |            |
| 78 | TOTALS - CAPITAL EXPENDITURES -               |   |  | 394,638,700   |            |            |            |            |               |             |             |            |
| 79 | AMORTIZATION OF PRINCIPAL                     |   |  | 394,638,700   | 7,919,618  | 10,382,947 | 13,045,922 | 15,920,368 | 19,019,648    | 21,917,765  | 22,919,407  | 23,966,824 |
| 80 | TOTALS - EXPENSE EXPENDITURES -               |   |  | 774,228,800   |            |            |            |            |               |             |             |            |
| 81 | AMORTIZATION OF PRINCIPAL                     |   |  | 774,228,800   | 41,193,477 | 53,576,211 | 66,782,166 | 80,871,232 | 95,886,627    | 111,545,000 | 115,973,344 | 66,479,039 |
| 82 |   |   |  |   |            |            |            |            |               |             |             |            |
| 83 | TOTAL CONSERVATION PRINCIPAL COSTS            |   |  | 1,168,867,500   | 49,113,095 | 63,959,158 | 79,828,088 | 96,791,600 | 114,906,275   | 133,462,765 | 138,892,751 | 90,445,863 |
| 84 |   |   |  |   |            |            |            |            |               |             |             |            |
| 85 | PERCENTAGE OF TOTAL PRINCIPAL PAID            |   |  | 100.00%   | 4.20%      | 5.47%      | 6.83%      | 8.28%      | 9.83%         | 11.42%      | 11.88%      | 7.74%      |
| 86 |   |   |  |   |            |            |            |            |               |             |             |            |
| 87 | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID |   |  |   | 4.20%      | 9.67%      | 16.50%     | 24.78%     | 34.61%        | 46.03%      | 57.91%      | 65.65%     |
| 88 |   |   |  |   |            |            |            |            |               |             |             |            |
| 89 |   |   |  |   |            |            |            |            | 46.03%        |             |             |            |
| 90 |   |   |  |   |            |            |            |            | \$127,727,500 |             |             |            |
| 91 |   |   |  |   |            |            |            |            | 16.50%        |             |             |            |
| 92 |   |   |  |   |            |            |            |            |               |             |             |            |
| 93 |   |   |  |   |            |            |            |            |               |             |             |            |
| 94 |   |   |  |   |            |            |            |            |               |             |             |            |

|    | A | B | C | M | N | O | P | Q | R | S | T | U | V | W | X |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 47 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 48 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 49 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 50 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 51 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 52 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 53 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 54 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 55 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 56 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 57 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 58 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 59 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 60 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 61 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 62 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 63 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 64 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 65 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 66 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 67 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 68 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 69 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 70 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 71 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 72 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 73 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 74 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 75 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 76 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 77 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 78 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 79 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 80 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 81 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 82 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 83 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 84 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 85 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 86 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 87 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 88 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 89 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 90 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 91 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 92 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 93 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 94 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|    | A | B | C | D | E | F | G | H | I | J | K |
|----|---|---|---|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |   |   |   |
| 2  |   |   |   |   |   |   |   |   |   |   |   |
| 3  |   |   |   |   |   |   |   |   |   |   |   |
| 5  |   |   |   |   |   |   |   |   |   |   |   |
| 6  |   |   |   |   |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   |   |   |   |   |   |   |
| 9  |   |   |   |   |   |   |   |   |   |   |   |
| 10 |   |   |   |   |   |   |   |   |   |   |   |
| 11 |   |   |   |   |   |   |   |   |   |   |   |
| 12 |   |   |   |   |   |   |   |   |   |   |   |
| 13 |   |   |   |   |   |   |   |   |   |   |   |
| 14 |   |   |   |   |   |   |   |   |   |   |   |
| 15 |   |   |   |   |   |   |   |   |   |   |   |
| 16 |   |   |   |   |   |   |   |   |   |   |   |
| 17 |   |   |   |   |   |   |   |   |   |   |   |
| 18 |   |   |   |   |   |   |   |   |   |   |   |
| 19 |   |   |   |   |   |   |   |   |   |   |   |
| 20 |   |   |   |   |   |   |   |   |   |   |   |
| 21 |   |   |   |   |   |   |   |   |   |   |   |
| 22 |   |   |   |   |   |   |   |   |   |   |   |
| 23 |   |   |   |   |   |   |   |   |   |   |   |
| 24 |   |   |   |   |   |   |   |   |   |   |   |
| 25 |   |   |   |   |   |   |   |   |   |   |   |
| 26 |   |   |   |   |   |   |   |   |   |   |   |
| 27 |   |   |   |   |   |   |   |   |   |   |   |
| 28 |   |   |   |   |   |   |   |   |   |   |   |
| 29 |   |   |   |   |   |   |   |   |   |   |   |
| 30 |   |   |   |   |   |   |   |   |   |   |   |
| 31 |   |   |   |   |   |   |   |   |   |   |   |
| 32 |   |   |   |   |   |   |   |   |   |   |   |
| 33 |   |   |   |   |   |   |   |   |   |   |   |
| 34 |   |   |   |   |   |   |   |   |   |   |   |
| 35 |   |   |   |   |   |   |   |   |   |   |   |
| 36 |   |   |   |   |   |   |   |   |   |   |   |
| 37 |   |   |   |   |   |   |   |   |   |   |   |
| 38 |   |   |   |   |   |   |   |   |   |   |   |
| 39 |   |   |   |   |   |   |   |   |   |   |   |
| 40 |   |   |   |   |   |   |   |   |   |   |   |
| 41 |   |   |   |   |   |   |   |   |   |   |   |
| 42 |   |   |   |   |   |   |   |   |   |   |   |
| 43 |   |   |   |   |   |   |   |   |   |   |   |
| 44 |   |   |   |   |   |   |   |   |   |   |   |
| 45 |   |   |   |   |   |   |   |   |   |   |   |
| 46 |   |   |   |   |   |   |   |   |   |   |   |
| 47 |   |   |   |   |   |   |   |   |   |   |   |
| 48 |   |   |   |   |   |   |   |   |   |   |   |
| 49 |   |   |   |   |   |   |   |   |   |   |   |
| 50 |   |   |   |   |   |   |   |   |   |   |   |
| 51 |   |   |   |   |   |   |   |   |   |   |   |
| 52 |   |   |   |   |   |   |   |   |   |   |   |
| 53 |   |   |   |   |   |   |   |   |   |   |   |
| 54 |   |   |   |   |   |   |   |   |   |   |   |
| 55 |   |   |   |   |   |   |   |   |   |   |   |
| 56 |   |   |   |   |   |   |   |   |   |   |   |
| 57 |   |   |   |   |   |   |   |   |   |   |   |
| 58 |   |   |   |   |   |   |   |   |   |   |   |
| 59 |   |   |   |   |   |   |   |   |   |   |   |
| 60 |   |   |   |   |   |   |   |   |   |   |   |
| 61 |   |   |   |   |   |   |   |   |   |   |   |
| 62 |   |   |   |   |   |   |   |   |   |   |   |
| 63 |   |   |   |   |   |   |   |   |   |   |   |
| 64 |   |   |   |   |   |   |   |   |   |   |   |
| 65 |   |   |   |   |   |   |   |   |   |   |   |

|    | L  | M                                   | N       | O       | P       | Q       | R       | S       | T       | U       | V       | W |
|----|--|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |         |         |         |         |         |         |         |         |         |   |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |         |         |         |         |         |         |         |         |         |   |
| 3  | WP-10 Initial Rate Proposal  |                                     |         |         |         |         |         |         |         |         |         |   |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |         |         |         |         |         |         |         |         |         |   |
| 6  | Expensed costs are deferred and financed over 15-years                 |                                     |         |         |         |         |         |         |         |         |         |   |
| 9  | ALTERNATIVE - 6  |                                     |         |         |         |         |         |         |         |         |         |   |
| 19 | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |         |         |         |         |         |         |         |         |         |   |
| 21 | Res.   |                                     |         |         |         |         |         |         |         |         |         |   |
| 22 | Stack  |                                     |         |         |         |         |         |         |         |         |         |   |
| 23 | Order  | FY 2010                             | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 |   |
| 26 | <b>FY 2010 Conservation Resources Selected</b>                         |                                     |         |         |         |         |         |         |         |         |         |   |
| 27 | <b>1</b>   | <b>2004 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 28 | Capital  | 2,126.1                             | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |   |
| 29 | Expense  | 1,731.1                             | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 |   |
| 31 | <b>2</b>   | <b>2001 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 32 | Capital  | 6.7                                 | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |   |
| 33 | Expense  | 2,325.5                             | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 |   |
| 35 | <b>4</b>   | <b>2006 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 36 | Capital  | 1,538.0                             | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |   |
| 37 | Expense  | 2,878.1                             | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 |   |
| 39 | <b>5</b>   | <b>2007 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 40 | Capital  | 1,071.6                             | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |   |
| 41 | Expense  | 3,882.8                             | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 |   |
| 43 | <b>6</b>   | <b>2003 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 44 | Capital  | 2,573.0                             | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |   |
| 45 | Expense  | 1,942.2                             | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 |   |
| 47 | <b>7</b>   | <b>2005 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 48 | Capital  | 1,564.3                             | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |   |
| 49 | Expense  | 2,380.5                             | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 |   |
| 51 | <b>8</b>   | <b>2002 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 52 | Capital  | 3,236.0                             | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |   |
| 53 | Expense  | 1,965.3                             | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 |   |
| 55 | <b>9</b>   | <b>2008 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 56 | Capital  | 768.5                               | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   | 768.5   |   |
| 57 | Expense  | 6,088.2                             | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 |   |
| 59 | <b>12</b>  | <b>2009 Conservation - 2010\$\$</b> |         |         |         |         |         |         |         |         |         |   |
| 60 | Capital  | 2,597.3                             | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |   |
| 61 | Expense  | 7,219.9                             | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 |   |
| 63 | Page 2 of 10   |                                     |         |         |         |         |         |         |         |         |         |   |

|    | X  | Y  | Z       | AA      | AB      | AC      | AD      | AE      | AF      | AG      | AH      | AI |
|----|--|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 1  | Section 7(b)(2) Rate Test Study and Documentation                      |  |         |         |         |         |         |         |         |         |         |    |
| 2  | Alternative Conservation Expense Accounting and Financing Treatments   |  |         |         |         |         |         |         |         |         |         |    |
| 3  | WP-10 Initial Rate Proposal  |  |         |         |         |         |         |         |         |         |         |    |
| 5  | Scenario = Capitalized costs are amortized and financed over 15 years, |  |         |         |         |         |         |         |         |         |         |    |
| 6  | Expensed costs are deferred and financed over 15-years                 |  |         |         |         |         |         |         |         |         |         |    |
| 9  | ALTERNATIVE - 6  |  |         |         |         |         |         |         |         |         |         |    |
| 19 | Debt Service Requirements - Principal and Interest (\$ 000)            |  |         |         |         |         |         |         |         |         |         |    |
| 21 | Res.   |  |         |         |         |         |         |         |         |         |         |    |
| 22 | Stack  |  |         |         |         |         |         |         |         |         |         |    |
| 23 | Order  | FY 2020                                    | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |    |
| 26 | <b>FY 2010 Conservation Resources Selected</b>                         |  |         |         |         |         |         |         |         |         |         |    |
| 27 | <b>1</b>   | <b><u>2004 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 28 | Capital  | 2,126.1                                    | 2,126.1 | 2,126.1 | 2,126.1 | 2,126.1 |         |         |         |         |         |    |
| 29 | Expense  | 1,731.1                                    | 1,731.1 | 1,731.1 | 1,731.1 | 1,731.1 |         |         |         |         |         |    |
| 31 | <b>2</b>   | <b><u>2001 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 32 | Capital  | 6.7  | 6.7     | 6.7     | 6.7     | 6.7     |         |         |         |         |         |    |
| 33 | Expense  | 2,325.5                                    | 2,325.5 | 2,325.5 | 2,325.5 | 2,325.5 |         |         |         |         |         |    |
| 35 | <b>4</b>   | <b><u>2006 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 36 | Capital  | 1,538.0                                    | 1,538.0 | 1,538.0 | 1,538.0 | 1,538.0 |         |         |         |         |         |    |
| 37 | Expense  | 2,878.1                                    | 2,878.1 | 2,878.1 | 2,878.1 | 2,878.1 |         |         |         |         |         |    |
| 39 | <b>5</b>   | <b><u>2007 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 40 |  | 1,071.6                                    | 1,071.6 | 1,071.6 | 1,071.6 | 1,071.6 |         |         |         |         |         |    |
| 41 |  | 3,882.8                                    | 3,882.8 | 3,882.8 | 3,882.8 | 3,882.8 |         |         |         |         |         |    |
| 43 | <b>6</b>   | <b><u>2003 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 44 | Capital  | 2,573.0                                    | 2,573.0 | 2,573.0 | 2,573.0 | 2,573.0 |         |         |         |         |         |    |
| 45 | Expense  | 1,942.2                                    | 1,942.2 | 1,942.2 | 1,942.2 | 1,942.2 |         |         |         |         |         |    |
| 47 | <b>7</b>   | <b><u>2005 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 48 | Capital  | 1,564.3                                    | 1,564.3 | 1,564.3 | 1,564.3 | 1,564.3 |         |         |         |         |         |    |
| 49 | Expense  | 2,380.5                                    | 2,380.5 | 2,380.5 | 2,380.5 | 2,380.5 |         |         |         |         |         |    |
| 51 | <b>8</b>   | <b><u>2002 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 52 | Capital  | 3,236.0                                    | 3,236.0 | 3,236.0 | 3,236.0 | 3,236.0 |         |         |         |         |         |    |
| 53 | Expense  | 1,965.3                                    | 1,965.3 | 1,965.3 | 1,965.3 | 1,965.3 |         |         |         |         |         |    |
| 55 | <b>9</b>   | <b><u>2008 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 56 | Capital  | 768.5                                      | 768.5   | 768.5   | 768.5   | 768.5   |         |         |         |         |         |    |
| 57 | Expense  | 6,088.2                                    | 6,088.2 | 6,088.2 | 6,088.2 | 6,088.2 |         |         |         |         |         |    |
| 59 | <b>12</b>  | <b><u>2009 Conservation - 2010\$\$</u></b> |         |         |         |         |         |         |         |         |         |    |
| 60 | Capital  | 2,597.3                                    | 2,597.3 | 2,597.3 | 2,597.3 | 2,597.3 |         |         |         |         |         |    |
| 61 | Expense  | 7,219.9                                    | 7,219.9 | 7,219.9 | 7,219.9 | 7,219.9 |         |         |         |         |         |    |
| 63 | Page 3 of 10   |  |         |         |         |         |         |         |         |         |         |    |

|     | A  | B | C  | D            | E | F                            | G           | H         | I | J             | K              |
|-----|--|---|--|--------------|---|------------------------------|-------------|-----------|---|---------------|----------------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |   |  |              |   |                              |             |           |   |               |                |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |   |  |              |   |                              |             |           |   |               |                |
| 68  | WP-10 Initial Rate Proposal  |   |  |              |   |                              |             |           |   |               |                |
| 69  |  |   |  |              |   |                              |             |           |   |               |                |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |   |  |              |   |                              |             |           |   |               |                |
| 71  | Expensed costs are deferred and financed over 15-years                 |   |  |              |   |                              |             |           |   |               |                |
| 72  |  |   |  |              |   |                              |             |           |   |               |                |
| 73  | ALTERNATIVE - 6  |   |  |              |   |                              |             |           |   |               |                |
| 74  |  |   |  |              |   |                              |             |           |   |               |                |
| 75  |  |   |  |              |   |                              |             |           |   |               |                |
| 76  | Res.   |   |  | Conservation |   | Amount                       | Amount      |           |   | NET           | Annual         |
| 77  | Stack  |   |  | Savings      |   | Revenue                      | Capitalized |           |   | Annual        | Debt Service   |
| 78  | Order  |   | Vintage Year                                       | aMW          |   | Expensed                     | & Debt      |           |   | Expenditures  | Whole          |
| 79  |  |   |  |              |   |                              | Financed    |           |   |               | Dollars        |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |   |  |              |   |                              |             |           |   |               |                |
| 81  |  |   | 2015 Conservation - 2010\$\$                       | 38.8         |   | 83,126.7                     | 43,034.3    |           |   | 126,161.1     |                |
| 82  | <b>13</b>  |   | <b>2015 Conservation - 2011\$\$</b>                |              |   | 84,808.5                     | 43,905.0    |           |   | 128,713.5     |                |
| 83  |  |   | Capitalized Costs - Debt Service Requirements      |              |   |                              |             |           |   |               | 4,107,859.76   |
| 84  |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |                              |             |           |   |               | \$7,934,891.80 |
| 85  |  |   |  |              |   |                              |             |           |   |               |                |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |   |  |              |   |                              |             |           |   |               |                |
| 87  |  |   | 2014 Conservation - 2010\$\$                       | 38.8         |   | 83,935.2                     | 43,898.8    |           |   | 127,833.9     |                |
| 88  | <b>14</b>  |   | <b>2014 Conservation - 2012\$\$</b>                |              |   | 87,425.4                     | 45,724.2    |           |   | 133,149.6     |                |
| 89  |  |   | Capitalized Costs - Debt Service Requirements      |              |   |                              |             |           |   |               | 4,278,068.59   |
| 90  |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |                              |             |           |   |               | \$8,179,735.40 |
| 91  |  |   |  |              |   |                              |             |           |   |               |                |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |   |  |              |   |                              |             |           |   |               |                |
| 93  |  |   | 2013 Conservation - 2010\$\$                       | 38.8         |   | 84,924.7                     | 44,787.8    |           |   | 129,712.6     |                |
| 94  | <b>15</b>  |   | <b>2013 Conservation - 2013\$\$</b>                |              |   | 90,257.0                     | 47,599.9    |           |   | 137,856.9     |                |
| 95  |  |   | Capitalized Costs - Debt Service Requirements      |              |   |                              |             |           |   |               | 4,453,563.69   |
| 96  |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |                              |             |           |   |               | \$8,444,666.9  |
| 97  |  |   |  |              |   |                              |             |           |   |               |                |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |   |  |              |   |                              |             |           |   |               |                |
| 99  |  |   | 2012 Conservation - 2010\$\$                       | 38.8         |   | 85,909.7                     | 45,699.7    |           |   | 131,609.5     |                |
| 100 | <b>16</b>  |   | <b>2012 Conservation - 2014\$\$</b>                |              |   | 93,153.0                     | 49,552.8    |           |   | 142,705.8     |                |
| 101 |  |   | Capitalized Costs - Debt Service Requirements      |              |   |                              |             |           |   |               | 4,636,281.82   |
| 102 |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |                              |             |           |   |               | \$8,715,623.74 |
| 103 |  |   |  |              |   |                              |             |           |   |               |                |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |   |  |              |   |                              |             |           |   |               |                |
| 105 |  |   | 2011 Conservation - 2010\$\$                       | 34.6         |   | 84,552.3                     | 38,324.6    |           |   | 122,876.9     |                |
| 106 | <b>17</b>  |   | <b>2011 Conservation - 2015\$\$</b>                |              |   | 93,522.8                     | 42,390.6    |           |   | 135,913.4     |                |
| 107 |  |   | Capitalized Costs - Debt Service Requirements      |              |   |                              |             |           |   |               | 3,966,168.77   |
| 108 |  |   | Expensed Costs /Deferral Debt Service Requirements |              |   |                              |             |           |   |               | \$8,750,223.14 |
| 109 |  |   |  |              |   | Principal                    | Principal   |           |   | Interest Paid |                |
| 110 |  |   |  |              |   | Expense                      | Capital     |           |   | Expense       | Cumulative     |
| 111 |  |   |  |              |   | Costs                        | Costs       |           |   | Costs         | Totals         |
| 112 | TOTAL Capital Costs - Debt Ser. Req. = TCC                             |   |  |              |   |                              | 394,638.7   |           |   | 159,215.3     | 553,854.0      |
| 113 | TOTAL Expense Costs - Debt Serv. Req. = TEC                            |   |  |              |   |                              | 774,228.8   |           |   | 312,351.7     | 1,086,580.5    |
| 114 |  |   |  |              |   |                              |             |           |   |               |                |
| 115 | TOTAL DEBT SERVICE REQUIREMENTS = TDSR                                 |   |  |              |   |                              | 774,228.8   | 394,638.7 |   | 471,567.0     | 1,640,434.5    |
| 116 |  |   |  |              |   |                              |             |           |   |               |                |
| 117 |  |   |  |              |   | Principal Expense Costs      |             |           |   |               | 774,228.8      |
| 118 |  |   |  |              |   | Interest Paid Expensed Costs |             |           |   |               | 312,351.7      |
| 119 |  |   |  |              |   | Principal Capital Costs      |             |           |   |               | 394,638.7      |
| 120 |  |   |  |              |   | Interest Paid Capital Costs  |             |           |   |               | 159,215.3      |
| 121 |  |   |  |              |   | Totals                       |             |           |   |               | 1,640,434.5    |
| 122 |  |   |  |              |   |                              |             |           |   |               |                |
| 123 | Page 4 of 10   |   |  |              |   |                              |             |           |   |               |                |
| 124 |  |   |  |              |   |                              |             |           |   |               |                |

|     | L  | M                                   | N        | O        | P        | Q        | R         | S         | T         | U         | V         | W         |
|-----|--|-------------------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |          |          |          |          |           |           |           |           |           |           |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |          |          |          |          |           |           |           |           |           |           |
| 68  | WP-10 Initial Rate Proposal  |                                     |          |          |          |          |           |           |           |           |           |           |
| 69  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |          |          |          |          |           |           |           |           |           |           |
| 71  | Expensed costs are deferred and financed over 15-years                 |                                     |          |          |          |          |           |           |           |           |           |           |
| 72  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 73  | ALTERNATIVE - 6  |                                     |          |          |          |          |           |           |           |           |           |           |
| 74  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |          |          |          |          |           |           |           |           |           |           |
| 76  | Res.   |                                     |          |          |          |          |           |           |           |           |           |           |
| 77  | Stack  |                                     |          |          |          |          |           |           |           |           |           |           |
| 78  | Order  | FY 2010                             | FY 2011  | FY 2012  | FY 2013  | FY 2014  | FY 2015   | FY 2016   | FY 2017   | FY 2018   | FY 2019   |           |
| 79  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |                                     |          |          |          |          |           |           |           |           |           |           |
| 81  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 82  | <b>13</b>  | <b>2015 Conservation - 2011\$\$</b> |          |          |          |          |           |           |           |           |           |           |
| 83  | Capital  | 0.0                                 | 4,107.9  | 4,107.9  | 4,107.9  | 4,107.9  | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   |
| 84  | Expense  | 0.0                                 | 7,934.9  | 7,934.9  | 7,934.9  | 7,934.9  | 7,934.9   | 7,934.9   | 7,934.9   | 7,934.9   | 7,934.9   | 7,934.9   |
| 85  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |                                     |          |          |          |          |           |           |           |           |           |           |
| 87  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 88  | <b>14</b>  | <b>2014 Conservation - 2012\$\$</b> |          |          |          |          |           |           |           |           |           |           |
| 89  | Capital  | 0.0                                 | 0.0      | 4,278.1  | 4,278.1  | 4,278.1  | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   |
| 90  | Expense  | 0.0                                 | 0.0      | 8,179.7  | 8,179.7  | 8,179.7  | 8,179.7   | 8,179.7   | 8,179.7   | 8,179.7   | 8,179.7   | 8,179.7   |
| 91  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |                                     |          |          |          |          |           |           |           |           |           |           |
| 93  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 94  | <b>15</b>  | <b>2013 Conservation - 2013\$\$</b> |          |          |          |          |           |           |           |           |           |           |
| 95  | Capital  | 0.0                                 | 0.0      | 0.0      | 4,453.6  | 4,453.6  | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   |
| 96  | Expense  | 0.0                                 | 0.0      | 0.0      | 8,444.7  | 8,444.7  | 8,444.7   | 8,444.7   | 8,444.7   | 8,444.7   | 8,444.7   | 8,444.7   |
| 97  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |                                     |          |          |          |          |           |           |           |           |           |           |
| 99  |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 100 | <b>16</b>  | <b>2012 Conservation - 2014\$\$</b> |          |          |          |          |           |           |           |           |           |           |
| 101 | Capital  | 0.0                                 | 0.0      | 0.0      | 0.0      | 4,636.3  | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3   |
| 102 | Expense  | 0.0                                 | 0.0      | 0.0      | 0.0      | 8,715.6  | 8,715.6   | 8,715.6   | 8,715.6   | 8,715.6   | 8,715.6   | 8,715.6   |
| 103 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |                                     |          |          |          |          |           |           |           |           |           |           |
| 105 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 106 | <b>17</b>  | <b>2011 Conservation - 2015\$\$</b> |          |          |          |          |           |           |           |           |           |           |
| 107 | Capital  | 0.0                                 | 0.0      | 0.0      | 0.0      | 0.0      | 3,966.2   | 3,966.2   | 3,966.2   | 3,966.2   | 3,966.2   | 3,966.2   |
| 108 | Expense  | 0.0                                 | 0.0      | 0.0      | 0.0      | 0.0      | 8,750.2   | 8,750.2   | 8,750.2   | 8,750.2   | 8,750.2   | 8,750.2   |
| 109 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 110 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 111 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 112 | <b>TCC</b>   | 15,481.5                            | 19,589.4 | 23,867.5 | 28,321.1 | 32,957.4 | 36,923.6  | 36,923.6  | 36,923.6  | 36,923.6  | 36,923.6  | 36,923.6  |
| 113 | <b>TEC</b>   | 30,413.6                            | 38,348.5 | 46,528.2 | 54,972.9 | 63,688.5 | 72,438.7  | 72,438.7  | 72,438.7  | 72,438.7  | 72,438.7  | 72,438.7  |
| 114 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 115 | <b>TDSR</b>  | 45,895.1                            | 57,937.9 | 70,395.7 | 83,294.0 | 96,645.9 | 109,362.3 | 109,362.3 | 109,362.3 | 109,362.3 | 109,362.3 | 109,362.3 |
| 116 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 117 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 118 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 119 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 120 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 121 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 122 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 123 |  |                                     |          |          |          |          |           |           |           |           |           |           |
| 124 |  |                                     |          |          |          |          |           |           |           |           |           |           |

|     | X  | Y                                   | Z         | AA        | AB        | AC        | AD       | AE       | AF       | AG       | AH       | AI      |
|-----|--|-------------------------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|---------|
| 66  | Section 7(b)(2) Rate Test Study and Documentation                      |                                     |           |           |           |           |          |          |          |          |          |         |
| 67  | Alternative Conservation Expense Accounting and Financing Treatments   |                                     |           |           |           |           |          |          |          |          |          |         |
| 68  | WP-10 Initial Rate Proposal  |                                     |           |           |           |           |          |          |          |          |          |         |
| 69  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 70  | Scenario = Capitalized costs are amortized and financed over 15 years, |                                     |           |           |           |           |          |          |          |          |          |         |
| 71  | Expensed costs are deferred and financed over 15-years                 |                                     |           |           |           |           |          |          |          |          |          |         |
| 72  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 73  | ALTERNATIVE - 6  |                                     |           |           |           |           |          |          |          |          |          |         |
| 74  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 75  | Debt Service Requirements - Principal and Interest (\$ 000)            |                                     |           |           |           |           |          |          |          |          |          |         |
| 76  | Res.   |                                     |           |           |           |           |          |          |          |          |          |         |
| 77  | Stack  |                                     |           |           |           |           |          |          |          |          |          |         |
| 78  | Order  | FY 2020                             | FY 2021   | FY 2022   | FY 2023   | FY 2024   | FY 2025  | FY 2026  | FY 2027  | FY 2028  | FY 2029  |         |
| 79  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 80  | <b>FY 2011 Conservation Resources Selected</b>                         |                                     |           |           |           |           |          |          |          |          |          |         |
| 81  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 82  | <b>13</b>  | <b>2015 Conservation - 2011\$\$</b> |           |           |           |           |          |          |          |          |          |         |
| 83  | Capital  | 4,107.9                             | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9   | 4,107.9  |          |          |          |          |         |
| 84  | Expense  | 7,934.9                             | 7,934.9   | 7,934.9   | 7,934.9   | 7,934.9   | 7,934.9  |          |          |          |          |         |
| 85  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 86  | <b>FY 2012 Conservation Resources Selected</b>                         |                                     |           |           |           |           |          |          |          |          |          |         |
| 87  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 88  | <b>14</b>  | <b>2014 Conservation - 2012\$\$</b> |           |           |           |           |          |          |          |          |          |         |
| 89  | Capital  | 4,278.1                             | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1   | 4,278.1  | 4,278.1  |          |          |          |         |
| 90  | Expense  | 8,179.7                             | 8,179.7   | 8,179.7   | 8,179.7   | 8,179.7   | 8,179.7  | 8,179.7  |          |          |          |         |
| 91  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 92  | <b>FY 2013 Conservation Resources Selected</b>                         |                                     |           |           |           |           |          |          |          |          |          |         |
| 93  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 94  | <b>15</b>  | <b>2013 Conservation - 2013\$\$</b> |           |           |           |           |          |          |          |          |          |         |
| 95  | Capital  | 4,453.6                             | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6   | 4,453.6  | 4,453.6  | 4,453.6  |          |          |         |
| 96  | Expense  | 8,444.7                             | 8,444.7   | 8,444.7   | 8,444.7   | 8,444.7   | 8,444.7  | 8,444.7  | 8,444.7  |          |          |         |
| 97  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 98  | <b>FY 2014 Conservation Resources Selected</b>                         |                                     |           |           |           |           |          |          |          |          |          |         |
| 99  |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 100 | <b>16</b>  | <b>2012 Conservation - 2014\$\$</b> |           |           |           |           |          |          |          |          |          |         |
| 101 | Capital  | 4,636.3                             | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3   | 4,636.3  | 4,636.3  | 4,636.3  | 4,636.3  |          |         |
| 102 | Expense  | 8,715.6                             | 8,715.6   | 8,715.6   | 8,715.6   | 8,715.6   | 8,715.6  | 8,715.6  | 8,715.6  | 8,715.6  |          |         |
| 103 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 104 | <b>FY 2015 Conservation Resources Selected</b>                         |                                     |           |           |           |           |          |          |          |          |          |         |
| 105 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 106 | <b>17</b>  | <b>2011 Conservation - 2015\$\$</b> |           |           |           |           |          |          |          |          |          |         |
| 107 | Capital  | 3,966.2                             | 3,966.2   | 3,966.2   | 3,966.2   | 3,966.2   | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2  | 3,966.2 |
| 108 | Expense  | 8,750.2                             | 8,750.2   | 8,750.2   | 8,750.2   | 8,750.2   | 8,750.2  | 8,750.2  | 8,750.2  | 8,750.2  | 8,750.2  | 8,750.2 |
| 109 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 110 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 111 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 112 | <b>TCC</b>   | 36,923.6                            | 36,923.6  | 36,923.6  | 36,923.6  | 36,923.6  | 21,442.1 | 17,334.2 | 13,056.1 | 8,602.5  | 3,966.2  |         |
| 113 | <b>TEC</b>   | 72,438.7                            | 72,438.7  | 72,438.7  | 72,438.7  | 72,438.7  | 42,025.1 | 34,090.2 | 25,910.5 | 17,465.8 | 8,750.2  |         |
| 114 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 115 | <b>TDSR</b>  | 109,362.3                           | 109,362.3 | 109,362.3 | 109,362.3 | 109,362.3 | 63,467.2 | 51,424.4 | 38,966.6 | 26,068.3 | 12,716.4 |         |
| 116 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 117 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 118 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 119 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 120 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 121 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 122 | Page 6 of 10   |                                     |           |           |           |           |          |          |          |          |          |         |
| 123 |  |                                     |           |           |           |           |          |          |          |          |          |         |
| 124 |  |                                     |           |           |           |           |          |          |          |          |          |         |



|    | A   | B | C  | D  | E         | F         | G         | H         | I         | J         | K         | L         |
|----|---|---|--|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1  |   |   |  | Section 7(b)(2) Rate Test Study and Documentation                      |           |           |           |           |           |           |           |           |
| 2  |   |   |  | Alternative Conservation Expense Accounting and Financing Treatments   |           |           |           |           |           |           |           |           |
| 3  |   |   |  | WP-10 Initial Rate Proposal  |           |           |           |           |           |           |           |           |
| 4  |   |   |  |  |           |           |           |           |           |           |           |           |
| 5  |   |   |  | Scenario = Capitalized costs amortized / financed over 15 years,       |           |           |           |           |           |           |           |           |
| 6  |   |   |  | = Expensed costs are deferred and amortized / financed over 15 - years |           |           |           |           |           |           |           |           |
| 7  |   |   |  |  |           |           |           |           |           |           |           |           |
| 8  |   |   |  | ALTERNATIVE - 6  |           |           |           |           |           |           |           |           |
| 9  |   |   |  |  |           |           |           |           |           |           |           |           |
| 10 |   |   |  | Amortization of Principal - (whole dollars)                            |           |           |           |           |           |           |           |           |
|    | Res.  |   |  | Total  |           |           |           |           |           |           |           |           |
|    | Stack   |   |  | Amortization   |           |           |           |           |           |           |           |           |
|    | Order   |   | Vintage Year                               | of Principal   | FY 2010   | FY 2011   | FY 2012   | FY 2013   | FY 2014   | FY 2015   | FY 2016   | FY 2017   |
| 11 |   |   |  |  |           |           |           |           |           |           |           |           |
| 12 |   |   |  |  |           |           |           |           |           |           |           |           |
| 13 | FY 2010 Conservation (9) Res. Selected - Total MW = |   |  | 0.0  |           |           |           |           |           |           |           |           |
| 14 |   |   |  |  |           |           |           |           |           |           |           |           |
| 15 | 1   |   | <b>2004 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 16 |   |   | Capital Expenditures - Amort. of Principal | 22,723,700   | 1,087,612 | 1,137,316 | 1,189,291 | 1,243,642 | 1,300,476 | 1,359,908 | 1,422,056 | 1,487,044 |
| 17 |   |   | Expense Expenditures - Amort. of Principal | 18,502,000   | 885,552   | 926,021   | 968,340   | 1,012,594 | 1,058,869 | 1,107,259 | 1,157,861 | 1,210,775 |
| 18 | 2   |   | <b>2001 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 19 |   |   | Capital Expenditures - Amort. of Principal | 71,200   | 3,408     | 3,564     | 3,727     | 3,897     | 4,075     | 4,261     | 4,456     | 4,660     |
| 20 |   |   | Expense Expenditures - Amort. of Principal | 24,855,200   | 1,189,631 | 1,243,997 | 1,300,848 | 1,360,297 | 1,422,462 | 1,487,469 | 1,555,446 | 1,626,530 |
| 21 | 4   |   | <b>2006 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 22 |   |   | Capital Expenditures - Amort. of Principal | 16,438,000   | 786,763   | 822,718   | 860,317   | 899,633   | 940,746   | 983,738   | 1,028,695 | 1,075,707 |
| 23 |   |   | Expense Expenditures - Amort. of Principal | 30,761,100   | 1,472,302 | 1,539,586 | 1,609,945 | 1,683,519 | 1,760,456 | 1,840,909 | 1,925,039 | 2,013,013 |
| 24 | 5   |   | <b>2007 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 25 |   |   | Capital Expenditures - Amort. of Principal | 11,453,500   | 548,193   | 573,245   | 599,443   | 626,837   | 655,484   | 685,439   | 716,764   | 749,520   |
| 26 |   |   | Expense Expenditures - Amort. of Principal | 41,499,700   | 1,986,278 | 2,077,051 | 2,171,972 | 2,271,231 | 2,375,026 | 2,483,565 | 2,597,064 | 2,715,750 |
| 27 | 6   |   | <b>2003 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 28 |   |   | Capital Expenditures - Amort. of Principal | 27,500,100   | 1,316,222 | 1,376,374 | 1,439,274 | 1,505,049 | 1,573,830 | 1,645,754 | 1,720,965 | 1,799,613 |
| 29 |   |   | Expense Expenditures - Amort. of Principal | 20,758,300   | 993,544   | 1,038,949 | 1,086,429 | 1,136,078 | 1,187,997 | 1,242,289 | 1,299,061 | 1,358,428 |
| 30 | 7   |   | <b>2005 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 31 |   |   | Capital Expenditures - Amort. of Principal | 16,719,500   | 800,237   | 836,808   | 875,050   | 915,040   | 956,857   | 1,000,585 | 1,046,312 | 1,094,128 |
| 32 |   |   | Expense Expenditures - Amort. of Principal | 25,443,000   | 1,217,765 | 1,273,417 | 1,331,612 | 1,392,467 | 1,456,102 | 1,522,646 | 1,592,231 | 1,664,996 |
| 33 | 8   |   | <b>2002 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 34 |   |   | Capital Expenditures - Amort. of Principal | 34,586,600   | 1,655,399 | 1,731,051 | 1,810,160 | 1,892,884 | 1,979,389 | 2,069,847 | 2,164,439 | 2,263,354 |
| 35 |   |   | Expense Expenditures - Amort. of Principal | 21,005,400   | 1,005,370 | 1,051,316 | 1,099,361 | 1,149,602 | 1,202,138 | 1,257,076 | 1,314,524 | 1,374,598 |
| 36 | 9   |   | <b>2008 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 37 |   |   | Capital Expenditures - Amort. of Principal | 8,214,000  | 393,142   | 411,109   | 429,896   | 449,543   | 470,087   | 491,570   | 514,035   | 537,526   |
| 38 |   |   | Expense Expenditures - Amort. of Principal | 65,070,900   | 3,114,453 | 3,256,783 | 3,405,618 | 3,561,255 | 3,724,004 | 3,894,191 | 4,072,156 | 4,258,254 |
| 39 | 12  |   | <b>2009 Conservation - 2010\$\$</b>        |  |           |           |           |           |           |           |           |           |
| 40 |   |   | Capital Expenditures - Amort. of Principal | 27,759,600   | 1,328,642 | 1,389,361 | 1,452,855 | 1,519,250 | 1,588,680 | 1,661,283 | 1,737,204 | 1,816,594 |
| 41 |   |   | Expense Expenditures - Amort. of Principal | 77,166,500   | 3,693,378 | 3,862,165 | 4,038,666 | 4,223,233 | 4,416,235 | 4,618,057 | 4,829,102 | 5,049,792 |
| 42 |   |   |  |  |           |           |           |           |           |           |           |           |
| 43 |   |   |  |  |           |           |           |           |           |           |           |           |
| 44 |   |   |  |  |           |           |           |           |           |           |           |           |
| 45 |   |   |  |  |           |           |           |           |           |           |           |           |

|    | A | B     | C  | M         | N         | O         | P         | Q         | R         | S         | T       | U       | V       | W       | X       |
|----|---|-------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|
| 1  |   |       | Section 7(b)(2) Rate Test Study and Documentation                      |           |           |           |           |           |           |           |         |         |         |         |         |
| 2  |   |       | Alternative Conservation Expense Accounting and Financing Treatments   |           |           |           |           |           |           |           |         |         |         |         |         |
| 3  |   |       | WP-10 Initial Rate Proposal  |           |           |           |           |           |           |           |         |         |         |         |         |
| 4  |   |       | Scenario = Capitalized costs amortized / financed over 15 years,       |           |           |           |           |           |           |           |         |         |         |         |         |
| 5  |   |       | = Expensed costs are deferred and amortized / financed over 15 - years |           |           |           |           |           |           |           |         |         |         |         |         |
| 6  |   |       | ALTERNATIVE - 6  |           |           |           |           |           |           |           |         |         |         |         |         |
| 7  |   |       | Amortization of Principal - (whole dollars)                            |           |           |           |           |           |           |           |         |         |         |         |         |
| 8  |   |       |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 9  |   |       |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 10 |   |       |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 11 |   | Res.  |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 12 |   | Stack |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 13 |   | Order | Vintage Year   | FY 2018   | FY 2019   | FY 2020   | FY 2021   | FY 2022   | FY 2023   | FY 2024   | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 |
| 14 |   |       | FY 2010 Conservation (9) Res. Selected - Total MW =                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 15 |   |       |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 16 |   | 1     | <b>2004 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 17 |   |       | Capital Expenditures - Amort. of Principal                             | 1,555,002 | 1,626,065 | 1,700,376 | 1,778,084 | 1,859,342 | 1,944,314 | 2,033,172 |         |         |         |         |         |
| 18 |   |       | Expense Expenditures - Amort. of Principal                             | 1,266,108 | 1,323,969 | 1,384,474 | 1,447,745 | 1,513,907 | 1,583,092 | 1,655,434 |         |         |         |         |         |
| 19 |   | 2     | <b>2001 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 20 |   |       | Capital Expenditures - Amort. of Principal                             | 4,873     | 5,095     | 5,328     | 5,572     | 5,826     | 6,093     | 6,365     |         |         |         |         |         |
| 21 |   |       | Expense Expenditures - Amort. of Principal                             | 1,700,863 | 1,778,592 | 1,859,874 | 1,944,870 | 2,033,751 | 2,126,693 | 2,223,877 |         |         |         |         |         |
| 22 |   | 4     | <b>2006 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 23 |   |       | Capital Expenditures - Amort. of Principal                             | 1,124,866 | 1,176,273 | 1,230,029 | 1,286,241 | 1,345,022 | 1,406,490 | 1,470,762 |         |         |         |         |         |
| 24 |   |       | Expense Expenditures - Amort. of Principal                             | 2,105,008 | 2,201,207 | 2,301,802 | 2,406,994 | 2,516,994 | 2,632,020 | 2,752,306 |         |         |         |         |         |
| 25 |   | 5     | <b>2007 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 26 |   |       | Capital Expenditures - Amort. of Principal                             | 783,773   | 819,592   | 857,047   | 896,214   | 937,171   | 980,000   | 1,024,778 |         |         |         |         |         |
| 27 |   |       | Expense Expenditures - Amort. of Principal                             | 2,839,859 | 2,969,641 | 3,105,354 | 3,247,268 | 3,395,668 | 3,550,850 | 3,713,123 |         |         |         |         |         |
| 28 |   | 6     | <b>2003 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 29 |   |       | Capital Expenditures - Amort. of Principal                             | 1,881,855 | 1,967,856 | 2,057,787 | 2,151,828 | 2,250,166 | 2,352,999 | 2,460,528 |         |         |         |         |         |
| 30 |   |       | Expense Expenditures - Amort. of Principal                             | 1,420,509 | 1,485,426 | 1,553,310 | 1,624,296 | 1,698,526 | 1,776,149 | 1,857,309 |         |         |         |         |         |
| 31 |   | 7     | <b>2005 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 32 |   |       | Capital Expenditures - Amort. of Principal                             | 1,144,130 | 1,196,417 | 1,251,093 | 1,308,268 | 1,368,056 | 1,430,576 | 1,495,943 |         |         |         |         |         |
| 33 |   |       | Expense Expenditures - Amort. of Principal                             | 1,741,086 | 1,820,654 | 1,903,858 | 1,990,864 | 2,081,847 | 2,176,987 | 2,276,468 |         |         |         |         |         |
| 34 |   | 8     | <b>2002 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 35 |   |       | Capital Expenditures - Amort. of Principal                             | 2,366,789 | 2,474,952 | 2,588,057 | 2,706,331 | 2,830,011 | 2,959,342 | 3,094,595 |         |         |         |         |         |
| 36 |   |       | Expense Expenditures - Amort. of Principal                             | 1,437,417 | 1,503,107 | 1,571,799 | 1,643,630 | 1,718,744 | 1,797,291 | 1,879,427 |         |         |         |         |         |
| 37 |   | 9     | <b>2008 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 38 |   |       | Capital Expenditures - Amort. of Principal                             | 562,091   | 587,778   | 614,640   | 642,729   | 672,102   | 702,817   | 734,935   |         |         |         |         |         |
| 39 |   |       | Expense Expenditures - Amort. of Principal                             | 4,452,858 | 4,656,354 | 4,869,151 | 5,091,672 | 5,324,362 | 5,567,687 | 5,822,102 |         |         |         |         |         |
| 40 |   | 12    | <b>2009 Conservation - 2010\$\$</b>                                    |           |           |           |           |           |           |           |         |         |         |         |         |
| 41 |   |       | Capital Expenditures - Amort. of Principal                             | 1,899,612 | 1,986,424 | 2,077,204 | 2,172,132 | 2,271,399 | 2,375,202 | 2,483,758 |         |         |         |         |         |
| 42 |   |       | Expense Expenditures - Amort. of Principal                             | 5,280,568 | 5,521,890 | 5,774,240 | 6,038,123 | 6,314,065 | 6,602,618 | 6,904,368 |         |         |         |         |         |
| 43 |   |       | Page 8 of 10   |           |           |           |           |           |           |           |         |         |         |         |         |
| 44 |   |       |  |           |           |           |           |           |           |           |         |         |         |         |         |
| 45 |   |       |  |           |           |           |           |           |           |           |         |         |         |         |         |

|    | A   | B  | C            | D  | E          | F          | G          | H          | I             | J          | K          | L          |
|----|---|--|--------------|--|------------|------------|------------|------------|---------------|------------|------------|------------|
| 46 |   |  |              | Section 7(b)(2) Rate Test Study and Documentation                      |            |            |            |            |               |            |            |            |
| 47 |   |  |              | Alternative Conservation Expense Accounting and Financing Treatments   |            |            |            |            |               |            |            |            |
| 48 |   |  |              | WP-10 Initial Rate Proposal  |            |            |            |            |               |            |            |            |
| 50 |   |  |              | Scenario = Capitalized costs amortized / financed over 15 years,       |            |            |            |            |               |            |            |            |
| 51 |   |  |              | = Expensed costs are deferred and amortized / financed over 15 - years |            |            |            |            |               |            |            |            |
| 53 |   |  |              | ALTERNATIVE - 6  |            |            |            |            |               |            |            |            |
| 54 |   |  |              | Amortization of Principal - (whole dollars)                            |            |            |            |            |               |            |            |            |
| 55 |   |  |              |  |            |            |            |            |               |            |            |            |
|    | Res.  |  |              |  |            |            |            |            |               |            |            |            |
|    | Stack   |  |              |  |            |            |            |            |               |            |            |            |
| 56 | Order   |  | Vintage Year | Total Amortization   |            |            |            |            |               |            |            |            |
|    |   |  |              | of Principal   | FY 2010    | FY 2011    | FY 2012    | FY 2013    | FY 2014       | FY 2015    | FY 2016    | FY 2017    |
| 57 | FY 2011                                       | Conservation Resources Selected            |              |  |            |            |            |            |               |            |            |            |
| 58 | 13  | 2015 Conservation - 2011\$\$               |              |  |            |            |            |            |               |            |            |            |
| 59 |   | Capital Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 60 |   | Expense Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 61 | FY 2012                                       | Conservation Resources Selected            |              |  |            |            |            |            |               |            |            |            |
| 62 | 14  | 2014 Conservation - 2012\$\$               |              |  |            |            |            |            |               |            |            |            |
| 63 |   | Capital Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 64 |   | Expense Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 65 | FY 2013                                       | Conservation Resources Selected            |              |  |            |            |            |            |               |            |            |            |
| 66 | 15  | 2013 Conservation - 2013\$\$               |              |  |            |            |            |            |               |            |            |            |
| 67 |   | Capital Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 68 |   | Expense Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 69 | FY 2014                                       | Conservation Resources Selected            |              |  |            |            |            |            |               |            |            |            |
| 70 | 16  | 2012 Conservation - 2014\$\$               |              |  |            |            |            |            |               |            |            |            |
| 71 |   | Capital Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 72 |   | Expense Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 73 | FY 2015                                       | Conservation Resources Selected            |              |  |            |            |            |            |               |            |            |            |
| 74 | 17  | 2011 Conservation - 2015\$\$               |              |  |            |            |            |            |               |            |            |            |
| 75 |   | Capital Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 76 |   | Expense Expenditures - Amort. of Principal |              |  |            |            |            |            |               |            |            |            |
| 77 |   |  |              |  |            |            |            |            |               |            |            |            |
| 78 | TOTALS - CAPITAL EXPENDITURES -               |  |              | 394,638,700  |            |            |            |            |               |            |            |            |
| 79 | AMORTIZATION OF PRINCIPAL                     |  |              | 394,638,700  | 7,919,618  | 10,382,947 | 13,045,922 | 15,920,368 | 19,019,648    | 21,917,765 | 22,919,407 | 23,966,824 |
| 80 | TOTALS - EXPENSE EXPENDITURES -               |  |              | 774,228,800  |            |            |            |            |               |            |            |            |
| 81 | AMORTIZATION OF PRINCIPAL                     |  |              | 774,228,800  | 15,558,273 | 20,328,429 | 25,441,831 | 30,924,446 | 36,796,223    | 42,954,042 | 44,917,042 | 46,969,752 |
| 82 |   |  |              |  |            |            |            |            |               |            |            |            |
| 83 | TOTAL CONSERVATION PRINCIPAL COSTS            |  |              | 1,168,867,500  | 23,477,891 | 30,711,376 | 38,487,753 | 46,844,814 | 55,815,871    | 64,871,807 | 67,836,449 | 70,936,576 |
| 85 | PERCENTAGE OF TOTAL PRINCIPAL PAID            |  |              | 100.00%  | 2.01%      | 2.63%      | 3.29%      | 4.01%      | 4.78%         | 5.55%      | 5.80%      | 6.07%      |
| 87 | CUMULATIVE PERCENTAGE OF TOTAL PRINCIPAL PAID |  |              |  | 2.01%      | 4.64%      | 7.93%      | 11.94%     | 16.72%        | 22.27%     | 28.07%     | 34.14%     |
| 88 |   |  |              |  |            |            |            |            |               |            |            |            |
| 89 |   |  |              |  |            |            |            |            | 22.27%        |            |            |            |
| 90 |   |  |              |  |            |            |            |            | \$312,351,700 |            |            |            |
| 91 |   |  |              |  |            |            |            |            | 40.34%        |            |            |            |
| 92 |   |  |              |  |            |            |            |            |               |            |            |            |
| 93 |   |  |              |  |            |            |            |            |               |            |            |            |
| 94 |   |  |              |  |            |            |            |            |               |            |            |            |
| 95 |   |  |              |  |            |            |            |            |               |            |            |            |



## **APPENDIX C**

Non - Conservation Resources

Documentation of the Annual Amounts of Non - Conservation Resources Available

AND

Documentation of Projected Resource Costs

Section 7(b)(2) Rate Test Study and Documentation

WP-10 Initial Rate Proposal

WP-10-E-BPA-06

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|    | A  | B         | C          | D               | E               | F               | G           | H               | I              | J |
|----|--|-----------|------------|-----------------|-----------------|-----------------|-------------|-----------------|----------------|---|
| 1  | <b>Section 7(b)(2) Rate Test Study and Documentation</b>   |           |            |                 |                 |                 |             |                 |                |   |
| 2  | <b>Summary of Non - Conservation Resources</b>   |           |            |                 |                 |                 |             |                 |                |   |
| 3  | <b>WP-10 Initial Rate Proposal</b>   |           |            |                 |                 |                 |             |                 |                |   |
| 4  |  |           |            |                 |                 |                 |             |                 |                |   |
| 5  |  |           | Projected  | Capital         | Capital         |                 |             | Annual          | Cost Per       |   |
| 6  |  |           | Annual     | Investment      | Investment      | Annual          | Remaining   | Capital         | MWh            |   |
| 7  |  | Amount    | Generation | 2010 \$\$       | 2015 \$\$       | O & M           | Useful      | Cost            | \$ / MWh       |   |
| 8  | <u>Name of Resource</u>  | <u>MW</u> | <u>MWh</u> | <u>(\$ 000)</u> | <u>(\$ 000)</u> | <u>(\$ 000)</u> | <u>Life</u> | <u>(\$ 000)</u> | <u>FY 2010</u> |   |
| 9  |  |           |            |                 |                 |                 |             |                 |                |   |
| 10 | <b><u>Resources Included in the 7(b)(2) Resource Stack:</u></b>                                    |           |            |                 |                 |                 |             |                 |                |   |
| 11 |  |           |            |                 |                 |                 |             |                 |                |   |
| 12 | Billing Credits  | 10.14     | 88,833     | -----           | -----           | \$5,267.8       | 30          | 0.0             | \$59.30        |   |
| 13 |  |           |            |                 |                 |                 |             |                 |                |   |
| 14 | Boardman Coal Plant  | 49.71     | 435,453    | \$65,850.9      | \$113,982.8     | \$16,103.6      | 30          | 0.0             | \$36.98        |   |
| 15 |  |           |            |                 |                 |                 |             |                 |                |   |
| 16 | Cowlitz Falls Hydro Project  | 26.00     | 227,760    | \$194,980.2     |                 | \$3,597.7       | 60          | 11,620.5        | \$66.82        |   |
| 17 |  |           |            |                 |                 |                 |             |                 |                |   |
| 18 | Idaho Falls Hydro Project  | 18.50     | 162,060    | -----           | -----           | \$6,115.4       | 60          | 0.0             | \$37.74        |   |
| 19 |  |           |            |                 |                 |                 |             |                 |                |   |
| 20 | Wauna Cogeneration   | 21.70     | 190,000    | -----           | -----           | \$11,463.5      | 30          | 0.0             | \$60.33        |   |
| 21 |  |           |            |                 |                 |                 |             |                 |                |   |
| 22 | <b><u>Other Resources NOT Included in the 7(b)(2) Resource Stack - Non-Dedicated Portions:</u></b> |           |            |                 |                 |                 |             |                 |                |   |
| 23 |  |           |            |                 |                 |                 |             |                 |                |   |
| 24 | Nine Canyon Wind Project   | 13.52     | 118,459    | -----           | -----           | \$8,751.0       | 20          | 0.0             | \$73.88        |   |
| 25 |  |           |            |                 |                 |                 |             |                 |                |   |
| 26 | Priest Rapids Hydro  | 14.90     | 130,524    | \$10,644.7      | \$17,787.9      | \$2,931.8       | 70          | 0.0             | \$22.46        |   |
| 27 |  |           |            |                 |                 |                 |             |                 |                |   |
| 28 | Wanapum Hydro  | 14.80     | 129,648    | \$19,084.7      | \$28,227.6      | \$3,712.9       | 70          | 0.0             | \$28.64        |   |
| 29 |  |           |            |                 |                 |                 |             |                 |                |   |
| 30 |  |           |            |                 |                 |                 |             |                 |                |   |

|    | A   | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  | <b>WP-10 Power Rate Case</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2  | <b>Updated Cost Projections for Billing Credit Resources - Purchase Power Contracts</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3  | <b>Forecasted Cost of Resource During FY2010</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  | <b>Billing Credit Summary - 7(b)(2) Case</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6  | <b>BPA Billing Credits - 7(b)(2) Case Costs - 2010\$\$</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  | <b>Summary:</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 15 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 | <b>Notes:</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 | <b>Note 1</b> - The Program Case Revenue requirement includes the Smith Creek Hydro Project for the years of FY2010-2011 and the Short Mountain Landfill Project for the years FY 2010-2012. The Smith Creek Hydro Project contract     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | terminates on September 30, 2011 and the Short Mountain landfill Project terminates on July 31, 2012. Because these resources are not available to serve 7(b)(2) Customer loads during all years of the rate test period (FY 2010-2015) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 | they were omitted from the 7(b)(2) Case resource stack. The costs and the average hourly energy amounts are not comparable between the Program Case and the 7(b)(2) Case due to the expiration of these power purchase contracts.       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 23 | <b>Note 2</b> - Billing Credit Amounts for the Program Case:  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 25 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 26 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 28 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 29 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 30 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 31 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 32 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 33 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 34 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 35 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 36 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 37 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 38 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 39 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 40 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 41 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 42 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |



|    |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
|----|--|-------|-------|-------|--------|--------|--------|------------------|-----------------------------|-----|---------|---------------------|---------------------|--|------------------------------|--------------------------------|-------------------|--------|---|---|
|    | A  | B     | C     | D     | E      | F      | G      | H                | I                           | J   | K       | L                   | M                   | N  | O                            | P                              | Q                 | R      | S | T |
| 1  | WP-10 Power Rate Case  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 2  | Updated Cost Projections for Billing Credit Resources - Purchase Power Contracts                     |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 3  | Forecasted Cost of Resource During FY2010  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 43 |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 44 | Project A - South Fork Tolt Hydro Project - Billing Credit Detail                                    |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 46 | Projected FY 2010-2015 Power Rate Increase over FY2007-2009 Power Rates =                            |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   | 1.0750 |   |   |
| 47 | Projected FY 2010-2015 Transmission Rate Increase over FY2007-2009 Power Rates =                     |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   | 1.0000 |   |   |
| 49 | Projected 2010-2011 Rates  |       |       |       |        |        |        |                  | Declared Project Generation |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 50 | NERC FY 2010 Hourly Amounts:   |       |       |       | HLH    | LLH    | Demand | Load<br>Variance | HLH                         | LLH | Demand  | Alternative<br>Cost | PF Power<br>Only    | Projected<br>PTP-10<br>plus Load<br>Shaping                  | Alternative<br>Cost<br>Value | Cost of<br>PF Power<br>plus Tx | Billing<br>Credit |        |   |   |
| 51 | Month  | Hours | HLH   | LLH   | \$/MWh | \$/MWh | \$/kW  | \$/MWh           | MWh                         | MWh | kW      | \$/MWh <sup>5</sup> | \$                  | 1.501  | \$                           | \$                             | \$                |        |   |   |
| 52 |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 53 | October  | 744   | 432   | 312   | 31.93  | 23.39  | 2.09   | 0.51             | 4085                        | 0   | 11,200  | 97.75               | 155,845             | 22,515   | 399,309                      | 178,360                        | 220,948           |        |   |   |
| 54 | November   | 721   | 384   | 337   | 34.06  | 24.83  | 2.24   | 0.51             | 3966                        | 0   | 11,200  | 97.75               | 162,113             | 22,515   | 387,677                      | 184,628                        | 203,048           |        |   |   |
| 55 | December   | 744   | 416   | 328   | 35.54  | 26.08  | 2.34   | 0.51             | 4136                        | 0   | 11,200  | 97.75               | 175,328             | 22,515   | 404,294                      | 197,843                        | 206,451           |        |   |   |
| 56 | January  | 744   | 400   | 344   | 30.18  | 21.82  | 1.99   | 0.51             | 4158                        | 0   | 11,300  | 97.75               | 150,042             | 22,515   | 406,445                      | 172,557                        | 233,887           |        |   |   |
| 57 | February   | 672   | 384   | 288   | 30.81  | 22.04  | 2.02   | 0.51             | 3783                        | 0   | 11,300  | 97.75               | 141,301             | 22,515   | 369,788                      | 163,816                        | 205,972           |        |   |   |
| 58 | March  | 743   | 432   | 311   | 28.58  | 20.95  | 1.88   | 0.51             | 4180                        | 0   | 11,300  | 97.75               | 142,852             | 22,515   | 408,595                      | 165,367                        | 243,228           |        |   |   |
| 59 | April  | 720   | 416   | 304   | 26.82  | 19.27  | 1.76   | 0.51             | 4060                        | 0   | 11,300  | 97.75               | 130,867             | 22,515   | 396,865                      | 153,382                        | 243,483           |        |   |   |
| 60 | May  | 744   | 400   | 344   | 22.40  | 15.49  | 1.46   | 0.51             | 4933                        | 0   | 12,300  | 97.75               | 130,989             | 22,515   | 482,201                      | 153,504                        | 328,697           |        |   |   |
| 61 | June   | 720   | 416   | 304   | 20.29  | 10.77  | 1.34   | 0.51             | 5710                        | 0   | 13,600  | 97.75               | 136,989             | 22,515   | 558,153                      | 159,504                        | 398,649           |        |   |   |
| 62 | July   | 744   | 416   | 328   | 24.98  | 18.29  | 1.64   | 0.51             | 6993                        | 0   | 15,000  | 97.75               | 202,911             | 22,515   | 683,566                      | 225,426                        | 458,140           |        |   |   |
| 63 | August   | 744   | 416   | 328   | 29.25  | 21.69  | 1.92   | 0.51             | 6702                        | 0   | 14,700  | 97.75               | 227,711             | 22,515   | 655,121                      | 250,226                        | 404,894           |        |   |   |
| 64 | September  | 720   | 400   | 320   | 30.20  | 24.23  | 1.99   | 0.51             | 4644                        | 0   | 12,100  | 97.75               | 166,644             | 22,515   | 453,951                      | 189,159                        | 264,792           |        |   |   |
| 65 |  | 8,760 | 4,912 | 3,848 |        |        |        |                  | 57,350                      | 0   | 146,500 |                     | 1,923,593           | 270,180  | 5,605,963                    | 2,193,773                      | 3,412,189         |        |   |   |
| 67 | Average aMW  |       |       |       |        |        |        |                  | 6.5468                      |     |         |                     | Annual Cost per MWh |  |                              |                                | 59.4976           |        |   |   |
| 68 | Note 5 - Alternative cost value is the average of FY2010-2015 contract schedule, Exhibit C, Table 3. |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 69 | Project A - South Fork Tolt Hydro Project  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 70 | Final 2007-2009 Rates  |       |       |       |        |        |        |                  | Declared Project Generation |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 71 | NERC FY 2010 Values:   |       |       |       | HLH    | LLH    | Demand | Load<br>Variance | HLH                         | LLH | Demand  | Alternative<br>Cost | PF Power<br>Only    | PTP-08<br>(1.298/kw/mont<br>h) plus<br>Ld shaping<br>\$0.203 | Alternative<br>Cost<br>Value | Cost of<br>PF Power<br>plus Tx | Billing<br>Credit |        |   |   |
| 72 | Month  | Hours | HLH   | LLH   | \$/MWh | \$/MWh | \$/kW  | \$/MWh           | MWh                         | MWh | kW      | \$/MWh <sup>6</sup> | \$                  | 1.501  | \$                           | \$                             | \$                |        |   |   |
| 74 | October  | 744   | 432   | 312   | 29.70  | 21.76  | 1.94   | 0.47             | 4085                        | 0   | 11200   | 96.7                | 143,053             | 22,515   | 395,020                      | 165,568                        | 229,452           |        |   |   |
| 75 | November   | 721   | 384   | 337   | 31.68  | 23.10  | 2.08   | 0.47             | 3966                        | 0   | 11200   | 96.7                | 148,939             | 22,515   | 383,512                      | 171,454                        | 212,058           |        |   |   |
| 76 | December   | 744   | 416   | 328   | 33.06  | 24.26  | 2.18   | 0.47             | 4136                        | 0   | 11200   | 96.7                | 161,152             | 22,515   | 399,951                      | 183,667                        | 216,284           |        |   |   |
| 77 | January  | 744   | 400   | 344   | 28.07  | 20.30  | 1.85   | 0.47             | 4158                        | 0   | 11300   | 96.7                | 137,620             | 22,515   | 402,079                      | 160,135                        | 241,944           |        |   |   |
| 78 | February   | 672   | 384   | 288   | 28.66  | 20.50  | 1.88   | 0.47             | 3783                        | 0   | 11300   | 96.7                | 129,665             | 22,515   | 365,816                      | 152,180                        | 213,636           |        |   |   |
| 79 | March  | 743   | 432   | 311   | 26.59  | 19.49  | 1.75   | 0.47             | 4180                        | 0   | 11300   | 96.7                | 130,921             | 22,515   | 404,206                      | 153,436                        | 250,770           |        |   |   |
| 80 | April  | 720   | 416   | 304   | 24.95  | 17.93  | 1.64   | 0.47             | 4060                        | 0   | 11300   | 96.7                | 119,829             | 22,515   | 392,602                      | 142,344                        | 250,258           |        |   |   |
| 81 | May  | 744   | 400   | 344   | 20.84  | 14.41  | 1.36   | 0.47             | 4933                        | 0   | 12300   | 96.7                | 119,532             | 22,515   | 477,021                      | 142,047                        | 334,974           |        |   |   |
| 82 | June   | 720   | 416   | 304   | 18.87  | 10.02  | 1.25   | 0.47             | 5710                        | 0   | 13600   | 96.7                | 124,748             | 22,515   | 552,157                      | 147,263                        | 404,894           |        |   |   |
| 83 | July   | 744   | 416   | 328   | 23.24  | 17.01  | 1.53   | 0.47             | 6993                        | 0   | 15000   | 96.7                | 185,467             | 22,515   | 676,223                      | 207,982                        | 468,241           |        |   |   |
| 84 | August   | 744   | 416   | 328   | 27.21  | 20.18  | 1.79   | 0.47             | 6702                        | 0   | 14700   | 96.7                | 208,674             | 22,515   | 648,083                      | 231,189                        | 416,894           |        |   |   |
| 85 | September  | 720   | 400   | 320   | 28.09  | 22.54  | 1.85   | 0.47             | 4644                        | 0   | 12100   | 96.7                | 152,835             | 22,515   | 449,075                      | 175,350                        | 273,725           |        |   |   |
| 86 |  | 8,760 | 4,912 | 3,848 |        |        |        |                  | 57,350                      | 0   | 146,500 |                     | 1,762,435           | 270,180  | 5,545,745                    | 2,032,615                      | 3,513,130         |        |   |   |
| 88 | Average aMW  |       |       |       |        |        |        |                  | 6.5468                      |     |         |                     | Annual Cost per MWh |  |                              |                                | 61.2577           |        |   |   |
| 89 | Note 6 - Alternative cost value is contract schedule amount for FY 2009, Exhibit C, Table 3.         |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 90 |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 91 |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 93 |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |
| 94 |  |       |       |       |        |        |        |                  |                             |     |         |                     |                     |  |                              |                                |                   |        |   |   |



Attachment A  
Billing Credits  
Project A

Exhibit C, Page 10 of 10  
Contract No. DE-MS79-928P93648  
Procurement No. 76519  
City of Seattle  
Effective at 2400 hours on  
the Effective Date

Determination of Adjusted Alternative Cost

TABLE 3  
(continued)

DERIVATION OF ADJUSTED ALTERNATIVE COST - SOUTH FORK TOLT HYDRO PROJECT

Adjusted Alternative Cost Stream 1/  
(nominal mills/kWh)

| <u>2/</u><br>Year | Fixed | Variable | Total | <u>2/</u><br>Year | Fixed | Variable | Total |
|-------------------|-------|----------|-------|-------------------|-------|----------|-------|
| 1996              | 82.9  | 6.6      | 89.5  | 2021              | 82.9  | 22.4     | 105.3 |
| 1997              | 82.9  | 6.9      | 89.9  | 2022              | 82.9  | 23.5     | 106.4 |
| 1998              | 82.9  | 7.3      | 90.2  | 2023              | 82.9  | 24.7     | 107.6 |
| 1999              | 82.9  | 7.7      | 90.6  | 2024              | 82.9  | 25.9     | 108.8 |
| 2000              | 82.9  | 8.0      | 91.0  | 2025              | 82.9  | 27.2     | 110.1 |
| 2001              | 82.9  | 8.4      | 91.4  | 2026              | 82.9  | 28.6     | 111.5 |
| 2002              | 82.9  | 8.9      | 91.8  | 2027              | 82.9  | 30.0     | 112.9 |
| 2003              | 82.9  | 9.3      | 92.2  | 2028              | 82.9  | 31.5     | 114.4 |
| 2004              | 82.9  | 9.8      | 92.7  | 2029              | 0.0   | 0.0      | 0.0   |
| 2005              | 82.9  | 10.3     | 93.2  | 2030              | 0.0   | 0.0      | 0.0   |
| 2006              | 82.9  | 10.8     | 93.7  | 2031              | 0.0   | 0.0      | 0.0   |
| 2007              | 82.9  | 11.3     | 94.2  | 2032              | 0.0   | 0.0      | 0.0   |
| 2008              | 82.9  | 11.9     | 94.8  | 2033              | 0.0   | 0.0      | 0.0   |
| 2009              | 82.9  | 12.5     | 95.4  | 2034              | 0.0   | 0.0      | 0.0   |
| 2010              | 82.9  | 13.1     | 96.0  | 2035              | 0.0   | 0.0      | 0.0   |
| 2011              | 82.9  | 13.7     | 96.7  | 2036              | 0.0   | 0.0      | 0.0   |
| 2012              | 82.9  | 14.4     | 97.3  | 2037              | 0.0   | 0.0      | 0.0   |
| 2013              | 82.9  | 15.1     | 98.1  | 2038              | 0.0   | 0.0      | 0.0   |
| 2014              | 82.9  | 15.9     | 98.8  | 2039              | 0.0   | 0.0      | 0.0   |
| 2015              | 82.9  | 16.7     | 99.6  | 2040              | 0.0   | 0.0      | 0.0   |
| 2016              | 82.9  | 17.5     | 100.5 | 2041              | 0.0   | 0.0      | 0.0   |
| 2017              | 82.9  | 18.4     | 101.3 | 2042              | 0.0   | 0.0      | 0.0   |
| 2018              | 82.9  | 19.3     | 102.3 | 2043              | 0.0   | 0.0      | 0.0   |
| 2019              | 82.9  | 20.3     | 103.2 | 2044              | 0.0   | 0.0      | 0.0   |
| 2020              | 82.9  | 21.3     | 104.2 | 2045              | 0.0   | 0.0      | 0.0   |

Average  
of 5x  
years  
= 97.75

1/ This table derived from the levelized Adjusted Alternative Cost using the Variable/Total Cost Fraction and assumes 5 percent annual inflation and a 3 percent real discount rate.

2/ Year = Calendar Year.

(VS6-PMCE-4712c)

AC < NC

Attachment B  
Billing Credits  
Project B

Revision No. 1  
Exhibit C, Page 10 of 11  
Contract No. DE-MS79-92BP93649  
Procurement No. 76520  
City of Tacoma  
Effective at 0001 hours  
on August 1, 1993

Determination of Adjusted Alternative Cost

TABLE 3  
(continued)

DERIVATION OF ADJUSTED ALTERNATIVE COST - WYNOOCHEE HYDRO PROJECT

Adjusted Alternative Cost Stream 1/  
(nominal mills/kWh)

| <u>2/</u><br>Year | <u>Fixed</u> | <u>Variable</u> | <u>Total</u> |                                 | <u>2/</u><br>Year | <u>Fixed</u> | <u>Variable</u> | <u>Total</u> |
|-------------------|--------------|-----------------|--------------|---------------------------------|-------------------|--------------|-----------------|--------------|
| 1994              | 79.4         | 5.8             | 85.2         |                                 | 2015              | 79.4         | 16.2            | 95.6         |
| 1995              | 79.4         | 6.1             | 85.5         |                                 | 2016              | 79.4         | 17.1            | 96.4         |
| 1996              | 79.4         | 6.4             | 85.8         |                                 | 2017              | 79.4         | 17.9            | 97.3         |
| 1997              | 79.4         | 6.8             | 86.1         |                                 | 2018              | 79.4         | 18.8            | 98.2         |
| 1998              | 79.4         | 7.1             | 86.5         |                                 | 2019              | 79.4         | 19.7            | 99.1         |
| 1999              | 79.4         | 7.4             | 86.8         |                                 | 2020              | 79.4         | 20.7            | 100.1        |
| 2000              | 79.4         | 7.8             | 87.2         |                                 | 2021              | 79.4         | 21.8            | 101.2        |
| 2001              | 79.4         | 8.2             | 87.6         |                                 | 2022              | 79.4         | 22.9            | 102.2        |
| 2002              | 79.4         | 8.6             | 88.0         |                                 | 2023              | 79.4         | 24.0            | 103.4        |
| 2003              | 79.4         | 9.0             | 88.4         |                                 | 2024              | 79.4         | 25.2            | 104.6        |
| 2004              | 79.4         | 9.5             | 88.9         |                                 | 2025              | 79.4         | 26.5            | 105.8        |
| 2005              | 79.4         | 10.0            | 89.4         |                                 | 2026              | 79.4         | 27.8            | 107.2        |
| 2006              | 79.4         | 10.5            | 89.9         |                                 | 2027              | 79.4         | 29.2            | 108.6        |
| 2007              | 79.4         | 11.0            | 90.4         |                                 | 2028              | 79.4         | 30.6            | 110.0        |
| 2008              | 79.4         | 11.5            | 90.9         |                                 | 2029              | 79.4         | 32.2            | 111.6        |
| 2009              | 79.4         | 12.1            | 91.5         |                                 | 2030              | 79.4         | 33.8            | 113.2        |
| 2010              | 79.4         | 12.7            | 92.1         | Average<br>of 6 years<br>= 93.8 | 2031              | 79.4         | 35.5            | 114.8        |
| 2011              | 79.4         | 13.4            | 92.7         |                                 | 2032              | 79.4         | 37.2            | 116.6        |
| 2012              | 79.4         | 14.0            | 93.4         |                                 | 2033              | 79.4         | 39.1            | 118.5        |
| 2013              | 79.4         | 14.7            | 94.1         |                                 | 2034              | 79.4         | 41.1            | 120.4        |
| 2014              | 79.4         | 15.5            | 94.9         |                                 | 2035              | 79.4         | 43.1            | 122.5        |
| 2015              | 79.4         | 16.2            | 95.6         |                                 |                   |              |                 |              |

1/ This table derived from the levelized Adjusted Alternative Cost using the Variable/Total Cost ratio and assumes 5 percent annual inflation and a 3 percent real discount rate.

2/ Year = Calendar Year.

Attachment C  
Billing Credits  
Transmission Pricing for FY 2010-2015

**BPA-TS Transmission Rates Partial Settlement Offer**

Summary for AE/CAT Meeting

As of January 9, 2009

The following is in the perspective of BPA-PS as a Transmission Customer (TC) of BPA-TS, so the BPA-TS perspective is not necessarily represented.

BPA has been holding Transmission and Power Rates Workshops for several months. BPA-TS has proposed a Transmission Rates Partial Settlement, and asked parties to return signed copies by Jan. 16, 2009 so they may determine whether there is sufficient agreement prior to the Transmission Rates Initial Proposal (February 2009).

Partial Settlement summary:

- Rates stay at WT-08 levels for the base transmission rates, including Network Integration (NT), Point-to-Point (PTP) for the Network and Southern Intertie segments. Power Factor Penalty Charge, Utility Delivery Charge, Scheduling Control and Dispatch, and Generation Supplied Reactive also remained unchanged.
- The following were not included in the settlement: Regulation and Frequency Response, Energy Imbalance, Operating Reserves for Spinning and Supplemental, Generation Imbalance, and Control Area Services. The issues that are not included in the partial settlement will be litigated as part of the rate case.
  - Ancillary Services and Control Area Services will be part of the Transmission docket.
  - Generation Inputs are part of the Power Rates docket.
  - The Wind Integration Rate Case settlement put into place the BPA Wind Integration Team (WIT). The WIT is working on operational and reliability issues.
- To address customers' requests, the settlement includes BPA's plan to hold review and discussions on rate design for future rate periods, for rates such as Utility Delivery Charge (for low voltage service) and the Northern Intertie segment (as separate from the Network segment of PTP).
- The Failure to Comply (FTC) rate increased from \$100 to \$1,000/MW, and includes a new provision that states that those assessed the FTC will be assessed other costs to manage the situation and/or monetary penalties imposed on BPA that results from the customer's non-compliance, to the extent that the customer's non-compliance contributed to the problem.
- To address customer concerns about the increase in the FTC rate, BPA-TS will hold a public business practice process for implementing this new charge. BPA-TS included the provision that the new FTC rate will not be assessed until the business practice process is completed.
- Unauthorized Increase Charge (UIC) increased from twice the rate of the transmission purchase (which varies), to the lower of \$100/MWh plus the FERC price cap for WECC spot market, or \$1,000/MWh. If FERC eliminates this price cap, the charge will be \$500/MWh.
- An updated "Procedures for Redispatch" (Attachment M, formerly referred to as Attachment K) is included. No substantive change.

On a separate note, BPA-PS submitted comments recommending that the Generation and Energy Imbalance rates schedules clarify that when (1) during the Spill Condition and Intentional Deviation situations, and (2) the BPA Incremental Cost is negative (due to negative Mid-C prices), BPA will not pay customers when imbalance energy is delivered to Customers. This is not part of the partial settlement, and is expected to be addressed in the Transmission Rate Case process.

|    | A | B   | C | D | E                     | F                       | G | H |
|----|---|---|---|---|-----------------------|-------------------------|---|---|
| 1  |   | WP-10 Wholesale Power Rate Case                                       |   |   |                       |                         |   |   |
| 2  |   | Section 7(b)(2) Resource Stack  |   |   |                       |                         |   |   |
| 3  |   | Cost Projections -10% Interest in Boardman Coal Plant                 |   |   |                       |                         |   |   |
| 4  |   | SUMMARY   |   |   |                       |                         |   |   |
| 5  |   |   |   |   |                       |                         |   |   |
| 6  |   | <b><u>7(b)(2) Case - Resource Stack Values:</u></b>                   |   |   |                       |                         |   |   |
| 7  |   |   |   |   |                       | <b><u>FY2010-\$</u></b> |   |   |
| 8  |   | Total Annual Operating and Maintenance (O & M) / Production Expenses: |   |   |                       | 16,103,582              |   |   |
| 9  |   | Debt Service - Included in O&M Amount Above                           |   |   |                       | 0                       |   |   |
| 10 |   | Total Operating and Financing Costs - (Production and Debt Service)   |   |   |                       | 16,103,582              |   |   |
| 11 |   |   |   |   |                       |                         |   |   |
| 12 |   | Cost per MWh  |   |   |                       | \$36.98                 |   |   |
| 13 |   |   |   |   |                       |                         |   |   |
| 14 |   |   |   |   | <b><u>100.00%</u></b> | <b><u>10.00%</u></b>    |   |   |
| 15 |   | Projected Capital Investment - as of FY 2010                          |   |   | 658,508,594           | 65,850,859              |   |   |
| 16 |   | Projected Capital Investment - as of FY 2015                          |   |   | 1,139,828,277         | 113,982,828             |   |   |
| 17 |   |   |   |   |                       |                         |   |   |
| 18 |   | Depreciable Life at beginning placed in service date -1980            |   |   | 60 years              |                         |   |   |
| 19 |   | Estimated remaining useful life at FY 2010                            |   |   | 30 years              |                         |   |   |
| 20 |   | Placed in service   |   |   | 1980                  |                         |   |   |
| 21 |   |   |   |   | <b><u>100.00%</u></b> | <b><u>10.00%</u></b>    |   |   |
| 22 |   | Plants Name Plate Rating (MW)   |   |   | 642                   | 64.2                    |   |   |
| 23 |   | Net Continuous Plant Capability (MW)                                  |   |   | 585                   | 58.50                   |   |   |
| 24 |   | Projected Net Annual Generation - MWh - Based on PGE's                |   |   |                       |                         |   |   |
| 25 |   | 2007 FERC Form 1 Amounts  |   |   | 4,354,531             | 435,453                 |   |   |
| 26 |   | Projected Capacity Factor   |   |   | 77.43%                | 77.43%                  |   |   |
| 27 |   | Projected Average Hourly Generation - aMW                             |   |   | 497.09                | 49.71                   |   |   |
| 28 |   |   |   |   |                       |                         |   |   |
| 29 |   | Page 1 of 2   |   |   |                       |                         |   |   |
| 30 |   |   |   |   |                       |                         |   |   |
| 31 |   |   |   |   |                       |                         |   |   |
| 32 |   |   |   |   |                       |                         |   |   |

|    | A | B  | C   | D                     | E                     | F                     | G                     | H                     |
|----|---|--|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1  |   | <b>WP-10 Wholesale Power Rate Case</b>   |   |                       |                       |                       |                       |                       |
| 2  |   | <b>Section 7(b)(2) Resource Stack</b>  |   |                       |                       |                       |                       |                       |
| 3  |   | <b>Cost Projections -10% Interest in Boardman Coal Plant</b>   |   |                       |                       |                       |                       |                       |
| 4  |   | <b>SUMMARY</b>   |   |                       |                       |                       |                       |                       |
| 33 |   |  |   |                       |                       |                       |                       |                       |
| 34 |   |  | <b>BPA's</b>                                  | <b>BPA's</b>          | <b>BPA's</b>          | <b>BPA's</b>          | <b>BPA's</b>          | <b>BPA's</b>          |
| 35 |   |  | <b>Projected</b>                              | <b>Projected</b>      | <b>Projected</b>      | <b>Projected</b>      | <b>Projected</b>      | <b>Projected</b>      |
| 36 |   |  | <b>Boardman</b>                               | <b>Boardman</b>       | <b>Boardman</b>       | <b>Boardman</b>       | <b>Boardman</b>       | <b>Boardman</b>       |
| 37 |   |  | <b>Operating</b>                              | <b>Operating</b>      | <b>Operating</b>      | <b>Operating</b>      | <b>Operating</b>      | <b>Operating</b>      |
| 38 |   |  | <b>100% Budget</b>                            | <b>100% Budget</b>    | <b>100% Budget</b>    | <b>100% Budget</b>    | <b>100% Budget</b>    | <b>100% Budget</b>    |
| 39 |   |  | <b><u>FY 2010</u></b>                         | <b><u>FY 2011</u></b> | <b><u>FY 2012</u></b> | <b><u>FY 2013</u></b> | <b><u>FY 2014</u></b> | <b><u>FY 2015</u></b> |
| 41 |   | 1. Total Production Expenses - 100% See Production Analysis  | 105,276,294                                   | 107,490,627           | 109,081,119           | 110,674,143           | 131,867,068           | 133,895,077           |
| 42 |   | 2. 2010\$\$ Price Conversion Factor  | 1.000000                                      | 1.020232              | 1.041582              | 1.062788              | 1.084313              | 1.106094              |
| 43 |   |  |   |                       |                       |                       |                       |                       |
| 44 |   |  | <b><u>PRC's Projected Operating Costs</u></b> |                       |                       |                       |                       |                       |
| 45 |   | 3. PRC's 10% Share of Production Expenses (line 1 times 10%)   | 10,527,629                                    | 10,749,063            | 10,908,112            | 11,067,414            | 13,186,707            | 13,389,508            |
| 46 |   | PRC's 10% Debt Service Costs - See Debt Service Analysis   | 3,835,826                                     | 4,193,794             | 4,271,583             | 4,350,940             | 7,565,520             | 7,648,170             |
| 47 |   |  |   |                       |                       |                       |                       |                       |
| 48 |   | 4. PRC's Projected Total Operating Costs - Nominal \$\$  | 14,363,455                                    | 14,942,857            | 15,179,695            | 15,418,354            | 20,752,227            | 21,037,678            |
| 49 |   | Average Annual Operating Costs - Nominal \$\$  | 16,949,044                                    |                       |                       |                       |                       |                       |
| 50 |   |  |   |                       |                       |                       |                       |                       |
| 51 |   | 5. Projected Annual Amounts Stated in 2010\$\$   | 14,363,455                                    | 14,646,528            | 14,573,692            | 14,507,460            | 19,138,594            | 19,019,792            |
| 52 |   | (line 4 divided by line 2)   |   |                       |                       |                       |                       |                       |
| 53 |   | 6. FY 2010 -2015 Average Total Operating Costs in 2010\$\$   | 16,041,587                                    | 16,041,587            | 16,041,587            | 16,041,587            | 16,041,587            | 16,041,587            |
| 54 |   | 7. Operating Cost Adjustment - See Note A below  | 61,995  | 61,995                | 61,995                | 61,995                | 61,995                | 61,995                |
| 55 |   | 8. Adjusted Annual Cost Amount in 2010 \$\$  | 16,103,582                                    | 16,103,582            | 16,103,582            | 16,103,582            | 16,103,582            | 16,103,582            |
| 56 |   |  |   |                       |                       |                       |                       |                       |
| 57 |   | Ram Model Annual Cost Amounts Using Average Cost Pricing   |   |                       |                       |                       |                       |                       |
| 58 |   | 9. (line 8 times line 2)   | 16,103,582                                    | 16,429,390            | 16,773,201            | 17,114,694            | 17,461,323            | 17,812,075            |
| 59 |   | Annual Variance Over / (Under) (line 9 less line 4)  | 1,740,127                                     | 1,486,533             | 1,593,506             | 1,696,339             | (3,290,904)           | (3,225,602)           |
| 60 |   | Total of Annual Variances =  | (1)   |                       |                       |                       |                       |                       |
| 61 |   |  |   |                       |                       |                       |                       |                       |
| 62 |   | <b>Note A</b> - It is necessary to make an operating adjustment so that the average total operating costs for all years of the rate test period (FY2010-2015) is equivalent to the |   |                       |                       |                       |                       |                       |
| 63 |   | total actual operating costs in nominal dollars (line 4) since the RAM model starts with a beginning cost of when the resource is selected from the resource stack                 |   |                       |                       |                       |                       |                       |
| 64 |   | and then escalates the cost using the fixed escalation factors at line 2 above. If a simple average of the nominal operating costs for the rate test period were used,             |   |                       |                       |                       |                       |                       |
| 65 |   | the "starting operating cost" of the resource would have been higher at a rate of \$16,878,712 in comparison to the adjusted operating cost amount of \$16,036,758.                |   |                       |                       |                       |                       |                       |
| 66 |   |  |   |                       |                       |                       |                       |                       |
| 67 |   |  |   |                       |                       |                       |                       |                       |
| 68 |   |  |   |                       |                       |                       |                       |                       |
| 69 |   |  |   |                       |                       |                       |                       |                       |

|    | A | B   | C | D | E | F | G | H | I | J | K | L |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |   | <b>WP-10 Wholesale Power Rate Case</b>  |   |   |   |   |   |   |   |   |   |   |
| 2  |   | <b>Section 7(b)(2) Resource Stack</b>   |   |   |   |   |   |   |   |   |   |   |
| 3  |   | <b>Production Cost Projections -10% Interest in Boardman Coal Plant</b>   |   |   |   |   |   |   |   |   |   |   |
| 4  |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  |   | <b>Boardman Operating Cost Historical Data OY2007 / PGE Operating Budgets 2008-2009 / FY 2010-2015 BPA Projections:</b> |   |   |   |   |   |   |   |   |   |   |
| 6  |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  |   |   |   |   |   |   |   |   |   |   |   |   |
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| 14 |   |   |   |   |   |   |   |   |   |   |   |   |
| 15 |   |   |   |   |   |   |   |   |   |   |   |   |
| 16 |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 |   |   |   |   |   |   |   |   |   |   |   |   |
| 23 |   |   |   |   |   |   |   |   |   |   |   |   |
| 24 |   |   |   |   |   |   |   |   |   |   |   |   |
| 25 |   |   |   |   |   |   |   |   |   |   |   |   |
| 26 |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 |   |   |   |   |   |   |   |   |   |   |   |   |
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| 30 |   |   |   |   |   |   |   |   |   |   |   |   |
| 31 |   |   |   |   |   |   |   |   |   |   |   |   |
| 32 |   |   |   |   |   |   |   |   |   |   |   |   |
| 33 |   |   |   |   |   |   |   |   |   |   |   |   |
| 34 |   |   |   |   |   |   |   |   |   |   |   |   |
| 35 |   |   |   |   |   |   |   |   |   |   |   |   |
| 36 |   |   |   |   |   |   |   |   |   |   |   |   |
| 37 |   |   |   |   |   |   |   |   |   |   |   |   |
| 38 |   |   |   |   |   |   |   |   |   |   |   |   |
| 39 |   |   |   |   |   |   |   |   |   |   |   |   |
| 40 |   |   |   |   |   |   |   |   |   |   |   |   |
| 41 |   |   |   |   |   |   |   |   |   |   |   |   |
| 42 |   |   |   |   |   |   |   |   |   |   |   |   |
| 43 |   |   |   |   |   |   |   |   |   |   |   |   |
| 44 |   |   |   |   |   |   |   |   |   |   |   |   |
| 45 |   |   |   |   |   |   |   |   |   |   |   |   |
| 46 |   |   |   |   |   |   |   |   |   |   |   |   |
| 47 |   |   |   |   |   |   |   |   |   |   |   |   |
| 48 |   |   |   |   |   |   |   |   |   |   |   |   |
| 49 |   |   |   |   |   |   |   |   |   |   |   |   |
| 50 |   |   |   |   |   |   |   |   |   |   |   |   |
| 51 |   |   |   |   |   |   |   |   |   |   |   |   |
| 52 |   |   |   |   |   |   |   |   |   |   |   |   |



|     | A | B   | C | D | E | F              | G              | H              | I              | J              | K | L |
|-----|---|---|---|---|---|----------------|----------------|----------------|----------------|----------------|---|---|
| 1   |   | <b>WP-10 Wholesale Power Rate Case</b>  |   |   |   |                |                |                |                |                |   |   |
| 2   |   | <b>Section 7(b)(2) Resource Stack</b>   |   |   |   |                |                |                |                |                |   |   |
| 3   |   | <b>Production Cost Projections -10% Interest in Boardman Coal Plant</b>   |   |   |   |                |                |                |                |                |   |   |
| 53  |   |   |   |   |   |                |                |                |                |                |   |   |
| 54  |   | <b>Notes - Continued:</b>   |   |   |   |                |                |                |                |                |   |   |
| 55  |   | <b>Note 5</b> - Fuel Oil inventory costs for FY2010 assumes the average of FY2008 and FY2009 amounts. Fuel oil costs for FY 2011-2015 are escalated at an annual rate of 3.0%.  |   |   |   |                |                |                |                |                |   |   |
| 56  |   | <b>Note 6</b> - Based on the information contained in PGE's Best Available Retrofit Technology (BART) Analysis Report (see PGE web site) there are four main areas of pollution |   |   |   |                |                |                |                |                |   |   |
| 57  |   | controls that PGE has identified as meeting BART. These are presented below in chronological order of projected installation by the BPA analyst. The costs are based            |   |   |   |                |                |                |                |                |   |   |
| 58  |   | on information contained in Appendix D - Cost Analysis Summary to the BART report and are displayed below by total 1) Capital Investment Costs, 2) Direct Variable              |   |   |   |                |                |                |                |                |   |   |
| 59  |   | Annual Production expenses, and 3) Direct Variable Annual Maintenance costs. The Executive Summary and Exhibit D to the BART Report can be found at Attachment E.               |   |   |   |                |                |                |                |                |   |   |
| 60  |   | The projected debt service costs associated with PRC's 10% share of the capital investments are presented in the financing of capital additions analysis. The costs presented   |   |   |   |                |                |                |                |                |   |   |
| 61  |   | below are presented in 2007\$\$ based on the information contained in Appendix D to the Bart Report as referenced. The implementation of the measures was informed by PGE's     |   |   |   |                |                |                |                |                |   |   |
| 62  |   | letter to the Oregon Department of Environmental Quality regarding proposed regional haze rules dated December 17, 2008 (See Attachment D).                                     |   |   |   |                |                |                |                |                |   |   |
| 64  |   |   |   |   |   | <b>OY 2011</b> | <b>OY 2012</b> | <b>OY 2013</b> | <b>OY 2014</b> | <b>OY 2015</b> |   |   |
| 65  |   | Cumulative price deflator Index to convert 2007\$\$ to respective year \$\$:  |   |   |   | 1.089535       | 1.112335       | 1.134982       | 1.157969       | 1.181230       |   |   |
| 67  |   | <b>A. - Installation of New Low Nox Burners (NLNB) and Modified Over Fire Air (MOFA) System:</b>  |   |   |   |                |                |                |                |                |   |   |
| 68  |   | 1a) Capital costs in 2007\$\$ - (BART Report, Appendix D, page D-5)   |   |   |   | 32,651,000     |                |                |                |                |   |   |
| 69  |   | 2a) Direct Variable Annual Production expenses in 2007\$\$ - (BART Report, Appendix D, page D-5)  |   |   |   | 0              |                |                |                |                |   |   |
| 70  |   | 3a) Direct Variable Annual Maintenance costs in 2007\$\$ - (BART Report, Appendix D, page D-5)  |   |   |   | 636,000        |                |                |                |                |   |   |
| 71  |   | 1b) Capital costs in 2011 \$\$  |   |   |   | 35,574,412     | 0              | 0              | 0              | 0              |   |   |
| 72  |   | 2b) Direct Variable Annual Production expenses in 2011-2015 \$\$  |   |   |   | 0              | 0              | 0              | 0              | 0              |   |   |
| 73  |   | 3b) Direct Variable Annual Maintenance costs in 2011-2015 \$\$  |   |   |   | 692,944        | 707,445        | 721,849        | 736,468        | 751,262        |   |   |
| 75  |   | <b>B. - Installation of Particulate Control Measure - Pulse Jet Fabric Filter (PJFF) System</b>   |   |   |   |                |                |                |                |                |   |   |
| 76  |   | 1a) Capital costs in 2007\$\$ - (BART Report, Appendix D, page D-12)  |   |   |   | 94,353,000     |                |                |                |                |   |   |
| 77  |   | 2a) Direct Variable Annual Production expenses in 2007\$\$ - (BART Report, Appendix D, page D-12)   |   |   |   | 2,121,000      |                |                |                |                |   |   |
| 78  |   | 3a) Direct Variable Annual Maintenance costs in 2007\$\$ - (BART Report, Appendix D, page D-12)   |   |   |   | 1,808,000      |                |                |                |                |   |   |
| 79  |   | 1b) Capital costs in 2014 \$\$  |   |   |   | 0              | 0              | 0              | 109,257,858    |                |   |   |
| 80  |   | 2b) Direct Variable Annual Production expenses in 2014-2015 \$\$  |   |   |   | 0              | 0              | 0              | 2,456,052      | 2,505,388      |   |   |
| 81  |   | 3b) Direct Variable Annual Maintenance costs in 2014-2015 \$\$  |   |   |   | 0              | 0              | 0              | 2,093,608      | 2,135,663      |   |   |
| 83  |   | <b>C. - Installation of SO<sub>2</sub> Pollution Controls - Semi-Dry Flue Gas Desulfurization (FGD) System</b>  |   |   |   |                |                |                |                |                |   |   |
| 84  |   | 1a) Capital costs in 2007\$\$ - (BART Report, Appendix D, page D-11)  |   |   |   | 247,293,000    |                |                |                |                |   |   |
| 85  |   | 2a) Direct Variable Annual Production expenses in 2007\$\$ - (BART Report, Appendix D, page D-11)   |   |   |   | 8,569,000      |                |                |                |                |   |   |
| 86  |   | 3a) Direct Variable Annual Maintenance costs in 2007\$\$ - (BART Report, Appendix D, page D-11)   |   |   |   | 4,409,000      |                |                |                |                |   |   |
| 87  |   | 1b) Capital costs in 2014 \$\$  |   |   |   | 0              | 0              | 0              | 286,357,652    |                | 0 |   |
| 88  |   | 2b) Direct Variable Annual Production expenses in 2014-2015 \$\$  |   |   |   | 0              | 0              | 0              | 9,922,637      | 10,121,957     |   |   |
| 89  |   | 3b) Direct Variable Annual Maintenance costs in 2014-2015 \$\$  |   |   |   | 0              | 0              | 0              | 5,105,486      | 5,208,042      |   |   |
| 91  |   | Either D. or E. would be installed by 2017 which is outside of the rate test period.  |   |   |   |                |                |                |                |                |   |   |
| 93  |   | <b>D. - Selective Non-Catalytic Reduction (SNCR) System</b>   |   |   |   |                |                |                |                |                |   |   |
| 94  |   | 1a) Capital costs in 2007\$\$ - (BART Report, Appendix D, page D-6)   |   |   |   | 17,429,000     |                |                |                |                |   |   |
| 95  |   | 2a) Direct Variable Annual Production expenses in 2007\$\$ - (BART Report, Appendix D, page D-6)  |   |   |   | 3,398,000      |                |                |                |                |   |   |
| 96  |   | 3a) Direct Variable Annual Maintenance costs in 2007\$\$ - (BART Report, Appendix D, page D-6)  |   |   |   | 343,000        |                |                |                |                |   |   |
| 98  |   | <b>E. - Selective Catalytic Reduction (SCR) System</b>  |   |   |   |                |                |                |                |                |   |   |
| 99  |   | 1a) Capital costs in 2007\$\$ - (BART Report, Appendix D, page D-6)   |   |   |   | 190,859,000    |                |                |                |                |   |   |
| 100 |   | 2a) Direct Variable Annual Production expenses in 2007\$\$ - (BART Report, Appendix D, page D-6)  |   |   |   | 2,927,000      |                |                |                |                |   |   |
| 101 |   | 3a) Direct Variable Annual Maintenance costs in 2007\$\$ - (BART Report, Appendix D, page D-6)  |   |   |   | 2,746,000      |                |                |                |                |   |   |
| 103 |   |   |   |   |   | <b>OY 2011</b> | <b>OY 2012</b> | <b>OY 2013</b> | <b>OY 2014</b> | <b>OY 2015</b> |   |   |
| 104 |   | SUMMARY - CAPITAL COSTS BY YEAR   |   |   |   | 35,574,412     | 0              | 0              | 395,615,511    | 0              |   |   |
| 105 |   | SUMMARY - DIRECT VARIABLE ANNUAL PRODUCTION COSTS BY YEAR   |   |   |   | 0              | 0              | 0              | 12,378,690     | 12,627,345     |   |   |
| 106 |   | SUMMARY - DIRECT ANNUAL MAINTENANCE COSTS BY YEAR   |   |   |   | 692,944        | 707,445        | 721,849        | 7,935,562      | 8,094,967      |   |   |
| 108 |   | Page 2 of 2   |   |   |   |                |                |                |                |                |   |   |

|    | A  | B                            | C | D | E | F | G | H | I | J |
|----|--|------------------------------|---|---|---|---|---|---|---|---|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>                       |                              |   |   |   |   |   |   |   |   |
| 2  | <b>Section 7(b)(2) Resource Stack</b>                        |                              |   |   |   |   |   |   |   |   |
| 3  | <b>Cost Projections -10% Interest in Boardman Coal Plant</b> |                              |   |   |   |   |   |   |   |   |
| 4  | <b>Analysis of Coal Fuel Cost</b>                            |                              |   |   |   |   |   |   |   |   |
| 5  |  |                              |   |   |   |   |   |   |   |   |
| 6  |  |                              |   |   |   |   |   |   |   |   |
| 7  | <b>Oil Price Escalation</b>                                  |                              |   |   |   |   |   |   |   |   |
| 8  | <b>Inflations Rate</b>                                       |                              |   |   |   |   |   |   |   |   |
| 9  | <b>Inflation Factor</b>                                      |                              |   |   |   |   |   |   |   |   |
| 10 | <b>Coal (\$2006) - Delivered Price -</b>                     |                              |   |   |   |   |   |   |   |   |
| 11 | <b>March 2008 # DOE/EIA-0383</b>                             |                              |   |   |   |   |   |   |   |   |
| 12 | <b>Coal Nominal</b>  |                              |   |   |   |   |   |   |   |   |
| 13 | <b>Percentage Change in Coal Price (Nominal)</b>             |                              |   |   |   |   |   |   |   |   |
| 14 |  |                              |   |   |   |   |   |   |   |   |
| 15 |  |                              |   |   |   |   |   |   |   |   |
| 16 |  |                              |   |   |   |   |   |   |   |   |
| 17 |  |                              |   |   |   |   |   |   |   |   |
| 18 | <b>Net Continuous Plant Capability (MW)</b>                  | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 19 | <b>Hours Connected to load</b>                               | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 20 | <b>Capacity Factor</b>                                       |                              |   |   |   |   |   |   |   |   |
| 21 | <b>Fuel</b>  | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 22 |  |                              |   |   |   |   |   |   |   |   |
| 23 | <b>Fuel Burned</b>   |                              |   |   |   |   |   |   |   |   |
| 24 | <b>Quantity Coal (tons)</b>                                  | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 25 | <b>Average Heat Content - Coal</b>                           | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 26 | <b>Average Cost of Fuel - Coal - per unit burned</b>         | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 27 | <b>Average BTU / kWh (Heat Rate)</b>                         | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 28 |  |                              |   |   |   |   |   |   |   |   |
| 29 | <b>Net Generation</b>  |                              |   |   |   |   |   |   |   |   |
| 30 | <b>Coal Cost (Total)</b>                                     |                              |   |   |   |   |   |   |   |   |
| 31 |  |                              |   |   |   |   |   |   |   |   |
| 32 |  |                              |   |   |   |   |   |   |   |   |
| 33 | <b>Quantity Oil</b>  | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 34 | <b>Average cost of oil - per unit burned</b>                 | <b>FERC Form 1, Page 402</b> |   |   |   |   |   |   |   |   |
| 35 | <b>Oil cost Total</b>  |                              |   |   |   |   |   |   |   |   |
| 36 |  |                              |   |   |   |   |   |   |   |   |
| 37 | <b>Total Fuel Cost</b>                                       |                              |   |   |   |   |   |   |   |   |
| 38 |  |                              |   |   |   |   |   |   |   |   |
| 39 |  |                              |   |   |   |   |   |   |   |   |
| 40 |  |                              |   |   |   |   |   |   |   |   |
| 41 |  |                              |   |   |   |   |   |   |   |   |
| 42 |  |                              |   |   |   |   |   |   |   |   |

|    | K  | L                            | M                    | N                    | O                    | P                    |
|----|--|------------------------------|----------------------|----------------------|----------------------|----------------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>                       |                              |                      |                      |                      |                      |
| 2  | <b>Section 7(b)(2) Resource Stack</b>                        |                              |                      |                      |                      |                      |
| 3  | <b>Cost Projections -10% Interest in Boardman Coal Plant</b> |                              |                      |                      |                      |                      |
| 4  | <b>Analysis of Coal Fuel Cost</b>                            |                              |                      |                      |                      |                      |
| 5  |  |                              |                      |                      |                      |                      |
| 6  |  | <u>2009</u>                  | <u>2010</u>          | <u>2011</u>          | <u>2012</u>          | <u>2013</u>          |
| 7  | Oil Price Escalation   | 3.00%                        | 3.00%                | 3.00%                | 3.00%                | 3.00%                |
| 8  | Inflations Rate  | 2.00%                        | 2.00%                | 2.00%                | 2.00%                | 2.00%                |
| 9  | Inflation Factor   | 106.1%                       | 108.2%               | 110.4%               | 112.6%               | 114.9%               |
| 10 | Coal (\$2006) - Delivered Price -                            | 36.19                        | 36.63                | 36.06                | 35.24                | 34.73                |
| 11 | March 2008 # DOE/EIA-0383                                    |                              |                      |                      |                      |                      |
| 12 | Coal Nominal   | \$ 38.41                     | \$ 39.65             | \$ 39.81             | \$ 39.69             | \$ 39.89             |
| 13 | Percentage Change in Coal Price (Nominal)                    | 4.78%                        | 3.24%                | 0.41%                | -0.32%               | 0.52%                |
| 14 |  |                              |                      |                      |                      |                      |
| 15 |  |                              |                      |                      |                      |                      |
| 16 |  |                              |                      |                      |                      |                      |
| 17 |  | <b>Forecast - Projection</b> |                      |                      |                      |                      |
| 18 |  | <u>2009</u>                  | <u>2010</u>          | <u>2011</u>          | <u>2012</u>          | <u>2013</u>          |
| 18 | Net Continuous Plant Capability (MW)                         | 585                          | 585                  | 585                  | 585                  | 585                  |
| 19 | Hours Connected to load                                      |                              |                      |                      |                      |                      |
| 20 | Capacity Factor  | 84.98%                       | 84.98%               | 84.98%               | 84.98%               | 84.98%               |
| 21 | Fuel   |                              |                      |                      |                      |                      |
| 22 |  |                              |                      |                      |                      |                      |
| 23 | Fuel Burned  |                              |                      |                      |                      |                      |
| 24 | Quantity Coal (tons)   | 2,586,135                    | 2,586,135            | 2,586,135            | 2,586,135            | 2,586,135            |
| 25 | Average Heat Content - Coal                                  | 8,517                        | 8,517                | 8,517                | 8,517                | 8,517                |
| 26 | Average Cost of Fuel - Coal - per unit burned                | \$ 25.26                     | \$ 26.08             | \$ 26.19             | \$ 26.10             | \$ 26.24             |
| 27 | Average BTU / kWh (Heat Rate)                                | 10,116                       | 10,116               | 10,116               | 10,116               | 10,116               |
| 28 |  |                              |                      |                      |                      |                      |
| 29 | Net Generation   | 4,354,707,207                | 4,354,707,207        | 4,354,707,207        | 4,354,707,207        | 4,354,707,207        |
| 30 | Coal Cost (Total)  | <b>65,326,093</b>            | <b>67,442,738</b>    | <b>67,721,126</b>    | <b>67,504,779</b>    | <b>67,858,393</b>    |
| 31 | Average Annual Percentage Increase                           | 4.78%                        | 3.24%                | 0.41%                | -0.32%               | 0.52%                |
| 32 | Average Percentage Increase FY 2010-2013                     |                              | <b>0.96%</b>         |                      |                      |                      |
| 33 | Quantity Oil   | 8390.5                       | 8390.5               | 8390.5               | 8390.5               | 8390.5               |
| 34 | Average cost - Oil - per unit burned                         | 99.92                        | 102.92               | 106.01               | 109.19               | 112.46               |
| 35 | Oil cost Total   | <b>\$ 838,381</b>            | <b>\$ 863,532</b>    | <b>\$ 889,438</b>    | <b>\$ 916,121</b>    | <b>\$ 943,605</b>    |
| 36 |  |                              |                      |                      |                      |                      |
| 37 | Total Fuel Cost  | <b>\$ 66,164,474</b>         | <b>\$ 68,306,270</b> | <b>\$ 68,610,564</b> | <b>\$ 68,420,900</b> | <b>\$ 68,801,998</b> |
| 38 |  |                              |                      |                      |                      |                      |
| 39 |  |                              |                      |                      |                      |                      |
| 40 |  |                              |                      |                      |                      |                      |
| 41 |  |                              |                      |                      |                      |                      |
| 42 |  |                              |                      |                      |                      |                      |

|    | A   | B              | C              | D              | E                       | F                         | G              |
|----|---|----------------|----------------|----------------|-------------------------|---------------------------|----------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>  |                |                |                |                         |                           |                |
| 2  | <b>Section 7(b)(2) Resource Stack</b>   |                |                |                |                         |                           |                |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b>                                 |                |                |                |                         |                           |                |
| 4  | <b>Summary of Annual Debt Service Amounts - 10% Interest</b>  |                |                |                |                         |                           |                |
| 5  |   |                |                |                |                         |                           |                |
| 6  |   | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u>          | <u>FY 2014</u>            | <u>FY 2015</u> |
| 7  | <u>Annual Debt Service Increments:</u>  |                |                |                |                         |                           |                |
| 8  | Original Plant Investment   | 3,381,700      | 3,381,700      | 3,381,700      | 3,381,700               | 3,381,700                 | 3,381,700      |
| 9  | FY 2005 and Prior Additions   | 213,871        | 213,871        | 213,871        | 213,871                 | 213,871                   | 213,871        |
| 10 | FY 2007 Additions   | 55,437         | 55,437         | 55,437         | 55,437                  | 55,437                    | 55,437         |
| 11 | FY 2008 Additions   | 19,910         | 19,910         | 19,910         | 19,910                  | 19,910                    | 19,910         |
| 12 | FY 2009 Additions   | 90,178         | 90,178         | 90,178         | 90,178                  | 90,178                    | 90,178         |
| 13 | FY 2010 Additions   | 74,730         | 74,730         | 74,730         | 74,730                  | 74,730                    | 74,730         |
| 14 | FY 2011 Additions   | 0              | 357,968        | 357,968        | 357,968                 | 357,968                   | 357,968        |
| 15 | FY 2012 Additions   | 0              | 0              | 77,789         | 77,789                  | 77,789                    | 77,789         |
| 16 | FY 2013 Additions   | 0              | 0              | 0              | 79,357                  | 79,357                    | 79,357         |
| 17 | FY 2014 Additions   | 0              | 0              | 0              | 0                       | 3,214,580                 | 3,214,580      |
| 18 | FY 2015 Additions   | 0              | 0              | 0              | 0                       | 0                         | 82,650         |
| 19 |   |                |                |                |                         |                           |                |
| 20 | Total Annual Debt Service Amounts   | 3,835,826      | 4,193,795      | 4,271,583      | 4,350,940               | 7,565,520                 | 7,648,171      |
| 21 |   |                |                |                |                         |                           |                |
| 22 | <b><u>Projected Annual Capital Additions</u></b>  |                |                |                |                         |                           |                |
| 23 |   |                |                |                |                         |                           |                |
| 24 |   |                |                |                | <b><u>Annual</u></b>    | <b><u>Cumulative</u></b>  |                |
| 25 |   |                |                |                | <b><u>Additions</u></b> | <b><u>Cost - 100%</u></b> |                |
| 26 | 1980 Additions  |                |                |                | 591,000,000             | 591,000,000               |                |
| 27 | 1981-2004 Additions   |                |                |                | 13,085,247              | 604,085,247               |                |
| 28 | 2005 Additions  |                |                |                | 18,145,870              | 622,231,117               |                |
| 29 | 2006 Retirements  |                |                |                | (359,817)               | 621,871,300               |                |
| 30 | 2007 Additions - FERC Form No. 1 for 2007, page 402   |                |                |                | 7,037,182               | 628,908,482               |                |
| 31 | Total Asset Cost -line 17, FERC Form No. 1 - FY 2007  |                |                |                |                         | 628,908,482               |                |
| 32 |   |                |                |                |                         |                           |                |
| 33 | PGE 2008 Final Budget - Capital Additions   |                |                |                | 8,803,660               |                           |                |
| 34 | Projected Total Asset Cost - FY 2008  |                |                |                |                         | 637,712,142               |                |
| 35 | PGE 2009 Preliminary Capital Budget Projections   |                |                |                | 11,364,709              | 649,076,851               |                |
| 36 | BPA Projected 2010 Capital Additions  |                |                |                | 9,431,743               | 658,508,594               |                |
| 37 | PGE BART Pollution Control Additions - 2011   |                |                |                | 35,574,407              | 694,083,001               |                |
| 38 | BPA Projected 2011 Other Capital Additions  |                |                |                | 9,622,566               | 703,705,567               |                |
| 39 | PGE BART Pollution Control Additions - 2012   |                |                |                | 0                       | 703,705,567               |                |
| 40 | BPA Projected 2012 Other Capital Additions  |                |                |                | 9,823,934               | 713,529,501               |                |
| 41 | PGE BART Pollution Control Additions - 2013   |                |                |                | 0                       | 713,529,501               |                |
| 42 | BPA Projected 2013 Other Capital Additions  |                |                |                | 10,023,943              | 723,553,444               |                |
| 43 | PGE BART Pollution Control Additions - 2014   |                |                |                | 395,615,477             | 1,119,168,921             |                |
| 44 | BPA Projected 2014 Other Capital Additions  |                |                |                | 10,226,962              | 1,129,395,883             |                |
| 45 | PGE BART Pollution Control Additions - 2015   |                |                |                | 0                       | 1,129,395,883             |                |
| 46 | BPA Projected Capital Additions - 2015  |                |                |                | 10,432,394              | 1,139,828,277             |                |
| 47 | Projected Total Asset Cost - 12/31/2015   |                |                |                |                         | <u>1,139,828,277</u>      |                |
| 48 |   |                |                |                |                         |                           |                |
| 49 | Note: PGE's FERC Form 1 Indicates that the original plant is being depreciated over 60 years.         |                |                |                |                         |                           |                |
| 50 | Note: PGE's BART Pollution control report indicates that the average useful life of pollution control |                |                |                |                         |                           |                |
| 51 | equipment is 20 years.  |                |                |                |                         |                           |                |
| 52 | Note: BPA assumes that the average useful life of other asset additions during 2008-2015 is 20 years. |                |                |                |                         |                           |                |
| 53 |   |                |                |                |                         |                           |                |
| 54 |   |                |                |                |                         |                           |                |
| 55 |   |                |                |                |                         |                           |                |
| 56 |   |                |                |                |                         |                           |                |

|    | H   | I  | J          | K                | L               | M                | N              |
|----|---|----|------------|------------------|-----------------|------------------|----------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>                                |    |            |                  |                 |                  |                |
| 2  | <b>Section 7(b)(2) Resource Stack</b>                                 |    |            |                  |                 |                  |                |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b> |    |            |                  |                 |                  |                |
| 4  |   |    |            |                  |                 |                  |                |
| 5  | <b><u>Initial Investment Amount</u></b>                               |    |            |                  |                 |                  |                |
| 6  |   |    |            | <u>Total AMT</u> | <u>PRC AMT</u>  |                  |                |
| 7  | Total Capitalized Cost - 1980   |    |            | 591,000,000      | 59,100,000      | Payment          |                |
| 8  | Debt/Capital Mix  |    |            | 80 /20           | 100 / 0         | <u>Amounts</u>   |                |
| 9  | Amount financed in 1980   |    |            | 472,800,000      | 59,100,000      |                  |                |
| 10 | 30 year Bond @10% in 1980   |    | 59,100,000 | 10.00%           | 10.00%          | 6,269,284        |                |
| 11 | Refinance in 1990 - 30 yr. @ 8%                                       |    | 53,373,938 | 8.00%            | 8.00%           | 4,741,071        |                |
| 12 | Refinance in 2000 - 30 yr. @ 6%                                       |    | 46,548,508 | 6.00%            | 6.00%           | 3,381,700        |                |
| 13 |   |    |            |                  |                 |                  |                |
| 14 |   |    |            | <u>Payment</u>   |                 |                  |                |
| 15 |   |    |            | <u>Amount</u>    | <u>Interest</u> | <u>Principle</u> | <u>Balance</u> |
| 16 | Beginning Balance   |    |            |                  |                 |                  | 59,100,000     |
| 17 |   | 1  | 1980       | 6,269,284        | 5,910,000       | 359,284          | 58,740,716     |
| 18 |   | 2  | 1981       | 6,269,284        | 5,874,072       | 395,212          | 58,345,504     |
| 19 |   | 3  | 1982       | 6,269,284        | 5,834,550       | 434,734          | 57,910,770     |
| 20 |   | 4  | 1983       | 6,269,284        | 5,791,077       | 478,207          | 57,432,563     |
| 21 |   | 5  | 1984       | 6,269,284        | 5,743,256       | 526,028          | 56,906,535     |
| 22 |   | 6  | 1985       | 6,269,284        | 5,690,654       | 578,630          | 56,327,905     |
| 23 |   | 7  | 1986       | 6,269,284        | 5,632,790       | 636,494          | 55,691,411     |
| 24 |   | 8  | 1987       | 6,269,284        | 5,569,141       | 700,143          | 54,991,268     |
| 25 |   | 9  | 1988       | 6,269,284        | 5,499,127       | 770,157          | 54,221,111     |
| 26 |   | 10 | 1989       | 6,269,284        | 5,422,111       | 847,173          | 53,373,938     |
| 27 |   | 11 | 1990       | 4,741,071        | 4,269,915       | 471,156          | 52,902,782     |
| 28 |   | 12 | 1991       | 4,741,071        | 4,232,223       | 508,848          | 52,393,934     |
| 29 |   | 13 | 1992       | 4,741,071        | 4,191,515       | 549,556          | 51,844,378     |
| 30 |   | 14 | 1993       | 4,741,071        | 4,147,550       | 593,521          | 51,250,857     |
| 31 |   | 15 | 1994       | 4,741,071        | 4,100,069       | 641,002          | 50,609,854     |
| 32 |   | 16 | 1995       | 4,741,071        | 4,048,788       | 692,283          | 49,917,572     |
| 33 |   | 17 | 1996       | 4,741,071        | 3,993,406       | 747,665          | 49,169,907     |
| 34 |   | 18 | 1997       | 4,741,071        | 3,933,593       | 807,478          | 48,362,428     |
| 35 |   | 19 | 1998       | 4,741,071        | 3,868,994       | 872,077          | 47,490,351     |
| 36 |   | 20 | 1999       | 4,741,071        | 3,799,228       | 941,843          | 46,548,508     |
| 37 |   | 21 | 2000       | 3,381,700        | 2,792,911       | 588,789          | 45,959,719     |
| 38 |   | 22 | 2001       | 3,381,700        | 2,757,583       | 624,117          | 45,335,602     |
| 39 |   | 23 | 2002       | 3,381,700        | 2,720,136       | 661,564          | 44,674,038     |
| 40 |   | 24 | 2003       | 3,381,700        | 2,680,442       | 701,258          | 43,972,781     |
| 41 |   | 25 | 2004       | 3,381,700        | 2,638,367       | 743,333          | 43,229,447     |
| 42 |   | 26 | 2005       | 3,381,700        | 2,593,767       | 787,933          | 42,441,514     |
| 43 |   | 27 | 2006       | 3,381,700        | 2,546,491       | 835,209          | 41,606,305     |
| 44 |   | 28 | 2007       | 3,381,700        | 2,496,378       | 885,322          | 40,720,983     |
| 45 |   | 29 | 2008       | 3,381,700        | 2,443,259       | 938,441          | 39,782,542     |
| 46 |   | 30 | 2009       | 3,381,700        | 2,386,953       | 994,747          | 38,787,795     |
| 47 |   | 31 | 2010       | 3,381,700        | 2,327,268       | 1,054,432        | 37,733,363     |
| 48 |   | 32 | 2011       | 3,381,700        | 2,264,002       | 1,117,698        | 36,615,664     |
| 49 |   | 33 | 2012       | 3,381,700        | 2,196,940       | 1,184,760        | 35,430,904     |
| 50 |   | 34 | 2013       | 3,381,700        | 2,125,854       | 1,255,846        | 34,175,059     |
| 51 |   | 35 | 2014       | 3,381,700        | 2,050,504       | 1,331,196        | 32,843,862     |
| 52 |   | 36 | 2015       | 3,381,700        | 1,970,632       | 1,411,068        | 31,432,794     |
| 53 |   |    |            |                  |                 |                  |                |
| 54 | Page 2 of 12  |    |            |                  |                 |                  |                |
| 55 |   |    |            |                  |                 |                  |                |
| 56 |   |    |            |                  |                 |                  |                |

|    | O  | P       | Q            | R                 | S          | T                    |
|----|--|---------|--------------|-------------------|------------|----------------------|
| 1  | WP-10 Wholesale Power Rate Case  |         |              |                   |            |                      |
| 2  | Section 7(b)(2) Resource Stack   |         |              |                   |            |                      |
| 3  | Debt Service Projections - 10% Interest in Boardman Coal Plant                     |         |              |                   |            |                      |
| 4  |  |         |              |                   |            |                      |
| 5  | FY 2005 and Prior Capital Additions after Initial Investment                       |         |              |                   |            |                      |
| 6  |  |         |              |                   |            |                      |
| 7  |  |         |              |                   |            |                      |
| 8  |  |         |              |                   |            |                      |
| 9  | Debt Financing for 1982-2005 Capital Additions                                     |         | \$31,231,117 |                   |            |                      |
| 10 |  |         |              |                   |            |                      |
| 11 |  |         |              |                   | Total AMT  | PRC AMT              |
| 12 | Total Capitalized / Financed Costs - 1981-2006                                     |         |              |                   | 31,231,117 | 3,123,112            |
| 13 | Debt/Capital Mix   |         |              |                   | 80 / 20    | 100 / 0              |
| 14 | Capital Costs financed in FY 2005 (10/01/2004)                                     |         |              |                   | 24,984,894 | 3,123,112            |
| 15 | Financing Costs  |         |              |                   | 493,960    | 12,888               |
| 16 | Total Financing  |         |              |                   | 25,478,854 | 3,136,000            |
| 17 | 30 year Bond @ 5.42% in 2005 - 1/  |         |              |                   | 6.79%      | 5.42%                |
| 18 | Payment amount - annual  |         |              |                   |            | \$213,870.87         |
| 19 |  |         |              |                   |            |                      |
| 20 | Note 1 - Interest rate from PFM financing study dated July 2006 Table I, page A-18 |         |              |                   |            |                      |
| 21 |  |         |              |                   |            |                      |
| 22 |  |         |              |                   |            |                      |
| 23 |  |         |              |                   |            |                      |
| 24 | Beginning Balance  |         |              | Payment<br>Amount | Interest   | Principle<br>Balance |
| 25 |  | 1 2005  | 213,871      | 169,971           | 43,900     | 3,136,000            |
| 26 |  | 2 2006  | 213,871      | 167,592           | 46,279     | 3,092,100            |
| 27 |  | 3 2007  | 213,871      | 165,083           | 48,787     | 3,045,821            |
| 28 |  | 4 2008  | 213,871      | 162,439           | 51,432     | 2,997,034            |
| 29 |  | 5 2009  | 213,871      | 159,652           | 54,219     | 2,945,602            |
| 30 |  | 6 2010  | 213,871      | 156,713           | 57,158     | 2,891,383            |
| 31 |  | 7 2011  | 213,871      | 153,615           | 60,256     | 2,834,225            |
| 32 |  | 8 2012  | 213,871      | 150,349           | 63,522     | 2,773,969            |
| 33 |  | 9 2013  | 213,871      | 146,906           | 66,965     | 2,710,447            |
| 34 |  | 10 2014 | 213,871      | 143,277           | 70,594     | 2,643,482            |
| 35 |  | 11 2015 | 213,871      | 139,451           | 74,420     | 2,572,888            |
| 36 |  | 12 2016 | 213,871      | 135,417           | 78,454     | 2,498,468            |
| 37 |  | 13 2017 | 213,871      | 131,165           | 82,706     | 2,420,014            |
| 38 |  | 14 2018 | 213,871      | 126,682           | 87,189     | 2,337,308            |
| 39 |  | 15 2019 | 213,871      | 121,956           | 91,914     | 2,250,119            |
| 40 |  | 16 2020 | 213,871      | 116,975           | 96,896     | 2,158,205            |
| 41 |  | 17 2021 | 213,871      | 111,723           | 102,148    | 2,061,309            |
| 42 |  | 18 2022 | 213,871      | 106,187           | 107,684    | 1,959,161            |
| 43 |  | 19 2023 | 213,871      | 100,350           | 113,521    | 1,851,476            |
| 44 |  | 20 2024 | 213,871      | 94,197            | 119,674    | 1,737,956            |
| 45 |  | 21 2025 | 213,871      | 87,711            | 126,160    | 1,618,282            |
| 46 |  | 22 2026 | 213,871      | 80,873            | 132,998    | 1,492,122            |
| 47 |  | 23 2027 | 213,871      | 73,665            | 140,206    | 1,359,124            |
| 48 |  | 24 2028 | 213,871      | 66,065            | 147,806    | 1,218,918            |
| 49 |  | 25 2029 | 213,871      | 58,054            | 155,817    | 1,071,112            |
| 50 |  | 26 2030 | 213,871      | 49,609            | 164,262    | 915,296              |
| 51 |  | 27 2031 | 213,871      | 40,706            | 173,165    | 751,034              |
| 52 |  | 28 2032 | 213,871      | 31,320            | 182,550    | 577,869              |
| 53 |  |         |              |                   |            |                      |
| 54 |  |         |              |                   |            |                      |
| 55 | Page 3 of 12   |         |              |                   |            |                      |
| 56 |  |         |              |                   |            |                      |

|    |  |             |      |          |           |           |           |
|----|--|-------------|------|----------|-----------|-----------|-----------|
|    | U  | V           | W    | X        | Y         | Z         |           |
| 1  | WP-10 Wholesale Power Rate Case  |             |      |          |           |           |           |
| 2  | Section 7(b)(2) Resource Stack   |             |      |          |           |           |           |
| 3  | Debt Service Projections - 10% Interest in Boardman Coal Plant                   |             |      |          |           |           |           |
| 4  |  |             |      |          |           |           |           |
| 5  | FY 2007 Capital Additions  |             |      |          |           |           |           |
| 6  |  |             |      |          |           |           |           |
| 7  |  |             |      |          |           |           |           |
| 8  |  |             |      |          |           |           |           |
| 9  | 2007 Capital Additions   | \$7,037,182 |      |          |           |           |           |
| 10 |  |             |      |          |           |           |           |
| 11 |  |             |      |          |           | Total AMT | PRC AMT   |
| 12 | Total Capitalized / Financed Costs - 2007  |             |      |          |           | 7,037,182 | 703,718   |
| 13 | 2007 Additions - Agrees to FERC Form No. 1 for 2007, page 402                    |             |      |          |           |           |           |
| 14 | Debt/Capital Mix   |             |      |          |           | 80 /20    | 100 / 0   |
| 15 | Capital Costs financed in 2007 10-01-2006  |             |      |          |           | 5,629,746 | 703,718   |
| 16 | Financing Costs  |             |      |          |           | 20,254    | 6,282     |
| 17 | Total Financing  |             |      |          |           | 5,650,000 | 710,000   |
| 18 | 20 year Bond @ 4.68% in 2007 - 1/  |             |      |          |           | 4.73%     | 4.68%     |
| 19 | Payment amount - annual  |             |      |          |           |           | 55,436.70 |
| 20 |  |             |      |          |           |           |           |
| 21 | Note 1 - Interest rate from PFM financing study dated 08/21/08, Table D, page 15 |             |      |          |           |           |           |
| 22 |  |             |      |          |           |           |           |
| 23 |  | Payment     |      |          |           |           |           |
| 24 |  | Amount      |      | Interest | Principle | Balance   |           |
| 25 | Beginning Balance  |             |      |          |           | 710,000   |           |
| 26 |  | 1           | 2007 | 55,437   | 33,228    | 22,209    | 687,792   |
| 27 |  | 2           | 2008 | 55,437   | 32,189    | 23,248    | 664,543   |
| 28 |  | 3           | 2009 | 55,437   | 31,101    | 24,336    | 640,207   |
| 29 |  | 4           | 2010 | 55,437   | 29,962    | 25,475    | 614,732   |
| 30 |  | 5           | 2011 | 55,437   | 28,769    | 26,667    | 588,065   |
| 31 |  | 6           | 2012 | 55,437   | 27,521    | 27,915    | 560,150   |
| 32 |  | 7           | 2013 | 55,437   | 26,215    | 29,222    | 530,928   |
| 33 |  | 8           | 2014 | 55,437   | 24,847    | 30,589    | 500,339   |
| 34 |  | 9           | 2015 | 55,437   | 23,416    | 32,021    | 468,318   |
| 35 |  | 10          | 2016 | 55,437   | 21,917    | 33,519    | 434,799   |
| 36 |  | 11          | 2017 | 55,437   | 20,349    | 35,088    | 399,711   |
| 37 |  | 12          | 2018 | 55,437   | 18,706    | 36,730    | 362,980   |
| 38 |  | 13          | 2019 | 55,437   | 16,987    | 38,449    | 324,531   |
| 39 |  | 14          | 2020 | 55,437   | 15,188    | 40,249    | 284,283   |
| 40 |  | 15          | 2021 | 55,437   | 13,304    | 42,132    | 242,150   |
| 41 |  | 16          | 2022 | 55,437   | 11,333    | 44,104    | 198,046   |
| 42 |  | 17          | 2023 | 55,437   | 9,269     | 46,168    | 151,878   |
| 43 |  | 18          | 2024 | 55,437   | 7,108     | 48,329    | 103,549   |
| 44 |  | 19          | 2025 | 55,437   | 4,846     | 50,591    | 52,959    |
| 45 |  | 20          | 2026 | 55,426   | 2,478     | 52,947    | 11        |
| 46 |  |             |      |          |           |           |           |
| 47 |  |             |      |          |           |           |           |
| 48 |  |             |      |          |           |           |           |
| 49 |  |             |      |          |           |           |           |
| 50 |  |             |      |          |           |           |           |
| 51 |  |             |      |          |           |           |           |
| 52 |  |             |      |          |           |           |           |
| 53 |  |             |      |          |           |           |           |
| 54 | Page 4 of 12   |             |      |          |           |           |           |
| 55 |  |             |      |          |           |           |           |
| 56 |  |             |      |          |           |           |           |

|    | AA  | AB          | AC | AD             | AE               | AF               | AG             |
|----|---|-------------|----|----------------|------------------|------------------|----------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>  |             |    |                |                  |                  |                |
| 2  | <b>Section 7(b)(2) Resource Stack</b>   |             |    |                |                  |                  |                |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b>                   |             |    |                |                  |                  |                |
| 4  |   |             |    |                |                  |                  |                |
| 5  | <b><u>FY 2008 Capital Additions</u></b>   |             |    |                |                  |                  |                |
| 6  |   |             |    |                |                  |                  |                |
| 7  | PGE 2008 Final Capital Budget   |             |    |                | \$8,803,660      |                  |                |
| 8  |   |             |    |                |                  |                  |                |
| 9  |   |             |    |                |                  |                  |                |
| 10 | 2008 Capital Additions  |             |    |                | \$8,803,660      |                  |                |
| 11 |   |             |    |                |                  |                  |                |
| 12 |   |             |    |                | <u>Total AMT</u> | <u>PRC AMT</u>   |                |
| 13 | Total Capitalized / Financed Costs - 2008   |             |    |                | 8,803,660        | 880,366          |                |
| 14 | Debt/Capital Mix  |             |    |                | 80 /20           | 100 / 0          |                |
| 15 | Capital Costs financed in 2008 (10-01-2007)   |             |    |                | 7,042,928        | 880,366          |                |
| 16 | Financing Costs   |             |    |                | 70,309           | 9,634            |                |
| 17 | Total Financing   |             |    |                | 7,113,237        | 890,000          |                |
| 18 | 20 year Bond @ 4.68% in 2008 - 1/   |             |    |                | 4.73%            | 4.68%            |                |
| 19 | Payment amount - annual   |             |    |                |                  | 69,491           |                |
| 20 |   |             |    |                |                  |                  |                |
| 21 | <u>Note 1</u> - Interest rate from PFM financing study dated 08/21/08, Table D, page 15 |             |    |                |                  |                  |                |
| 22 |   |             |    |                |                  |                  |                |
| 23 |   |             |    |                |                  |                  |                |
| 24 |   | <u>Year</u> |    | <u>Payment</u> |                  |                  | <u>Balance</u> |
| 25 | Beginning Balance - 10/01/2007  |             |    | <u>Amount</u>  | <u>Interest</u>  | <u>Principle</u> | 890,000        |
| 26 |   | 1 2008      |    | 69,491         | 41,652           | 27,839           | 862,161        |
| 27 |   | 2 2009      |    | 69,491         | 40,349           | 29,142           | 833,019        |
| 28 |   | 3 2010      |    | 69,491         | 38,985           | 30,506           | 802,513        |
| 29 |   | 4 2011      |    | 69,491         | 37,558           | 31,933           | 770,579        |
| 30 |   | 5 2012      |    | 69,491         | 36,063           | 33,428           | 737,152        |
| 31 |   | 6 2013      |    | 69,491         | 34,499           | 34,992           | 702,159        |
| 32 |   | 7 2014      |    | 69,491         | 32,861           | 36,630           | 665,529        |
| 33 |   | 8 2015      |    | 69,491         | 31,147           | 38,344           | 627,185        |
| 34 |   | 9 2016      |    | 69,491         | 29,352           | 40,139           | 587,046        |
| 35 |   | 10 2017     |    | 69,491         | 27,474           | 42,017           | 545,029        |
| 36 |   | 11 2018     |    | 69,491         | 25,507           | 43,984           | 501,045        |
| 37 |   | 12 2019     |    | 69,491         | 23,449           | 46,042           | 455,003        |
| 38 |   | 13 2020     |    | 69,491         | 21,294           | 48,197           | 406,806        |
| 39 |   | 14 2021     |    | 69,491         | 19,039           | 50,453           | 356,354        |
| 40 |   | 15 2022     |    | 69,491         | 16,677           | 52,814           | 303,540        |
| 41 |   | 16 2023     |    | 69,491         | 14,206           | 55,285           | 248,255        |
| 42 |   | 17 2024     |    | 69,491         | 11,618           | 57,873           | 190,382        |
| 43 |   | 18 2025     |    | 69,491         | 8,910            | 60,581           | 129,801        |
| 44 |   | 19 2026     |    | 69,491         | 6,075            | 63,416           | 66,384         |
| 45 |   | 20 2027     |    | 69,493         | 3,107            | 66,386           | (2)            |
| 46 |   |             |    |                |                  |                  |                |
| 47 |   |             |    |                |                  |                  |                |
| 48 |   |             |    |                |                  |                  |                |
| 49 |   |             |    |                |                  |                  |                |
| 50 |   |             |    |                |                  |                  |                |
| 51 |   |             |    |                |                  |                  |                |
| 52 |   |             |    |                |                  |                  |                |
| 53 |   |             |    |                |                  |                  |                |
| 54 |   |             |    |                |                  |                  |                |
| 55 |   |             |    |                |                  |                  |                |
| 56 |   |             |    |                |                  |                  |                |



|    | AH  | AI   | AJ      | AK           | AL        | AM         | AN        |
|----|---|------|---------|--------------|-----------|------------|-----------|
| 1  | WP-10 Wholesale Power Rate Case   |      |         |              |           |            |           |
| 2  | Section 7(b)(2) Resource Stack  |      |         |              |           |            |           |
| 3  | Debt Service Projections - 10% Interest in Boardman Coal Plant                                    |      |         |              |           |            |           |
| 4  |   |      |         |              |           |            |           |
| 5  | FY 2009 Capital Additions   |      |         |              |           |            |           |
| 6  |   |      |         |              |           |            |           |
| 7  | PGE 2009 Preliminary Capital Budget   |      |         | \$11,364,709 |           |            |           |
| 8  |   |      |         |              |           |            |           |
| 9  |   |      |         |              |           |            |           |
| 10 |   |      |         |              |           |            |           |
| 11 |   |      |         |              |           |            |           |
| 12 |   |      |         |              |           | Total AMT  | PRC AMT   |
| 13 | Total Capitalized / Financed Costs - 2009   |      |         |              |           | 11,364,709 | 1,136,471 |
| 14 | Debt/Capital Mix  |      |         |              |           | 80 /20     | 100 / 0   |
| 15 | Capital Costs financed in FY 2009 (10-01-2008)  |      |         |              |           | 9,091,767  | 1,136,471 |
| 16 | Financing Costs   |      |         |              |           | 90,798     | 13,529    |
| 17 | Total Financing   |      |         |              |           | 9,182,565  | 1,150,000 |
| 18 | 20 year Bond @ 4.73% in 2009 - 1/   |      |         |              |           | N/A        | 4.73%     |
| 19 | Payment amount - annual   |      |         |              |           |            | 90,178.24 |
| 20 |   |      |         |              |           |            |           |
| 21 | Note 1 - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14. |      |         |              |           |            |           |
| 22 |   |      |         |              |           |            |           |
| 23 |   |      | Payment | 4.73%        |           |            |           |
| 24 |   | Year | Amount  | Interest     | Principle | Balance    |           |
| 25 | Beginning Balance - 10/01/2008  |      |         |              |           |            | 1,150,000 |
| 26 | 1   | 2009 | 90,178  | 54,395       | 35,783    | 1,114,216  |           |
| 27 | 2   | 2010 | 90,178  | 52,702       | 37,476    | 1,076,741  |           |
| 28 | 3   | 2011 | 90,178  | 50,930       | 39,248    | 1,037,492  |           |
| 29 | 4   | 2012 | 90,178  | 49,073       | 41,105    | 996,387    |           |
| 30 | 5   | 2013 | 90,178  | 47,129       | 43,049    | 953,338    |           |
| 31 | 6   | 2014 | 90,178  | 45,093       | 45,085    | 908,253    |           |
| 32 | 7   | 2015 | 90,178  | 42,960       | 47,218    | 861,035    |           |
| 33 | 8   | 2016 | 90,178  | 40,727       | 49,451    | 811,584    |           |
| 34 | 9   | 2017 | 90,178  | 38,388       | 51,790    | 759,793    |           |
| 35 | 10  | 2018 | 90,178  | 35,938       | 54,240    | 705,553    |           |
| 36 | 11  | 2019 | 90,178  | 33,373       | 56,806    | 648,748    |           |
| 37 | 12  | 2020 | 90,178  | 30,686       | 59,492    | 589,255    |           |
| 38 | 13  | 2021 | 90,178  | 27,872       | 62,306    | 526,949    |           |
| 39 | 14  | 2022 | 90,178  | 24,925       | 65,254    | 461,695    |           |
| 40 | 15  | 2023 | 90,178  | 21,838       | 68,340    | 393,355    |           |
| 41 | 16  | 2024 | 90,178  | 18,606       | 71,573    | 321,783    |           |
| 42 | 17  | 2025 | 90,178  | 15,220       | 74,958    | 246,825    |           |
| 43 | 18  | 2026 | 90,178  | 11,675       | 78,503    | 168,321    |           |
| 44 | 19  | 2027 | 90,178  | 7,962        | 82,217    | 86,105     |           |
| 45 | 20  | 2028 | 90,184  | 4,073        | 86,111    | (7)        |           |
| 46 |   |      |         |              |           |            |           |
| 47 |   |      |         |              |           |            |           |
| 48 |   |      |         |              |           |            |           |
| 49 |   |      |         |              |           |            |           |
| 50 |   |      |         |              |           |            |           |
| 51 |   |      |         |              |           |            |           |
| 52 |   |      |         |              |           |            |           |
| 53 |   |      |         |              |           |            |           |
| 54 | Page 6 of 12  |      |         |              |           |            |           |
| 55 |   |      |         |              |           |            |           |
| 56 |   |      |         |              |           |            |           |

|    | AO   | AP   | AQ      | AR       | AS          | AT      | AU |
|----|--|------|---------|----------|-------------|---------|----|
| 1  | WP-10 Wholesale Power Rate Case  |      |         |          |             |         |    |
| 2  | Section 7(b)(2) Resource Stack   |      |         |          |             |         |    |
| 3  | Debt Service Projections - 10% Interest in Boardman Coal Plant   |      |         |          |             |         |    |
| 4  |  |      |         |          |             |         |    |
| 5  | FY 2010 Capital Additions  |      |         |          |             |         |    |
| 6  |  |      |         |          |             |         |    |
| 7  | BPA Projected 2010 Capital Additions - 2/  |      |         |          | \$9,431,743 |         |    |
| 8  | (Average of 2007, 2008 and 2009 Capital additions)   |      |         |          |             |         |    |
| 9  |  |      |         |          |             |         |    |
| 10 |  |      |         |          |             |         |    |
| 11 |  |      |         |          |             |         |    |
| 12 |  |      |         |          | Total AMT   | PRC AMT |    |
| 13 | Total Capitalized / Financed Costs - 2010  |      |         |          | 9,431,743   | 943,174 |    |
| 14 | Debt/Capital Mix   |      |         |          | 80 /20      | 100 / 0 |    |
| 15 | Capital Costs financed in FY 2009 (10-01-2009)   |      |         |          | 7,545,394   | 943,174 |    |
| 16 | Financing Costs  |      |         |          | 75,334      | 9,826   |    |
| 17 | Total Financing  |      |         |          | 7,620,728   | 953,000 |    |
| 18 | 20 year Bond @ 4.73% in 2009 - 1/  |      |         |          | N/A         | 4.73%   |    |
| 19 | Payment amount - annual  |      |         |          |             | 74,730  |    |
| 20 |  |      |         |          |             |         |    |
| 21 | Note 1 - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14.                |      |         |          |             |         |    |
| 22 |  |      |         |          |             |         |    |
| 23 |  |      | Payment | 4.73%    |             |         |    |
| 24 |  |      | Amount  | Interest | Principle   | Balance |    |
| 25 | Beginning Balance - 10/01/2009   |      |         |          |             | 953,000 |    |
| 26 | 1  | 2010 | 74,730  | 45,077   | 29,653      | 923,347 |    |
| 27 | 2  | 2011 | 74,730  | 43,674   | 31,056      | 892,291 |    |
| 28 | 3  | 2012 | 74,730  | 42,205   | 32,525      | 859,766 |    |
| 29 | 4  | 2013 | 74,730  | 40,667   | 34,063      | 825,702 |    |
| 30 | 5  | 2014 | 74,730  | 39,056   | 35,675      | 790,028 |    |
| 31 | 6  | 2015 | 74,730  | 37,368   | 37,362      | 752,666 |    |
| 32 | 7  | 2016 | 74,730  | 35,601   | 39,129      | 713,536 |    |
| 33 | 8  | 2017 | 74,730  | 33,750   | 40,980      | 672,556 |    |
| 34 | 9  | 2018 | 74,730  | 31,812   | 42,918      | 629,638 |    |
| 35 | 10   | 2019 | 74,730  | 29,782   | 44,948      | 584,689 |    |
| 36 | 11   | 2020 | 74,730  | 27,656   | 47,075      | 537,615 |    |
| 37 | 12   | 2021 | 74,730  | 25,429   | 49,301      | 488,314 |    |
| 38 | 13   | 2022 | 74,730  | 23,097   | 51,633      | 436,681 |    |
| 39 | 14   | 2023 | 74,730  | 20,655   | 54,075      | 382,605 |    |
| 40 | 15   | 2024 | 74,730  | 18,097   | 56,633      | 325,972 |    |
| 41 | 16   | 2025 | 74,730  | 15,418   | 59,312      | 266,660 |    |
| 42 | 17   | 2026 | 74,730  | 12,613   | 62,117      | 204,543 |    |
| 43 | 18   | 2027 | 74,730  | 9,675    | 65,055      | 139,488 |    |
| 44 | 19   | 2028 | 74,730  | 6,598    | 68,133      | 71,355  |    |
| 45 | 20   | 2029 | 74,736  | 3,375    | 71,361      | (6)     |    |
| 46 |  |      |         |          |             |         |    |
| 47 | Note 2 - PGE's Boardman capital budgets are estimated at \$7,037,182 for 2007; \$8,803,660 for 2008; and         |      |         |          |             |         |    |
| 48 | \$11,364,709 for 2009. The simple average for the 3-years is \$9,068,517, restated in 2010\$ this average amount |      |         |          |             |         |    |
| 49 | is \$9,431,743.  |      |         |          |             |         |    |
| 50 |  |      |         |          |             |         |    |
| 51 |  |      |         |          |             |         |    |
| 52 |  |      |         |          |             |         |    |
| 53 |  |      |         |          |             |         |    |
| 54 |  |      |         |          |             |         |    |
| 55 |  |      |         |          |             |         |    |
| 56 |  |      |         |          |             |         |    |

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|    | AV  | AW | AX   | AY      | AZ                  | BA              | BB               |
|----|---|----|------|---------|---------------------|-----------------|------------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>  |    |      |         |                     |                 |                  |
| 2  | <b>Section 7(b)(2) Resource Stack</b>   |    |      |         |                     |                 |                  |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b>                                       |    |      |         |                     |                 |                  |
| 4  |   |    |      |         |                     |                 |                  |
| 5  | <b><u>FY 2011 Capital Additions</u></b>   |    |      |         |                     |                 |                  |
| 6  |   |    |      |         |                     |                 |                  |
| 7  | BPA Projected Other 2011 Capital Additions - 2/   |    |      |         | \$9,622,566         |                 |                  |
| 8  | PGE BART Pollution Control Additions - 2011   |    |      |         | <u>\$35,574,407</u> |                 |                  |
| 9  | Total Capital Additions   |    |      |         | <u>\$45,196,973</u> |                 |                  |
| 10 |   |    |      |         |                     |                 |                  |
| 11 |   |    |      |         |                     |                 |                  |
| 12 |   |    |      |         | <u>Total AMT</u>    | <u>PRC AMT</u>  |                  |
| 13 | Total Capitalized / Financed Costs - 2011   |    |      |         | 45,196,973          | 4,519,697       |                  |
| 14 | Debt/Capital Mix  |    |      |         | 80 /20              | 100 / 0         |                  |
| 15 | Capital Costs financed in FY 2011 (10-01-2010)  |    |      |         | 36,157,578          | 4,519,697       |                  |
| 16 | Financing Costs   |    |      |         | 361,455             | 45,303          |                  |
| 17 | Total Financing   |    |      |         | 36,519,033          | 4,565,000       |                  |
| 18 | 20 year Bond @ 4.73% in 2011 - 1/   |    |      |         | N/A                 | 4.73%           |                  |
| 19 | Payment amount - annual   |    |      |         |                     | 357,968         |                  |
| 20 |   |    |      |         |                     |                 |                  |
| 21 | <b>Note 1</b> - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14.    |    |      |         |                     |                 |                  |
| 22 |   |    |      |         |                     |                 |                  |
| 23 |   |    |      |         | Payment             | 4.73%           |                  |
| 24 |   |    |      |         | <u>Amount</u>       | <u>Interest</u> | <u>Principle</u> |
| 25 | Beginning Balance - 10/01/2010  |    |      |         |                     |                 | 4,565,000        |
| 26 |   | 1  | 2011 | 357,968 | 215,925             | 142,044         | 4,422,956        |
| 27 |   | 2  | 2012 | 357,968 | 209,206             | 148,763         | 4,274,194        |
| 28 |   | 3  | 2013 | 357,968 | 202,169             | 155,799         | 4,118,395        |
| 29 |   | 4  | 2014 | 357,968 | 194,800             | 163,168         | 3,955,226        |
| 30 |   | 5  | 2015 | 357,968 | 187,082             | 170,886         | 3,784,340        |
| 31 |   | 6  | 2016 | 357,968 | 178,999             | 178,969         | 3,605,371        |
| 32 |   | 7  | 2017 | 357,968 | 170,534             | 187,434         | 3,417,937        |
| 33 |   | 8  | 2018 | 357,968 | 161,668             | 196,300         | 3,221,636        |
| 34 |   | 9  | 2019 | 357,968 | 152,383             | 205,585         | 3,016,051        |
| 35 |   | 10 | 2020 | 357,968 | 142,659             | 215,309         | 2,800,742        |
| 36 |   | 11 | 2021 | 357,968 | 132,475             | 225,493         | 2,575,249        |
| 37 |   | 12 | 2022 | 357,968 | 121,809             | 236,159         | 2,339,090        |
| 38 |   | 13 | 2023 | 357,968 | 110,639             | 247,329         | 2,091,760        |
| 39 |   | 14 | 2024 | 357,968 | 98,940              | 259,028         | 1,832,732        |
| 40 |   | 15 | 2025 | 357,968 | 86,688              | 271,280         | 1,561,452        |
| 41 |   | 16 | 2026 | 357,968 | 73,857              | 284,112         | 1,277,340        |
| 42 |   | 17 | 2027 | 357,968 | 60,418              | 297,550         | 979,790          |
| 43 |   | 18 | 2028 | 357,968 | 46,344              | 311,624         | 668,165          |
| 44 |   | 19 | 2029 | 357,968 | 31,604              | 326,364         | 341,801          |
| 45 |   | 20 | 2030 | 357,983 | 16,167              | 341,816         | (15)             |
| 46 |   |    |      |         |                     |                 |                  |
| 47 | <b>Note 2</b> - PGE's Boardman capital budgets are estimated at \$7,037,182 for 2007; \$8,803,660 for 2008; |    |      |         |                     |                 |                  |
| 48 | and \$11,364,709 for 2009. The simple average for the 3-years is \$9,068,517, restated in 2010\$\$ this     |    |      |         |                     |                 |                  |
| 49 | average amount is \$9,431,743, escalated at 1.020232 for 2011\$\$ this amount is \$9,622,566.               |    |      |         |                     |                 |                  |
| 50 |   |    |      |         |                     |                 |                  |
| 51 |   |    |      |         |                     |                 |                  |
| 52 |   |    |      |         |                     |                 |                  |
| 53 |   |    |      |         |                     |                 |                  |
| 54 |   |    |      |         |                     |                 |                  |
| 55 |   |    |      |         |                     |                 |                  |
| 56 |   |    |      |         |                     |                 |                  |

|    | BC  | BD | BE   | BF     | BG                 | BH              | BI               |
|----|---|----|------|--------|--------------------|-----------------|------------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>  |    |      |        |                    |                 |                  |
| 2  | <b>Section 7(b)(2) Resource Stack</b>   |    |      |        |                    |                 |                  |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b>                                       |    |      |        |                    |                 |                  |
| 4  |   |    |      |        |                    |                 |                  |
| 5  | <b><u>FY 2012 Capital Additions</u></b>   |    |      |        |                    |                 |                  |
| 6  |   |    |      |        |                    |                 |                  |
| 7  | BPA Projected Other 2012 Capital Additions - 2/   |    |      |        | \$9,823,934        |                 |                  |
| 8  | PGE BART Pollution Control Additions - 2012   |    |      |        | 0                  |                 |                  |
| 9  | Total Capital Additions   |    |      |        | <u>\$9,823,934</u> |                 |                  |
| 10 |   |    |      |        |                    |                 |                  |
| 11 |   |    |      |        |                    |                 |                  |
| 12 |   |    |      |        | <u>Total AMT</u>   | <u>PRC AMT</u>  |                  |
| 13 | Total Capitalized / Financed Costs - 2012   |    |      |        | 9,823,934          | 982,393         |                  |
| 14 | Debt/Capital Mix  |    |      |        | 80 / 20            | 100 / 0         |                  |
| 15 | Capital Costs financed in FY 2012 (10-01-2011)  |    |      |        | 7,859,147          | 982,393         |                  |
| 16 | Financing Costs   |    |      |        | 78,259             | 9,607           |                  |
| 17 | Total Financing   |    |      |        | 7,937,407          | 992,000         |                  |
| 18 | 20 year Bond @ 4.73% in 2012 - 1/   |    |      |        | N/A                | 4.73%           |                  |
| 19 | Payment amount - annual   |    |      |        |                    | 77,789          |                  |
| 20 |   |    |      |        |                    |                 |                  |
| 21 | <b>Note 1</b> - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14.    |    |      |        |                    |                 |                  |
| 22 |   |    |      |        |                    |                 |                  |
| 23 |   |    |      |        | Payment            | 4.73%           |                  |
| 24 |   |    |      |        | <u>Amount</u>      | <u>Interest</u> | <u>Principle</u> |
| 25 | Beginning Balance - 10/01/2011  |    |      |        |                    |                 | 992,000          |
| 26 |   | 1  | 2012 | 77,789 | 46,922             | 30,867          | 961,133          |
| 27 |   | 2  | 2013 | 77,789 | 45,462             | 32,327          | 928,806          |
| 28 |   | 3  | 2014 | 77,789 | 43,933             | 33,856          | 894,950          |
| 29 |   | 4  | 2015 | 77,789 | 42,331             | 35,457          | 859,493          |
| 30 |   | 5  | 2016 | 77,789 | 40,654             | 37,135          | 822,358          |
| 31 |   | 6  | 2017 | 77,789 | 38,898             | 38,891          | 783,467          |
| 32 |   | 7  | 2018 | 77,789 | 37,058             | 40,731          | 742,737          |
| 33 |   | 8  | 2019 | 77,789 | 35,131             | 42,657          | 700,080          |
| 34 |   | 9  | 2020 | 77,789 | 33,114             | 44,675          | 655,405          |
| 35 |   | 10 | 2021 | 77,789 | 31,001             | 46,788          | 608,617          |
| 36 |   | 11 | 2022 | 77,789 | 28,788             | 49,001          | 559,616          |
| 37 |   | 12 | 2023 | 77,789 | 26,470             | 51,319          | 508,297          |
| 38 |   | 13 | 2024 | 77,789 | 24,042             | 53,746          | 454,551          |
| 39 |   | 14 | 2025 | 77,789 | 21,500             | 56,288          | 398,263          |
| 40 |   | 15 | 2026 | 77,789 | 18,838             | 58,951          | 339,312          |
| 41 |   | 16 | 2027 | 77,789 | 16,049             | 61,739          | 277,573          |
| 42 |   | 17 | 2028 | 77,789 | 13,129             | 64,659          | 212,914          |
| 43 |   | 18 | 2029 | 77,789 | 10,071             | 67,718          | 145,196          |
| 44 |   | 19 | 2030 | 77,789 | 6,868              | 70,921          | 74,275           |
| 45 |   | 20 | 2031 | 77,775 | 3,513              | 74,261          | 14               |
| 46 |   |    |      |        |                    |                 |                  |
| 47 | <b>Note 2</b> - PGE's Boardman capital budgets are estimated at \$7,037,182 for 2007; \$8,803,660 for 2008; |    |      |        |                    |                 |                  |
| 48 | and \$11,364,709 for 2009. The simple average for the 3-years is \$9,068,517, restated in 2010\$\$ this     |    |      |        |                    |                 |                  |
| 49 | average amount is \$9,431,743, escalated at 1.041582 for 2012\$\$ this amount is \$9,823,934.               |    |      |        |                    |                 |                  |
| 50 |   |    |      |        |                    |                 |                  |
| 51 |   |    |      |        |                    |                 |                  |
| 52 |   |    |      |        |                    |                 |                  |
| 53 |   |    |      |        |                    |                 |                  |
| 54 |   |    |      |        |                    |                 |                  |
| 55 |   |    |      |        |                    |                 |                  |
| 56 |   |    |      |        |                    |                 |                  |

|    | BJ  | BK   | BL            | BM              | BN                  | BO               | BP             |
|----|---|------|---------------|-----------------|---------------------|------------------|----------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>  |      |               |                 |                     |                  |                |
| 2  | <b>Section 7(b)(2) Resource Stack</b>   |      |               |                 |                     |                  |                |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b>                                       |      |               |                 |                     |                  |                |
| 4  |   |      |               |                 |                     |                  |                |
| 5  | <b><u>FY 2013 Capital Additions</u></b>   |      |               |                 |                     |                  |                |
| 6  |   |      |               |                 |                     |                  |                |
| 7  | BPA Projected Other 2013 Capital Additions - 2/   |      |               |                 | \$10,023,943        |                  |                |
| 8  | PGE BART Pollution Control Additions - 2013   |      |               |                 | 0                   |                  |                |
| 9  | Total Capital Additions   |      |               |                 | <u>\$10,023,943</u> |                  |                |
| 10 |   |      |               |                 |                     |                  |                |
| 11 |   |      |               |                 |                     |                  |                |
| 12 |   |      |               |                 |                     | <u>Total AMT</u> | <u>PRC AMT</u> |
| 13 | Total Capitalized / Financed Costs - 2013   |      |               |                 |                     | 10,023,943       | 1,002,394      |
| 14 | Debt/Capital Mix  |      |               |                 |                     | 80 /20           | 100 / 0        |
| 15 | Cap. Costs financed in FY 2013 (10-01-2012)   |      |               |                 |                     | 8,019,154        | 1,002,394      |
| 16 | Financing Costs   |      |               |                 |                     | 80,324           | 9,606          |
| 17 | Total Financing   |      |               |                 |                     | 8,099,478        | 1,012,000      |
| 18 | 20 year Bond @ 4.73% in 2013 - 1/   |      |               |                 |                     | N/A              | 4.73%          |
| 19 | Payment amount - annual   |      |               |                 |                     |                  | 79,357         |
| 20 |   |      |               |                 |                     |                  |                |
| 21 | <b>Note 1</b> - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14.    |      |               |                 |                     |                  |                |
| 22 |   |      |               |                 |                     |                  |                |
| 23 |   |      | Payment       | 4.73%           |                     |                  |                |
| 24 |   |      | <u>Amount</u> | <u>Interest</u> | <u>Principle</u>    | <u>Balance</u>   |                |
| 25 | Beginning Balance - 10/01/2012  |      |               |                 |                     | 1,012,000        |                |
| 26 | 1   | 2013 | 79,357        | 47,868          | 31,489              | 980,511          |                |
| 27 | 2   | 2014 | 79,357        | 46,378          | 32,979              | 947,532          |                |
| 28 | 3   | 2015 | 79,357        | 44,818          | 34,539              | 912,994          |                |
| 29 | 4   | 2016 | 79,357        | 43,185          | 36,172              | 876,821          |                |
| 30 | 5   | 2017 | 79,357        | 41,474          | 37,883              | 838,938          |                |
| 31 | 6   | 2018 | 79,357        | 39,682          | 39,675              | 799,263          |                |
| 32 | 7   | 2019 | 79,357        | 37,805          | 41,552              | 757,711          |                |
| 33 | 8   | 2020 | 79,357        | 35,840          | 43,517              | 714,194          |                |
| 34 | 9   | 2021 | 79,357        | 33,781          | 45,575              | 668,619          |                |
| 35 | 10  | 2022 | 79,357        | 31,626          | 47,731              | 620,888          |                |
| 36 | 11  | 2023 | 79,357        | 29,368          | 49,989              | 570,899          |                |
| 37 | 12  | 2024 | 79,357        | 27,004          | 52,353              | 518,545          |                |
| 38 | 13  | 2025 | 79,357        | 24,527          | 54,830              | 463,716          |                |
| 39 | 14  | 2026 | 79,357        | 21,934          | 57,423              | 406,292          |                |
| 40 | 15  | 2027 | 79,357        | 19,218          | 60,139              | 346,153          |                |
| 41 | 16  | 2028 | 79,357        | 16,373          | 62,984              | 283,169          |                |
| 42 | 17  | 2029 | 79,357        | 13,394          | 65,963              | 217,206          |                |
| 43 | 18  | 2030 | 79,357        | 10,274          | 69,083              | 148,123          |                |
| 44 | 19  | 2031 | 79,357        | 7,006           | 72,351              | 75,773           |                |
| 45 | 20  | 2032 | 79,355        | 3,584           | 75,771              | 2                |                |
| 46 |   |      |               |                 |                     |                  |                |
| 47 | <b>Note 2</b> - PGE's Boardman capital budgets are estimated at \$7,037,182 for 2007; \$8,803,660 for 2008; |      |               |                 |                     |                  |                |
| 48 | and \$11,364,709 for 2009. The simple average for the 3-years is \$9,068,517, restated in 2010\$\$ this     |      |               |                 |                     |                  |                |
| 49 | average amount is \$9,431,743, escalated at 1.062788 for 2013\$\$ this amount is \$10,023,943.              |      |               |                 |                     |                  |                |
| 50 |   |      |               |                 |                     |                  |                |
| 51 |   |      |               |                 |                     |                  |                |
| 52 |   |      |               |                 |                     |                  |                |
| 53 |   |      |               |                 |                     |                  |                |
| 54 |   |      |               |                 |                     |                  |                |
| 55 |   |      |               |                 |                     |                  |                |
| 56 |   |      |               |                 |                     |                  |                |

|    | BQ   | BR | BS   | BT        | BU                   | BV              | BW               |
|----|--|----|------|-----------|----------------------|-----------------|------------------|
| 1  | <b>WP-10 Wholesale Power Rate Case</b>   |    |      |           |                      |                 |                  |
| 2  | <b>Section 7(b)(2) Resource Stack</b>  |    |      |           |                      |                 |                  |
| 3  | <b>Debt Service Projections - 10% Interest in Boardman Coal Plant</b>  |    |      |           |                      |                 |                  |
| 4  |  |    |      |           |                      |                 |                  |
| 5  | <b><u>FY 2014 Capital Additions</u></b>  |    |      |           |                      |                 |                  |
| 6  |  |    |      |           |                      |                 |                  |
| 7  | BPA Projected Other 2014 Capital Additions - 2/  |    |      |           | \$10,226,962         |                 |                  |
| 8  | PGE BART Pollution Control Additions - 2014  |    |      |           | 395,615,477          |                 |                  |
| 9  | Total Capital Additions  |    |      |           | <u>\$405,842,439</u> |                 |                  |
| 10 |  |    |      |           |                      |                 |                  |
| 11 |  |    |      |           |                      |                 |                  |
| 12 |  |    |      |           | <u>Total AMT</u>     | <u>PRC AMT</u>  |                  |
| 13 | Total Capitalized / Financed Costs - 2014  |    |      |           | 405,842,439          | 40,584,244      |                  |
| 14 | Debt/Capital Mix   |    |      |           | 80 / 20              | 100 / 0         |                  |
| 15 | Capital Costs financed in FY 2014 (10-01-2013)   |    |      |           | 324,673,951          | 40,584,244      |                  |
| 16 | Financing Costs  |    |      |           | 3,246,488            | 405,540         |                  |
| 17 | Total Financing  |    |      |           | 327,920,439          | 40,994,000      |                  |
| 18 | 20 year Bond @ 4.73% in 2014 - 1/  |    |      |           | N/A                  | 4.73%           |                  |
| 19 | Payment amount - annual  |    |      |           |                      | 3,214,580       |                  |
| 20 |  |    |      |           |                      |                 |                  |
| 21 | <b><u>Note 1</u></b> - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14.    |    |      |           |                      |                 |                  |
| 22 |  |    |      |           |                      |                 |                  |
| 23 |  |    |      |           | Payment              | 4.73%           |                  |
| 24 |  |    |      |           | <u>Amount</u>        | <u>Interest</u> | <u>Principle</u> |
| 25 | Beginning Balance - 10/01/2012   |    |      |           |                      |                 | <u>Balance</u>   |
| 26 |  | 1  | 2014 | 3,214,580 | 1,939,016            | 1,275,564       | 40,994,000       |
| 27 |  | 2  | 2015 | 3,214,580 | 1,878,682            | 1,335,898       | 39,718,437       |
| 28 |  | 3  | 2016 | 3,214,580 | 1,815,494            | 1,399,086       | 38,382,539       |
| 29 |  | 4  | 2017 | 3,214,580 | 1,749,317            | 1,465,263       | 36,983,453       |
| 30 |  | 5  | 2018 | 3,214,580 | 1,680,010            | 1,534,570       | 35,518,190       |
| 31 |  | 6  | 2019 | 3,214,580 | 1,607,425            | 1,607,155       | 33,983,621       |
| 32 |  | 7  | 2020 | 3,214,580 | 1,531,407            | 1,683,173       | 32,376,466       |
| 33 |  | 8  | 2021 | 3,214,580 | 1,451,793            | 1,762,787       | 30,693,293       |
| 34 |  | 9  | 2022 | 3,214,580 | 1,368,413            | 1,846,167       | 28,930,506       |
| 35 |  | 10 | 2023 | 3,214,580 | 1,281,089            | 1,933,491       | 27,084,339       |
| 36 |  | 11 | 2024 | 3,214,580 | 1,189,635            | 2,024,945       | 25,150,848       |
| 37 |  | 12 | 2025 | 3,214,580 | 1,093,855            | 2,120,725       | 23,125,903       |
| 38 |  | 13 | 2026 | 3,214,580 | 993,545              | 2,221,035       | 21,005,178       |
| 39 |  | 14 | 2027 | 3,214,580 | 888,490              | 2,326,090       | 18,784,143       |
| 40 |  | 15 | 2028 | 3,214,580 | 778,466              | 2,436,114       | 16,458,054       |
| 41 |  | 16 | 2029 | 3,214,580 | 663,238              | 2,551,342       | 14,021,940       |
| 42 |  | 17 | 2030 | 3,214,580 | 542,559              | 2,672,021       | 11,470,597       |
| 43 |  | 18 | 2031 | 3,214,580 | 416,173              | 2,798,407       | 8,798,577        |
| 44 |  | 19 | 2032 | 3,214,580 | 283,808              | 2,930,772       | 6,000,169        |
| 45 |  | 20 | 2033 | 3,214,577 | 145,182              | 3,069,394       | 3,069,397        |
| 46 |  |    |      |           |                      |                 |                  |
| 47 | <b><u>Note 2</u></b> - PGE's Boardman capital budgets are estimated at \$7,037,182 for 2007; \$8,803,660 for 2008; |    |      |           |                      |                 |                  |
| 48 | and \$11,364,709 for 2009. The simple average for the 3-years is \$9,068,517, restated in 2010\$\$ this            |    |      |           |                      |                 |                  |
| 49 | average amount is \$9,431,743, escalated at 1.084313 for 2014\$\$ this amount is \$10,226,962.                     |    |      |           |                      |                 |                  |
| 50 |  |    |      |           |                      |                 |                  |
| 51 |  |    |      |           |                      |                 |                  |
| 52 |  |    |      |           |                      |                 |                  |
| 53 |  |    |      |           |                      |                 |                  |
| 54 |  |    |      |           |                      |                 |                  |
| 55 |  |    |      |           |                      |                 |                  |
| 56 |  |    |      |           |                      |                 |                  |

|    | BX  | BY   | BZ      | CA       | CB           | CC        | CD |
|----|---|------|---------|----------|--------------|-----------|----|
| 1  | WP-10 Wholesale Power Rate Case   |      |         |          |              |           |    |
| 2  | Section 7(b)(2) Resource Stack  |      |         |          |              |           |    |
| 3  | Debt Service Projections - 10% Interest in Boardman Coal Plant  |      |         |          |              |           |    |
| 4  |   |      |         |          |              |           |    |
| 5  | FY 2015 Capital Additions   |      |         |          |              |           |    |
| 6  |   |      |         |          |              |           |    |
| 7  | BPA Projected Other 2015 Capital Additions - 2/   |      |         |          | \$10,432,394 |           |    |
| 8  | PGE BART Pollution Control Additions - 2015   |      |         |          | 0            |           |    |
| 9  | Total Capital Additions   |      |         |          | \$10,432,394 |           |    |
| 10 |   |      |         |          |              |           |    |
| 11 |   |      |         |          |              |           |    |
| 12 |   |      |         |          | Total AMT    | PRC AMT   |    |
| 13 | Total Capitalized / Financed Costs - 2015   |      |         |          | 10,432,394   | 1,043,239 |    |
| 14 | Debt/Capital Mix  |      |         |          | 80 / 20      | 100 / 0   |    |
| 15 | Capital Costs financed in FY 2014 (10-01-2013)  |      |         |          | 8,345,915    | 1,043,239 |    |
| 16 | Financing Costs   |      |         |          | 83,459       | 10,761    |    |
| 17 | Total Financing   |      |         |          | 8,429,374    | 1,054,001 |    |
| 18 | 20 year Bond @ 4.73% in 2014 - 1/   |      |         |          | N/A          | 4.73%     |    |
| 19 | Payment amount - annual   |      |         |          |              | 82,650    |    |
| 20 |   |      |         |          |              |           |    |
| 21 | Note 1 - Interest rate from PFM Financing Study dated 11/11/08, See Appendix A, Table D, page 14.       |      |         |          |              |           |    |
| 22 |   |      |         |          |              |           |    |
| 23 |   |      | Payment | 4.73%    |              |           |    |
| 24 |   |      | Amount  | Interest | Principle    | Balance   |    |
| 25 | Beginning Balance - 10/01/2012  |      |         |          |              | 1,054,001 |    |
| 26 | 1   | 2015 | 82,650  | 49,854   | 32,796       | 1,021,205 |    |
| 27 | 2   | 2016 | 82,650  | 48,303   | 34,347       | 986,857   |    |
| 28 | 3   | 2017 | 82,650  | 46,678   | 35,972       | 950,885   |    |
| 29 | 4   | 2018 | 82,650  | 44,977   | 37,674       | 913,212   |    |
| 30 | 5   | 2019 | 82,650  | 43,195   | 39,455       | 873,756   |    |
| 31 | 6   | 2020 | 82,650  | 41,329   | 41,322       | 832,435   |    |
| 32 | 7   | 2021 | 82,650  | 39,374   | 43,276       | 789,158   |    |
| 33 | 8   | 2022 | 82,650  | 37,327   | 45,323       | 743,835   |    |
| 34 | 9   | 2023 | 82,650  | 35,183   | 47,467       | 696,368   |    |
| 35 | 10  | 2024 | 82,650  | 32,938   | 49,712       | 646,656   |    |
| 36 | 11  | 2025 | 82,650  | 30,587   | 52,064       | 594,592   |    |
| 37 | 12  | 2026 | 82,650  | 28,124   | 54,526       | 540,066   |    |
| 38 | 13  | 2027 | 82,650  | 25,545   | 57,105       | 482,961   |    |
| 39 | 14  | 2028 | 82,650  | 22,844   | 59,806       | 423,155   |    |
| 40 | 15  | 2029 | 82,650  | 20,015   | 62,635       | 360,519   |    |
| 41 | 16  | 2030 | 82,650  | 17,053   | 65,598       | 294,922   |    |
| 42 | 17  | 2031 | 82,650  | 13,950   | 68,701       | 226,221   |    |
| 43 | 18  | 2032 | 82,650  | 10,700   | 71,950       | 154,271   |    |
| 44 | 19  | 2033 | 82,650  | 7,297    | 75,353       | 78,918    |    |
| 45 | 20  | 2034 | 82,656  | 3,733    | 78,924       | (6)       |    |
| 46 |   |      |         |          |              |           |    |
| 47 | Note 2 - PGE's Boardman capital budgets are estimated at \$7,037,182 for 2007; \$8,803,660 for 2008;    |      |         |          |              |           |    |
| 48 | and \$11,364,709 for 2009. The simple average for the 3-years is \$9,068,517, restated in 2010\$\$ this |      |         |          |              |           |    |
| 49 | average amount is \$9,431,743, escalated at 1.106094 for 2015\$\$ this amount is \$10,432,394.          |      |         |          |              |           |    |
| 50 |   |      |         |          |              |           |    |
| 51 |   |      |         |          |              |           |    |
| 52 |   |      |         |          |              |           |    |
| 53 |   |      |         |          |              |           |    |
| 54 |   |      |         |          |              |           |    |
| 55 |   |      |         |          |              |           |    |
| 56 |   |      |         |          |              |           |    |

Page 12 of 12

| Name of Respondent<br>Portland General Electric Company  |   | This Report Is:<br>(1) <input checked="" type="checkbox"/> An Original<br>(2) <input type="checkbox"/> A Resubmission |                             | Date of Report<br>(Mo, Da, Yr)<br>/ / |       | Year/Period of Report<br>End of 2007/Q4 |       |
|--|---|---|-----------------------------|---------------------------------------|-------|---|-------|
| STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)  |   |   |                             |                                       |       |   |       |
| <p>1. Report data for plant in Service only. 2. Large plants are steam plants with installed capacity (name plate rating) of 25,000 Kw or more. Report in this page gas-turbine and internal combustion plants of 10,000 Kw or more, and nuclear plants. 3. Indicate by a footnote any plant leased or operated as a joint facility. 4. If net peak demand for 60 minutes is not available, give data which is available, specifying period. 5. If any employees attend more than one plant, report on line 11 the approximate average number of employees assignable to each plant. 6. If gas is used and purchased on a therm basis report the Btu content or the gas and the quantity of fuel burned converted to Mct. 7. Quantities of fuel burned (Line 38) and average cost per unit of fuel burned (Line 41) must be consistent with charges to expense accounts 501 and 547 (Line 42) as show on Line 20. 8. If more than one fuel is burned in a plant furnish only the composite heat rate for all fuels burned.</p> |   |   |                             |                                       |       |   |       |
| Line No.   | Item<br>(a)   | Plant Name: Boardman<br>(b)   | Plant Name: Boardman<br>(c) |                                       |       |   |       |
| 1  | Kind of Plant (Internal Comb, Gas Turb, Nuclear)        | Steam   | Steam                       |                                       |       |   |       |
| 2  | Type of Constr (Conventional, Outdoor, Boiler, etc)     | Conventional  | Conventional                |                                       |       |   |       |
| 3  | Year Originally Constructed                             | 1980  | 1980                        |                                       |       |   |       |
| 4  | Year Last Unit was Installed                            | 1980  | 1980                        |                                       |       |   |       |
| 5  | Total Installed Cap (Max Gen Name Plate Ratings-MW)     | 642.20  | 417.43                      |                                       |       |   |       |
| 6  | Net Peak Demand on Plant - MW (60 minutes)              | 595   | 0                           |                                       |       |   |       |
| 7  | Plant Hours Connected to Load                           | 6686  | 0                           |                                       |       |   |       |
| 8  | Net Continuous Plant Capability (Megawatts)             | 0   | 0                           |                                       |       |   |       |
| 9  | When Not Limited by Condenser Water                     | 585   | 0                           |                                       |       |   |       |
| 10   | When Limited by Condenser Water                         | 585   | 0                           |                                       |       |   |       |
| 11   | Average Number of Employees                             | 110   | 0                           |                                       |       |   |       |
| 12   | Net Generation, Exclusive of Plant Use - KWh            | 4354531000  | 2827461000                  |                                       |       |   |       |
| 13   | Cost of Plant: Land and Land Rights                     | 1240068   | 798844                      |                                       |       |   |       |
| 14   | Structures and Improvements                             | 151883454   | 99959737                    |                                       |       |   |       |
| 15   | Equipment Costs   | 474946319   | 304980403                   |                                       |       |   |       |
| 16   | Asset Retirement Costs                                  | 838641  | 622117                      |                                       |       |   |       |
| 17   | Total Cost  | 628908482   | 406361101                   |                                       |       |   |       |
| 18   | Cost per KW of Installed Capacity (line 17/5) Including | 979.3031  | 973.4832                    |                                       |       |   |       |
| 19   | Production Expenses: Oper, Supv, & Engr                 | 6763843   | 4420104                     |                                       |       |   |       |
| 20   | Fuel  | 61041164  | 39933425                    |                                       |       |   |       |
| 21   | Coolants and Water (Nuclear Plants Only)                | 0   | 0                           |                                       |       |   |       |
| 22   | Steam Expenses  | 0   | 0                           |                                       |       |   |       |
| 23   | Steam From Other Sources                                | 0   | 0                           |                                       |       |   |       |
| 24   | Steam Transferred (Cr)                                  | 0   | 0                           |                                       |       |   |       |
| 25   | Electric Expenses                                       | 0   | 0                           |                                       |       |   |       |
| 26   | Misc Steam (or Nuclear) Power Expenses                  | 2169128   | 1387631                     |                                       |       |   |       |
| 27   | Rents   | 0   | 0                           |                                       |       |   |       |
| 28   | Allowances  | 0   | 0                           |                                       |       |   |       |
| 29   | Maintenance Supervision and Engineering                 | 19406261  | 12370455                    |                                       |       |   |       |
| 30   | Maintenance of Structures                               | 0   | 0                           |                                       |       |   |       |
| 31   | Maintenance of Boiler (or reactor) Plant                | 0   | 0                           |                                       |       |   |       |
| 32   | Maintenance of Electric Plant                           | 0   | 0                           |                                       |       |   |       |
| 33   | Maintenance of Misc Steam (or Nuclear) Plant            | 163697  | 106530                      |                                       |       |   |       |
| 34   | Total Production Expenses                               | 89544093  | 58218145                    |                                       |       |   |       |
| 35   | Expenses per Net KWh                                    | 0.0206  | 0.0206                      |                                       |       |   |       |
| 36   | Fuel: Kind (Coal, Gas, Oil, or Nuclear)                 | Coal  | Oil                         | Composite                             |       |   |       |
| 37   | Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)    | Tons  | Barrels                     |                                       |       |   |       |
| 38   | Quantity (Units) of Fuel Burned                         | 2577187   | 6178                        | 0                                     | 0     | 0                                       | 0     |
| 39   | Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)   | 8517  | 138600                      | 0                                     | 0     | 0                                       | 0     |
| 40   | Avg Cost of Fuel/unit, as Delvd f.o.b. during year      | 23.264  | 93.920                      | 0.000                                 | 0.000 | 0.000                                   | 0.000 |
| 41   | Average Cost of Fuel per Unit Burned                    | 22.858  | 89.201                      | 0.000                                 | 0.000 | 0.000                                   | 0.000 |
| 42   | Average Cost of Fuel Burned per Million BTU             | 1.342   | 15.324                      | 1.353                                 | 0.000 | 0.000                                   | 0.000 |
| 43   | Average Cost of Fuel Burned per KWh Net Gen             | 0.014   | 0.000                       | 0.014                                 | 0.000 | 0.000                                   | 0.000 |
| 44   | Average BTU per KWh Net Generation                      | 10081.400   | 8.300                       | 10089.700                             | 0.000 | 0.000                                   | 0.000 |



| Name of Respondent<br>Portland General Electric Company   |  | This Report Is:<br>(1) <input checked="" type="checkbox"/> An Original<br>(2) <input type="checkbox"/> A Resubmission | Date of Report<br>(Mo, Da, Yr)<br>/ / | Year/Period of Report<br>End of 2007/Q4 |
|---|--|---|---------------------------------------|---|
| CONSTRUCTION WORK IN PROGRESS - - ELECTRIC (Account 107)  |  |   |                                       |   |
| 1. Report below descriptions and balances at end of year of projects in process of construction (107)<br>2. Show items relating to "research, development, and demonstration" projects last, under a caption Research, Development, and Demonstrating (see unit 107 of the Uniform System of Accounts)<br>3. Minor projects (5% of the Balance End of the Year for Account 107 or \$100,000, whichever is less) may be grouped. |  |   |                                       |   |
| Line No.  | Description of Project<br>(a)  | Construction work in progress -<br>Electric (Account 107)<br>(b)  |                                       |   |
| 1   | Clackamas River Hydro Relicensing Project  | 50,223,922  |                                       |   |
| 2   | Pelton/R. Butte-Selective Water Withdrawal   | 28,140,038  |                                       |   |
| 3   | Biglow Canyon Wind Farm Generation Project (Phases 2 & 3)                          | 17,828,002  |                                       |   |
| 4   | Carver Sub-Install VWR-4 Transformer   | 3,422,545   |                                       |   |
| 5   | Energy Management System-Software  | 2,639,743   |                                       |   |
| 6   | Sullivan Fish Passage  | 2,088,749   |                                       |   |
| 7   | River District-Install Vaults  | 1,577,886   |                                       |   |
| 8   | Pelton/Round Butte Hydro Facility - FERC License Requirements                      | 1,552,732   |                                       |   |
| 9   | Purchase Spare Bulk Transformers   | 1,419,662   |                                       |   |
| 10  | Advanced Metering Infrastructure   | 1,183,873   |                                       |   |
| 11  | Develop Automated Meter Exchange System - Software                                 | 1,175,189   |                                       |   |
| 12  | Install Microsoft Exchange and Windows Technology-Software                         | 1,076,112   |                                       |   |
| 13  | Boardman Plant-Install Training Simulator  | 988,896   |                                       |   |
| 14  | Carver Sub-Install 230-Kv Line Position  | 898,772   |                                       |   |
| 15  | Identity Management Control System - Software                                      | 833,267   |                                       |   |
| 16  | Boardman Plant-Rewind Generator Stator   | 792,607   |                                       |   |
| 17  | Fiber Optic Cable Project-Portland's Eastside                                      | 773,188   |                                       |   |
| 18  | McLoughlin Sub-Install 230-Kv Line Position  | 680,540   |                                       |   |
| 19  | Web Infrastructure-Software  | 653,320   |                                       |   |
|   | River Mill-Fish Passage Improvement  | 537,690   |                                       |   |
| 21  | Boardman Plant-Purchase Spare Generator  | 467,226   |                                       |   |
| 22  | Colstrip Plant-Capital Yearend Accrual   | 441,750   |                                       |   |
| 23  | Beaver Plant-Install Remedial Action Scheme  | 339,673   |                                       |   |
| 24  | Construct Carver-McLoughlin 230-Kv Line  | 330,768   |                                       |   |
| 25  | Kelly Butte Sub-Install SCADA System   | 296,930   |                                       |   |
| 26  | Sunset Sub-Install ZVC Switches  | 291,640   |                                       |   |
| 27  | Beaver Plant-Rewind Generator Rotor Unit   | 258,902   |                                       |   |
| 28  | River Mill Plant-Construct Boat Launch   | 256,788   |                                       |   |
| 29  | Carver Sub-Install Carver-Hogan South 115-Kv Line                                  | 230,193   |                                       |   |
| 30  | West Side Hydros-Install Safety (SHARPS) Upgrades                                  | 222,129   |                                       |   |
| 31  | Carver Sub-Install Carver-Canemah 115-Kv Line                                      | 207,999   |                                       |   |
| 32  | Progress Sub-Install SCADA System  | 203,522   |                                       |   |
| 33  | Colstrip Plant-Install Mercury Controls for Units 3 & 4                            | 194,677   |                                       |   |
| 34  | Bald Peak Communication Station-Replace Alarm Monitoring on Communications Systems | 192,831   |                                       |   |
| 35  | Coffee Creek Sub-Build New Substation  | 188,668   |                                       |   |
| 36  | Boardman Plant-Install Superheat Safety Valve                                      | 155,308   |                                       |   |
| 37  | Purchase Helicopter  | 152,666   |                                       |   |
| 38  | Coyote Springs Plant-Add Auto Bus Transfer to 115-Kv Line                          | 139,057   |                                       |   |
| 39  | McGill Sub-Replace WR-1 Transformer  | 131,131   |                                       |   |
| 40  | R. Butte Switchyard-Replace 500-Kv Transformer Reactor Switches                    | 128,360   |                                       |   |
| 41  | Coyote Springs Plant-Automate Heat-Recovery-Steam-Generator (HRSG) Valves          | 122,696   |                                       |   |
|   | Boardman Plant-Extend Dike and Piping at Carty Reservoir                           | 112,260   |                                       |   |
| 43  | TOTAL  | 125,676,924   |                                       |   |

Bonneville Power Administration  
2007 Supplemental Wholesale Power Rate Case Initial Proposal

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WP-07-E-BPA-88  
(BPA-JP6-23)

Attachment B  
Boardman  
Page 2 of 4  
**PGE 2007 Supplemental Wholesale Power Rate Case Data Response**

**DATA REQUEST NUMBER:** BPA-JP6-23

REQUEST DATE: May 15, 2008  
RESPONSE DATE: May 22, 2008  
DIRECTED TO: PGE

REQUESTOR'S NAME: Paul A. Brodie  
AGENCY: BPA

EXHIBIT: WP-07-E-JP6-12

PAGE(S): 37-38

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**DATA REQUEST:**

The above-cited rebuttal testimony addresses the projected costs used in the current rate proceeding. Please provide a copy of annual historical operating budgets for the operation of the Boardman coal plant for the years 2002-2008. Also, please provide the projected operating budgets for the Boardman coal plant to the extent available for CYs 2009-2013.

Paul A Brodie, CPA  
Bonneville Power Rate Staff  
503-230-3414

**PGE RESPONSE:**

See BPA-JP6-23 Attachments A and B for the requested information. Attachment A provides the PGE share of annual historical operating costs for the Boardman coal plant for the years 2002-2007. A copy of the 2008 Boardman Operations budget is provided as Attachment B; the PGE share would be 65% of these totals.

PGE does not have future year projected amounts to be charged to the other owners available. The Operation agreement requires only that a budget be prepared for the next year's activity. Funding of cost activities for the Boardman plant is done weekly with the other owners. Each company is responsible for having funds available as required, including those for capital construction, decommissioning, or any other activities necessary for continued operation.

BPA-JP-23 Attachment A

Portland General Electric  
Response to Data Request: BPA-JP-23  
5/21/2008

2002-2007 Operating Costs for PGE's Share of the Boardman Coal Plant \*

| <u>Line</u> | <u>Operating Cost</u>                   | <u>2002</u>       | <u>2003</u>       | <u>2004</u>       | <u>2005</u>       | <u>2006</u>       | <u>2007</u>       |
|-------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 1           | Production Expenses: Oper. Supv. & Engr | 3,123,338         | 3,197,010         | 4,457,560         | 3,818,762         | 3,742,813         | 4,420,104         |
| 2           | Fuel                                    | 34,998,755        | 37,580,945        | 29,909,037        | 31,124,332        | 22,218,265        | 39,933,425        |
| 3           | Misc Steam Power Expenses               | 1,734,302         | 1,733,390         | 789,729           | 1,432,334         | 1,341,837         | 1,387,631         |
| 4           | Rents                                   | 2,662,404         | 2,726,569         | 2,688,319         | 640,712           | -                 | -                 |
| 5           | Allowances                              | 52,879            | -                 | -                 | -                 | -                 | -                 |
| 6           | Maintenance Supervision and Engineering | 9,645,388         | 9,541,455         | 15,116,268        | 12,396,430        | 11,752,427.00     | 12,370,455        |
| 7           | Maintenance of Misc Steam Plant         | 86,914            | 144,319           | 119,863           | 89,610            | 67,827            | 106,530           |
| 8           |   | <u>52,303,980</u> | <u>54,923,688</u> | <u>53,080,776</u> | <u>49,502,180</u> | <u>39,123,169</u> | <u>58,218,145</u> |

\* Note: PGE Share From page 402 of PGE FERC Form 1

BPA-JP-23 Attachment B

**PORTLAND GENERAL ELECTRIC COMPANY**  
**2008 BOARDMAN COAL PLANT OPERATIONS BUDGET - TOTAL**  
100% Corporate Loadings Included

|                                      | FERC | Final<br>2008<br>BUDGET |
|--------------------------------------|------|-------------------------|
| OPERATIONS                           |      |                         |
| STEAM POWER GENERATING EXPENSES:     |      |                         |
| OPERATIONS SUPV & ENGR               | 500  | 7,086,196               |
| FUEL COST                            | 501  | 1,864,722               |
| MISC STEAM POWER EXPENSES            | 506  | 2,093,620               |
| RENTS                                | 507  | -                       |
| OTHER POWER SUPPLY EXPENSES:         |      |                         |
| MISC OTHER POWER SUPPLY EXPENSE      | 557  | 172,875                 |
| ADMINISTRATIVE AND GENERAL EXPENSES: |      |                         |
| ADMINISTRATIVE & GENERAL             | 921  | 2,330,763               |
| PROPERTY INSURANCE/LEGAL             | 924  | 580,550                 |
| INJURIES AND DAMAGES                 | 925  | 154,695                 |
| EMPLOYEE BENEFITS                    | 926  | 2,872,206               |
| REGULATORY COMMISSION EXPENSES       | 928  | -                       |
| MISC GENERAL EXPENSES                | 930  | 15,000                  |
| TOTAL OPERATIONS                     |      | 17,170,627              |
| STEAM POWER MAINTENANCE EXPENSES:    |      |                         |
| MAINT SUPV & ENGR                    | 510  | 18,812,003              |
| MAINT OF MISC PLANT                  | 514  | 44,738                  |
| MAINT OF LOAD DISPATCHING            | 561  | -                       |
| MAINT OF STATION EQUIP (TRANSMIS.)   | 570  | 45,622                  |
| MAINT OVERHEAD LINES (TRANSMIS.)     | 571  | -                       |
| MAINT OF MISC TRANSMISSION PLANT     | 573  | -                       |
| TOTAL MAINTENANCE                    |      | 18,902,363              |
| FUEL, TAXES, INTEREST AND OTHER:     |      |                         |
| FUEL INVENTORY-COAL PURCHASE         | 151  | 62,346,284              |
| FUEL INVENTORY-COAL FIXED O&M        | 151  | 1,930,798               |
| FUEL INVENTORY-OIL PURCHASE          | 151  | 813,962                 |
| PAYROLL TAXES                        | 408  | 1,016,802               |
| INTEREST EXPENSE                     | 427  |                         |
| OTHER MISC ELECTRIC REVENUES         | 456  | (600,000)               |
| TOTAL FUEL ,TAXES AND INTEREST       |      | 65,507,846              |

**Brodie,Paul A - PFR-6**

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**From:** Valerie Giles [Valerie.Giles@pgn.com]  
**Sent:** Monday, December 15, 2008 9:28 AM  
**To:** Brodie,Paul A - PFR-6  
**Cc:** Forman,Charles W - PSW-6; Bliven,Raymond D - PFR-6; Stefan Brown  
**Subject:** 2009 Boardman Preliminary Budget  
**Attachments:** 2009\_PRE\_budget.xls

Attached is the 2009 preliminary O&M and Capital budget for Boardman provided to the co-owners in September 2009.

Valerie Giles  
Manager, Generation & Asset Accounting  
Portland General Electric  
(503) 464-7307  
(503) 464-2507 Fax  
[Valerie.Giles@pgn.com](mailto:Valerie.Giles@pgn.com)

Attachment C  
Boardman  
Page 2 of 3

**PORTLAND GENERAL ELECTRIC COMPANY**  
**BOARDMAN COAL PLANT OPERATIONS BUDGET COMPARISON - PRELIMINARY**  
100% Corporate Loadings Included

|                                      | FERC    | Preliminary<br>2009<br>BUDGET | Final<br>2008<br>BUDGET | VARIANCE<br>Incr (Decr) |
|--------------------------------------|---------|-------------------------------|-------------------------|-------------------------|
| OPERATIONS                           |         |                               |                         |                         |
| STEAM POWER GENERATING EXPENSES:     |         |                               |                         |                         |
| OPERATIONS SUPV & ENGR               | 500     | 7,081,771                     | 7,086,196               | (4,425)                 |
| FUEL COST                            | 501     | 1,837,111                     | 1,864,722               | (27,611)                |
| MISC STEAM POWER EXPENSES            | 506     | 1,990,633                     | 2,093,620               | (102,987)               |
| RENTS                                | 507     |                               | -                       | -                       |
| OTHER POWER SUPPLY EXPENSES:         |         |                               |                         |                         |
| MISC OTHER POWER SUPPLY EXPENSE      | 557     | 160,341                       | 172,875                 | (12,534)                |
| ADMINISTRATIVE AND GENERAL EXPENSES: |         |                               |                         |                         |
| ADMINISTRATIVE & GENERAL             | 921     | 2,304,675                     | 2,330,763               | (26,088)                |
| PROPERTY INSURANCE/LEGAL             | 924     | 488,183                       | 580,550                 | (92,367)                |
| INJURIES AND DAMAGES                 | 925     | 154,896                       | 154,695                 | 201                     |
| EMPLOYEE BENEFITS                    | 926     | 2,863,196                     | 2,872,206               | (9,010)                 |
| REGULATORY COMMISSION EXPENSES       | 928     |                               | -                       | -                       |
| MISC GENERAL EXPENSES                | 930     |                               | 15,000                  | (15,000)                |
| TOTAL OPERATIONS                     |         | 16,880,806                    | 17,170,627              | (289,821)               |
| STEAM POWER MAINTENANCE EXPENSES:    |         |                               |                         |                         |
| MAINT SUPV & ENGR                    | 510     | 24,297,083                    | 18,812,003              | 5,485,080               |
| MAINT OF MISC PLANT                  | 514     | 42,239                        | 44,738                  | (2,499)                 |
| MAINT OF LOAD DISPATCHING            | 561     |                               | -                       | -                       |
| MAINT OF STATION EQUIP (TRANSMIS.)   | 570     | 55,724                        | 45,622                  | 10,102                  |
| MAINT OVERHEAD LINES (TRANSMIS.)     | 571     |                               | -                       | -                       |
| MAINT OF MISC TRANSMISSION PLANT     | 573     |                               | -                       | -                       |
| TOTAL MAINTENANCE                    |         | 24,395,046                    | 18,902,363              | 5,492,683               |
| FUEL, TAXES, INTEREST AND OTHER:     |         |                               |                         |                         |
| FUEL INVENTORY-COAL PURCHASE         | 151     | 59,460,450                    | 62,346,284              | (2,885,834)             |
| FUEL INVENTORY-COAL FIXED O&M        | 151     | 1,601,966                     | 1,930,798               | (328,832)               |
| FUEL INVENTORY-OIL PURCHASE          | 151     | 1,269,066                     | 813,962                 | 455,104                 |
| PAYROLL TAXES                        | 408     | 1,016,802                     | 1,016,802               | -                       |
| INTEREST EXPENSE                     | 427     |                               | -                       | -                       |
| OTHER MISC ELECTRIC REVENUES         | 456     | (600,000)                     | (600,000)               | -                       |
| TOTAL FUEL ,TAXES AND INTEREST       |         | 62,748,284                    | 65,507,846              | (2,759,562)             |
| SUBTOTAL                             |         | 104,024,136                   | 101,580,835             | 2,443,300               |
| CHANGE IN WORKING CAPITAL:           |         |                               |                         |                         |
| PLANT MATERIALS AND SUPPLIES         | 154     |                               |                         | -                       |
| STORES EXPENSE UNDISTRIBUTED         | 163     | 630,217                       | 718,976                 | (88,759)                |
| PREPAYMENTS                          | 165     | 24,000                        | 23,086                  | 914                     |
| PRELIMINARY SURVEY & INVESTIGATION   | 183     | 1,715,000                     | 2,343,723               | (628,723)               |
| CLEARING ACCOUNT - MATERIAL O/H DIST | 184     | (265,848)                     | (265,848)               | -                       |
| MISC. DEFERRED DEBITS                | 186     |                               |                         | -                       |
| OTHER LONG TERM DEBT                 | 224     |                               |                         | -                       |
| DISCOUNT ON LONG TERM DEBT           | 226     |                               |                         | -                       |
| INJURIES AND DAMAGES PROVISION       | 228     | 35,000                        | 36,000                  | (1,000)                 |
| ACCOUNTS PAYABLE                     | 232     | (6,194,852)                   | (6,219,851)             | 24,999                  |
| TOTAL CHANGES IN WORKING CAPITAL     |         | (4,056,483)                   | (3,363,914)             | (692,569)               |
| SUBTOTAL                             |         | 99,967,653                    | 98,216,921              | 1,750,731               |
| CONSTRUCTION/RETIREMENTS             | 107/108 | 11,364,709                    | 8,803,660               | 2,561,049               |
| TOTAL FUNDING REQUESTED              |         | 111,332,362                   | 107,020,581             | 4,311,781               |

note: used 2008 loadings so differences are direct items

**PORTLAND GENERAL ELECTRIC COMPANY  
BOARDMAN COAL PLANT  
2009 PRELIMINARY CAPITAL BUDGET**

100% with Corporate Loadings Included

| Job # | Title                                       | 100% Plant<br>Preliminary<br>Budget |
|-------|---|-------------------------------------|
| C9300 | Furniture                                   | 10,319                              |
| CN089 | Portable Electrical Instruments             | 51,594                              |
| CN094 | Minor Tools & Equipment                     | 41,275                              |
| 19888 | Vintage Computers                           | 10,319                              |
| 21616 | New Coal Dust Suppression System            | 61,913                              |
| 22819 | Install New Secondary Air Preheater Baskets | 104,059                             |
| 23260 | Miscellaneous Pumps, Valves, Motors, etc.   | 454,912                             |
| 24069 | Install Platforms (2009)                    | 30,956                              |
| 24226 | Generator Rotor                             | 1,602,399                           |
| 24554 | Rewind Generator Stator                     | 6,478,165                           |
| 24555 | Install New Cooling Water Supply Skid       | 119,530                             |
| 24559 | Generator DCS Connection                    | 332,453                             |
| 24561 | Generator Start-up Testing & Tuning         | 256,876                             |
| 25146 | Desktop Vintage & Growth                    | 80,497                              |
| 25350 | Install Type K Pneumatic Controllers - 2009 | 58,198                              |
| 25421 | Backup Communications Upgrade               | 9,906                               |
| 25446 | Upgrade Coal Car Dumper Drives              | 41,275                              |
| 25452 | Upgrade AWS Building HVAC Chillers          | 167,742                             |
| 25519 | Upgrade Coal Yard PLC Control System        | 1,055,459                           |
| 25529 | Replace Coal Conduit Bends                  | 154,782                             |
| X0045 | Misc Jobs to be identified                  | 242,079                             |
| TOTAL |   | <u>11,364,709</u>                   |





December 17, 2008  
ES-266-2008  
Gov Rel 9

Mr. Brian Finneran  
Oregon Department of Environmental Quality  
811 SW Sixth Ave  
Portland, OR 97204

**Re: Preliminary Comments on Proposed Regional Haze Rules**

Dear Brian:

Portland General Electric Company (PGE) appreciates this opportunity to comment on the proposed Regional Haze rulemaking. As you know, the proposed rules are the result of the federal requirement that Oregon submit an initial implementation plan for regional haze (the Regional Haze SIP). This plan must include a determination of Best Available Retrofit Technology (BART) for each BART-eligible source in the state that emits any air pollutant which may reasonably be anticipated to cause or contribute to visibility impairment in any mandatory Class I area. 40 CFR § 51.308(e)(1)(ii). The federal Clean Air Act contains specific criteria for establishing BART and these criteria are carried over into the regulations. In developing these regulations, EPA also promulgated guidelines to be used by the states in developing BART determinations. These guidelines, found in 40 CFR § 51 Appendix Y, contain the majority of the detail regarding how BART determinations are to be conducted.

**I. Background**

On November 2, 2007, PGE submitted a BART analysis for its coal-fired power plant located in Boardman, Oregon (the Boardman plant).<sup>1</sup> Sources in existence on August 7, 1977 and that both fall into one of the designated source categories and have the potential to emit more than 250 tons per year of a haze-causing pollutant are required to determine BART if they cause or contribute to visibility impairment in a mandatory Class I area. 40 CFR § 51.308(e). DEQ previously determined that the Boardman power plant was in existence, as that term is defined in the federal

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<sup>1</sup> The Foster-Wheeler boiler is identified by the U.S. Environmental Protection Agency (EPA) as acid rain program ORISPL code 6106.

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Regional Haze program, on August 7, 1977.<sup>2</sup> The Boardman plant emits more than 250 tons per year of NO<sub>x</sub>, SO<sub>2</sub> and PM, is in one of the designated source categories and was determined by the Oregon Department of Environmental Quality (DEQ or Department) to cause visibility impairment in at least one mandatory Class I area. Therefore, PGE engaged an extensive group of experts that assisted the company in preparing a BART determination for the Boardman plant. This report was submitted on November 2, 2007 and subsequently supplemented in response to dozens of questions posed by various state and federal agencies and interested third parties. The team of experts concluded that for the Boardman plant BART constituted the installation of new low-NO<sub>x</sub> burners with a modified overfire air system for NO<sub>x</sub> control and the installation of a semi-dry scrubbing system with fabric filters for SO<sub>2</sub> and PM control. PGE concluded that due to the long lead time and complex engineering challenges the company needed five years from the date that the Regional Haze SIP is approved in order to engineer, bid, procure, install and start up the semi-dry scrubbing system. Federal law authorizes DEQ to allow up to five years from the date EPA approves the Regional Haze SIP. 40 CFR § 51.308(e)(1)(iv).

On December 1, 2008, the Department issued the proposed Regional Haze proposal for public comment. The proposal includes new regulations that would require the installation of the controls identified below.

| Limit (Assumed Control)  | Installation Deadline | Authority           |
|--|-----------------------|---------------------|
| 0.23 lb NO <sub>x</sub> /MMBtu (Low-NO <sub>x</sub> Burners/Overfire Air)* | 7/1/2011              | BART                |
| 0.12 lb SO <sub>2</sub> /MMBtu<br>0.012 lb PM/MMBtu<br>(Semi-Dry Scrubber) | 7/1/2014              | BART                |
| 0.070 lb NO <sub>x</sub> /MMBtu (SCR)                                      | 7/1/2017              | Reasonable Progress |

\* If LNB/OFA doesn't meet limit, SNCR required by 7/1/2014

<sup>2</sup> 40 CFR § 51.301 defines "in existence on August 7, 1977" as "meaning that the owner or operator has obtained all necessary preconstruction approvals or permits required by Federal, State, or local air pollution emissions and air quality laws or regulations and either has (1) begun, or caused to begin, a continuous program of physical on-site construction of the facility or (2) entered into binding agreements or contractual obligations, which cannot be cancelled or modified without substantial loss to the owner or operator, to undertake a program of construction of the facility to be completed in a reasonable time."

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The Department's proposed BART determination is consistent with the controls determined to be BART by PGE's experts. However, the schedule proposed for installation of the semi-dry scrubber system is shorter than that proposed by PGE. DEQ anticipates presenting the final BART determination package to the Environmental Quality Commission (EQC) at its April 2009 meeting. Assuming the EQC adopts the package in April 2009, it must then be submitted to EPA for approval into the State Implementation Plan (SIP). This process is anticipated to take a minimum of six months and more likely a year or longer. Assuming that EPA does not approve the Regional Haze SIP until July 1, 2010, the proposed rule does not provide all of the time allowed for PGE to install the semi-dry scrubbers.

Although all that is required of DEQ at this time is to promulgate BART, DEQ chose to go further and also impose a requirement under the future "Reasonable Progress" program. The first stage of the Regional Haze program is to determine and require BART. However, each state must subsequently develop a plan to ensure that by 2064 visibility is restored to pre-human levels in mandatory Class I areas (BART and Reasonable Progress controls are evaluated based on benefits to mandatory Class I areas only). Consistent with this requirement, states must submit SIPs containing emissions limits, schedules of compliance and other measures as may be necessary to make reasonable progress toward meeting the 2064 visibility goal. DEQ must also demonstrate to EPA every ten years that the state is making reasonable progress towards the ultimate visibility improvement goal. These "Reasonable Progress" demonstrations do not require any determination of controls on stationary sources at this time and we are aware of no western state making Reasonable Progress based control determinations at the same time that the state is making BART determinations. For example, California just released its draft Regional Haze SIP and it is proposing no stationary source Reasonable Progress control determinations. Nonetheless, the Department has proposed as part of this rulemaking that the Boardman plant be required to install additional NOx controls, specifically selective catalytic reduction (SCR), in 2017. These controls were demonstrated not to constitute BART due to their extreme cost and their limited effectiveness in addressing visibility impacts.

PGE has reviewed the Department's proposed BART and Reasonable Progress rules in light of this regulatory and statutory background. Based on our review, we have the following comments.

## **2. Comments on Proposed NOx BART Rule**

### **NOx BART Limit Determination**

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PGE supports the Department's NOx BART determination. The proposed NOx BART determination will reduce NOx from the Boardman plant by approximately 46% from current levels by preventing the formation of NOx in the first place. While this comes at a significant capital expense, we believe that these controls constitute BART and note that the Department's determination is consistent with BART determinations throughout the western U.S. We believe that the determination of feasible control level is aggressive and concur with the Department that it is appropriate to determine compliance with the 0.23 lb/MMBtu heat input limit based on a rolling 12-month average.

#### NOx BART Compliance Schedule

PGE generally supports the NOx BART installation schedule, but notes that compliance with these deadlines is dependent on EPA approving the Regional Haze SIP and DEQ approving the necessary preconstruction permits in a timely manner. Because of the need to know with certainty that the SIP is approved and the need for preconstruction permits prior to commencing construction, PGE is faced with potentially critical delays beyond its control. In order to avoid PGE being placed in the untenable position of having to proceed with millions of dollars worth of controls in the absence of clear regulatory or permit authority, PGE requests that DEQ add language authorizing the Department to delay installation of the controls in the event of delays beyond PGE's reasonable control. We recognize that under federal law the Department cannot extend the compliance deadline by more than five years after EPA approves the portion of the SIP containing the NOx BART limits.

Neither PGE nor the Department can have absolute certainty that EPA will approve the Regional Haze SIP. Therefore, PGE believes that it is critical to add language to the proposed rules specifying that if the Regional Haze SIP provisions relating to the NOx BART determination is disapproved that PGE is not required to proceed with installation of the controls as a matter of state rule. If EPA disapproves the SIP provisions mandating controls, that agency will presumably require some other approach. Therefore, we suggest that the proposed rules provide a mechanism for staying the control requirements in the event that EPA disapproves the SIP provisions mandating controls.

### 3. Comments on Proposed SO<sub>2</sub> BART Rule

#### SO<sub>2</sub> BART Limit Determination

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PGE supports the Department's SO<sub>2</sub> BART determination. The proposed SO<sub>2</sub> BART determination will reduce SO<sub>2</sub> from the Boardman plant by approximately 80% from current levels through the installation of a semi-dry scrubber system. While this technology comes at both a capital expense and generation efficiency penalty, we agree that these controls constitute BART and note that the Department's determination is consistent with or more aggressive than BART determinations throughout the western U.S. We concur with the Department that it is appropriate to determine compliance with the 0.12 lb/MMBtu heat input limit based on a rolling 30-day average basis.

#### SO<sub>2</sub> BART Compliance Schedule

PGE generally supports the SO<sub>2</sub> BART installation schedule, but notes that compliance with the deadline is also dependent on EPA approving the Regional Haze SIP and DEQ approving the necessary preconstruction permits in a timely manner. As noted above PGE needs to know with certainty that the SIP is approved and that it has all permits in hand prior to commencing construction of several hundred million dollars worth of control equipment. In addition, if EPA does not approve the portions of the Regional Haze SIP containing the SO<sub>2</sub> limits in a reasonable time frame then PGE will not have enough time to procure and install the controls. Therefore, we suggest that either DEQ change the installation deadline to be five years from the date of EPA approval of the relevant portions of the Regional Haze SIP or that DEQ add a provision to the rules extending the deadline to five years post-SIP approval in the event that EPA does not approve these portions of the SIP by the end of 2009.

#### Alternative SO<sub>2</sub> BART Determination

PGE also requests that DEQ add an alternative SO<sub>2</sub> BART determination to the proposed regulations. Section 169A(g) of the Clean Air Act specifies that BART determinations must take into account the remaining useful life of the BART eligible emission unit. See, also 40 CFR § 51.308(e)(1)(ii)(A). EPA stated that this factor should be accounted for in assessing the cost impacts of a particular control technology. 70 Fed. Reg. 39127 (July 6, 2005). In its November 2007 BART determination PGE noted that the possible premature cessation of operations of the coal-fired boiler may be appropriate for consideration in determining BART. Consistent with 40 CFR § 51, App Y Section IV(D)(4)(k) ("How do I take into account a project's 'remaining useful life' in calculating control costs"), PGE recognized the possibility that it might be necessary to include a regulatory scenario that anticipated the early closure of the Foster-Wheeler boiler. Based on the continued uncertainties about fuel cost/availability, replacement power, carbon regulation, control technologies and combustion technologies, PGE believes that

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including an alternative to the proposed BART determination is appropriate. EPA specifically anticipated sources needing flexibility and seeking alternatives, and addressed this possibility in Section IV(D)(4)(k)(3) of 40 CFR § 51, App Y. In evaluating the cost-effectiveness of the proposed SO<sub>2</sub> controls, PGE assumed that the controls would be in place and operational for twenty years. As a result, the annualized capital cost was amortized over the full twenty-year life of the control device. We believe that it is consistent with the Clean Air Act and EPA's regulations to include an alternate BART determination for SO<sub>2</sub> that reflects a shorter facility life than the twenty-year life assumed in the current evaluation.

Incorporating an alternative SO<sub>2</sub> BART determination into the Oregon BART rules provides PGE the flexibility needed to best protect its customers while protecting the environment. PGE is requesting the option to assume a federally enforceable permit limit requiring cessation of the Foster-Wheeler boiler operations by the end of 2020 in lieu of installing the semi-dry scrubbers. In order to ensure adequate time to incorporate the permit limit into its permit as well as to ensure that the permit limit was in place prior to the 2014 deadline for installing the SO<sub>2</sub> controls, PGE would need to apply for this federally enforceable limit no later than July 1, 2012. If PGE submitted an application requesting the condition by that date, and responded in a timely fashion to any Department requests, PGE would be required to terminate operation of the Foster-Wheeler boiler by 2020. Alternatively, if PGE did not submit an application by July 1, 2012 requesting the permit limit, PGE would be bound by the Department's proposed SO<sub>2</sub> BART compliance deadlines and would have to install the semi-dry scrubbers by July 1, 2014. Both options, including the requirement to submit the permit limit application by July 1, 2012, would be placed in the rules. PGE, with guidance from the Oregon Public Utilities Commission (OPUC) and stakeholders, would then need to decide no later than July 1, 2012 whether to install the SO<sub>2</sub> BART controls or cease operating the Foster-Wheeler boiler by the end of 2020.

Incorporating the recommended alternative SO<sub>2</sub> BART determination with the 2012 decision point into the Oregon BART rules is consistent with all federal requirements. As noted above, not only is there no prohibition on the Department incorporating alternative BART options, Appendix Y to the federal BART regulations states that alternatives are permissible so long as each option independently meets the BART criteria. 40 CFR § 51, App Y, Section IV(D)(4)(k). The 2020 alternative BART determination clearly meets the BART criteria. As noted above, the Clean Air Act requires consideration of the remaining useful life of the plant. EPA's rules recognize that if the remaining useful life is limited by permit condition then the cost-effectiveness needs to be determined based on amortizing the capital cost over the reduced equipment life. The cost-effectiveness of the semi-dry scrubbers based on a useful life of 6.5 years (i.e., the number of years after July 1, 2014 that the control would be operated if the Foster-



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Wheeler boiler ceased operation in 2020) is approximately \$5,200 per ton of SO<sub>2</sub> controlled (see attached spreadsheet for details of cost-effectiveness evaluation).<sup>3</sup> This cost-effectiveness far exceeds the range of SO<sub>2</sub> cost-effectiveness evaluated by EPA in establishing the presumptive BART limits. In EPA's assessment they looked at costs ranging from \$400/ton to \$2,000/ton. The cost-effectiveness of the semi-dry scrubbers if operated only 6.5 years would be almost triple the high end of the range of what EPA considered cost-effective. Therefore, with only a 6.5-year operational life it is appropriate to consider BART to require no additional SO<sub>2</sub> controls so long as the Foster-Wheeler boiler is required to cease operation by the end of 2020. This determination would not affect the requirement to operate the NOx BART controls and nor would it affect PGE's obligation to control mercury emitted from the boiler.

It is also appropriate to consider the alternative SO<sub>2</sub> BART determination in light of the long term benefits to the environment provided by both options. If the plant installed the proposed BART controls (i.e., low-NOx burners, modified overfire air and semi-dry scrubbers) and operated through 2040, the aggregate visibility pollutant (i.e., NOx, SO<sub>2</sub> and PM) emissions calculated on a potential to emit basis would total 336,358 tons.<sup>4</sup> If the proposed NOx/SO<sub>2</sub> BART controls and SCR were installed, the aggregate visibility pollutant emissions through 2040 would total 237,149 tons. If NOx BART but no other controls were installed on the boiler and the boiler ceased operation at the end of 2020, 232,453 tons of visibility pollutants would be emitted. A comparison of the aggregate emissions is presented below.

| Controls Installed          | Boiler Operated Through | Total Visibility Pollutant Emissions (tons) |                 |        |           |
|-----------------------------|-------------------------|---|-----------------|--------|-----------|
|                             |                         | NOx   | SO <sub>2</sub> | PM     | Aggregate |
| LNB/OFA                     | 12/31/2020              | 63,588                                      | 158,311         | 10,554 | 232,453   |
| LNB/OFA and SD scrubbers    | 12/31/2040              | 184,960                                     | 139,313         | 12,084 | 336,358   |
| LNB/OFA, SD Scrubbers & SCR | 12/31/2040              | 85,752                                      | 139,313         | 12,084 | 237,149   |

Notes: All computations start 1/1/2011; emissions calculations based on plant potential to emit.

<sup>3</sup> Section 4(k)(2) of Appendix Y specifies that the remaining useful life of a control is the difference between the date the controls would go into place and the date the controlled unit permanently stops operation.

<sup>4</sup> 2040 is the current projected life of the Foster-Wheeler boiler that was identified in PGE's BART analysis. However, there is no legal requirement to cease operation of the boiler at that time and the actual life of the boiler could be longer.

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These suggested revisions are consistent with the BART requirements, are environmentally beneficial and also provide additional benefits. As the Department knows, the electrical generation business is in a time of tremendous transition. Over the next decade we anticipate tremendous advances in both electricity generation and control technology (e.g., carbon capture and sequestration). In addition, we anticipate that carbon will become subject to regulation. The full costs and benefits of these changes cannot be fully assessed at this time. However, by the time that PGE must decide whether to apply for its federally enforceable condition requiring cessation of operation of the Foster-Wheeler boiler or install the SO<sub>2</sub> BART controls, both PGE and the OPUC likely will have a better idea of the best future for the Boardman plant. As the Department knows, PGE is also regulated by the OPUC, and resource decisions such as the installation of BART controls must be fully vetted in the OPUC's Integrated Resource Planning (IRP) process. That process includes extensive public and stakeholder input and detailed modeling of resource decisions to yield the best combination of expected costs and risks. By building this decision point into the BART rules, it will help ensure that the decisions regarding Boardman are made with the most complete information. By enabling a more comprehensive and reasoned decision making process on the future of Boardman we also anticipate that DEQ will reduce the fiscal impacts to businesses in Oregon as compared to the Department's proposed BART rules.

#### Startup, Shutdown and Malfunction Exemption

We appreciate the recognition in the proposed rules that the technology based limits do not apply during startups and shutdowns. EPA was clear in the BART regulations that startups and shutdowns were not normal operating conditions and that the BART visibility impact assessment was intended to assess normal operating conditions. Therefore, we believe that it is appropriate to not include periods of startup and shutdown in determining compliance. However, it is equally true that the controls cannot be anticipated to perform as designed during a malfunction (defined under federal law, see, e.g. 40 CFR 63.2, as an upset that is not reasonably foreseeable or preventable and not resulting from inadequate design or maintenance). Therefore, we suggest that the regulations similarly note that malfunction periods should similarly not be included when evaluating whether the controls are operating properly and compliance is being achieved.

#### PM Limit Error

The proposed BART rule identifies the PM limit as 0.12 lb/MMBtu heat input, but PGE's BART determination and the Department's documentation indicate that it should read "0.012 lb/mmBtu heat input." We believe this was just a typographical error.



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Recommended BART Rule Edits

For the reasons stated above, we request that section 1 of the proposed OAR 340-223-0030 (the Boardman BART rule) be revised as follows:

**340-223-0030**

**BART Requirements for the Foster-Wheeler boiler at the Boardman Coal-Fired Power Plant (Federal Acid rain program facility ORISPL code 6106)**

(1) Emissions limits:

(a) On and after July 1, 2011, nitrogen oxides emissions must not exceed 0.28 lb/mmBtu heat input as a 30-day rolling average and 0.23 lb/mmBtu heat input as a 12-month rolling average.

(A) If it is demonstrated by July 1, 2012 that the emission limits in (a) cannot be achieved with combustion controls, the Department may grant an extension of compliance to July 1, 2014.

(B) If an extension is granted, the nitrogen oxides emissions must not exceed 0.23 lb/mm Btu heat input as a 30-day rolling average on and after July 1, 2014.

(b) On and after July 1, 2014, sulfur dioxide emissions must not exceed 0.12 lb/mmBtu heat input as a 30-day rolling average.

(c) On and after July 1, 2014, particulate matter emissions must not exceed 0.012 lb/mmBtu heat input as determined by compliance source testing.

(d) The emission limits in (a) through (c) above do not apply during periods of startup, or shutdown or malfunction.

(e) The emission limits in (b) and (c) above do not apply if the operator has assumed a federally enforceable permit condition prior to July 1, 2014 requiring that the Foster-Wheeler boiler cease emissions by December 31, 2020. In order to ensure adequate time for the Department to process the permit modification by this deadline, the request for the federally enforceable permit condition must be submitted to the Department no later than July 1, 2012. If the permittee submits a permit application requesting the permit limit on or before July 1, 2012 and submits to all Department information requests associated with the application in a timely manner, the permittee shall be deemed to have the permit condition in place.

(f) The emission limits in (a), (b) and (c) above do not apply if EPA disapproves the portion of the Regional Haze SIP containing these limits or that portion of the Regional Haze SIP is otherwise invalidated.

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(g) If EPA fails to approve the portion of the Regional Haze SIP containing the emission limits and compliance deadlines in (b) and (c) above by December 31, 2009, then those deadlines shall automatically change to five years after approval of the portion of the Regional Haze SIP containing these limits and deadlines.

(h) The Department may extend the deadlines in (a), (b) and (c) above to account for delays beyond the reasonable control of the permittee, including delays in the issuance of permits authorizing construction of the controls. The Department may not extend the compliance deadline more than five years after the date that EPA approves the portion of the Regional Haze SIP containing these limits and deadlines.

#### **4. Comments on Proposed Reasonable Progress Rule**

##### **SCR Is Not Justified by Reasonable Progress Requirements**

PGE has significant concerns regarding DEQ's proposal that SCR is required under the Reasonable Progress program. In the November 2007 BART determination report, PGE demonstrated that SCR is not BART for the Boardman boiler. The technology is not cost-effective, does not provide material benefits to visibility in the mandatory Class 1 areas and has material non-air quality environmental impacts. For all these reasons DEQ reasonably concluded that SCR is not BART. Section 169A(g)(1) of the federal Clean Air Act mandates that the same considerations must be applied in determining what constitutes Reasonable Progress controls. Therefore, for the same reasons that DEQ determined that SCR did not constitute BART, it should not consider SCR to be required by Reasonable Progress.

##### **DEQ Has No Basis For Imposing Reasonable Progress Requirements on Boardman At This Time**

PGE is similarly concerned about DEQ's choice to proceed at this time with a Reasonable Progress determination for the Boardman Plant while not considering Reasonable Progress for any other emission sources in Oregon. We are not aware of any other state in the western U.S. addressing additional controls under Reasonable Progress at this time. The Reasonable Progress assessment in the Department's proposed Regional Haze SIP states that "it is not reasonable to require controls" for any of the stationary source categories reviewed and notes that the Department will be developing guidance for conducting Reasonable Progress control

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determinations over the next five years. Proposed Regional Haze Plan at 171. Putting aside the fact that for the reasons stated in the previous paragraph SCR does not meet the Reasonable Progress guidelines established by statute and EPA guidance, it is arbitrary for DEQ to single out one source for a program that is otherwise in its nascent stages and where no other source in the state is under consideration. For these reasons we propose that DEQ not include the Reasonable Progress component in the BART rules. DEQ can address Reasonable Progress for the Boardman plant when it develops its Reasonable Progress SIP for the state as a whole.

#### Alternative Reasonable Progress Determination

Even if DEQ were to proceed with Reasonable Progress at this time for the Boardman Plant and SCR was determined to constitute a Reasonable Progress control, we believe that DEQ should include an alternative determination similar to what is proposed above for BART. EPA's June 2007 EPA Reasonable Progress guidance states:

"The fourth statutory factor is 'the remaining useful life of any existing source subject to [reasonable progress] requirements.' This factor is generally best treated as one element of the overall cost analysis. The "remaining useful life" of a source, if it represents a relatively short time period, may affect the annualized costs of retrofit controls. For example, the methods for calculating annualized costs in EPA's *Air Pollution Control Cost Manual* require the use of a specified time period for amortization that varies based upon the type of control. If the remaining useful life of the source will clearly exceed this time period, the remaining useful life factor has essentially no effect on control costs and on the reasonable progress determination process. Where the remaining useful life of the source is less than the time period for amortizing the costs of the retrofit control, you may wish to use this shorter time period in your cost calculations."

This statement supports a similar approach to that required under BART where a shorter facility life is taken into account when determining cost-effectiveness. In evaluating the cost-effectiveness of SCR, PGE assumed that the controls would be in place and operational for twenty years. As a result, the annualized capital cost was amortized over the full twenty-year life of the control device. We believe that it is consistent with the Clean Air Act and EPA's regulations to include an alternate Reasonable Progress determination for NOx that reflects a shorter facility life.

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If DEQ proceeds with requiring SCR as Reasonable Progress, PGE recommends incorporating an option under which PGE may assume a federally enforceable permit limit requiring cessation of the Foster-Wheeler boiler operations by 2029. In order to ensure adequate time to incorporate the permit limit into its permit as well as to ensure that the permit limit is in place prior to the 2017 deadline currently proposed for installing SCR, PGE would need to apply for this federally enforceable limit no later than July 1, 2015. If PGE submitted an application requesting the condition by that date, and responded in a timely fashion to any Department requests, it would be required to terminate operation of the Foster-Wheeler boiler by 2029. Alternatively, if PGE did not submit an application by July 1, 2015 requesting the permit limit, PGE would be bound by the Department's proposed Reasonable Progress NO<sub>x</sub> control compliance deadline and would have to install SCR by July 1, 2017. Both options, including the requirement to submit the permit limit application by July 1, 2015, would be placed in the rules. PGE, with guidance from the OPUC and stakeholders, would then need to decide no later than July 1, 2015 whether to install SCR or cease operating the Foster-Wheeler boiler by the end of 2029.

Incorporating the recommended option into the Oregon Reasonable Progress rules is consistent with all federal requirements. As with BART, there is no prohibition on the Department incorporating alternative Reasonable Progress options so long as each option independently meets the Reasonable Progress criteria. The alternative Reasonable Progress option clearly meets all the statutory and regulatory criteria. As noted above, the Section 169A of the federal Clean Air Act requires consideration of the remaining useful life of the plant for both BART and Reasonable Progress determinations. EPA's rules recognize that if the remaining useful life is limited by permit condition then the cost-effectiveness needs to be determined based on amortizing the capital cost over the reduced equipment life. 40 CFR 51, App. Y Section IV(D)(4)(k). The cost-effectiveness of the SCR based on a useful life of 12.5 years (i.e., the number of years after July 1, 2017 that the control would be operated if the plant had to close by the end of 2029) is over \$7,300 per ton of NO<sub>x</sub> controlled. This cost-effectiveness far exceeds the range of NO<sub>x</sub> cost-effectiveness evaluated by EPA in establishing the presumptive BART limits. In EPA's assessment they looked at costs ranging from \$100/ton to \$1,000/ton. The cost-effectiveness of the SCR if operated only 12.5 years would be over seven times greater than the high end range of what EPA considered cost-effective. Therefore, with only a 12.5-year operational life it is appropriate to consider the cessation of operation of the Foster-Wheeler boiler by the end of 2029 to constitute Reasonable Progress. This determination would not affect the requirement to operate the NO<sub>x</sub> and SO<sub>2</sub> BART controls and nor would it affect PGE's obligation to control mercury from the boiler.

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It is also appropriate to consider the alternative of cessation of the Foster-Wheeler boiler operations at the end of 2029 to be Reasonable Progress in light of the long term benefits to the environment provided by both options. If the plant installed the proposed BART controls (i.e., low-NOx burners, modified overfire air and semi-dry scrubbers) and operated through 2040, the aggregate visibility pollutant emissions calculated on a potential to emit basis would total 336,358 tons. If the BART controls and SCR were installed, the aggregate visibility pollutant emissions through 2040 would total 237,149 tons. If the BART controls were installed on the boiler, no SCR was installed, and the boiler ceased operation at the end of 2029, then 231,292 tons of visibility pollutants would be emitted. By not installing the SCR, a material quantity of ammonia emissions would be avoided. A comparison of the aggregate emissions is presented below.

| Controls Installed          | Boiler Operated Through | Total Emissions (tons) |                 |        |           |
|-----------------------------|-------------------------|------------------------|-----------------|--------|-----------|
|                             |                         | NOx                    | SO <sub>2</sub> | PM     | Aggregate |
| LNB/OFA and SD scrubbers    | 12/31/2029              | 118,208                | 104,485         | 8,602  | 231,292   |
| LNB/OFA and SD scrubbers    | 12/31/2040              | 184,960                | 139,313         | 12,084 | 336,358   |
| LNB/OFA, SD Scrubbers & SCR | 12/31/2040              | 85,752                 | 139,313         | 12,084 | 237,149   |

Notes: All computations start 1/1/2011; emissions calculations based on plant potential to emit.

These suggested revisions are consistent with the Reasonable Progress requirements, are environmentally beneficial and also provide additional benefits. As we discussed above, the electrical generation business is in a time of tremendous transition. Over the next decade we anticipate tremendous advances in both electricity generation and control technology (e.g., carbon capture and sequestration). In addition, we anticipate that carbon will become subject to regulation. The full costs and benefits of these changes cannot be fully assessed at this time. However, by the time that PGE must decide whether to apply for its federally enforceable condition requiring cessation of operation of the Foster-Wheeler boiler or install SCR, both PGE and the Oregon Public Utilities Commission will have a much better idea of the best future for the Boardman plant. By building this decision point into the Reasonable Progress rules, it is possible to ensure that the decisions regarding Boardman are made with the most complete information. By enabling a more comprehensive and reasoned decision making process on the future of Boardman we also anticipate that DEQ will reduce the fiscal impacts to businesses in Oregon as compared to the Department's proposed rulemaking.

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Startup, Shutdown and Malfunction Exemption

As noted above in relation to the BART controls we appreciate the recognition in the proposed rules that the technology based Reasonable Progress limit does not apply during startups and shutdowns. EPA was clear in the BART regulations that startups and shutdowns were not normal operating conditions and that the BART visibility impact assessment was intended to assess normal operating conditions. Therefore, we believe that it is appropriate to not include periods of startup and shutdown in determining compliance. However, it is equally true that the controls cannot be anticipated to perform as designed during a malfunction (defined under federal law as an upset that is not reasonably foreseeable or preventable and not resulting from inadequate design or maintenance). Therefore, we suggest that the regulations similarly note that malfunction periods should similarly not be included when evaluating whether the controls are operating properly and compliance is being achieved.

For the reasons stated above, we request that the proposed OAR 340-223-0040 (the Boardman Reasonable Progress rule) be revised as follows:

**340-223-0040**

**Additional NO<sub>x</sub> Requirements for the Foster-Wheeler boiler at the Boardman Coal-Fired Power Plant (Federal Acid rain program facility ORISPL code 6106)**

(1) On and after July 1, 2017, nitrogen oxides emissions must not exceed 0.070 lb/mmBtu heat input, excluding periods of startup, ~~or~~ shutdown or malfunction.

(a) Compliance with the NO<sub>x</sub> emissions limit must be determined with a continuous emissions monitoring system in accordance with OAR 340-223-0030(2) and (3).

(b) The Department must be notified in writing within 7 days after any control equipment used to comply with the emission limit begins operation.

(c) A compliance status report, including CEMS data, must be submitted by January 1, 2018.

(d) The emission limit in (1) above does not apply if the operator has assumed a federally enforceable permit condition prior to July 1, 2017 requiring that the Foster-Wheeler boiler cease emissions by December 31, 2029. In order to ensure adequate time for the Department to process the permit modification by this deadline, the request for the federally enforceable permit condition must be submitted to the Department no later than July 1, 2015. If the permittee submits a permit application

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requesting the permit limit on or before July 1, 2015 and submits to all Department information requests associated with the application in a timely manner, the permittee shall be deemed to have the permit condition in place.

(e) The emission limit in (1) above does not apply if EPA disapproves the portion of the Regional Haze SIP containing that limit or that portion of the Regional Haze SIP is otherwise invalidated.

(f) If EPA fails to approve the portion of the Regional Haze SIP containing the emission limit and compliance deadline in (1) above by December 31, 2009, then those deadlines shall automatically change to eight years after approval of the portion of the Regional Haze SIP containing these limits and deadlines.

## **5. Conclusion**

Attached please find spreadsheets documenting the cost-effectiveness values stated in our comments above as well as the comparative emissions between the different BART and Reasonable Progress alternatives. Please consider these spreadsheets to be an addendum to our November 2007 report. You will also find a flow diagram that visually presents the proposed alternative BART and Reasonable Progress determinations.

Thank you for your consideration of these comments. As you know, the OPUC and PGE must engage in a public IRP process that includes considering alternatives to the emission controls. By incorporating the BART and Reasonable Progress alternatives discussed above DEQ will better align the DEQ and OPUC processes. This protects the best interests of PGE, its customers and the Oregon economy while also satisfying all state and federal requirements, including protection of Oregon air quality. Therefore, we believe that it provides an important improvement to the proposed rules. We hope that DEQ will recognize these benefits, incorporate our suggested edits into the proposed rule and re-notice the package so as to enable the greatest degree of public participation.

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December 17, 2008  
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Please contact me if you have any questions or would like to discuss these comments further.

Sincerely,

A handwritten signature in black ink, appearing to read "Arya Behani-Divers", followed by a horizontal line.

Arya Behani-Divers

cc: Stephen Quennoz  
Loren Mayer

Attachments: Tables 1-4  
Flow Diagram



**Table 1 - Cost Effectiveness Calculations for Alternative Evaluation Periods**

| <b>SCR Cost Effectiveness Calculations for Reasonable Progress (NO<sub>x</sub>)</b> |              |
|---|--------------|
| End of Evaluation Period, end of year   | 2,029        |
| Years of Operation post-July 2017   | 12.5         |
| Capital Recovery Factor (%)   | 12.27        |
| Annualized Cost of SCR (1000\$) after LNB/OFA in 2011                               | 28,446       |
| Reduced NO <sub>x</sub> Emissions for SCR after LNB/OFA (tons/yr)                   | 3,890        |
| <b>Cost Effectiveness of SCR (\$/ton) after LNB/OFA in 2011</b>                     | <b>7,312</b> |
| <b>Semi-Dry FGD Cost Effectiveness Calculations for BART (SO<sub>2</sub>)</b>       |              |
| End of Evaluation Period, end of year   | 2,020        |
| Years of Operation post-July 2014   | 6.5          |
| Capital Recovery Factor (%)   | 19.68        |
| Annualized Cost of Semi-Dry FGD (1000\$)  | 61,935       |
| Reduced SO <sub>2</sub> Emissions (tons/yr)   | 11,988       |
| <b>Cost Effectiveness of Semi-Dry FGD (\$/ton)</b>                                  | <b>5,167</b> |

Table 2 - LNB/OFA Installed in 2011 (No SDA//FF or SCR)

| Year                     | NOx                   |                   | SO2                   |                   | PM                    |                   | Total Annual Aggregate | Total Cumulative |
|--------------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|------------------------|------------------|
|                          | lb/MMBTU <sup>a</sup> | Tons <sup>d</sup> | lb/MMBTU <sup>b</sup> | Tons <sup>d</sup> | lb/MMBTU <sup>c</sup> | Tons <sup>d</sup> |                        |                  |
| 1st half of 2011         | 0.45                  | 5,937             | 0.60                  | 7,916             | 0.04                  | 528               | 14,380                 | 14,380           |
| <b>LNB/OFA Installed</b> |                       |                   |                       |                   |                       |                   |                        |                  |
| 2nd half of 2011         | 0.23                  | 3,034             | 0.60                  | 7,916             | 0.04                  | 528               | 11,478                 | 25,857           |
| 2012                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 48,812           |
| 2013                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 71,768           |
| 2014                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 94,723           |
| 2015                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 117,678          |
| 2016                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 140,633          |
| 2017                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 163,588          |
| 2018                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 186,543          |
| 2019                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 209,498          |
| 2020                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 232,453          |
| <b>Proposed Shutdown</b> |                       |                   |                       |                   |                       |                   |                        |                  |
| 2021                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 255,408          |
| 2022                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 278,363          |
| 2023                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 301,318          |
| 2024                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 324,273          |
| 2025                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 347,228          |
| 2026                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 370,183          |
| 2027                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 393,138          |
| 2028                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 416,093          |
| 2029                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 439,048          |
| 2030                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 462,003          |
| 2031                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 484,959          |
| 2032                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 507,914          |
| 2033                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 530,869          |
| 2034                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 553,824          |
| 2035                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 576,779          |
| 2036                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 599,734          |
| 2037                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 622,689          |
| 2038                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 645,644          |
| 2039                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 668,599          |
| 2040                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 691,554          |

**Calculations:**

(a) NOx emission rate (lb/MMBTU) = [2007 NOx emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 NOx emissions (tons) = 10,656 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(b) SO2 emission rate (lb/MMBTU) = [2007 SO2 emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 SO2 emissions (tons) = 14,037 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(c) PM emission rate (lb/MMBTU) = [2007 PM emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 PM emissions (tons) = 853 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(d) Annual emissions (tons/yr) = [emission rate (lb/MMBTU)] \* [2007 hourly heat input (MMBtu/hr)] \* [future operating hours (hours)] / 2000

2007 Heat Input (MMBtu/hr) = 6,024 (3)

Future Operating Hours = 8,760

**Notes:**

(1) Portland General Electric's 2007 Annual Title V Report

(2) US EPA Clean Air Markets

(3) Based on US EPA Clean Air Markets reported annual heat input / 2007 annual operating hours (7,787)

Table 3 - LNB/OFA Installed in 2011, SDA/FF Installed in 2014 (No SCR)

| Year                     | NOx                   |                   | SO2                   |                   | PM                    |                   | Total Annual Aggregate | Total Cumulative |
|--------------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|------------------------|------------------|
|                          | lb/MMBTU <sup>a</sup> | Tons <sup>b</sup> | lb/MMBTU <sup>a</sup> | Tons <sup>b</sup> | lb/MMBTU <sup>a</sup> | Tons <sup>b</sup> |                        |                  |
| 1st half of 2011         | 0.45                  | 5,937             | 0.60                  | 7,916             | 0.04                  | 528               | 14,380                 | 14,380           |
| <b>LNB/OFA Installed</b> |                       |                   |                       |                   |                       |                   |                        |                  |
| 2nd half of 2011         | 0.23                  | 3,034             | 0.60                  | 7,916             | 0.04                  | 528               | 11,478                 | 25,857           |
| 2012                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 48,812           |
| 2013                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 71,768           |
| 1st half of 2014         | 0.23                  | 3,034             | 0.60                  | 7,916             | 0.04                  | 528               | 11,478                 | 83,245           |
| <b>SDA/FF Installed</b>  |                       |                   |                       |                   |                       |                   |                        |                  |
| Second half of 2014      | 0.23                  | 3,034             | 0.12                  | 1,583             | 0.012                 | 158               | 4,776                  | 88,021           |
| 2015                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 97,572           |
| 2016                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 107,124          |
| 2017                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 116,675          |
| 2018                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 126,226          |
| 2019                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 135,778          |
| 2020                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 145,329          |
| 2021                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 154,881          |
| 2022                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 164,432          |
| 2023                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 173,983          |
| 2024                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 183,535          |
| 2025                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 193,086          |
| 2026                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 202,638          |
| 2027                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 212,189          |
| 2028                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 221,741          |
| 2029                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 231,292          |
| <b>Proposed Shutdown</b> |                       |                   |                       |                   |                       |                   |                        |                  |
| 2030                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 240,843          |
| 2031                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 250,395          |
| 2032                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 259,946          |
| 2033                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 269,498          |
| 2034                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 279,049          |
| 2035                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 288,600          |
| 2036                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 298,152          |
| 2037                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 307,703          |
| 2038                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 317,255          |
| 2039                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 326,806          |
| 2040                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 336,358          |

**Calculations:**

(a) NOx emission rate (lb/MMBTU) = [2007 NOx emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 NOx emissions (tons) = 10,656 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(b) SO2 emission rate (lb/MMBTU) = [2007 SO2 emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 SO2 emissions (tons) = 14,037 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(c) PM emission rate (lb/MMBTU) = [2007 PM emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 PM emissions (tons) = 853 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(d) Annual emissions (tons/yr) = [emission rate (lb/MMBTU)] \* [2007 hourly heat input (MMBtu/hr)] \* [future operating hours (hours)] / 2000

2007 Heat Input (MMBtu/hr) = 6,024 (3)

Future Operating Hours = 8,760

**Notes:**

(1) Portland General Electric's 2007 Annual Title V Report

(2) US EPA Clean Air Markets

(3) Based on US EPA Clean Air Markets reported annual heat input + 2007 annual operating hours (7,787)

Attachment D  
Boardman  
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**Table 4 - LNB/OFA Installed in 2011, SDA/FF Installed in 2014, and SCR Installed in 2017**

| Year                     | NOx                   |                   | SO2                   |                   | PM                    |                   | Total Annual Aggregate | Total Cumulative |
|--------------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|------------------------|------------------|
|                          | lb/MMBTU <sup>a</sup> | Tons <sup>a</sup> | lb/MMBTU <sup>a</sup> | Tons <sup>a</sup> | lb/MMBTU <sup>a</sup> | Tons <sup>a</sup> |                        |                  |
| 1st half of 2011         | 0.45                  | 5,937             | 0.60                  | 7,916             | 0.04                  | 528               | 14,380                 | 14,380           |
| <b>LNB/OFA Installed</b> |                       |                   |                       |                   |                       |                   |                        |                  |
| 2nd half of 2011         | 0.23                  | 3,034             | 0.60                  | 7,916             | 0.04                  | 528               | 11,478                 | 25,857           |
| 2012                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 48,812           |
| 2013                     | 0.23                  | 6,069             | 0.60                  | 15,831            | 0.04                  | 1,055             | 22,955                 | 71,768           |
| 1st half of 2014         | 0.23                  | 3,034             | 0.60                  | 7,916             | 0.04                  | 528               | 11,478                 | 83,245           |
| <b>SDA/FF Installed</b>  |                       |                   |                       |                   |                       |                   |                        |                  |
| Second half of 2014      | 0.23                  | 3,034             | 0.12                  | 1,583             | 0.012                 | 158               | 4,776                  | 88,021           |
| 2015                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 97,572           |
| 2016                     | 0.23                  | 6,069             | 0.12                  | 3,166             | 0.012                 | 317               | 9,551                  | 107,124          |
| 1st half of 2017         | 0.23                  | 3,034             | 0.12                  | 1,583             | 0.012                 | 158               | 4,776                  | 111,899          |
| <b>SCR Installed</b>     |                       |                   |                       |                   |                       |                   |                        |                  |
| 2nd half of 2017         | 0.07                  | 923               | 0.12                  | 1,583             | 0.012                 | 158               | 2,665                  | 114,564          |
| 2018                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 119,894          |
| 2019                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 125,224          |
| 2020                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 130,554          |
| 2021                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 135,883          |
| 2022                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 141,213          |
| 2023                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 146,543          |
| 2024                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 151,873          |
| 2025                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 157,203          |
| 2026                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 162,533          |
| 2027                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 167,862          |
| 2028                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 173,192          |
| 2029                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 178,522          |
| 2030                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 183,852          |
| 2031                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 189,181          |
| 2032                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 194,511          |
| 2033                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 199,841          |
| 2034                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 205,171          |
| 2035                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 210,500          |
| 2036                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 215,830          |
| 2037                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 221,160          |
| 2038                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 226,490          |
| 2039                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 231,820          |
| 2040                     | 0.07                  | 1,847             | 0.12                  | 3,166             | 0.012                 | 317               | 5,330                  | 237,149          |

**Calculations:**

(a) NOx emission rate (lb/MMBTU) = [2007 NOx emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 NOx emissions (tons) = 10,656 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(b) SO2 emission rate (lb/MMBTU) = [2007 SO2 emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 SO2 emissions (tons) = 14,037 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(c) PM emission rate (lb/MMBTU) = [2007 PM emissions (tons)] / [2007 annual heat input (MMBtu)] \* 2000

2007 PM emissions (tons) = 853 (1)

2007 Heat Input (MMBtu) = 46,913,216 (2)

(d) Annual emissions (tons/yr) = [emission rate (lb/MMBTU)] \* [2007 hourly heat input (MMBTU/hr)] \* [future operating hours (hours)] / 2000

2007 Heat Input (MMBTU/hr) = 6,024 (3)

Future Operating Hours = 8,760

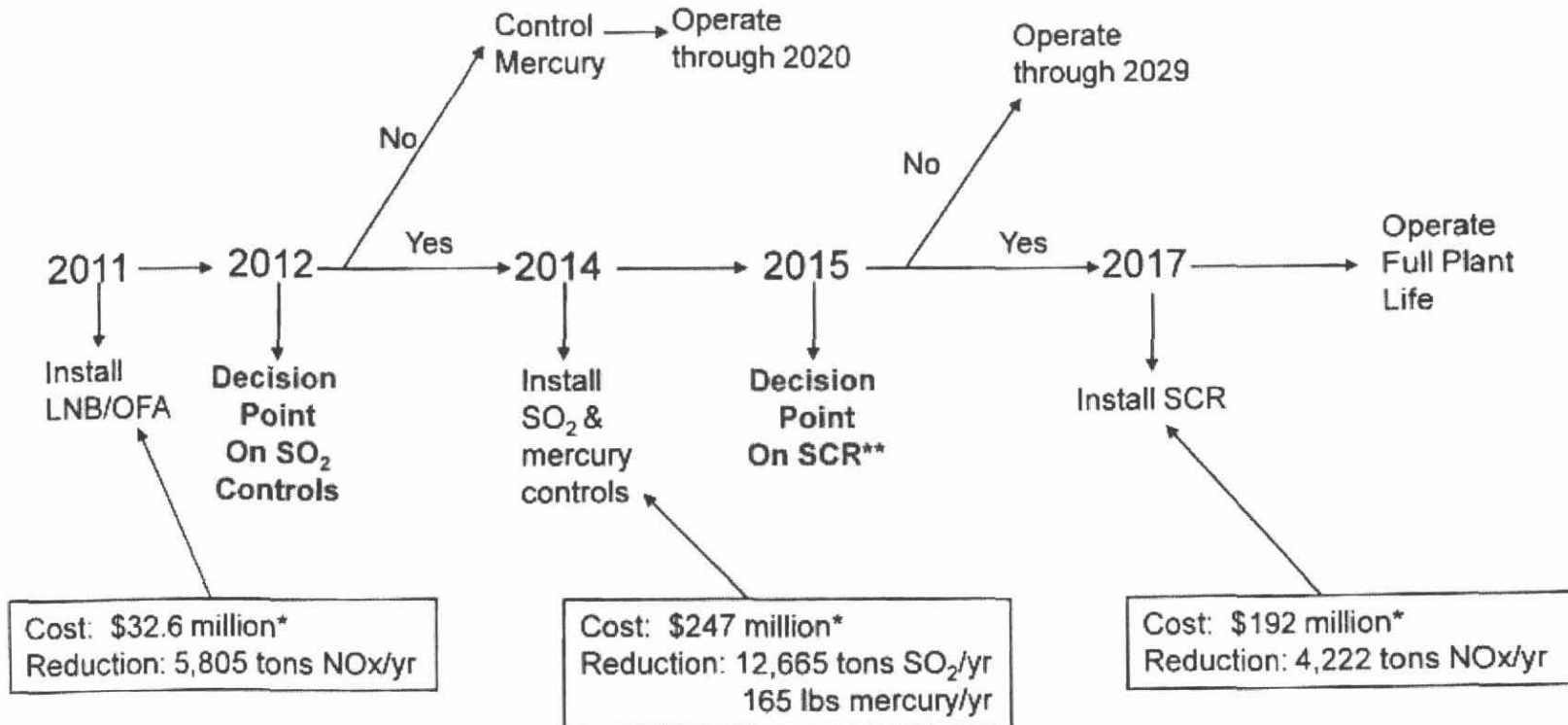
**Notes:**

(1) Portland General Electric's 2007 Annual Title V Report

(2) US EPA Clean Air Markets

(3) Based on US EPA Clean Air Markets reported annual heat input / 2007 annual operating hours (7,787)

**PGE Alternative Boardman BART/Reasonable Progress Proposal**



Aggregate Visibility Emissions = 232,453 tons → Operate through 2020

Aggregate Visibility Emissions = 231,292 tons → Operate through 2029

Aggregate Visibility Emissions = 237,149 tons → Operate through 2040

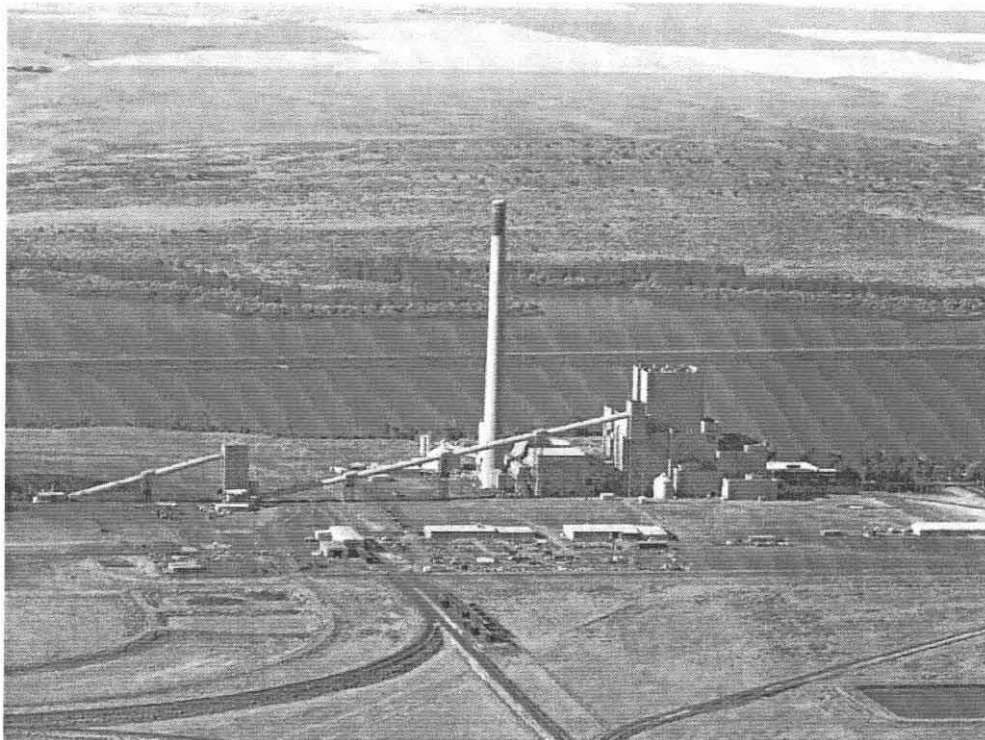
\*Estimates are of full control cost in 2007 dollars

\*\*Assumes that SCR is required under Reasonable Progress

## **Portland General Electric**

### **Boardman Plant**

#### **Best Available Retrofit Technology (BART) Analysis**



**Black & Veatch Project: 144449**  
**Black & Veatch File No.: 40.0000**

**November 2, 2007**



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## Executive Summary

The Boardman Plant is a 584 megawatt (MW) net pulverized coal fired steam electric plant of more than 250 million British thermal unit (MMBTU) per hour heat input located near Boardman, Oregon, about 150 miles east of Portland. The plant was issued its construction authorization on February 27, 1975 by the Oregon Nuclear and Thermal Energy Council.

On July 6, 2005, the Environmental Protection Agency (EPA) issued its final *Regional Haze Regulations and Guidelines for Performing Best Available Retrofit Technology (BART) Determinations*. These rules/guidelines established a procedure for identifying those sources that must retrofit their existing facilities with BART and for determining what constitutes BART. The purpose of the BART program was to require controls, where appropriate, for facilities that were “grandfathered” from the new source review requirements of the 1977 Clean Air Act Amendments. Specifically, the BART rules apply exclusively to sources within one of the enumerated source categories that were in existence prior to August 7, 1977.

Because the Boardman Plant is a steam electric plant of more than 250 MMBTU per hour heat input that was in existence (as that term is defined by EPA) before August 7, 1977, it was identified by the Oregon Department of Environmental Quality (DEQ) as a BART source. Portland General Electric (PGE) volunteered to serve as the pilot source for DEQ’s BART determination process. This analysis has been prepared in accordance with the five-step process identified in the EPA’s *Regional Haze Regulations and Guidelines for Performing BART Determinations* (40 CFR Part 51, Appendix Y) to evaluate the best available retrofit control technologies for the reduction of nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), and particulate matter (PM) emissions from the Boardman Plant.

The five-step BART analysis was used to generate the information needed to identify the best control technology package that constitutes BART for the Boardman Plant. In Step 1, available NO<sub>x</sub>, SO<sub>2</sub>, and PM retrofit control technologies were identified for the Boardman Plant. In Step 2, this list was shortened by eliminating those technologies that are not considered technically feasible. In Step 3, the control effectiveness of each technically feasible control technology was evaluated and, based on this evaluation, the technologies were ranked in order of effectiveness. In Step 4, the cost, energy, and environmental impacts were evaluated for each technically feasible control technology. In the final step, the visibility improvements associated with the top-ranked options were evaluated consistent with the modeling protocol approved by DEQ on January 18, 2007 and amended on August 28, 2007.



### NO<sub>x</sub> Control Selection

After all of the statutory factors were considered, the NO<sub>x</sub> controls combination of new low NO<sub>x</sub> burners with modified overfire air and selective noncatalytic reduction (NLNB/MOFA/SNCR) was identified as the Best Available Retrofit Technology for NO<sub>x</sub> control. This NO<sub>x</sub> control combination results in significant modeled visibility improvement at the Class 1 areas for Boardman Plant impacts.

An alternative NO<sub>x</sub> control package that utilizes selective catalytic reduction (SCR) in lieu of SNCR was considered, but ultimately determined to have excessive impacts and so eliminated from consideration as BART. The controls combination of new LNBs with modified OFA and SCR (NLNB/MOFA/SCR) would result in greater NO<sub>x</sub> reductions and slightly better modeled visibility improvements than NLNB/MOFA/SNCR. However, as EPA recognized in the 2005 preamble, the modeling system required for evaluating visibility impacts magnifies and overstates those impacts. Therefore, the small incremental improvement between the NO<sub>x</sub> controls incorporating SNCR and the NO<sub>x</sub> controls incorporating SCR is not, by itself, determinative. In addition, the use of the NO<sub>x</sub> controls incorporating SCR has other impacts that are more severe than new LNBs with modified OFA system and SNCR. Specifically, the non-air quality environmental impacts (i.e., hazardous material disposal during catalyst replacement) and the energy impacts (i.e., significant fan auxiliary power to overcome additional system resistance) associated with NLNB/MOFA/SCR are higher than for NLNB/MOFA/SNCR.

The economic impacts also support selecting NLNB/MOFA/SNCR as BART. The economic impacts associated with the NLNB/MOFA/SCR alternative are considerably higher than the economic impacts associated with the NLNB/MOFA/SNCR alternative. The total capital cost of the NO<sub>x</sub> controls incorporating SNCR is approximately \$50 million while the total capital cost associated with the NO<sub>x</sub> controls including SCR is approximately \$223 million. Operating costs are similarly much higher with the SCR alternative than the SNCR alternative (\$5.7 million per year as opposed to \$2.4 million per year). However, the visibility improvements associated with the NO<sub>x</sub> controls incorporating SCR are not commensurate with the additional \$173 million in capital cost (as compared to the NO<sub>x</sub> controls incorporating SNCR). Even if the plant were assumed to operate at its highest daily emission rate for every day of the year (something that never occurs), the use of the NO<sub>x</sub> control package with SCR as opposed to that with SNCR, would result in only 7 fewer days per year where Mt Hood Wilderness Area visibility impacts exceeded 0.5 deciviews. The additional \$173 million capital cost and \$3.3 million per year of operating cost associated with the SCR control



package is not justified by the minimal benefit. This limited benefit carries across all of the Class I areas. The average 98<sup>th</sup> percentile impact level across all the Class I areas is only 0.27 deciviews better with the control option incorporating SCR than the control option incorporating SNCR. This equates to an incremental annualized control cost associated with moving from the NO<sub>x</sub> controls with SNCR to the NO<sub>x</sub> controls with SCR of approximately \$72 million per deciview (based on an annualized cost of \$27 million/year for package with SCR v. \$7 million per year for package with SNCR). Again, the minimal improvement in visibility associated with the NO<sub>x</sub> control option incorporating SCR does not justify the extreme incremental cost. This conclusion is confirmed through reference to the EPA cost-effectiveness recommendations. The cost effectiveness of the NO<sub>x</sub> control package incorporating SCR (\$3,096/ton) is significantly higher than the range (\$100 to \$1000/ton) considered reasonable in EPA's BART guidelines.

Consideration of the impact of requiring SCR on plant viability also supports the conclusion that BART for NO<sub>x</sub> constitutes the control package with SNCR. The EPA Guidelines state that it is appropriate to take into account the affordability of particular controls as part of the BART analysis where the cost of installing and operating the controls is judged to have a severe impact on plant operations. That would be the case were BART considered to include SCR. The Boardman Plant is a key resource for providing baseload power to the region throughout the year. The imposition of SCR as BART, on top of the \$300 million in air pollution control capital investments being proposed, could possibly require an investment in excess of what the plant can support. Under such circumstances the EPA Guidelines state that it is appropriate to consider the non-affordability of SCR and to therefore conclude that SCR is not BART. Based on the discussion within this report there is no need to rely on this factor to conclude that BART does not include SCR. However, this additional consideration lends further support to the conclusion that BART for NO<sub>x</sub> constitutes the control package with SNCR.

From a design standpoint, since the Boardman boiler was not designed with space in the ductwork or with an appropriate temperature profile for utilization of SCR, very challenging and complex modifications to the boiler would be required at significant cost to lower the gas path temperature to the desired range while maintaining combustion efficiency. Therefore, a balancing of the statutory factors strongly supports NLNB/MOFA/SNCR as the best alternative.

### **SO<sub>2</sub> Control Selection**

After all of the statutory factors were considered, the semi-dry flue gas desulfurization (semi-dry FGD) technology was determined to be the best BART alternative for SO<sub>2</sub> control. The two top SO<sub>2</sub> control technologies (wet FGD and semi-dry FGD) were modeled as having essentially the same level of visibility improvement at the Class I areas. However, the non-air quality environmental impacts and negative energy impacts are significantly greater for the wet FGD control technology, since it generates a visible plume, consumes more water, generates a wastewater stream requiring treatment and disposal, generates slightly more solid byproducts for landfill, and because the wet FGD requires significantly more auxiliary power consumption during operation. The economic impacts associated with the wet FGD are also much higher than the economic impacts associated with the semi-dry FGD. The costs associated with installing semi-dry FGD are very high, with a total capital cost of approximately \$247 million and operating costs of approximately \$13 million per year. While these costs are extremely high, the costs of the wet FGD system would be considerably higher with a total capital cost of approximately \$382 million and operating costs of approximately \$16 million per year. As a result, the cost effectiveness of the wet FGD control option is significantly higher than the range (\$400 to \$2000/ton) considered to be reasonable in EPA's BART guidelines. Given that wet FGD does not perform materially better than semi-dry FGD, there is no basis for spending the additional \$135 million in capital and \$3 million per year in operating expenses to implement the wet FGD technology. Therefore, consistent with the statutory factors, semi-dry FGD was chosen as the best alternative for SO<sub>2</sub> control.

### **Particulate (PM) Control Selection**

After all of the statutory factors were considered, the pulse jet fabric filter (PJFF), in combination with the existing ESP, was determined to be the best BART control alternative for PM. Multiple technologies had equal control effectiveness, but the utilization of PJFF enables the highest level of mercury control. This improvement to water quality from reduction of mercury bioaccumulation is a significant positive environmental benefit and, therefore, supports the choice of PJFF as BART.

### **Best Control Combination Selection**

The package of the selected controls (NLNB/MOFA/SNCR for NO<sub>x</sub> and semi-dry FGD including PJFF for SO<sub>2</sub> and PM) constitutes BART for the Boardman Plant. This also constitutes the most effective package for integration with the controls being

designed for the Boardman Plant to meet the Oregon mercury standards for coal fired power plants.

While the Columbia River Gorge National Scenic Area (CRGNSA) is not a Class I area and so not a part of the BART analysis, there was interest in the benefits to that area as a result of the proposed BART controls. The modeling of the benefits predicted from the proposed BART control package show significant improvement in visibility in the CRGNSA. While slightly greater improvements are shown by the model from the use of a control package that includes SCR, these improvements are not considered significant. This conclusion was independently verified in the draft *Columbia River Gorge Air Quality Study Science Summary Report* (September 27, 2007) prepared by DEQ in conjunction with other state and federal governmental authorities. The report authors compared CRGNSA visibility as a result of the proposed BART controls (i.e., NLNB/MOFA/SNCR, semi-dry FGD and PJFF) to CRGNSA visibility if Boardman emissions were reduced to "0" (i.e., complete shutdown of the plant). As the report notes, "practically zero" additional visibility benefit is achieved by reducing plant emissions from those achieved by the proposed BART control package all the way to zero plant emissions.

That assessment serves as independent verification of the conclusion that no material visibility benefit would be gained by controlling NO<sub>x</sub> through the use of new LNB with modified OFA and SCR rather than new LNB with modified OFA and SNCR. If eliminating the Boardman Plant generates "practically zero" additional benefit as compared to the proposed BART control package, the much smaller incremental benefit achieved by requiring SCR rather than SNCR would be immaterial. Given the extreme incremental cost associated with the use of new LNB with modified OFA and SCR for NO<sub>x</sub> control, there is no technically sound basis for requiring SCR as part of the BART control package.

PGE's implementation of the suite of BART controls identified through this report will cost more than \$297 million dollars to install and approximately \$15 million per year to operate. While this poses a significant economic impact to the Boardman Plant and to Northwest electric utility customers, the controls are predicted to improve the plant's modeled worst-case visibility impacts in the Class I areas by an average 64 percent, improve the plant's modeled worst-case visibility impacts at the most severely impacted Class I area by 56 percent, and enable the enhanced control of mercury emissions. Therefore, the utilization of the NLNB/MOFA/SNCR and semi-dry FGD (including PJFF) is the best alternative and constitutes BART.

The following appendices contain supporting data for the BART analysis described in this report:

- Appendix A Design Basis.
- Appendix B Stack Outlet Conditions.
- Appendix C Design Concept Definitions.
- Appendix D Cost Analysis Summary.
- Appendix E Visibility Modeling Results.
- Appendix F Visibility Modeling Protocol.
- Appendix G Emissions Performance Analysis Memo.

**Appendix D**  
**Cost Analysis Summary**

Attachment E  
Boardman  
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Boardman Plant

Appendix D

Technology: Overfire Air System Operation

Date: 10/11/2007

| Cost Item   | \$          | Remarks/Cost Basis   |
|---|-------------|--|
| <b>CAPITAL COST</b>                                   |             |  |
| Direct Costs  |             |  |
| Purchased equipment costs                             |             |  |
| Neural network system for NOx optimization            | \$345,000   | B&V cost estimate  |
| NOx monitoring equipment                              | \$182,000   | B&V cost estimate  |
| Water cannon system                                   | \$1,452,000 | B&V cost estimate  |
| Subtotal capital cost (CC)                            | \$1,979,000 |  |
| Freight   | \$99,000    | (CC) X 5.0%  |
| Total purchased equipment cost (PEC)                  | \$2,078,000 |  |
| Direct installation costs                             |             |  |
| Foundation & supports                                 | \$0         | (PEC) X 0.0%   |
| Handling & erection                                   | \$416,000   | (PEC) X 20.0%  |
| Electrical  | \$312,000   | (PEC) X 15.0%  |
| Piping  | \$42,000    | (PEC) X 2.0%   |
| Insulation  | \$0         | (PEC) X 0.0%   |
| Painting  | \$0         | (PEC) X 0.0%   |
| Demolition  | \$52,000    | (PEC) X 2.5%   |
| Relocation  | \$0         | (PEC) X 0.0%   |
| Total direct installation costs (DIC)                 | \$822,000   |  |
| Site preparation                                      | \$0         | N/A  |
| Buildings   | \$0         | N/A  |
| Total direct costs (DC) = (PEC) + (DIC)               | \$2,900,000 |  |
| Indirect Costs  |             |  |
| Engineering   | \$348,000   | (DC) X 12.0%   |
| Owner's cost  | \$58,000    | (DC) X 2.0%  |
| Construction management                               | \$145,000   | (DC) X 5.0%  |
| Start-up and spare parts                              | \$58,000    | (DC) X 2.0%  |
| Performance test                                      | \$50,000    | Engineering estimate   |
| Contingencies   | \$290,000   | (DC) X 10.0%   |
| Total indirect costs (IC)                             | \$949,000   |  |
| Allowance for Funds Used During Construction (AFDC)   | \$173,000   | [(DC)+(IC)] 8.99% 1 years (project time length X 1/2)        |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$4,022,000 |  |
| <b>ANNUAL COST</b>                                    |             |  |
| Direct Annual Costs                                   |             |  |
| Fixed annual costs                                    |             |  |
| Maintenance labor and materials                       | \$87,000    | (DC) X 3.0%  |
| Total fixed annual costs                              | \$87,000    |  |
| Variable annual costs                                 |             |  |
| Replacement power due to efficiency hit               | \$540,000   | Engineering estimates, 0.2% efficiency drop, and 0.05 \$/kWh |
| Total variable annual costs                           | \$540,000   |  |
| Total direct annual costs (DAC)                       | \$627,000   |  |
| Indirect Annual Costs                                 |             |  |
| Cost for capital recovery                             | \$380,000   | (TCI) X 9.44% CRF at 7% interest & 20 year life              |
| Total indirect annual costs (IDAC)                    | \$380,000   |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$1,007,000 |  |

Boardman Plant

Appendix D

Technology: Overfire Air System Operation

Date: 10/11/2007

| Cost Item   | \$          | Remarks/Cost Basis   |
|---|-------------|--|
| <b>CAPITAL COST</b>                                   |             |  |
| <b>Direct Costs</b>                                   |             |  |
| Purchased equipment costs                             |             |  |
| Neural network system for NOx optimization            | \$345,000   | B&V cost estimate  |
| NOx monitoring equipment                              | \$182,000   | B&V cost estimate  |
| Water cannon system                                   | \$1,452,000 | B&V cost estimate  |
| Subtotal capital cost (CC)                            | \$1,979,000 |  |
| Freight   | \$99,000    | (CC) X 5.0%  |
| Total purchased equipment cost (PEC)                  | \$2,078,000 | (A1)   |
| Direct installation costs                             |             |  |
| Foundation & supports                                 | \$0         | (PEC) X 0.0%   |
| Handling & erection                                   | \$416,000   | (PEC) X 20.0%  |
| Electrical  | \$312,000   | (PEC) X 15.0%  |
| Piping  | \$42,000    | (PEC) X 2.0%   |
| Insulation  | \$0         | (PEC) X 0.0%   |
| Painting  | \$0         | (PEC) X 0.0%   |
| Demolition  | \$52,000    | (PEC) X 2.5%   |
| Relocation  | \$0         | (PEC) X 0.0%   |
| Total direct installation costs (DIC)                 | \$822,000   | (B1)   |
| Site preparation                                      | \$0         | N/A  |
| Buildings   | \$0         | N/A  |
| Total direct costs (DC) = (PEC) + (DIC)               | \$2,900,000 | (E)  |
| Indirect Costs  |             |  |
| Engineering   | \$348,000   | (DC) X 12.0%   |
| Owner's cost  | \$58,000    | (DC) X 2.0%  |
| Construction management                               | \$145,000   | (DC) X 5.0%  |
| Start-up and spare parts                              | \$58,000    | (DC) X 2.0%  |
| Performance test                                      | \$50,000    | Engineering estimate   |
| Contingencies   | \$290,000   | (DC) X 10.0%   |
| Total indirect costs (IC)                             | \$949,000   |  |
| Allowance for Funds Used During Construction (AFDC)   | \$173,000   | [(DC)+(IC)] 8.99% 1 years (project time length X 1/2)        |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$4,022,000 |  |
| <b>ANNUAL COST</b>                                    |             |  |
| <b>Direct Annual Costs</b>                            |             |  |
| Fixed annual costs                                    |             |  |
| Maintenance labor and materials                       | \$87,000    | (DC) X 3.0%  |
| Total fixed annual costs                              | \$87,000    |  |
| Variable annual costs                                 |             |  |
| Replacement power due to efficiency hit               | \$540,000   | Engineering estimates, 0.2% efficiency drop, and 0.05 \$/kWh |
| Total variable annual costs                           | \$540,000   |  |
| Total direct annual costs (DAC)                       | \$627,000   |  |
| Indirect Annual Costs                                 |             |  |
| Cost for capital recovery                             | \$380,000   | (TCI) X 9.44% CRF at 7% interest & 20 year life              |
| Total indirect annual costs (IDAC)                    | \$380,000   |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$1,007,000 |  |

Technology: Upgraded Low NOx Burners

Date: 10/11/2007

| Cost Item  | \$           | Remarks/Cost Basis                                    |
|--|--------------|---|
| <b>CAPITAL COST</b>  |              |   |
| <b>Direct Costs</b>  |              |   |
| Purchased equipment costs  |              |   |
| New coal elbow, nozzle with air vane, fuel injector barrel, air zone swirler and coal piping | \$2,753,000  | from vendor quote, 06/30/06                           |
| Dynamic classifier for coal pulverizers  | \$1,760,000  | B&V cost estimate                                     |
| Coal/air flow instrument for burners   | \$935,000    | B&V cost estimate                                     |
| Subtotal capital cost (CC)   | \$5,448,000  |   |
| Freight  | \$272,000    | (CC) X 5.0%   |
| Total purchased equipment cost (PEC)   | \$5,720,000  | (A2)  |
| Direct installation costs  |              |   |
| Foundation & supports  | \$0          | (PEC) X 0.0%  |
| Handling & erection  | \$1,144,000  | (PEC) X 20.0%   |
| Electrical   | \$572,000    | (PEC) X 10.0%   |
| Piping   | \$0          | (PEC) X 0.0%  |
| Insulation   | \$0          | (PEC) X 0.0%  |
| Painting   | \$0          | (PEC) X 0.0%  |
| Demolition   | \$143,000    | (PEC) X 2.5%  |
| Relocation   | \$0          | (PEC) X 0.0%  |
| Total direct installation costs (DIC)  | \$1,859,000  | (B2)  |
| Site preparation   | \$0          | N/A   |
| Buildings  | \$0          | N/A   |
| Total direct costs (DC) = (PEC) + (DIC)  | \$7,579,000  | (C2)  |
| Indirect Costs   |              |   |
| Engineering  | \$909,000    | (DC) X 12.0%  |
| Owner's cost   | \$152,000    | (DC) X 2.0%   |
| Construction management  | \$379,000    | (DC) X 5.0%   |
| Start-up and spare parts   | \$152,000    | (DC) X 2.0%   |
| Performance test   | \$50,000     | Engineering estimate                                  |
| Contingencies  | \$758,000    | (DC) X 10.0%  |
| Total indirect costs (IC)  | \$2,400,000  |   |
| Allowance for Funds Used During Construction (AFDC)  | \$449,000    | [(DC)+(IC)] 8.99% 1 years (project time length X 1/2) |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC)  | \$10,428,000 |   |
| <b>ANNUAL COST</b>   |              |   |
| <b>Direct Annual Costs</b>   |              |   |
| Fixed annual costs   |              |   |
| Maintenance labor and materials  | \$227,000    | (DC) X 3.0%   |
| Total fixed annual costs   | \$227,000    |   |
| Variable annual costs  |              |   |
| N/A  | \$0          | Similar annual costs as current LNB                   |
| Total variable annual costs  | \$0          |   |
| Total direct annual costs (DAC)  | \$227,000    |   |
| Indirect Annual Costs  |              |   |
| Cost for capital recovery  | \$984,000    | (TCI) X 9.44% CRF at 7% interest & 20 year life       |
| Total indirect annual costs (IDAC)   | \$984,000    |   |
| Total Annual Cost (TAC) = (DAC) + (IDAC)   | \$1,211,000  |   |



Boardman Plant

Appendix D

Technology: Upgraded LNB with existing OFA System operation

Date: 10/11/2007

| Cost Item  | \$           | Remarks/Cost Basis   |
|--|--------------|--|
| <b>CAPITAL COST</b>  |              |  |
| <b>Direct Costs</b>  |              |  |
| Purchased equipment costs  |              |  |
| New coal elbow, nozzle with air vane, fuel injector barrel, air zone swirler and coal piping | \$2,753,000  | from vendor quote, 06/30/06                                  |
| Dynamic classifier for coal pulverizers  | \$1,760,000  | B&V cost estimate  |
| Coal/air flow instrument for burners   | \$935,000    | B&V cost estimate  |
| Neural network system for NOx optimization   | \$345,000    | B&V cost estimate  |
| NOx monitoring equipment   | \$182,000    | B&V cost estimate  |
| Water cannon system  | \$1,452,000  | B&V cost estimate  |
| Subtotal capital cost (CC)   | \$7,427,000  |  |
| Freight  | \$371,000    | (CC) X 5.0%  |
| Total purchased equipment cost (PEC)   | \$7,798,000  | A1 + A2  |
| Direct installation costs  |              |  |
| Foundation & supports  | \$0          | (PEC) X 0.0%   |
| Handling & erection  | \$1,560,000  | (PEC) X 20.0%  |
| Electrical   | \$780,000    | (PEC) X 10.0%  |
| Piping   | \$0          | (PEC) X 0.0%   |
| Insulation   | \$0          | (PEC) X 0.0%   |
| Painting   | \$0          | (PEC) X 0.0%   |
| Demolition   | \$195,000    | (PEC) X 2.5%   |
| Relocation   | \$0          | (PEC) X 0.0%   |
| Total direct installation costs (DIC)  | \$2,535,000  | B1 + B2  |
| Site preparation   | \$0          | N/A  |
| Buildings  | \$0          | N/A  |
| Total direct costs (DC) = (PEC) + (DIC)  | \$10,333,000 |  |
| Indirect Costs   |              |  |
| Engineering  | \$1,240,000  | (DC) X 12.0%   |
| Owner's cost   | \$207,000    | (DC) X 2.0%  |
| Construction management  | \$517,000    | (DC) X 5.0%  |
| Start-up and spare parts   | \$207,000    | (DC) X 2.0%  |
| Performance test   | \$50,000     | Engineering estimate   |
| Contingencies  | \$1,033,000  | (DC) X 10.0%   |
| Total indirect costs (IC)  | \$3,254,000  |  |
| Allowance for Funds Used During Construction (AFDC)  | \$611,000    | [(DC)+(IC)] 8.99% 1 years (project time length X 1/2)        |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC)  | \$14,198,000 |  |
| <b>ANNUAL COST</b>   |              |  |
| <b>Direct Annual Costs</b>   |              |  |
| Fixed annual costs   |              |  |
| Maintenance labor and materials  | \$310,000    | (DC) X 3.0%  |
| Total fixed annual costs   | \$310,000    |  |
| Variable annual costs  |              |  |
| Replacement power due to efficiency hit  | \$540,000    | Engineering estimates, 0.2% efficiency drop, and 0.05 \$/kWh |
| Total variable annual costs  | \$540,000    |  |
| Total direct annual costs (DAC)  | \$850,000    |  |
| Indirect Annual Costs  |              |  |
| Cost for capital recovery  | \$1,340,000  | (TCI) X 9.44% CRF at 7% interest & 20 year life              |
| Total indirect annual costs (IDAC)   | \$1,340,000  |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)   | \$2,190,000  |  |

**Boardman Plant**

**Appendix D**

Technology: New Low NOx Burners & Modified OFA System

Date: 10/11/2007

| Cost Item  | \$                  | Remarks/Cost Basis                                    |
|--|---------------------|---|
| <b>CAPITAL COST</b>  |                     |   |
| <b>Direct Costs</b>  |                     |   |
| Purchased equipment costs                                  |                     |   |
| New Low NOx Burners with new secondary air registers       | \$4,593,000         | from vendor quote, 06/30/06                           |
| (8) OFA ports and (4) wing ports with tube throat openings | \$1,994,000         | from vendor quote, 06/30/06                           |
| Neural network system for NOx optimization                 | \$346,000           | B&V cost estimate                                     |
| NOx monitoring equipment                                   | \$182,000           | B&V cost estimate                                     |
| Water cannon system  | \$1,452,000         | B&V cost estimate                                     |
| Dynamic classifier for coal pulverizers                    | \$1,760,000         | B&V cost estimate                                     |
| Coal/air flow instrument for burners                       | \$935,000           | B&V cost estimate                                     |
| Modulating orifice for burners                             | \$282,000           | B&V cost estimate                                     |
| Subtotal capital cost (CC)                                 | <u>\$11,544,000</u> |   |
| Freight  | \$577,000           | (CC) X 5.0%   |
| Total purchased equipment cost (PEC)                       | <u>\$12,121,000</u> |   |
| Direct installation costs                                  |                     |   |
| Foundation & supports                                      | \$0                 | (PEC) X 0.0%  |
| Handling & erection  | \$6,061,000         | (PEC) X 50.0%   |
| Electrical   | \$1,212,000         | (PEC) X 10.0%   |
| Piping   | \$606,000           | (PEC) X 5.0%  |
| Insulation   | \$0                 | (PEC) X 0.0%  |
| Painting   | \$0                 | (PEC) X 0.0%  |
| Demolition   | \$606,000           | (PEC) X 5.0%  |
| Relocation   | \$606,000           | (PEC) X 5.0%  |
| Total direct installation costs (DIC)                      | <u>\$9,091,000</u>  |   |
| Site preparation   | \$0                 | N/A   |
| Buildings  | \$0                 | N/A   |
| Total direct costs (DC) = (PEC) + (DIC)                    | <u>\$21,212,000</u> |   |
| Indirect Costs   |                     |   |
| Engineering  | \$2,545,000         | (DC) X 12.0%  |
| Owner's cost   | \$424,000           | (DC) X 2.0%   |
| Construction management                                    | \$1,061,000         | (DC) X 5.0%   |
| Start-up and spare parts                                   | \$424,000           | (DC) X 2.0%   |
| Performance test   | \$50,000            | Engineering estimate                                  |
| Contingencies  | \$4,242,000         | (DC) X 20.0%  |
| Total indirect costs (IC)                                  | <u>\$8,746,000</u>  |   |
| Allowance for Funds Used During Construction (AFDC)        | \$2,693,000         | [(DC)+(IC)] 8.99% 2 years (project time length X 1/2) |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC)      | <u>\$32,651,000</u> |   |
| <b>ANNUAL COST</b>   |                     |   |
| <b>Direct Annual Costs</b>                                 |                     |   |
| Fixed annual costs   |                     |   |
| Maintenance labor and materials                            | \$636,000           | (DC) X 3.0%   |
| Total fixed annual costs                                   | <u>\$636,000</u>    |   |
| Variable annual costs                                      |                     |   |
| N/A  | \$0                 | No associated annual cost                             |
| Total variable annual costs                                | <u>\$0</u>          |   |
| Total direct annual costs (DAC)                            | <u>\$636,000</u>    |   |
| Indirect Annual Costs                                      |                     |   |
| Cost for capital recovery                                  | \$3,082,000         | (TCI) X 9.44% CRF at 7% interest & 20 year life       |
| Total indirect annual costs (IDAC)                         | <u>\$3,082,000</u>  |   |
| Total Annual Cost (TAC) = (DAC) + (IDAC)                   | <u>\$3,718,000</u>  |   |

Technology: Selective Non-Catalytic Reduction

Date: 10/11/2007

| Cost Item   | \$           | Remarks/Cost Basis                  |                                     |                                   |  |
|---|--------------|-------------------------------------|-------------------------------------|-----------------------------------|--|
| <b>CAPITAL COST</b>                                   |              |                                     |                                     |                                   |  |
| Direct Costs  |              |                                     |                                     |                                   |  |
| Purchased equipment costs                             |              |                                     |                                     |                                   |  |
| Reagent storage, handling, injection & controls       | \$5,083,000  | CUECost estimate                    |                                     |                                   |  |
| Initial urea inventory                                | \$255,000    | 150,000 gal. urea initial inventory |                                     |                                   |  |
| Air preheater modifications                           | \$2,835,000  | CUECost estimate                    |                                     |                                   |  |
| Subtotal capital cost (CC)                            | \$8,173,000  |                                     |                                     |                                   |  |
| Freight   | \$490,380    | (CC) X                              | 6.0%                                |                                   |  |
| Total purchased equipment cost (PEC)                  | \$8,663,000  |                                     |                                     |                                   |  |
| Direct installation costs                             |              |                                     |                                     |                                   |  |
| Foundation & supports                                 | \$433,000    | (PEC) X                             | 5.0%                                |                                   |  |
| Handling & erection                                   | \$866,000    | (PEC) X                             | 10.0%                               |                                   |  |
| Electrical  | \$866,000    | (PEC) X                             | 10.0%                               |                                   |  |
| Piping  | \$260,000    | (PEC) X                             | 3.0%                                |                                   |  |
| Insulation  | \$0          | (PEC) X                             | 0.0%                                |                                   |  |
| Painting  | \$0          | (PEC) X                             | 0.0%                                |                                   |  |
| Demolition  | \$173,000    | (PEC) X                             | 2.0%                                |                                   |  |
| Relocation  | \$173,000    | (PEC) X                             | 2.0%                                |                                   |  |
| Total direct installation costs (DIC)                 | \$2,771,000  |                                     |                                     |                                   |  |
| Site preparation                                      | \$0          | N/A                                 |                                     |                                   |  |
| Buildings   | \$0          | N/A                                 |                                     |                                   |  |
| Total direct costs (DC) = (PEC) + (DIC)               | \$11,434,000 |                                     |                                     |                                   |  |
| Indirect Costs  |              |                                     |                                     |                                   |  |
| Engineering   | \$1,372,000  | (DC) X                              | 12.0%                               |                                   |  |
| Owner's cost  | \$572,000    | (DC) X                              | 5.0%                                |                                   |  |
| Construction management                               | \$1,143,000  | (DC) X                              | 10.0%                               |                                   |  |
| Start-up and spare parts                              | \$343,000    | (DC) X                              | 3.0%                                |                                   |  |
| Performance test                                      | \$100,000    | Engineering estimate                |                                     |                                   |  |
| Contingencies   | \$1,715,000  | (DC) X                              | 15.0%                               |                                   |  |
| Total indirect costs (IC)                             | \$5,245,000  |                                     |                                     |                                   |  |
| Allowance for Funds Used During Construction (AFDC)   | \$750,000    | [(DC)+(IC)] 8.99%                   | 1 years (project time length X 1/2) |                                   |  |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$17,429,000 |                                     |                                     |                                   |  |
| <b>ANNUAL COST</b>                                    |              |                                     |                                     |                                   |  |
| Direct Annual Costs                                   |              |                                     |                                     |                                   |  |
| Fixed annual costs                                    |              |                                     |                                     |                                   |  |
| Operating labor                                       | \$100,000    | 1 FTE and                           | 100,000 \$/year                     | Estimated manpower                |  |
| Maintenance labor and materials                       | \$343,000    | (DC) X                              | 3.0%                                |                                   |  |
| Total fixed annual costs                              | \$443,000    |                                     |                                     |                                   |  |
| Variable annual costs                                 |              |                                     |                                     |                                   |  |
| Reagent   | \$3,093,000  | 2,637 lb/hr and                     | 315 \$/ton                          | Engineering estimate              |  |
| Auxiliary and ID fan power                            | \$26,000     | 70 kW and                           | 0.05 \$/kWh                         | Engineering estimate              |  |
| Water   | \$179,000    | 200 gpm and                         | 2 \$/1,000 gal                      | Engineering estimate              |  |
| Total variable annual costs                           | \$3,298,000  |                                     |                                     |                                   |  |
| Total direct annual costs (DAC)                       | \$3,741,000  |                                     |                                     |                                   |  |
| Indirect Annual Costs                                 |              |                                     |                                     |                                   |  |
| Cost for capital recovery                             | \$1,645,000  | (TCI) X                             | 9.44%                               | CRF at 7% interest & 20 year life |  |
| Total indirect annual costs (IDAC)                    | \$1,645,000  |                                     |                                     |                                   |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$5,386,000  |                                     |                                     |                                   |  |

Technology: New Low NOx Burners & Modified OFA System & SNCR

Date: 10/11/2007

| Cost Item   | \$           | Remarks/Cost Basis                        |                   |   |  |
|---|--------------|---|-------------------|---|--|
| <u>CAPITAL COST</u>                                   |              |   |                   |   |  |
| Total Capital Investment (TCI) cost for:              |              |   |                   |   |  |
| New Low NOx Burners & Modified OFA System             | \$32,651,000 | Cost estimate for independent system      |                   |   |  |
| Selective Non-Catalytic Reduction System              | \$17,429,000 | Cost estimate for independent system      |                   |   |  |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$50,080,000 |   |                   |   |  |
| <u>ANNUAL COST</u>                                    |              |   |                   |   |  |
| Direct Annual Costs                                   |              |   |                   |   |  |
| Fixed annual costs                                    |              |   |                   |   |  |
| Operating labor                                       | \$100,000    | (DC) X                                    | 1 FTE and<br>3.0% | 100,000 \$/year                             | Estimated manpower   |
| Maintenance labor and materials                       | \$979,000    |   |                   |   |  |
| Total fixed annual costs                              | \$1,079,000  |   |                   |   |  |
| Variable annual costs                                 |              |   |                   |   |  |
| Reagent   | \$1,105,000  | 942 lb/hr and<br>70 kW and<br>200 gpm and |                   | 315 \$/ton<br>0.05 \$/kWh<br>2 \$/1,000 gal | Engineering estimate<br>Engineering estimate<br>Engineering estimate |
| Auxiliary and ID fan power                            | \$26,000     |   |                   |   |  |
| Water   | \$179,000    |   |                   |   |  |
| Total variable annual costs                           | \$1,310,000  |   |                   |   |  |
| Total direct annual costs (DAC)                       | \$2,389,000  |   |                   |   |  |
| Indirect Annual Costs                                 |              |   |                   |   |  |
| Cost for capital recovery                             | \$4,728,000  | (TCI) X                                   | 9.44%             | CRF at 7% interest & 20 year life           |  |
| Total indirect annual costs (IDAC)                    | \$4,728,000  |   |                   |   |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$7,117,000  |   |                   |   |  |

Boardman Plant

Appendix D

Technology: Upgraded Low NOx Burners with existing OFA and SNCR

Date: 10/11/2007

| Cost Item   | \$                        | Remarks/Cost Basis   |
|---|---------------------------|--|
| <u>CAPITAL COST</u>                               |                           |  |
| Total Capital Investment (TCI) cost for:          |                           |  |
| Upgraded Low NOx Burners with existing OFA System | \$14,198,000              | Cost estimate for independent system                         |
| Selective Non-Catalytic Reduction System          | \$17,429,000              | Cost estimate for independent system                         |
| Total Capital Investment (TCI) =                  | <b>\$31,627,000</b>       |  |
| <u>ANNUAL COST</u>                                |                           |  |
| Direct Annual Costs                               |                           |  |
| Fixed annual costs                                |                           |  |
| Operating labor                                   | \$100,000                 | 1 FTE and 100,000 \$/year Estimated manpower                 |
| Maintenance materials and labor                   | <u>\$653,000</u>          | (DC) X 3.0%  |
| Total fixed annual costs                          | <u>\$753,000</u>          |  |
| Variable annual costs                             |                           |  |
| Replacement power due to efficiency hit           | \$540,000                 | Engineering estimates, 0.2% efficiency drop, and 0.05 \$/kWh |
| Reagent   | \$2,430,000               | 2,072 lb/hr and 315 \$/ton Engineering estimate              |
| Auxiliary power                                   | \$26,000                  | 70 kW and 0.05 \$/kWh Engineering estimate                   |
| Water   | <u>\$179,000</u>          | 200 gpm and 2 \$/1,000 gal Engineering estimate              |
| Total variable annual costs                       | <u>\$3,175,000</u>        |  |
| Total direct annual costs (DAC)                   | <u><b>\$3,928,000</b></u> |  |
| Indirect Annual Costs                             |                           |  |
| Cost for capital recovery                         | <u>\$2,986,000</u>        | (TCI) X 9.44% CRF at 7% interest & 20 year life              |
| Total indirect annual costs (IDAC)                | <u>\$2,986,000</u>        |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)          | <b>\$6,914,000</b>        |  |

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Appendix D

Technology: New Low NOx Burners & Modified OFA System & SCR

Date: 10/11/2007

| Cost Item   | \$                   | Remarks/Cost Basis                                    |
|---|----------------------|---|
| <b>CAPITAL COST</b>   |                      |   |
| <b>Direct Costs</b>   |                      |   |
| Purchased equipment costs   |                      |   |
| Reactor housing   | \$5,580,000          | CUECost estimate                                      |
| Ammonia handling and injection  | \$2,589,000          | CUECost estimate                                      |
| Initial catalyst and ammonia  | \$4,750,000          | CUECost estimate                                      |
| Electrical system modification  | \$2,261,000          | from ref. cost  |
| ID fans   | \$3,658,000          | from ref. cost  |
| Flue gas handling system  | \$6,500,000          | from ref. cost  |
| Air preheater modifications   | \$2,835,000          | CUECost estimate                                      |
| Ash handling system   | \$3,110,000          | CUECost estimate                                      |
| Subtotal capital cost (CC)  | <u>\$31,283,000</u>  |   |
| Instruments and controls  | \$3,128,000          | (CC) X 10.0%  |
| Freight   | \$1,564,000          | (CC) X 5.0%   |
| Total purchased equipment cost (PEC)  | <u>\$35,975,000</u>  |   |
| Direct installation costs   |                      |   |
| Foundation & supports   | \$13,671,000         | (PEC) X 38.0%   |
| Handling & erection   | \$13,311,000         | (PEC) X 37.0%   |
| Electrical  | \$8,994,000          | (PEC) X 25.0%   |
| Piping  | \$2,698,000          | (PEC) X 7.5%  |
| Insulation  | \$3,598,000          | (PEC) X 10.0%   |
| Painting  | \$360,000            | (PEC) X 1.0%  |
| Demolition  | \$6,116,000          | (PEC) X 17.0%   |
| Relocation  | \$4,317,000          | (PEC) X 12.0%   |
| Total direct installation costs (DIC)   | <u>\$53,065,000</u>  |   |
| Site preparation  | \$2,000,000          | Engineering estimate                                  |
| Buildings   | \$500,000            | Engineering estimate                                  |
| Total direct costs (DC) = (PEC) + (DIC)   | <u>\$91,540,000</u>  |   |
| <b>Indirect Costs</b>   |                      |   |
| Engineering   | \$10,985,000         | (DC) X 12.0%  |
| Owner's cost  | \$4,577,000          | (DC) X 5.0%   |
| Construction management   | \$9,154,000          | (DC) X 10.0%  |
| Start-up and spare parts  | \$2,746,000          | (DC) X 3.0%   |
| Performance test  | \$200,000            | Engineering estimate                                  |
| Contingencies   | \$13,731,000         | (DC) X 15.0%  |
| Total indirect costs (IC)   | <u>\$41,393,000</u>  |   |
| Allowance for Funds Used During Construction (AFDC)                                   | \$17,926,000         | [(DC)+(IC)] 8.99% 3 years (project time length X 1/2) |
| Boiler Heat Transfer Surface Area Replacement   | \$40,000,000         | B&V estimate to reduce SCR inlet FG temperature       |
| Total SCR Capital Investment (TCI)  | <b>\$190,859,000</b> |   |
| Total Capital Investment (TCI) cost for:<br>New Low NOx Burners & Modified OFA System | \$32,651,000         | Cost estimate for independent system                  |
| Total Capital Investment (TCI) for LNB/OFA and SCR                                    | <b>\$223,510,000</b> |   |
| <b>ANNUAL COST</b>  |                      |   |
| <b>Direct Annual Costs</b>  |                      |   |
| Fixed annual costs  |                      |   |
| Operating labor   | \$100,000            | 1 FTE and 100,000 \$/year Estimated manpower          |
| Maintenance labor & materials   | \$2,746,000          | (DC) X 3.0%   |
| Yearly emissions testing  | \$25,000             | Engineering estimate                                  |
| Catalyst activity testing   | \$5,000              | Engineering estimate                                  |
| Fly ash sampling and analysis   | \$20,000             | Engineering estimate                                  |
| Total fixed annual costs  | <u>\$2,896,000</u>   |   |
| Variable annual costs   |                      |   |
| Reagent   | \$797,000            | 475 lb/hr and 450 \$/ton Engineering estimate         |
| Auxiliary and ID fan power  | \$944,000            | 2,537 kW and 0.05 \$/kWh Engineering estimate         |
| Catalyst replacement  | \$1,035,000          | 173 m3 and 6,000 \$/m3 3 yr replacement rate          |
| Catalyst disposal   | \$1,000              | 292,483 lb and 10 \$/ton 3 yr replacement rate        |
| Total variable annual costs   | <u>\$2,777,000</u>   |   |
| Total direct annual costs (DAC)   | <u>\$5,673,000</u>   |   |
| <b>Indirect Annual Costs</b>  |                      |   |
| Cost for capital recovery   | \$21,099,000         | (TCI) X 9.44% CRF at 7% interest & 20 year life       |
| Total indirect annual costs (IDAC)  | <u>\$21,099,000</u>  |   |
| Total Annual Cost (TAC) = (DAC) + (IDAC)  | <b>\$26,772,000</b>  |   |

Technology: Wet Flue Gas Desulfurization (FGD)

Date: 10/11/2007

| Cost Item   | \$            | Remarks/Cost Basis                                    |
|---|---------------|---|
| <b>CAPITAL COST</b>                                   |               |   |
| <b>Direct Costs</b>                                   |               |   |
| Purchased equipment costs                             |               |   |
| Reagent feed system: receiving, storage               | \$1,417,000   | CUECost estimate                                      |
| Ball mill & classifier                                | \$2,154,000   | CUECost estimate                                      |
| SO2 removal system: tanks, pumps                      | \$3,855,000   | CUECost estimate                                      |
| Absorber tower  | \$30,207,000  | CUECost estimate                                      |
| Spray pumps   | \$4,517,000   | CUECost estimate                                      |
| Byproduct handling system                             | \$1,737,000   | CUECost estimate                                      |
| Vacuum filter system                                  | \$1,650,000   | from ref. cost  |
| Fabric filter with ash handling system                | \$16,526,000  | from ref. cost  |
| Booster fans  | \$4,840,000   | Engineering estimate                                  |
| Electrical system upgrades                            | \$4,245,491   | from ref. cost  |
| Flue gas handling system                              | \$8,800,000   | Engineering estimate                                  |
| Subtotal capital cost (CC)                            | \$79,948,491  |   |
| Instrumentation and controls                          | \$3,997,000   | (CC) X 5.0%   |
| Freight   | \$3,997,000   | (CC) X 5.0%   |
| Total purchased equipment cost (PEC)                  | \$87,942,000  |   |
| Direct installation costs                             |               |   |
| Foundation & supports                                 | \$24,184,000  | (PEC) X 27.5%   |
| Handling & erection                                   | \$35,177,000  | (PEC) X 40.0%   |
| Electrical  | \$17,588,000  | (PEC) X 20.0%   |
| Piping  | \$4,397,000   | (PEC) X 5.0%  |
| Insulation  | \$4,397,000   | (PEC) X 5.0%  |
| Painting  | \$879,000     | (PEC) X 1.0%  |
| Demolition  | \$3,518,000   | (PEC) X 4.00%   |
| Relocation  | \$3,518,000   | (PEC) X 4.00%   |
| Total direct installation costs (DIC)                 | \$93,658,000  |   |
| Site preparation                                      | \$200,000     | Engineering estimate                                  |
| Buildings   | \$7,500,000   | Engineering estimate                                  |
| New wet stack   | \$23,000,000  | Recent quotes estimate of \$23 mil                    |
| Waste water treatment system                          | \$15,000,000  | Engineering estimate                                  |
| Total direct costs (DC) = (PEC) + (DIC)               | \$227,300,000 |   |
| Indirect Costs  |               |   |
| Engineering   | \$27,276,000  | (DC) X 12.0%  |
| Owner's cost  | \$9,092,000   | (DC) X 4.0%   |
| Construction management                               | \$22,730,000  | (DC) X 10.0%  |
| Start-up and spare parts                              | \$3,410,000   | (DC) X 1.5%   |
| Performance test                                      | \$200,000     | Engineering estimate                                  |
| Contingencies   | \$34,095,000  | (DC) X 15.0%  |
| Total indirect costs (IC)                             | \$96,803,000  |   |
| Allowance for Funds Used During Construction (AFDC)   | \$58,274,000  | [(DC)+(IC)] 8.99% 4 years (project time length X 1/2) |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$382,377,000 |   |
| <b>ANNUAL COST</b>                                    |               |   |
| <b>Direct Annual Costs</b>                            |               |   |
| Fixed annual costs                                    |               |   |
| Operating labor                                       | \$400,000     | 4 FTE and 100,000 \$/year Estimated manpower          |
| Maintenance labor and materials                       | \$6,819,000   | (DC) X 3.0%   |
| Total fixed annual costs                              | \$7,219,000   |   |
| Variable annual costs                                 |               |   |
| Reagent   | \$2,015,000   | 5.9 tph and 46 \$/ton Mass bal. calcs.                |
| Byproduct disposal                                    | \$806,000     | 10.8 tph and 10 \$/ton Mass bal. calcs.               |
| Auxiliary and ID fan power                            | \$5,679,000   | 15,254 kW and 0.05 \$/kWh CueCost calculations        |
| Water   | \$532,000     | 595 gpm and 2 \$/1,000 gal Mass bal. calcs.           |
| Bag replacement cost                                  | \$632,000     | 6,322 bags and 100 \$/bag 18,966 total bags           |
| Cage replacement cost                                 | \$158,000     | 3,161 cages and 50 \$/cage 18,966 total cages         |
| Total variable annual costs                           | \$8,500,000   |   |
| Total direct annual costs (DAC)                       | \$15,719,000  |   |
| Indirect Annual Costs                                 |               |   |
| Cost for capital recovery                             | \$36,096,000  | (TCI) X 9.44% CRF at 7% interest & 20 year life       |
| Total indirect annual costs (IDAC)                    | \$36,096,000  |   |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$51,815,000  |   |

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Appendix D

Technology: Semi-Dry Flue Gas Desulfurization (FGD)

Date: 10/11/2007

| Cost Item   | \$            | Remarks/Cost Basis   |                |                                     |                    |
|---|---------------|----------------------|----------------|-------------------------------------|--------------------|
| <b>CAPITAL COST</b>                                   |               |                      |                |                                     |                    |
| Direct Costs  |               |                      |                |                                     |                    |
| Purchased equipment costs                             |               |                      |                |                                     |                    |
| Reagent feed: receiving, storage, grinding            | \$3,337,000   | CUECost estimate     |                |                                     |                    |
| SO2 removal system: tanks, pumps                      | \$3,164,000   | CUECost estimate     |                |                                     |                    |
| Spray dryers and fabric filter                        | \$41,189,000  | CUECost estimate     |                |                                     |                    |
| Ash handling system                                   | \$2,000,000   | from ref. cost       |                |                                     |                    |
| Booster fans  | \$4,840,000   | Engineering estimate |                |                                     |                    |
| Electrical system upgrades                            | \$2,860,000   | from ref. cost       |                |                                     |                    |
| Flue gas handling system                              | \$8,800,000   | CUECost estimate     |                |                                     |                    |
| Subtotal capital cost (CC)                            | \$66,190,000  |                      |                |                                     |                    |
| Instrumentation and controls                          | \$1,324,000   | (CC) X               | 2.0%           |                                     |                    |
| Freight   | \$3,310,000   | (CC) X               | 5.0%           |                                     |                    |
| Total purchased equipment cost (PEC)                  | \$70,824,000  |                      |                |                                     |                    |
| Direct installation costs                             |               |                      |                |                                     |                    |
| Foundation & supports                                 | \$19,477,000  | (PEC) X              | 27.5%          |                                     |                    |
| Handling & erection                                   | \$28,330,000  | (PEC) X              | 40.0%          |                                     |                    |
| Electrical  | \$14,165,000  | (PEC) X              | 20.0%          |                                     |                    |
| Piping  | \$3,541,000   | (PEC) X              | 5.0%           |                                     |                    |
| Insulation  | \$3,541,000   | (PEC) X              | 5.0%           |                                     |                    |
| Painting  | \$708,000     | (PEC) X              | 1.0%           |                                     |                    |
| Demolition  | \$2,833,000   | (PEC) X              | 4.0%           |                                     |                    |
| Relocation  | \$2,833,000   | (PEC) X              | 4.0%           |                                     |                    |
| Total direct installation costs (DIC)                 | \$75,428,000  |                      |                |                                     |                    |
| Site preparation                                      | \$200,000     | Engineering estimate |                |                                     |                    |
| Buildings   | \$500,000     | Engineering estimate |                |                                     |                    |
| Total direct costs (DC) = (PEC) + (DIC)               | \$146,952,000 |                      |                |                                     |                    |
| Indirect Costs  |               |                      |                |                                     |                    |
| Engineering   | \$17,634,000  | (DC) X               | 12.0%          |                                     |                    |
| Owner's cost  | \$5,878,000   | (DC) X               | 4.0%           |                                     |                    |
| Construction management                               | \$14,695,000  | (DC) X               | 10.0%          |                                     |                    |
| Start-up and spare parts                              | \$2,204,000   | (DC) X               | 1.5%           |                                     |                    |
| Performance test                                      | \$200,000     | Engineering estimate |                |                                     |                    |
| Contingencies   | \$22,043,000  | (DC) X               | 15.0%          |                                     |                    |
| Total indirect costs (IC)                             | \$62,654,000  |                      |                |                                     |                    |
| Allowance for Funds Used During Construction (AFDC)   | \$37,687,000  | [(DC)+(IC)] X        | 8.99%          | 4 years (project time length X 1/2) |                    |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$247,293,000 |                      |                |                                     |                    |
| <b>ANNUAL COST</b>                                    |               |                      |                |                                     |                    |
| Direct Annual Costs                                   |               |                      |                |                                     |                    |
| Fixed annual costs                                    |               |                      |                |                                     |                    |
| Operating labor                                       | \$300,000     |                      | 3 FTE and      | 100,000 \$/year                     | Estimated manpower |
| Maintenance labor and materials                       | \$4,409,000   | (DC) X               | 3.0%           |                                     |                    |
| Total fixed annual costs                              | \$4,709,000   |                      |                |                                     |                    |
| Variable annual costs                                 |               |                      |                |                                     |                    |
| Reagent   | \$4,915,000   | 5.0 tph and          | 132 \$/ton     | Mass bal. calcs.                    |                    |
| Byproduct disposal                                    | \$742,000     | 10.0 tph and         | 10 \$/ton      | Mass bal. calcs.                    |                    |
| Bag replacement cost                                  | \$632,000     | 6,322 bags and       | 100 \$/bag     | 18,966 total bags                   |                    |
| Cage replacement cost                                 | \$158,000     | 3,161 cages and      | 50 \$/cage     | 18,966 total bags                   |                    |
| Auxiliary and ID fan power                            | \$1,522,000   | 4,088 kW and         | 0.05 \$/kWh    | CueCost calculations                |                    |
| Water   | \$300,000     | 336 gpm and          | 2 \$/1,000 gal | Mass bal. calcs.                    |                    |
| Total variable annual costs                           | \$8,269,000   |                      |                |                                     |                    |
| Total direct annual costs (DAC)                       | \$12,978,000  |                      |                |                                     |                    |
| Indirect Annual Costs                                 |               |                      |                |                                     |                    |
| Cost for capital recovery                             | \$23,344,000  | (TCI) X              | 9.44%          | CRF at 7% interest & 20 year life   |                    |
| Total indirect annual costs (IDAC)                    | \$23,344,000  |                      |                |                                     |                    |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$36,322,000  |                      |                |                                     |                    |



Boardman Plant

Appendix D

Technology: Pulse Jet Fabric Filter (PJFF)

Date: 10/11/2007

| Cost Item   | \$           | Remarks/Cost Basis   |
|---|--------------|--|
| <b>CAPITAL COST</b>                                   |              |  |
| <b>Direct Costs</b>                                   |              |  |
| Purchased equipment costs                             |              |  |
| Fabric filter system                                  | \$16,968,000 | CUECost estimate   |
| Initial FF bags inventory                             | included     |  |
| Ash handling system                                   | \$1,210,000  | Engineering estimate                                       |
| Booster fans  | \$5,434,000  | Engineering estimate                                       |
| Electrical system upgrades                            | \$2,057,000  | from ref. cost   |
| Flue gas handling system                              | \$3,630,000  | Engineering estimate                                       |
| Subtotal capital cost (CC)                            | \$29,299,000 |  |
| Instrumentation and controls                          | \$1,465,000  | (CC) X 5.0%  |
| Freight   | \$1,465,000  | (CC) X 5.0%  |
| Total purchased equipment cost (PEC)                  | \$32,229,000 |  |
| <b>Direct installation costs</b>                      |              |  |
| Foundation & supports                                 | \$9,669,000  | (PEC) X 30.0%  |
| Handling & erection                                   | \$9,669,000  | (PEC) X 30.0%  |
| Electrical  | \$4,834,000  | (PEC) X 15.0%  |
| Piping  | \$806,000    | (PEC) X 2.5%   |
| Insulation  | \$645,000    | (PEC) X 2.0%   |
| Painting  | \$322,000    | (PEC) X 1.0%   |
| Demolition  | \$1,611,000  | (PEC) X 5.00%  |
| Relocation  | \$322,000    | (PEC) X 1.00%  |
| Total direct installation costs (DIC)                 | \$27,878,000 |  |
| Site preparation                                      | \$150,000    | Engineering estimate                                       |
| Buildings   | \$0          | N/A  |
| Total direct costs (DC) = (PEC) + (DIC)               | \$60,257,000 |  |
| <b>Indirect Costs</b>                                 |              |  |
| Engineering   | \$7,231,000  | (DC) X 12.0%   |
| Owner's cost  | \$3,013,000  | (DC) X 5.0%  |
| Construction management                               | \$6,026,000  | (DC) X 10.0%   |
| Start-up and spare parts                              | \$904,000    | (DC) X 1.5%  |
| Performance test                                      | \$100,000    | Engineering estimate                                       |
| Contingencies   | \$9,039,000  | (DC) X 15.0%   |
| Total indirect costs (IC)                             | \$26,313,000 |  |
| Allowance for Funds Used During Construction (AFDC)   | \$7,783,000  | [(DC)+(IC)] 8.99%      2 years (project time length X 1/2) |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$94,353,000 |  |
| <b>ANNUAL COST</b>                                    |              |  |
| <b>Direct Annual Costs</b>                            |              |  |
| Fixed annual costs                                    |              |  |
| Maintenance labor and materials                       | \$1,808,000  | (DC) X 3.0%  |
| Total fixed annual costs                              | \$1,808,000  |  |
| Variable annual costs                                 |              |  |
| Bag replacement cost                                  | \$632,000    | 6,322 bags and 100 \$/bag 18,966 total bags                |
| Cage replacement cost                                 | \$158,000    | 3,161 cages and 50 \$/cage 18,966 total cages              |
| ID fan power  | \$1,121,000  | 3,011 kW and 0.05 \$/kWh 8" water d.p.                     |
| Auxiliary power                                       | \$210,000    | 563 kW and 0.05 \$/kWh Engineering estimate                |
| Total variable annual costs                           | \$2,121,000  |  |
| Total direct annual costs (DAC)                       | \$3,929,000  |  |
| <b>Indirect Annual Costs</b>                          |              |  |
| Cost for capital recovery                             | \$8,907,000  | (TCI) X 9.44%      CRF at 7% interest & 20 year life       |
| Total indirect annual costs (IDAC)                    | \$8,907,000  |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$12,836,000 |  |

Attachment E  
Boardman  
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Boardman Plant

Appendix D

Technology: Compact Hybrid Particulate Collector (CHPAC)

Date: 10/11/2007

| Cost Item   | \$           | Remarks/Cost Basis   |             |                                     |  |
|---|--------------|----------------------|-------------|-------------------------------------|--|
| <b>CAPITAL COST</b>                                   |              |                      |             |                                     |  |
| Direct Costs  |              |                      |             |                                     |  |
| Purchased equipment costs                             |              |                      |             |                                     |  |
| Fabric filter system                                  | \$12,183,000 | from ref. cost       |             |                                     |  |
| Initial FF bags inventory                             | included     |                      |             |                                     |  |
| Ash handling system                                   | \$2,200,000  | from ref. cost       |             |                                     |  |
| Booster fans  | \$5,016,000  | Engineering estimate |             |                                     |  |
| Electrical system upgrades                            | \$2,057,000  | from ref. cost       |             |                                     |  |
| Flue gas handling system                              | \$6,600,000  | Engineering estimate |             |                                     |  |
| Subtotal capital cost (CC)                            | \$28,056,000 |                      |             |                                     |  |
| Instrumentation and controls                          | \$1,403,000  | (CC) X               | 5.0%        |                                     |  |
| Freight   | \$1,403,000  | (CC) X               | 5.0%        |                                     |  |
| Total purchased equipment cost (PEC)                  | \$30,862,000 |                      |             |                                     |  |
| Direct installation costs                             |              |                      |             |                                     |  |
| Foundation & supports                                 | \$7,716,000  | (PEC) X              | 25.0%       |                                     |  |
| Handling & erection                                   | \$7,716,000  | (PEC) X              | 25.0%       |                                     |  |
| Electrical  | \$3,858,000  | (PEC) X              | 12.5%       |                                     |  |
| Piping  | \$772,000    | (PEC) X              | 2.5%        |                                     |  |
| Insulation  | \$617,000    | (PEC) X              | 2.0%        |                                     |  |
| Painting  | \$309,000    | (PEC) X              | 1.0%        |                                     |  |
| Demolition  | \$309,000    | (PEC) X              | 1.00%       |                                     |  |
| Relocation  | \$309,000    | (PEC) X              | 1.00%       |                                     |  |
| Total direct installation costs (DIC)                 | \$21,606,000 |                      |             |                                     |  |
| Site preparation                                      | \$500,000    | Engineering estimate |             |                                     |  |
| Buildings   | \$0          | N/A                  |             |                                     |  |
| Total direct costs (DC) = (PEC) + (DIC)               | \$52,968,000 |                      |             |                                     |  |
| Indirect Costs  |              |                      |             |                                     |  |
| Engineering   | \$6,356,000  | (DC) X               | 12.0%       |                                     |  |
| Owner's cost  | \$2,648,000  | (DC) X               | 5.0%        |                                     |  |
| Construction management                               | \$5,297,000  | (DC) X               | 10.0%       |                                     |  |
| Start-up and spare parts                              | \$795,000    | (DC) X               | 1.5%        |                                     |  |
| Performance test                                      | \$100,000    | Engineering estimate |             |                                     |  |
| Contingencies   | \$7,945,000  | (DC) X               | 15.0%       |                                     |  |
| Total indirect costs (IC)                             | \$23,141,000 |                      |             |                                     |  |
| Allowance for Funds Used During Construction (AFDC)   | \$6,842,000  | [(DC)+(IC)] 8.99%    |             | 2 years (project time length X 1/2) |  |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC) | \$82,951,000 |                      |             |                                     |  |
| <b>ANNUAL COST</b>                                    |              |                      |             |                                     |  |
| Direct Annual Costs                                   |              |                      |             |                                     |  |
| Fixed annual costs                                    |              |                      |             |                                     |  |
| Maintenance labor and materials                       | \$1,589,000  | (DC) X               | 3.0%        |                                     |  |
| Total fixed annual costs                              | \$1,589,000  |                      |             |                                     |  |
| Variable annual costs                                 |              |                      |             |                                     |  |
| Filter bag replacement                                | \$381,000    | 3,805 bags and       | 100 \$/bag  | 11,415 total bags                   |  |
| Cage replacement                                      | \$95,000     | 1,903 cages and      | 50 \$/cage  | 11,415 total cages                  |  |
| ID fan power  | \$807,000    | 2,167 kW and         | 0.05 \$/kWh | 6" water d.p.                       |  |
| Auxiliary power                                       | \$204,000    | 549 kW and           | 0.05 \$/kWh | Engineering estimate                |  |
| Total variable annual costs                           | \$1,487,000  |                      |             |                                     |  |
| Total direct annual costs (DAC)                       | \$3,076,000  |                      |             |                                     |  |
| Indirect Annual Costs                                 |              |                      |             |                                     |  |
| Cost for capital recovery                             | \$7,831,000  | (TCI) X              | 9.44%       | CRF at 7% interest & 20 year life   |  |
| Total indirect annual costs (IDAC)                    | \$7,831,000  |                      |             |                                     |  |
| Total Annual Cost (TAC) = (DAC) + (IDAC)              | \$10,907,000 |                      |             |                                     |  |

Technology: Wet ESP

Date: 10/11/2007

| Cost Item  | \$            | Remarks/Cost Basis                 |                |                                     |                    |
|--|---------------|------------------------------------|----------------|-------------------------------------|--------------------|
| <b>CAPITAL COST</b>  |               |                                    |                |                                     |                    |
| Direct Costs   |               |                                    |                |                                     |                    |
| Purchased equipment costs  |               |                                    |                |                                     |                    |
| WESP system includes casing, electrical sys., penthouse blower & heater, access provisions | \$31,242,000  | from ref. cost                     |                |                                     |                    |
| Ash handling system  | \$2,420,000   | from ref. cost                     |                |                                     |                    |
| Booster fans   | \$4,598,000   | Engineering estimate               |                |                                     |                    |
| Electrical system upgrades   | \$1,331,000   | from ref. cost                     |                |                                     |                    |
| Flue gas handling system   | \$3,630,000   | Engineering estimate               |                |                                     |                    |
| Subtotal capital cost (CC)   | \$43,221,000  |                                    |                |                                     |                    |
| Instrumentation and controls   | \$2,161,000   | (CC) X                             | 5.0%           |                                     |                    |
| Freight  | \$2,161,000   | (CC) X                             | 5.0%           |                                     |                    |
| Total purchased equipment cost (PEC)   | \$47,543,000  |                                    |                |                                     |                    |
| Direct installation costs  |               |                                    |                |                                     |                    |
| Foundation & supports  | \$14,263,000  | (PEC) X                            | 30.0%          |                                     |                    |
| Handling & erection  | \$14,263,000  | (PEC) X                            | 30.0%          |                                     |                    |
| Electrical   | \$7,131,000   | (PEC) X                            | 15.0%          |                                     |                    |
| Piping   | \$1,189,000   | (PEC) X                            | 2.5%           |                                     |                    |
| Insulation   | \$951,000     | (PEC) X                            | 2.0%           |                                     |                    |
| Painting   | \$475,000     | (PEC) X                            | 1.0%           |                                     |                    |
| Demolition   | \$475,000     | (PEC) X                            | 1.00%          |                                     |                    |
| Relocation   | \$475,000     | (PEC) X                            | 1.00%          |                                     |                    |
| Total direct installation costs (DIC)  | \$39,222,000  |                                    |                |                                     |                    |
| Site preparation   | \$500,000     | Engineering estimate               |                |                                     |                    |
| Buildings  | \$0           | N/A                                |                |                                     |                    |
| New wet stack  | \$23,000,000  | Recent quotes estimate of \$23 mil |                |                                     |                    |
| Total direct costs (DC) = (PEC) + (DIC)  | \$110,265,000 |                                    |                |                                     |                    |
| Indirect Costs   |               |                                    |                |                                     |                    |
| Engineering  | \$13,232,000  | (DC) X                             | 12.0%          |                                     |                    |
| Owner's cost   | \$5,513,000   | (DC) X                             | 5.0%           |                                     |                    |
| Construction management  | \$11,027,000  | (DC) X                             | 10.0%          |                                     |                    |
| Start-up and spare parts   | \$1,309,000   | (DC) X                             | 1.5%           |                                     |                    |
| Performance test   | \$100,000     | Engineering estimate               |                |                                     |                    |
| Contingencies  | \$16,540,000  | (DC) X                             | 15.0%          |                                     |                    |
| Total indirect costs (IC)  | \$47,721,000  |                                    |                |                                     |                    |
| Allowance for Funds Used During Construction (AFDC)  | \$21,304,000  | [(DC)+(IC)] 8.99%                  |                | 3 years (project time length X 1/2) |                    |
| Total Capital Investment (TCI) = (DC) + (IC) + (AFDC)                                      | \$179,290,000 |                                    |                |                                     |                    |
| <b>ANNUAL COST</b>   |               |                                    |                |                                     |                    |
| Direct Annual Costs  |               |                                    |                |                                     |                    |
| Fixed annual costs   |               |                                    |                |                                     |                    |
| Maintenance materials and labor  | \$2,618,000   | (DC) X                             | 3.0%           |                                     |                    |
| Operating labor  | \$100,000     |                                    | 1 FTE and      | 100000 \$/year                      | Estimated manpower |
| Total fixed annual costs   | \$2,718,000   |                                    |                |                                     |                    |
| Variable annual costs  |               |                                    |                |                                     |                    |
| Reagent  | \$179,000     | 20 lb/hr and                       | 1.20 \$/ton    | Engineering estimate                |                    |
| Auxiliary power  | \$130,000     | 350 kW and                         | 0.05 \$/kWh    | Engineering estimate                |                    |
| ID fan power   | \$522,000     | 1,402 kW and                       | 0.05 \$/kWh    | 4" water d.p.                       |                    |
| Service water  | \$583,000     | 652 gpm and                        | 2 \$/1,000 gal | Engineering estimate                |                    |
| Total variable annual costs  | \$1,414,000   |                                    |                |                                     |                    |
| Total direct annual costs (DAC)  | \$4,132,000   |                                    |                |                                     |                    |
| Indirect Annual Costs  |               |                                    |                |                                     |                    |
| Cost for capital recovery  | \$16,925,000  | (TCI) X                            | 9.44%          | CRF at 7% interest & 20 year life   |                    |
| Total indirect annual costs (IDAC)   | \$16,925,000  |                                    |                |                                     |                    |
| Total Annual Cost (TAC) = (DAC) + (IDAC)   | \$21,057,000  |                                    |                |                                     |                    |

|    | B  | C                    | D                    | E                    | F                    | G                    | H                    | I |
|----|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|
| 1  | WP-10 Wholesale Power Rate Case  |                      |                      |                      |                      |                      |                      |   |
| 2  | Section 7(b)(2) Resource Stack - Cowlitz Falls Hydro Resource - Projected Costs FY 2010-2015   |                      |                      |                      |                      |                      |                      |   |
| 3  | Initial Rate Proposal Consistent with IPR Closeout and Program Case Rates <sup>1</sup>   |                      |                      |                      |                      |                      |                      |   |
| 4  | Purchase Power Contract  |                      |                      |                      |                      |                      |                      |   |
| 5  |  |                      |                      |                      |                      |                      |                      |   |
| 6  | <u>Cowlitz Falls Hydro Project Resource - Cost Projections for FY 2010<sup>1</sup></u>   |                      |                      |                      |                      |                      |                      |   |
| 7  |  |                      |                      |                      |                      |                      |                      |   |
| 8  | <b>7(b)(2) Case - Resource Stack Values:</b>   |                      |                      |                      | <b>FY 2010-\$\$</b>  |                      | <b>FY 2015-\$\$</b>  |   |
| 9  | Total Operation and Maintenance - 6-year average FY 2010 - FY 2015 as Adjusted   |                      |                      |                      | \$3,597,673          |                      | 3,979,364            |   |
| 11 | Debt Service - 6-year average FY 2010 - FY 2015 - Note 3   |                      |                      |                      | 11,620,481           |                      | 11,620,481           |   |
| 12 | Total Combined Costs - O&M and Debt Service  |                      |                      |                      | 15,218,153           |                      | 15,599,845           |   |
| 13 | Cost per MWh   |                      |                      |                      | \$66.82              |                      | \$68.49              |   |
| 15 | Capital Investment   |                      |                      |                      | 194,980,245          |                      | 194,980,245          |   |
| 16 | Estimated remaining useful life = 60 years   |                      |                      |                      | 60 years             |                      | 60 years             |   |
| 17 | Placed in service  |                      |                      |                      | 1994                 |                      | 1994                 |   |
| 18 | Average Annual Energy Output/@ 26.0MWh <sup>3</sup>  |                      |                      |                      | 227,760              |                      | 227,760              |   |
| 19 |  |                      |                      |                      |                      |                      |                      |   |
| 20 | <u>Projected Budget Amounts - IPR-1 - Program Case Revenue Requirement Amounts:</u>  |                      |                      |                      |                      |                      |                      |   |
| 22 |  | <b><u>FY2010</u></b> | <b><u>FY2011</u></b> | <b><u>FY2012</u></b> | <b><u>FY2013</u></b> | <b><u>FY2014</u></b> | <b><u>FY2015</u></b> |   |
| 23 | <u>Program Case Revenue Requirement:</u>   |                      |                      |                      |                      |                      |                      |   |
| 24 | Operation and Maintenance Charges  | 2,787,500            | 2,818,800            | 2,847,500            | 2,875,500            | 2,903,500            | 2,932,535            |   |
| 25 | Transmission Charges   | 897,000              | 897,000              | 940,000              | 940,000              | 940,000              | 940,000              |   |
| 26 | Debt Service Payments 4.20% Actual   | 11,566,000           | 11,563,000           | 11,559,000           | 11,546,000           | 11,542,000           | 11,530,806           |   |
| 27 | Total Amounts Paid - Program Case Rates  | 15,250,500           | 15,278,800           | 15,346,500           | 15,361,500           | 15,385,500           | 15,403,341           |   |
| 29 | <u>7(b)(2) Case Revenue Requirement Amounts:</u>   |                      |                      |                      |                      |                      |                      |   |
| 30 | Annual Operation and Maintenance Charges   | 2,787,500            | 2,818,800            | 2,847,500            | 2,875,500            | 2,903,500            | 2,932,535            |   |
| 31 | Annual Transmission Charges  | 897,000              | 897,000              | 940,000              | 940,000              | 940,000              | 940,000              |   |
| 32 | Total Annual O&M   | 3,684,500            | 3,715,800            | 3,787,500            | 3,815,500            | 3,843,500            | 3,872,535            |   |
| 33 | O&M Adjustment - Note 2  | (86,827)             | (45,339)             | (40,229)             | 8,063                | 57,503               | 106,829              |   |
| 34 | Adjusted Annual O&M  | 3,597,673            | 3,670,461            | 3,747,271            | 3,823,563            | 3,901,003            | 3,979,364            |   |
| 36 | Debt Service Payments @ 4.25% - Note 3   | 11,620,481           | 11,620,481           | 11,620,481           | 11,620,481           | 11,620,481           | 11,620,481           |   |
| 38 | Total Amounts Paid - 7(b)(2) Case Rates, assuming resource selection FY 2010.  | 15,218,153           | 15,290,941           | 15,367,752           | 15,444,044           | 15,521,484           | 15,599,845           |   |
| 39 |  |                      |                      |                      |                      |                      |                      |   |
| 41 | Average Annual Energy Output/@ 26.0MWh <sup>4</sup>  | 227,760              | 227,760              | 227,760              | 227,760              | 227,760              | 227,760              |   |
| 43 | Cost per MWh   | \$66.82              | \$67.14              | \$67.47              | \$67.81              | \$68.15              | \$68.49              |   |
| 44 |  |                      |                      |                      |                      |                      |                      |   |
| 45 | <b>Notes:</b>  |                      |                      |                      |                      |                      |                      |   |
| 46 | <b>Note 1</b> - Upon additional review, it was discovered that the projected costs that were used to forecast the costs of purchased power |                      |                      |                      |                      |                      |                      |   |
| 47 | under this contract that are outlined in the schedule above need to be revised upward. The cost presented above for this                   |                      |                      |                      |                      |                      |                      |   |
| 48 | resource that are contained in the 7(b)(2) resource stack are consistent with the costs for this resource that are contained in the        |                      |                      |                      |                      |                      |                      |   |
| 49 | Program Case for the Initial Rate Proposal. The decision was made to not change the purchased power amounts so that BPA's                  |                      |                      |                      |                      |                      |                      |   |
| 50 | Initial Rate Proposal was consistent with the information contained in the Integrated Program Review (IPR) documentation that              |                      |                      |                      |                      |                      |                      |   |
| 51 | was finalized in a letter sent by David J. Armstrong, Executive Vice President and Chief Financial Officer to BPA's Customers and          |                      |                      |                      |                      |                      |                      |   |
| 52 | other interested parties on November 14, 2008. The correct contract price amounts and the corrected purchase power cost for                |                      |                      |                      |                      |                      |                      |   |
| 53 | this contract can be found at pages 3 and 4. Unless there are additional changes that become known between the Initial Rate                |                      |                      |                      |                      |                      |                      |   |
| 54 | Proposal and the Final Rate Proposal, the revised amounts on pages 3 and 4 will be used for the final rate proposal. The total             |                      |                      |                      |                      |                      |                      |   |
| 55 | annual purchase power cost above of \$15,250,500 (Program Case) for FY 2010 is understated by \$460,009, the projected                     |                      |                      |                      |                      |                      |                      |   |
| 56 | revised amount that is displayed on page 3 of 4 is \$15,710,509 (Program Case).  |                      |                      |                      |                      |                      |                      |   |
| 57 |  |                      |                      |                      |                      |                      |                      |   |
| 58 |  |                      |                      |                      |                      |                      |                      |   |
| 60 |  |                      |                      |                      |                      |                      |                      |   |
| 61 |  |                      |                      |                      |                      |                      |                      |   |

| A   | B  | C                                | D          | E         | F            | G                 | H             | I |
|-----|--|----------------------------------|------------|-----------|--------------|-------------------|---------------|---|
| 1   | <b>WP-10 Wholesale Power Rate Case</b>   |                                  |            |           |              |                   |               |   |
| 2   | <b>Section 7(b)(2) Resource Stack - Cowlitz Falls Hydro Resource - Projected Costs FY 2010-2015</b>                                  |                                  |            |           |              |                   |               |   |
| 3   | <b>Initial Rate Proposal Consistent with IPR Closeout and Program Case Rates<sup>1</sup></b>   |                                  |            |           |              |                   |               |   |
| 4   | <b>Purchase Power Contract</b>   |                                  |            |           |              |                   |               |   |
| 62  |  |                                  |            |           |              |                   |               |   |
| 63  | <b>Note 2</b> - Due to model escalation of O&M, the average projected annual cost for O&M and Transmission costs of \$3,599,788 for  |                                  |            |           |              |                   |               |   |
| 64  | FY2010-2015 stated in real 2010 dollars in the Program Case amount was decreased by (\$ 2,155), so that the average annual           |                                  |            |           |              |                   |               |   |
| 65  | escalated rate during the rate test period was equal to the average Program Case rate. This adjustment is necessary to ensure        |                                  |            |           |              |                   |               |   |
| 66  | that these costs are similar between the Program Case and the 7(b)(2) Case. This adjustment results in the sum of O&M and            |                                  |            |           |              |                   |               |   |
| 67  | Transmission Costs for FY 2010 being decreased by (\$ 86,827). The FY 2010 amount of \$3,597,673 is then escalated in the rates      |                                  |            |           |              |                   |               |   |
| 68  | model using the Cumulative GDP Inflation /Deflator values that are reflected in the table below.                                     |                                  |            |           |              |                   |               |   |
| 69  |  |                                  |            |           |              |                   |               |   |
| 70  |  | Total Annual                     | GDP        | 2010\$\$  | Program Case | 7(b)(2) Case      | 7(b)(2) Case  |   |
| 71  |  | O&M Before                       | Deflator   | Real      | Nominal \$\$ | Escalated         | Over /(Under) |   |
| 72  |  | Adjustment                       | Conversion | Pricing   |              | Cost              | Program       |   |
| 73  | FY2010   | 3,684,500                        | 1.000000   | 3,684,500 | 3,684,500    | 3,597,673         | (86,827)      |   |
| 74  | FY2011   | 3,715,800                        | 1.020232   | 3,642,113 | 3,715,800    | 3,670,461         | (45,339)      |   |
| 75  | FY2012   | 3,787,500                        | 1.041582   | 3,636,296 | 3,787,500    | 3,747,271         | (40,229)      |   |
| 76  | FY2013   | 3,815,500                        | 1.062788   | 3,590,086 | 3,815,500    | 3,823,563         | 8,063         |   |
| 77  | FY2014   | 3,843,500                        | 1.084313   | 3,544,641 | 3,843,500    | 3,901,003         | 57,503        |   |
| 78  | FY2015   | 3,872,535                        | 1.106094   | 3,501,090 | 3,872,535    | 3,979,364         | 106,829       |   |
| 79  | Averages   | 3,786,556                        |            | 3,599,788 |              | Total Differences | (1)           |   |
| 80  |  | Program Case Price Adjustment    |            | (2,115)   |              |                   |               |   |
| 81  |  | 7(b)(2) Case Pricing - 2010 \$\$ |            | 3,597,673 |              |                   |               |   |
| 82  | <b>Note 3</b> - Calculation of 7(b)(2) Debt Service - Average annual program case debt service FY2010-2015 = 11,551,134 Program Case |                                  |            |           |              |                   |               |   |
| 83  | Debt Service. Assuming 30 yr term financing at interest rate of 4.20% in the program case, the PV of the payment stream of 30        |                                  |            |           |              |                   |               |   |
| 84  | annual payments at an interest rate of 4.20% = Principle Amount Financed FY 2010 = 194,980,245 . In the 7(b)(2) Case, the            |                                  |            |           |              |                   |               |   |
| 85  | debt service payments associated with retiring a principle amount of annual debt service payments for a principle amount of          |                                  |            |           |              |                   |               |   |
| 86  | \$195,148,632, @ 4.25% = 11,620,481 This amount was entered into the annual capital cost column of the                               |                                  |            |           |              |                   |               |   |
| 87  | "7(b)(2) Resource Sort" tab in the rates model to minimize the models escalation of fixed amounts of debt service.                   |                                  |            |           |              |                   |               |   |
| 88  | <b>Note 4</b> - Firm average energy value (aMW) was obtained from Table 5 of the March 2007 BPA, 2007 Pacific Northwest Loads        |                                  |            |           |              |                   |               |   |
| 89  | and Resources Study on page 23.  |                                  |            |           |              |                   |               |   |
| 90  |  |                                  |            |           |              |                   |               |   |
| 91  |  |                                  |            |           |              |                   |               |   |
| 92  |  |                                  |            |           |              |                   |               |   |
| 93  |  |                                  |            |           |              |                   |               |   |
| 94  |  |                                  |            |           |              |                   |               |   |
| 95  |  |                                  |            |           |              |                   |               |   |
| 96  |  |                                  |            |           |              |                   |               |   |
| 97  |  |                                  |            |           |              |                   |               |   |
| 98  |  |                                  |            |           |              |                   |               |   |
| 99  |  |                                  |            |           |              |                   |               |   |
| 100 |  |                                  |            |           |              |                   |               |   |
| 101 |  |                                  |            |           |              |                   |               |   |
| 102 |  |                                  |            |           |              |                   |               |   |
| 103 |  |                                  |            |           |              |                   |               |   |
| 104 |  |                                  |            |           |              |                   |               |   |
| 105 |  |                                  |            |           |              |                   |               |   |
| 106 |  |                                  |            |           |              |                   |               |   |
| 107 |  |                                  |            |           |              |                   |               |   |
| 108 |  |                                  |            |           |              |                   |               |   |
| 109 |  |                                  |            |           |              |                   |               |   |

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|----|---|---|---------------|--------------------------|---------------|---------------|--------------------------|---------------|---|
|    | A | B   | C             | D                        | E             | F             | G                        | H             | I |
| 1  |   | WP-10 Wholesale Power Rate Case   |               |                          |               |               |                          |               |   |
| 2  |   | Section 7(b)(2) Resource Stack - Cowlitz Falls Hydro Resource - Projected Costs FY 2010-2015  |               |                          |               |               |                          |               |   |
| 3  |   | Draft - Updated Proposed Cost Projections for Final Rate Proposal   |               |                          |               |               |                          |               |   |
| 4  |   | Purchase Power Contract   |               |                          |               |               |                          |               |   |
| 5  |   |   |               |                          |               |               |                          |               |   |
| 6  |   | <u>Cowlitz Falls Hydro Project Resource - Cost Projections for FY 2010</u>  |               |                          |               |               |                          |               |   |
| 7  |   |   |               |                          |               |               |                          |               |   |
| 8  |   | <b>7(b)(2) Case - Resource Stack Values:</b>  |               | <b><u>FY 2010-\$</u></b> |               |               | <b><u>FY 2015-\$</u></b> |               |   |
| 9  |   | Total Operation and Maintenance - 6-year average FY 2010 - FY 2015 as Adjusted  |               | \$4,134,918              |               |               | 4,573,608                |               |   |
| 10 |   |   |               |                          |               |               |                          |               |   |
| 11 |   | Debt Service - 6-year average FY 2010 - FY 2015   |               | 11,620,481               |               |               | 11,620,481               |               |   |
| 12 |   | Total Combined Costs - O&M and Debt Service   |               | 15,755,398               |               |               | 16,194,088               |               |   |
| 13 |   | Cost per MWh  |               | \$69.18                  |               |               | \$71.10                  |               |   |
| 14 |   |   |               |                          |               |               |                          |               |   |
| 15 |   | Capital Investment  |               | 194,980,245              |               |               | 194,980,245              |               |   |
| 16 |   | Estimated remaining useful life = 60 years  |               | 60 years                 |               |               | 60 years                 |               |   |
| 17 |   | Placed in service   |               | 1994                     |               |               | 1994                     |               |   |
| 18 |   | Average Annual Energy Output/@ 26.0MWh <sup>3</sup>   |               | 227,760                  |               |               | 227,760                  |               |   |
| 19 |   |   |               |                          |               |               |                          |               |   |
| 20 |   | <u>Projected Budget Amounts - IPR-2 - Program Case Revenue Requirement Amounts:</u>   |               |                          |               |               |                          |               |   |
| 21 |   |   |               |                          |               |               |                          |               |   |
| 22 |   |   | <u>FY2010</u> | <u>FY2011</u>            | <u>FY2012</u> | <u>FY2013</u> | <u>FY2014</u>            | <u>FY2015</u> |   |
| 23 |   | <u>Program Case Revenue Requirement:</u>  |               |                          |               |               |                          |               |   |
| 24 |   | Operation and Maintenance Charges   | 3,273,954     | 3,236,807                | 3,405,122     | 3,522,965     | 3,610,969                | 3,738,898     |   |
| 25 |   | Transmission Charges  | 870,555       | 870,555                  | 890,555       | 890,555       | 890,555                  | 910,555       |   |
| 26 |   | Debt Service Payments 4.20% Actual  | 11,566,000    | 11,563,000               | 11,559,000    | 11,546,000    | 11,542,000               | 11,530,806    |   |
| 27 |   | Total Amounts Paid - Program Case Rates   | 15,710,509    | 15,670,362               | 15,854,677    | 15,959,520    | 16,043,524               | 16,180,259    |   |
| 28 |   |   |               |                          |               |               |                          |               |   |
| 29 |   | <u>7(b)(2) Case Revenue Requirement Amounts:</u>  |               |                          |               |               |                          |               |   |
| 30 |   | Annual Operation and Maintenance Charges  | 3,273,954     | 3,236,807                | 3,405,122     | 3,522,965     | 3,610,969                | 3,738,898     |   |
| 31 |   | Annual Transmission Charges   | 870,555       | 870,555                  | 890,555       | 890,555       | 890,555                  | 910,555       |   |
| 32 |   | Total Annual O&M  | 4,144,509     | 4,107,362                | 4,295,677     | 4,413,520     | 4,501,524                | 4,649,453     |   |
| 33 |   | O&M Adjustment - Note 1   | (9,591)       | 111,213                  | 11,179        | (18,979)      | (17,979)                 | (75,845)      |   |
| 34 |   | Adjusted Annual O&M   | 4,134,918     | 4,218,575                | 4,306,856     | 4,394,541     | 4,483,545                | 4,573,608     |   |
| 35 |   |   |               |                          |               |               |                          |               |   |
| 36 |   | Debt Service Payments @ 4.25% - Note 2  | 11,620,481    | 11,620,481               | 11,620,481    | 11,620,481    | 11,620,481               | 11,620,481    |   |
| 37 |   |   |               |                          |               |               |                          |               |   |
| 38 |   | Total Amounts Paid - 7(b)(2) Case Rates,  | 15,755,398    | 15,839,056               | 15,927,337    | 16,015,022    | 16,104,026               | 16,194,088    |   |
| 39 |   | assuming resource selection FY 2010.  |               |                          |               |               |                          |               |   |
| 40 |   |   |               |                          |               |               |                          |               |   |
| 41 |   | Average Annual Energy Output/@ 26.0MWh <sup>3</sup>   | 227,760       | 227,760                  | 227,760       | 227,760       | 227,760                  | 227,760       |   |
| 42 |   |   |               |                          |               |               |                          |               |   |
| 43 |   | Cost per MWh  | \$69.18       | \$69.54                  | \$69.93       | \$70.32       | \$70.71                  | \$71.10       |   |
| 44 |   |   |               |                          |               |               |                          |               |   |
| 45 |   |   |               |                          |               |               |                          |               |   |
| 46 |   | <b>Notes:</b>   |               |                          |               |               |                          |               |   |
| 47 |   | <b>Note 1</b> - Due to model escalation of O&M, the average projected annual cost for O&M and Transmission costs of \$4,133,728 for |               |                          |               |               |                          |               |   |
| 48 |   | FY2010-2015 stated in real 2010 dollars in the Program Case amount was increased by \$ 1,190, so that the average annual            |               |                          |               |               |                          |               |   |
| 49 |   | escalated costs during the rate test period were equal to the average Program Case costs. This adjustment is necessary to ensure    |               |                          |               |               |                          |               |   |
| 50 |   | that these costs are similar between the Program Case and the 7(b)(2) Case. This adjustment results in the sum of O&M and           |               |                          |               |               |                          |               |   |
| 51 |   | Transmission Costs for FY 2010 being decreased by (\$ 9,591). The FY 2010 adjusted amount of \$4,134,918 is then escalated          |               |                          |               |               |                          |               |   |
| 52 |   | in the rates model using the Cumulative GDP Inflation /Deflator values that are reflected in the table below.                       |               |                          |               |               |                          |               |   |
| 53 |   |   |               |                          |               |               |                          |               |   |
| 54 |   |   |               |                          |               |               |                          |               |   |
| 55 |   |   |               |                          |               |               |                          |               |   |
| 56 |   |   |               |                          |               |               |                          |               |   |
| 57 |   |   |               |                          |               |               |                          |               |   |
| 58 |   |   |               |                          |               |               |                          |               |   |
| 59 |   |   |               |                          |               |               |                          |               |   |
| 60 |   |   |               |                          |               |               |                          |               |   |
| 61 |   |   |               |                          |               |               |                          |               |   |

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|     | A | B  | C                                | D        | E         | F            | G                 | H             | I |
|-----|---|--|----------------------------------|----------|-----------|--------------|-------------------|---------------|---|
| 1   |   | <b>WP-10 Wholesale Power Rate Case</b>   |                                  |          |           |              |                   |               |   |
| 2   |   | <b>Section 7(b)(2) Resource Stack - Cowlitz Falls Hydro Resource - Projected Costs FY 2010-2015</b>                                  |                                  |          |           |              |                   |               |   |
| 3   |   | <b>Draft - Updated Proposed Cost Projections for Final Rate Proposal</b>   |                                  |          |           |              |                   |               |   |
| 4   |   | <b>Purchase Power Contract</b>   |                                  |          |           |              |                   |               |   |
| 62  |   |  |                                  |          |           |              |                   |               |   |
| 63  |   |  |                                  |          |           |              |                   |               |   |
| 64  |   | <b>Note 1 - continued</b>  |                                  |          |           |              |                   |               |   |
| 65  |   |  |                                  |          |           |              |                   |               |   |
| 66  |   |  | Total Annual                     | GDP      |           |              | 7(b)(2) Case      | 7(b)(2) Case  |   |
| 67  |   |  | O&M Before                       | Deflator | 2010\$\$  |              | Escalated         | Over /(Under) |   |
| 68  |   |  | Adjustment                       | 2010\$\$ | Real      | Program Case | Cost              | Program       |   |
| 69  |   |  | Conversion                       |          | Pricing   | Nominal \$\$ | Projections       | Case          |   |
| 70  |   | FY2010   | 4,144,509                        | 1.000000 | 4,144,509 | 4,144,509    | 4,134,918         | (9,591)       |   |
| 71  |   | FY2011   | 4,107,362                        | 1.020232 | 4,025,910 | 4,107,362    | 4,218,575         | 111,213       |   |
| 72  |   | FY2012   | 4,295,677                        | 1.041582 | 4,124,185 | 4,295,677    | 4,306,856         | 11,179        |   |
| 73  |   | FY2013   | 4,413,520                        | 1.062788 | 4,152,776 | 4,413,520    | 4,394,541         | (18,979)      |   |
| 74  |   | FY2014   | 4,501,524                        | 1.084313 | 4,151,499 | 4,501,524    | 4,483,545         | (17,979)      |   |
| 75  |   | FY2015   | 4,649,453                        | 1.106094 | 4,203,488 | 4,649,453    | 4,573,608         | (75,845)      |   |
| 76  |   | Averages   | 4,352,008                        |          | 4,133,728 |              | Total Differences | (2)           |   |
| 77  |   |  | Program Case Price Adjustment    |          | 1,190     |              |                   |               |   |
| 78  |   |  | 7(b)(2) Case Pricing - 2010 \$\$ |          | 4,134,918 |              |                   |               |   |
| 79  |   | <b>Note 2</b> - Calculation of 7(b)(2) Debt Service - Average annual program case debt service FY2010-2015 = 11,551,134 Program Case |                                  |          |           |              |                   |               |   |
| 80  |   | Debt Service. Assuming 30 yr term financing at interest rate of 4.20% in the program case, the PV of the payment stream of 30        |                                  |          |           |              |                   |               |   |
| 81  |   | annual payments at an interest rate of 4.20% = Principle Amount Financed FY 2010 = 194,980,245 . In the 7(b)(2) Case, the            |                                  |          |           |              |                   |               |   |
| 82  |   | debt service payments associated with retiring a principle amount of annual debt service payments for a principle amount of          |                                  |          |           |              |                   |               |   |
| 83  |   | \$195,148,632, @ 4.25% = 11,620,481 This amount was entered into the annual capital cost column of the                               |                                  |          |           |              |                   |               |   |
| 84  |   | "7(b)(2) Resource Sort" tab in the rates model to minimize the models escalation of fixed amounts of debt service.                   |                                  |          |           |              |                   |               |   |
| 85  |   | <b>Note 3</b> - Firm average energy value (aMW) was obtained from Table 5 of the March 2007 BPA, 2007 Pacific Northwest Loads        |                                  |          |           |              |                   |               |   |
| 86  |   | and Resources Study on page 23.  |                                  |          |           |              |                   |               |   |
| 87  |   |  |                                  |          |           |              |                   |               |   |
| 88  |   |  |                                  |          |           |              |                   |               |   |
| 89  |   |  |                                  |          |           |              |                   |               |   |
| 90  |   |  |                                  |          |           |              |                   |               |   |
| 91  |   |  |                                  |          |           |              |                   |               |   |
| 92  |   |  |                                  |          |           |              |                   |               |   |
| 93  |   |  |                                  |          |           |              |                   |               |   |
| 94  |   |  |                                  |          |           |              |                   |               |   |
| 95  |   |  |                                  |          |           |              |                   |               |   |
| 96  |   |  |                                  |          |           |              |                   |               |   |
| 97  |   |  |                                  |          |           |              |                   |               |   |
| 98  |   |  |                                  |          |           |              |                   |               |   |
| 99  |   |  |                                  |          |           |              |                   |               |   |
| 100 |   |  |                                  |          |           |              |                   |               |   |
| 101 |   |  |                                  |          |           |              |                   |               |   |
| 102 |   |  |                                  |          |           |              |                   |               |   |
| 103 |   |  |                                  |          |           |              |                   |               |   |
| 104 |   |  |                                  |          |           |              |                   |               |   |
| 105 |   |  |                                  |          |           |              |                   |               |   |
| 106 |   |  |                                  |          |           |              |                   |               |   |
| 107 |   |  |                                  |          |           |              |                   |               |   |
| 108 |   |  |                                  |          |           |              |                   |               |   |
| 109 |   |  |                                  |          |           |              |                   |               |   |
| 110 |   |  |                                  |          |           |              |                   |               |   |

|    | A   | B      | C         | D            | E     | F            | G            |
|----|---|--------|-----------|--------------|-------|--------------|--------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |        |           |              |       |              |              |
| 2  | <b>Section 7(b)(2) Resource Stack - Cowlitz Falls Hydro Project Resource for FY 2010-2015</b> |        |           |              |       |              |              |
| 3  | <b>Purchase Power Contract</b>  |        |           |              |       |              |              |
| 4  |   |        |           |              |       |              |              |
| 5  | <b>Cowlitz Falls Power Purchase Contract - Projected Cost Comparisons</b>                     |        |           |              |       |              |              |
| 6  | <b>Initial Rate Proposal and Projected Final Rate Proposal Amounts</b>                        |        |           |              |       |              |              |
| 7  |   |        |           |              |       |              |              |
| 8  | <b><u>Current IPR 1 - Program Case Amounts - Initial Rate Proposal:</u></b>                   |        |           |              |       |              |              |
| 9  |   |        |           |              |       |              |              |
| 10 |   |        | Annual    | Annual       |       |              |              |
| 11 |   |        | Energy    | Purchased    |       |              |              |
| 12 |   |        | Purchased | Power        | Other | Total        |              |
| 13 |   |        | MWh       | Cost         | Costs | Cost         |              |
| 14 |   | FY2010 | 227,760   | \$15,250,500 | \$0   | \$15,250,500 |              |
| 15 |   | FY2011 | 227,760   | \$15,278,800 | \$0   | \$15,278,800 |              |
| 16 |   | FY2012 | 227,760   | \$15,346,500 | \$0   | \$15,346,500 |              |
| 17 |   | FY2013 | 227,760   | \$15,361,500 | \$0   | \$15,361,500 |              |
| 18 |   | FY2014 | 227,760   | \$15,385,500 | \$0   | \$15,385,500 |              |
| 19 |   | FY2015 | 227,760   | \$15,403,341 | \$0   | \$15,403,341 |              |
| 20 |   |        |           |              |       |              |              |
| 21 |   |        |           |              |       |              |              |
| 22 | (A) - 7(b)(2) Case Initial Proposal - Adjusted FY 2010 Power Purchase Cost Amount =           |        |           |              |       |              | \$15,218,153 |
| 23 |   |        |           |              |       |              |              |
| 24 | <b><u>Preliminary Projected IPR-2 - Program Case Amount - Final Rate Proposal</u></b>         |        |           |              |       |              |              |
| 25 |   |        |           |              |       |              | Increase In  |
| 26 |   |        | Annual    | Annual       |       |              | Annual       |
| 27 |   |        | Energy    | Purchased    |       |              | Power        |
| 28 |   |        | Purchased | Power        | Other | Total        | Purchase     |
| 29 |   |        | MWh       | Cost         | Costs | Cost         | Costs        |
| 30 |   | FY2010 | 227,760   | \$15,710,509 | \$0   | \$15,710,509 | \$460,009    |
| 31 |   | FY2011 | 227,760   | \$15,670,362 | \$0   | \$15,670,362 | \$391,562    |
| 32 |   | FY2012 | 227,760   | \$15,854,677 | \$0   | \$15,854,677 | \$508,177    |
| 33 |   | FY2013 | 227,760   | \$15,959,520 | \$0   | \$15,959,520 | \$598,020    |
| 34 |   | FY2014 | 227,760   | \$16,043,524 | \$0   | \$16,043,524 | \$658,024    |
| 35 |   | FY2015 | 227,760   | \$16,180,259 | \$0   | \$16,180,259 | \$776,918    |
| 36 |   |        |           |              |       |              |              |
| 37 |   |        |           |              |       |              |              |
| 38 | (B) - 7(b)(2) Case Adjusted FY 2010 Projected Final Rate Case Power Purchase Cost Amount =    |        |           |              |       |              | \$15,755,398 |
| 39 |   |        |           |              |       |              |              |
| 40 |   |        |           |              |       |              |              |
| 41 | Preliminary Projected Increase in 7(b)(2) Case Adjusted FY 2010 Power                         |        |           |              |       |              |              |
| 42 | Purchase Cost Amount Between Initial Proposal Cost and Final Proposal Cost (B-A) =            |        |           |              |       |              | \$537,245    |
| 43 |   |        |           |              |       |              |              |
| 44 | Page 5 of 5   |        |           |              |       |              |              |



|    | A | B | C | D | E | F | G | H | I | J |
|----|---|---|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |   |   |
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| 12 |   |   |   |   |   |   |   |   |   |   |
| 13 |   |   |   |   |   |   |   |   |   |   |
| 14 |   |   |   |   |   |   |   |   |   |   |
| 15 |   |   |   |   |   |   |   |   |   |   |
| 16 |   |   |   |   |   |   |   |   |   |   |
| 17 |   |   |   |   |   |   |   |   |   |   |
| 18 |   |   |   |   |   |   |   |   |   |   |
| 19 |   |   |   |   |   |   |   |   |   |   |
| 20 |   |   |   |   |   |   |   |   |   |   |
| 21 |   |   |   |   |   |   |   |   |   |   |
| 22 |   |   |   |   |   |   |   |   |   |   |
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| 30 |   |   |   |   |   |   |   |   |   |   |
| 31 |   |   |   |   |   |   |   |   |   |   |
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| 37 |   |   |   |   |   |   |   |   |   |   |
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| 39 |   |   |   |   |   |   |   |   |   |   |
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|     | A  | B | C | D | E | F | G | H | I | J |
|-----|--|---|---|---|---|---|---|---|---|---|
| 1   | BPA's 2010 Wholesale Power Rate Case   |   |   |   |   |   |   |   |   |   |
| 2   | Section 7(b)(2) Resource Stack - Idaho Falls Hydro Project Resource for FY 2010-2015   |   |   |   |   |   |   |   |   |   |
| 3   | Purchase Power Contract  |   |   |   |   |   |   |   |   |   |
| 63  |  |   |   |   |   |   |   |   |   |   |
| 64  | Notes - continued:   |   |   |   |   |   |   |   |   |   |
| 65  |  |   |   |   |   |   |   |   |   |   |
| 66  | Table A-4: Regional Independent Hydro Projects, PNW Loads and Resource Study, 2009 -   |   |   |   |   |   |   |   |   |   |
| 67  | 2010 Fiscal Years, [51] 2007 Final Supplemental Rate Case (Final), 1937 Water Year, 7/17/2008                                  |   |   |   |   |   |   |   |   |   |
| 68  | Projected annual hydro production for Idaho Falls Resource = 18.5 aMW 8,760 = 162,060  |   |   |   |   |   |   |   |   |   |
| 69  |  |   |   |   |   |   |   |   |   |   |
| 70  | 2007 BPA White Book Resource Values Table 5, page 23   |   |   |   |   |   |   |   |   |   |
| 71  |  |   |   |   |   |   |   |   |   |   |
| 72  | Date in Service 1982 Total Annual Energy @ 18 157,680  |   |   |   |   |   |   |   |   |   |
| 73  | Capacity Peak MW 18 Total Annual Energy @ 19 166,440   |   |   |   |   |   |   |   |   |   |
| 74  | Firm energy aMW 19 LARIS average @ 18.5 aMW 162,060  |   |   |   |   |   |   |   |   |   |
| 75  |  |   |   |   |   |   |   |   |   |   |
| 76  | Note 3 - BPA is hopeful that a new power purchase contract with Idaho Falls Power will be negotiated before the time when      |   |   |   |   |   |   |   |   |   |
| 77  | final studies for the WP-10 Rate Case needs to be produced. The cost of power is expected to increase under the new            |   |   |   |   |   |   |   |   |   |
| 78  | contract and thus the cost of power for FY2012-2015 on a MWh basis per the Initial Proposal's cost projections are             |   |   |   |   |   |   |   |   |   |
| 79  | understated. See the following preliminary projection of the quantity and cost for the Idaho Falls resource for the Final      |   |   |   |   |   |   |   |   |   |
| 80  | Proposal on pages 3 and 4. The Final Rate Proposal pricing amounts will reflect the new power purchase contract amounts.       |   |   |   |   |   |   |   |   |   |
| 81  |  |   |   |   |   |   |   |   |   |   |
| 82  | Note 4 - Any additional costs associated with the purchase and administration of this contract is already reflected in BPA's   |   |   |   |   |   |   |   |   |   |
| 83  | Program Case Revenue Requirement for salaries and general and administrative overhead amounts. Thus this cost amount           |   |   |   |   |   |   |   |   |   |
| 84  | which was incorrectly included in the IPR amounts and the Initial Proposal will be removed for the Final Rate Proposal.        |   |   |   |   |   |   |   |   |   |
| 85  |  |   |   |   |   |   |   |   |   |   |
| 86  | Note 5 - Due to the rate model's escalation of O&M (escalation of the contract price amount by annual inflation), the          |   |   |   |   |   |   |   |   |   |
| 87  | average projected price amount (stated in 2010 \$\$\$) of \$6,436,443 that is applicable to the Program Case amount was        |   |   |   |   |   |   |   |   |   |
| 88  | decreased by (\$321,1,067) to \$6,115,376. This adjustment is necessary so that the average escalated rate during the rate     |   |   |   |   |   |   |   |   |   |
| 89  | test period is equal to the average Program Case annual cost. The FY 2010 amount of \$6,115,376 is then escalated in the rates |   |   |   |   |   |   |   |   |   |
| 90  | model using the Cumulative GDP Inflator /Deflator values that are reflected in the above table.                                |   |   |   |   |   |   |   |   |   |
| 91  |  |   |   |   |   |   |   |   |   |   |
| 92  |  |   |   |   |   |   |   |   |   |   |
| 93  |  |   |   |   |   |   |   |   |   |   |
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| 105 |  |   |   |   |   |   |   |   |   |   |
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| 108 |  |   |   |   |   |   |   |   |   |   |
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| 111 |  |   |   |   |   |   |   |   |   |   |
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| 113 |  |   |   |   |   |   |   |   |   |   |
| 114 |  |   |   |   |   |   |   |   |   |   |
| 115 |  |   |   |   |   |   |   |   |   |   |
| 116 |  |   |   |   |   |   |   |   |   |   |
| 117 |  |   |   |   |   |   |   |   |   |   |
| 118 | Page 2 of 5  |   |   |   |   |   |   |   |   |   |
| 119 |  |   |   |   |   |   |   |   |   |   |
| 120 |  |   |   |   |   |   |   |   |   |   |
| 121 |  |   |   |   |   |   |   |   |   |   |

|    | A   | B       | C                 | D              | E                   | F                  | G                   | H                  |
|----|---|---------|-------------------|----------------|---------------------|--------------------|---------------------|--------------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |         |                   |                |                     |                    |                     |                    |
| 2  | <b>Section 7(b)(2) Resource Stack - Idaho Falls Hydro Project Resource for FY 2010-2015</b>                           |         |                   |                |                     |                    |                     |                    |
| 3  | <b>Purchase Power Contract</b>  |         |                   |                |                     |                    |                     |                    |
| 4  |   |         |                   |                |                     |                    |                     |                    |
| 5  | <b><u>IPR -2 Budget Projections March-April 2009 - Preliminary Final Rate Proposal Projections:</u></b>               |         |                   |                |                     |                    |                     |                    |
| 6  |   |         |                   |                |                     |                    |                     |                    |
| 7  | <b>Idaho Falls Hydro Project Resource - Purchase Power Cost Projections:</b>  |         |                   |                |                     |                    |                     |                    |
| 8  |   |         |                   |                |                     |                    |                     |                    |
| 9  |   |         |                   |                | <u>MWh</u>          | <u>\$/MWh</u>      | <u>FY2010-\$\$</u>  | <u>FY2015-\$\$</u> |
| 10 | Annual Power Purchase Cost  |         |                   |                | 121,747             | \$44.78            | \$5,451,346         | 6,029,702          |
| 11 | Placed in service   |         |                   |                |                     |                    | 1982                | 1982               |
| 12 | Projected Average Annual Energy Output <sup>3</sup>   |         |                   |                |                     |                    | 121,747             | 121,747            |
| 13 | Average Hourly Energy aMW   |         |                   |                |                     |                    | 13.9                | 13.9               |
| 14 | Cost per MWh <sup>1,2</sup>   |         |                   |                |                     |                    | \$44.78             | \$49.53            |
| 15 | Estimated remaining useful life = 60 years  |         |                   |                |                     |                    | 60 years            | 60 years           |
| 16 |   |         |                   |                |                     |                    |                     |                    |
| 17 |   |         |                   |                |                     |                    |                     |                    |
| 18 | <b><u>Projected Purchase Power Contract Pricing with Idaho Falls Power</u></b>  |         |                   |                |                     |                    |                     |                    |
| 19 |   |         |                   |                |                     |                    |                     |                    |
| 20 |   |         | GDP               |                | Projected           |                    |                     |                    |
| 21 |   |         | Deflator          | 2010\$\$       | Program Case        | 7(b)(2) Case       | 7(b)(2) Case        |                    |
| 22 | Projected   |         | 2010\$\$          | Real           | Revenue Requirement | Escalated          | Over                |                    |
| 23 | <u>Contract Price<sup>1,2</sup></u>   |         | <u>Conversion</u> | <u>Pricing</u> | <u>Nominal \$\$</u> | <u>Projections</u> | <u>Program Case</u> |                    |
| 24 | FY 2010   | \$39.05 | 1.000000          | 39.05          | 4,754,237           | 5,451,346          | 697,109             |                    |
| 25 | FY 2011   | \$39.05 | 1.020232          | 38.28          | 4,754,237           | 5,561,638          | 807,401             |                    |
| 26 | FY 2012   | \$47.26 | 1.041582          | 45.37          | 5,753,783           | 5,678,024          | (75,759)            |                    |
| 27 | FY 2013   | \$50.73 | 1.062788          | 47.73          | 6,176,247           | 5,793,626          | (382,621)           |                    |
| 28 | FY 2014   | \$52.47 | 1.084313          | 48.39          | 6,388,088           | 5,910,966          | (477,122)           |                    |
| 29 | FY 2015   | \$54.20 | 1.106094          | 49.00          | 6,598,711           | 6,029,702          | (569,009)           |                    |
| 30 |   |         |                   |                |                     |                    |                     |                    |
| 31 | Averages  | \$47.13 |                   | 44.64          | 5,737,550.48        | Total Difference   | (1)                 |                    |
| 32 | Program Case Price Adjustment - Note 3  |         |                   |                | 0.14                | (286,204.00)       |                     |                    |
| 33 | 7(b)(2) Case Pricing - 2010\$\$   |         |                   |                | 44.78               | 5,451,346.48       |                     |                    |
| 34 |   |         |                   |                |                     |                    |                     |                    |
| 35 | Projected Average Annual Energy Output <sup>3</sup>   |         |                   |                | 121,747             |                    |                     |                    |
| 36 |   |         |                   |                |                     |                    |                     |                    |
| 37 | Cost per MWh  |         |                   |                | 44.775865           |                    |                     |                    |
| 38 |   |         |                   |                |                     |                    |                     |                    |
| 39 | <b><u>Notes:</u></b>  |         |                   |                |                     |                    |                     |                    |
| 40 | <b><u>Note 1</u></b> - Projected Contract Pricing MWh - \$39.05 at contract cap rate, cost of power is expected to be |         |                   |                |                     |                    |                     |                    |
| 41 | at the current contract cap during the remaining years of the current contract that expires on September 30,          |         |                   |                |                     |                    |                     |                    |
| 42 | 2011. Only one month in FY 2007 and one month in FY 2008 were billed at a rate below the contract cap.                |         |                   |                |                     |                    |                     |                    |
| 43 |   |         |                   |                |                     |                    |                     |                    |
| 44 | <b><u>Note 2</u></b> - Projected new contract's floor and cap amounts are projected to be \$40.32/MWh and             |         |                   |                |                     |                    |                     |                    |
| 45 | \$54.20/MWh respectively, a 39% increase over the current contract pricing. It is anticipated that the new            |         |                   |                |                     |                    |                     |                    |
| 46 | power purchase contract would cover the five-year period 10/01/11 through 09/30/16. Projected average                 |         |                   |                |                     |                    |                     |                    |
| 47 | prices for the last 4-years of the rate test period under the new contract:   |         |                   |                |                     |                    |                     |                    |
| 48 |   |         |                   |                |                     |                    |                     |                    |
| 49 | FY 2012 - \$47.26 - Average price at the midpoint of the floor and cap.   |         |                   |                |                     |                    |                     |                    |
| 50 | FY 2013 - \$50.73 - 25% of the time the pricing would be at the floor and 75% of the time pricing would be            |         |                   |                |                     |                    |                     |                    |
| 51 | at the cap.   |         |                   |                |                     |                    |                     |                    |
| 52 | FY 2014 - \$52.47 - 12.5% of the time pricing would be at the floor, 87.5% percent of the time pricing would be       |         |                   |                |                     |                    |                     |                    |
| 53 | at the cap.   |         |                   |                |                     |                    |                     |                    |
| 54 | FY 2015 - \$54.20 - 100% of the time the pricing would be at the contract cap.  |         |                   |                |                     |                    |                     |                    |
| 55 |   |         |                   |                |                     |                    |                     |                    |
| 56 | These pricing assumptions will be revised as needed for the Final Studies pending the negotiation of a                |         |                   |                |                     |                    |                     |                    |
| 57 | new contract between Idaho Falls Power and BPA.   |         |                   |                |                     |                    |                     |                    |
| 58 |   |         |                   |                |                     |                    |                     |                    |
| 59 | Page 3 of 5   |         |                   |                |                     |                    |                     |                    |
| 60 |   |         |                   |                |                     |                    |                     |                    |

|     | A   | B | C                   | D              | E                        | F             | G | H       |
|-----|---|---|---------------------|----------------|--------------------------|---------------|---|---------|
| 1   | <b>BPA's 2010 Wholesale Power Rate Case</b>   |   |                     |                |                          |               |   |         |
| 2   | <b>Section 7(b)(2) Resource Stack - Idaho Falls Hydro Project Resource for FY 2010-2015</b>                   |   |                     |                |                          |               |   |         |
| 3   | <b>Purchase Power Contract</b>  |   |                     |                |                          |               |   |         |
| 61  |   |   |                     |                |                          |               |   |         |
| 62  |   |   |                     |                |                          |               |   |         |
| 63  | <b>Notes - continued:</b>   |   |                     |                |                          |               |   |         |
| 65  | <b>Note 3</b> - The projected average annual energy output/purchase amount from the Idaho Falls Project is    |   |                     |                |                          |               |   |         |
| 66  | projected at the seven-year average of FY 2002-2008 which was 121,747 MWhs. This results in an Average        |   |                     |                |                          |               |   |         |
| 67  | Hourly Energy amount of 13.9aMW. The White Book average energy amounts (18.5 aMW -1937 Water) for this        |   |                     |                |                          |               |   |         |
| 68  | resource are overstated, they are currently being reviewed and are expected to be revised downward to         |   |                     |                |                          |               |   |         |
| 69  | approximately 12.0 aMW - 1937 Water Year, for the Final Rate Case Study documentation.                        |   |                     |                |                          |               |   |         |
| 70  |   |   |                     |                |                          |               |   |         |
| 71  | <b>Historical Generation / Purchases from IFP</b>   |   |                     |                |                          |               |   |         |
| 72  |   |   |                     | Capacity       |                          | Average       |   |         |
| 73  |   |   | Annual              | Factor         |                          | Hourly        |   |         |
| 74  | <u>W/P Reference</u>  |   | <u>Energy - MWh</u> | <u>@18 aMW</u> |                          | <u>Energy</u> |   |         |
| 75  | 2002  |   | 111,255             | 70.56%         |                          |               |   |         |
| 76  | 2003  |   | 113,442             | 71.94%         |                          |               |   |         |
| 77  | 2004  |   | 110,924             | 70.35%         |                          |               |   |         |
| 78  | 2005  |   | 119,434             | 75.74%         |                          |               |   |         |
| 79  | 2006  |   | 140,771             | 89.28%         |                          |               |   |         |
| 80  | 2007  |   | 140,898             | 89.36%         |                          |               |   |         |
| 81  | 2008  |   | 115,508             | 73.25%         |                          |               |   |         |
| 82  | 7-Year Average  |   | 121,747             | 77.21%         |                          | 13.90         |   |         |
| 83  |   |   |                     |                |                          |               |   |         |
| 84  |   |   |                     |                |                          |               |   |         |
| 85  | <b>Table A-4: Regional Independent Hydro Projects, PNW Loads and Resource Study, 2009 -</b>                   |   |                     |                |                          |               |   |         |
| 86  | <b>2010 Fiscal Years, [51] 2007 Final Supplemental Rate Case (Final), 1937 Water Year, 7/17/2008</b>          |   |                     |                |                          |               |   |         |
| 87  | Projected annual hydro production for Idaho Falls Resource = 18.5 aMW 8,760 =                                 |   |                     |                |                          |               |   | 162,060 |
| 88  |   |   |                     |                |                          |               |   |         |
| 89  | <u>2007 BPA White Book Resource Values Table 5, page 23</u>   |   |                     |                |                          |               |   |         |
| 90  |   |   |                     |                |                          |               |   |         |
| 91  | Date in Service   |   | 1982                |                | Total Annual Energy @ 18 |               |   | 157,680 |
| 92  | Capacity Peak MW  |   | 18                  |                | Total Annual Energy @ 19 |               |   | 166,440 |
| 93  | Firm energy aMW   |   | 19                  |                | LARIS average @ 18.5 aMW |               |   | 162,060 |
| 94  |   |   |                     |                |                          |               |   |         |
| 95  | <b>Note 4</b> - Due to model escalation of O&M (escalation of the contract price amount by annual inflation), |   |                     |                |                          |               |   |         |
| 96  | the average annual power purchase cost was decreased from \$5,737,550 to \$5,451,346 a difference of          |   |                     |                |                          |               |   |         |
| 97  | (\$286,204). This resulted in a increase in the projected average annual cost per MWh of \$0.14 to \$44.78    |   |                     |                |                          |               |   |         |
| 98  | (stated in 2010 \$\$\$) that is applicable to the 7(b)(2) Case amount. This adjustment was necessary so       |   |                     |                |                          |               |   |         |
| 99  | that the average escalated rate during the rate test period was equal to the average Program Case rate,       |   |                     |                |                          |               |   |         |
| 100 | so that the average cost for this resource was similar between the Program Case and the 7(b)(2) Case.         |   |                     |                |                          |               |   |         |
| 101 |   |   |                     |                |                          |               |   |         |
| 102 |   |   |                     |                |                          |               |   |         |
| 103 |   |   |                     |                |                          |               |   |         |
| 104 |   |   |                     |                |                          |               |   |         |
| 105 |   |   |                     |                |                          |               |   |         |
| 106 |   |   |                     |                |                          |               |   |         |
| 107 |   |   |                     |                |                          |               |   |         |
| 108 |   |   |                     |                |                          |               |   |         |
| 109 |   |   |                     |                |                          |               |   |         |
| 110 |   |   |                     |                |                          |               |   |         |
| 111 |   |   |                     |                |                          |               |   |         |
| 112 |   |   |                     |                |                          |               |   |         |
| 113 |   |   |                     |                |                          |               |   |         |
| 114 |   |   |                     |                |                          |               |   |         |
| 115 |   |   |                     |                |                          |               |   |         |
| 116 | Page 4 of 5   |   |                     |                |                          |               |   |         |
| 117 |   |   |                     |                |                          |               |   |         |
| 118 |   |   |                     |                |                          |               |   |         |
| 119 |   |   |                     |                |                          |               |   |         |

|    | A  | B         | C        | D           | E         | F           | G              | H |
|----|--|-----------|----------|-------------|-----------|-------------|----------------|---|
| 1  | BPA's 2010 Wholesale Power Rate Case   |           |          |             |           |             |                |   |
| 2  | Section 7(b)(2) Resource Stack - Idaho Falls Hydro Project Resource for FY 2010-2015       |           |          |             |           |             |                |   |
| 3  | Purchase Power Contract  |           |          |             |           |             |                |   |
| 4  |  |           |          |             |           |             |                |   |
| 5  | Idaho Falls Bulb Turbine Power Purchase Contract - Projected Cost Comparisons              |           |          |             |           |             |                |   |
| 6  | Initial Rate Proposal and Projected Final Rate Proposal Amounts                            |           |          |             |           |             |                |   |
| 7  |  |           |          |             |           |             |                |   |
| 8  | <u>Current IPR - Program Case Amounts - Initial Rate Proposal:</u>                         |           |          |             |           |             |                |   |
| 9  |  |           |          |             |           |             |                |   |
| 10 |  | Annual    | Contract | Annual      |           |             |                |   |
| 11 |  | Energy    | Purchase | Purchased   |           |             |                |   |
| 12 |  | Purchased | Purchase | Power       | Other     | Total       |                |   |
| 13 |  | MWh       | Price    | Cost        | Costs     | Cost        |                |   |
| 14 | FY2010   | 162,060   | \$39.05  | \$6,328,443 | \$108,000 | \$6,436,443 |                |   |
| 15 | FY2011   | 162,060   | \$39.05  | \$6,328,443 | \$108,000 | \$6,436,443 |                |   |
| 16 | FY2012   | 162,060   | \$39.05  | \$6,328,443 | \$108,000 | \$6,436,443 |                |   |
| 17 | FY2013   | 162,060   | \$39.05  | \$6,328,443 | \$108,000 | \$6,436,443 |                |   |
| 18 | FY2014   | 162,060   | \$39.05  | \$6,328,443 | \$108,000 | \$6,436,443 |                |   |
| 19 | FY2015   | 162,060   | \$39.05  | \$6,328,443 | \$108,000 | \$6,436,443 |                |   |
| 20 |  |           |          |             |           |             |                |   |
| 21 | (A) - 7(b)(2) Case Initial Proposal - Adjusted FY 2010 Power Purchase Cost Amount =        |           |          |             |           |             | \$6,115,376    |   |
| 22 |  |           |          |             |           |             |                |   |
| 23 | <u>Preliminary Projected - Program Case Amount - Final Rate Proposal</u>                   |           |          |             |           |             |                |   |
| 24 |  |           |          |             |           |             | Increase       |   |
| 25 |  |           |          |             |           |             | (Decrease)     |   |
| 26 |  | Annual    | Contract | Annual      |           |             | In Annual      |   |
| 27 |  | Energy    | Purchase | Purchased   |           |             | Power          |   |
| 28 |  | Purchased | Purchase | Power       | Other     | Total       | Purchase       |   |
| 29 |  | MWh       | Price    | Cost        | Costs     | Cost        | Costs          |   |
| 30 | FY2010   | 121,747   | \$39.05  | \$4,754,237 | \$0       | \$4,754,237 | (\$1,682,206)  |   |
| 31 | FY2011   | 121,747   | \$39.05  | \$4,754,237 | \$0       | \$4,754,237 | (\$1,682,206)  |   |
| 32 | FY2012   | 121,747   | \$47.26  | \$5,753,783 | \$0       | \$5,753,783 | (\$682,660)    |   |
| 33 | FY2013   | 121,747   | \$50.73  | \$6,176,247 | \$0       | \$6,176,247 | (\$260,196)    |   |
| 34 | FY2014   | 121,747   | \$52.47  | \$6,388,088 | \$0       | \$6,388,088 | (\$48,355)     |   |
| 35 | FY2015   | 121,747   | \$54.20  | \$6,598,711 | \$0       | \$6,598,711 | \$162,268      |   |
| 36 |  |           |          |             |           |             |                |   |
| 37 | (B) - 7(b)(2) Case Adjusted FY 2010 Projected Final Rate Case Power Purchase Cost Amount = |           |          |             |           |             | 5,451,346      |   |
| 38 |  |           |          |             |           |             |                |   |
| 39 | Preliminary Projected Decrease in 7(b)(2) Case Adjusted FY 2010 Power                      |           |          |             |           |             |                |   |
| 40 | Purchase Cost Amount Between Initial Proposal Cost and Final Proposal Cost (B-A) =         |           |          |             |           |             | (\$664,029.52) |   |
| 41 |  |           |          |             |           |             |                |   |
| 42 |  |           |          |             |           |             |                |   |
| 43 |  |           |          |             |           |             |                |   |
| 44 |  |           |          |             |           |             |                |   |
| 45 |  |           |          |             |           |             |                |   |
| 46 |  |           |          |             |           |             |                |   |
| 47 |  |           |          |             |           |             |                |   |
| 48 |  |           |          |             |           |             |                |   |
| 49 |  |           |          |             |           |             |                |   |

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AUTHENTICATED

Contract No. 06PB-11734

**POWER PURCHASE AGREEMENT**

executed by the

**BONNEVILLE POWER ADMINISTRATION**

and

**IDAHO FALLS POWER**

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|                | <b>Exhibit B    Contract Price Methodology</b>         |             |

This POWER PURCHASE AGREEMENT (Agreement) is executed by the UNITED STATES OF AMERICA, Department of Energy, acting by and through the BONNEVILLE POWER ADMINISTRATION (BPA) and the CITY OF IDAHO FALLS, doing business as IDAHO FALLS POWER (Idaho Falls) a municipal corporation organized under the laws of the State of Idaho. BPA and Idaho Falls are sometimes referred to individually as "Party" and collectively as "Parties."

## RECITALS

BPA is authorized by Federal law, including the Pacific Northwest Electric Power Planning and Conservation Act (Public Law 96-501, the "Northwest Power Act") and other applicable laws, to dispose of electric power generated at various Federal hydroelectric projects in the Pacific Northwest or acquired from other resources.

Idaho Falls owns and operates hydro generation units in and around the City of Idaho Falls collectively known as the Bulb Turbine Project (Project). BPA currently purchases all of the Project power output under Power Purchase Agreement No. 00PB-10710 as amended, which terminates at 2400 hours on September 30, 2006.

The Parties agree:

**1. TERM**

This Agreement shall take effect on the date signed by BPA and Idaho Falls. Power deliveries shall commence on the hour beginning 0000 on October 1, 2006, and continue through the hour ending 2400 on September 30, 2011.

**2. DEFINITIONS**

Capitalized terms in this Agreement shall have the meanings defined below, in the exhibits or in the body of this Agreement.

- (a) "Contracted Power" means the metered, monthly Project Power Output minus the monthly Station Service, both in MWh, delivered to BPA at the Point of Receipt.
- (b) "Federal System" means the facilities of the Federal Columbia River Power System, including the Federal generating facilities for which BPA is designated as marketing agent; the federal facilities under the jurisdiction of BPA; and any other facilities:
  - (1) from which BPA receives all or a portion of the generating capability (other than Station Service) for use in meeting BPA's loads to the extent BPA has the right to receive such capability.
  - (2) which BPA may use under contract or license; or
  - (3) to the extent of the rights acquired by BPA pursuant to the 1961 U.S.-Canada Treaty relating to the cooperative development of water resources of the Columbia River Basin.
- (c) "Operating Year" means the period that begins each August 1 and which ends the following July 31. For instance, Operating Year 2007 begins August 1, 2006, and continues through July 31, 2007.
- (d) "Point of Receipt" means the point in Idaho Falls' Sugarmill Substation where the 46 kV facilities of Idaho Falls and Rocky Mountain Power

(formally PacifiCorp and Utah Power & Light), or its successor, are connected, where Contracted Power will be made available to BPA.

- (e) "Alternate Points of Receipt" (APOR) means the point in Idaho Falls' (1) Westside Substation where the 46 kV facilities of Idaho Falls and the Rocky Mountain Power are connected or the (2) Project's individual units' high-side transformer buses at 46kV.
- (f) "Power Business Line" or "PBL" means that portion of the BPA organization or its successor that is responsible for the management and sale of BPA's Federal power.
- (g) "Project" means the four hydro generation units owned and operated by Idaho Falls Power in and around the City of Idaho Falls collectively known as the Bulb Turbine Project *pursuant* to FERC Project No. 2842. The Project has a combined capacity of 24,600 kW. Specifically the units are: (1) Upper Plant, located at river mile 805, with a 7,200 kW nameplate capacity; (2) City Plant, located at river mile 800, with a 7,200 kW nameplate capacity; (3) Lower Plant, located at river mile 798, with a 7,200 kW nameplate capacity; and (4) Old Lower Plant, located at river mile 798, 2 units with a combined 3,000 kW installed capacity.
- (h) "Project Power Output" means the amount of energy generated by the Project during any specified period of time as metered at the Points of Measurement.
- (i) "Points of Measurement" means the four meters described in Exhibit A.
- (j) "Prudent Utility Practice" means the practices, methods, and equipment, as changed from time to time, that are commonly and lawfully used in prudent engineering and operation of equipment, taking into consideration: (1) the fact that Idaho Falls is a municipal corporation under the laws of the State of Idaho with the statutory duties and responsibilities thereof; and (2) the objectives to integrate the Project with the generating resources of the Federal System, to achieve optimum utilization of such resources, and to achieve efficient and economical operation of such system.
- (k) "Station Service" means the power used to serve load at the Project's facilities, including but not limited to light, space conditioning and the operation of auxiliary equipment.
- (l) "Workday" means, for the purpose of scheduling, a day that the Parties both observe as a regular workday.



### 3. SALE AND PURCHASE OF PROJECT POWER OUTPUT

(a) **Power Amount**

Idaho Falls shall make available and BPA shall purchase all of the Contracted Power at the Point of Receipt for the period specified in Section 1 of this Agreement. BPA shall pay Idaho Falls the Contract Price for Contracted Power pursuant to Section 3(b).

(b) **Contract Price**

Subject to the Cap and Floor provision of Section 3(c), the Contract Price for any calendar month shall be calculated in accordance with the following methodology:

- (1) Daily Dow Jones Mid-C (DJ Mid-C) heavy load and light load hour (heavy and light load hours as specified by the then current National Electric Reliability Council (NERC) or its successor's standards) prices will be weighted to develop a daily average DJ Mid-C price. The prices will be weighted by summing (a) the product of the number of heavy load hours and the daily DJ Mid-C heavy load hour price minus \$1.00 and (b) the product of the number of light load hours and the daily DJ Mid-C light load hour price minus \$1.00; and dividing the resulting sum by the number of hours in the day to create a daily average DJ Mid-C price.
- (2) The daily average DJ Mid-C price shall be multiplied by that day's Project Power Output to derive a daily weighting factor.
- (3) The daily weighting factors shall be summed for all days in the calendar month.
- (4) The Contract Price is derived by dividing the sum of the weighting factors by the monthly Project Power Output.
- (5) Exhibit B illustrates this process.

(c) **Cap and Floor of Contract Price**

For any calendar month, the Contract Price shall not exceed \$39.05 per MWh (cap) or be less than \$29.05 per MWh (floor).

(d) **Loss of the Dow Jones Mid-C Index**

In the event that the Dow Jones Mid-C Index ceases to be available to establish the price for the power pursuant to this Agreement, the Parties shall use the ICE (Intercontinental Exchange) Daily Indices for power delivered at Mid-C. In the event that the ICE Daily Indices cease to be available to establish the price for the power pursuant to this Agreement, the Parties shall have 90 days in which to agree on a new index. The last price calculated from the Dow Jones Mid-C Index or the ICE Daily Indices pursuant to this section 3(d) shall apply during that 90-day period.

**Exhibit B**  
Contract Price Methodology

The Contract Price for any calendar month shall be based on the day-ahead Dow Jones Mid-C Index (DJ Mid-C) prices for firm power, and shall be weighted to each day's Project Power Output, in accordance with the following methodology:

- Daily DJ Mid-C heavy load and light load hour (heavy and light load hours as specified by the then current NERC Standards) prices will be weighted to develop a daily average DJ Mid-C Price. The prices will be weighted by summing (a) the product of the number of heavy load hours and the daily Mid-C heavy load hour price minus \$1.00 and (b) the product of the number of light load hours and the daily Mid-C light load hour price minus \$1.00; and dividing the resulting sum by the number of hours in the day to create a daily average DJ Mid-C price.
- The daily average DJ Mid-C Price shall be multiplied by that day's Project Power Output to derive a daily weighting factor.
- The daily weighting factors shall be summed for all days in the calendar month.
- The Contract Price is derived by dividing the sum of the weighting factors by the monthly Project Power Output.

$$\frac{\sum_1^d \{ [HLHd * (HLHPd - \$1.00) + LLHd * (LLHPd - \$1.00)] / HOURSd \} * GENERATIONd}{\sum_1^d GENERATIONd}$$

Where:

d = the days in the month

HLHd = number of heavy load hours in the day

HLHPd = daily heavy load hour Mid-C firm energy price

LLHd = number of light load hours in the day

LLHPd = daily light load hour Mid-C firm energy price

HOURSd = HLHn + LLHn

GENERATIONd = the day's Project Power Output

**BPA's 2010 Wholesale Power Rate Case**  
**Section 7(b)(2) Resource Stack - Wauna CoGen Resource for FY 2010-2015**  
**Initial Rate Proposal Consistent with IPR Closeout and Program Case Rates<sup>1</sup>**  
**Purchase Power Contract**

**Wauna Cogeneration Resource - Purchase Power Cost Projections:**

|   | <b><u>MWh</u></b> | <b><u>FY2010-\$</u></b> | <b><u>FY2015-\$</u></b> |
|---|-------------------|-------------------------|-------------------------|
| Annual Power Purchase Cost <sup>/1, 2</sup>         | 190,000           | \$11,463,521            | 12,679,801              |
| Projected Average Annual Energy Output - See Note 3 |                   | 190,000                 | 190,000                 |
| Average Hourly Energy aMW                           |                   | 21.7                    | 21.7                    |
| Cost per MWh  |                   | \$60.33                 | \$66.74                 |
| Placed in service                                   |                   | 1996                    | 1996                    |
| Estimated remaining useful life = 30 years          |                   | 30 years                | 30 years                |

**Notes:**

**Note 1** - Upon additional review, it was discovered that the contract pricing amounts that were used to forecast the costs of purchased power under this contract that are outlined in the schedule presented in Note 2 below are incorrect. The cost for this resource in the 7(b)(2) resource stack is consistent with the costs for this resource that are contained in the Program Case for the Initial Rate Proposal. The decision was made to not change the purchased power amounts so that BPA's Initial Rate Proposal was consistent with the information contained in the Integrated Program Review (IPR) documentation that was finalized in a letter sent by David J. Armstrong, Executive Vice President and Chief Financial Officer to BPA's Customers and other interested parties on November 14, 2008. The correct contract price amounts and the corrected purchase power cost for this contract can be found at page 3. Unless there are additional changes that become known between the Initial Rate Proposal and the Final Rate Proposal, the revised amounts on page 3 will be used for the Final Rate Proposal. The annual purchase power cost above of \$11,463,483 for FY 2010 is overstated by \$287,632, the correct amount that is displayed on page 3 is \$11,175,851.

**Note 2** - After a resource is chosen by the rates model, its annual costs (stated in 2010 "real dollars") are inflated by the GDP deflator values contained in the model for the year the resource is first selected. These costs are escalated for each of the remaining years of the rate test period. The contract price for this resource was adjusted very slightly for the resource stack to ensure that the cost for this resource in the 7(b)(2) Case does not exceed the costs that were included for the Program Case revenue requirement. See the cost computations in the table on the succeeding page.

**BPA's 2010 Wholesale Power Rate Case**  
**Section 7(b)(2) Resource Stack - Wauna CoGen Resource for FY 2010-2015**  
**Initial Rate Proposal Consistent with IPR Closeout and Program Case Rates<sup>1</sup>**  
**Purchase Power Contract**

**Note - 2 continued**

|  | Program Case                 | Cumulative GDP Deflator | 2010\$\$ Real Pricing | Program Case Revenue Requirement Amounts @ 190,000 MWh Nominal Pricing | 7(b)(2) Case Escalated Price Projections | 7(b)(2) Case Over (Under) Program Case |
|--|------------------------------|-------------------------|-----------------------|--|--|--|
|  | Nominal Pricing <sup>1</sup> | 2010\$\$ Conversion     |                       |  |  |  |
| FY 2010                                      | 60.33                        | 1.000000                | 60.33                 | 11,462,700   | 11,463,521                               | 821                                    |
| FY 2011                                      | 61.75                        | 1.020200                | 60.53                 | 11,732,500   | 11,695,084                               | (37,416)                               |
| FY 2012                                      | 62.75                        | 1.041600                | 60.24                 | 11,922,500   | 11,940,404                               | 17,904                                 |
| FY 2013                                      | 64.05                        | 1.062800                | 60.27                 | 12,169,500   | 12,183,430                               | 13,930                                 |
| FY 2014                                      | 65.41                        | 1.084300                | 60.32                 | 12,427,900   | 12,429,896                               | 1,996                                  |
| FY 2015                                      | 66.72                        | 1.106100                | 60.32                 | 12,676,800   | 12,679,801                               | 3,001                                  |
|  |                              | Average                 | 60.335203             |  |  | 237                                    |
| 7(b)(2) Case Price Adjustment                |                              |                         | (0.000880)            |  |  |  |
| 7(B)(2) Case Pricing - 2010\$\$ <sup>1</sup> |                              |                         | 60.334323             |  |  |  |

**Note 3** - Firm average annual energy purchase amount (MWh) was based on recent historical purchases from this resource as outlined below:

**Historical Generation / Purchases from Wauna Project:**

|                | Average Annual Energy - MWh   |
|----------------|-------------------------------|
| FY 2003        | 181,603                       |
| FY 2004        | 204,417                       |
| FY 2005        | 189,046                       |
| FY 2006        | data not used - abnormal year |
| FY 2007        | 181,603                       |
| FY 2008        | data not used - abnormal year |
| 4-Year Average | 189,167                       |
| Adjustment     | 833                           |
|                | 190,000                       |

**BPA's 2010 Wholesale Power Rate Case**  
**Section 7(b)(2) Resource Stack - Wauna CoGen Resource for FY 2010-2015**  
**Draft - Updated Cost Projections for Final Rate Proposal**  
**Purchase Power Contract**

**Wauna Cogeneration Resource - Purchase Power Cost Projections:**

|   | <u>MWh</u> | <u>FY2010-\$</u> | <u>FY2015-\$</u> |
|---|------------|------------------|------------------|
| Annual Power Purchase Cost - See Note 1             | 190,000    | \$11,175,851     | \$12,361,608     |
| Projected Average Annual Energy Output - See Note 2 |            | 190,000          | 190,000          |
| Average Hourly Energy aMW                           |            | 21.7             | 21.7             |
| Cost per MWh  |            | \$58.82          | \$65.06          |
| Placed in service                                   |            | 1996             | 1996             |
| Estimated remaining useful life = 30 years          |            | 30 years         | 30 years         |

**Note 1** - After a resource is chosen by the rates model, its annual costs (stated in 2010 "real dollars") are inflated by the GDP deflator values contained in the model to the nominal dollars of the year the resource is selected. These costs are escalated for each of the remaining years of the rate test period. The contract price for the 7(b)(2) resource stack was adjusted very slightly to ensure that the cost for this resource in the 7(b)(2) Case does not exceed the costs that were included for the Program Case revenue requirement. See the adjustment computation below:

|                                | Contract Price - Nominal Pricing | Cumulative GDP Deflator 2010\$ Conversion | 2010\$ Real Pricing | Program Case Revenue Requirement Amounts @ 190,000 MWh Nominal Pricing | 7(b)(2) Case Escalated Price Projections | 7(b)(2) Case Over (Under) Program Case |
|--------------------------------|----------------------------------|---|---------------------|--|--|--|
| FY 2010                        | \$58.94                          | 1.000000                                  | 58.94               | 11,198,600   | 11,175,851                               | (22,749)                               |
| FY 2011                        | \$60.05                          | 1.020200                                  | 58.86               | 11,409,500   | 11,401,603                               | (7,897)                                |
| FY 2012                        | \$61.22                          | 1.041600                                  | 58.77               | 11,631,800   | 11,640,766                               | 8,966                                  |
| FY 2013                        | \$62.44                          | 1.062800                                  | 58.75               | 11,863,600   | 11,877,694                               | 14,094                                 |
| FY 2014                        | \$63.73                          | 1.084300                                  | 58.78               | 12,108,700   | 12,117,975                               | 9,275                                  |
| FY 2015                        | \$65.07                          | 1.106100                                  | 58.83               | 12,363,300   | 12,361,608                               | (1,692)                                |
|                                |                                  | Average                                   | 58.821667           |  |  | (3)                                    |
| Program Case Price Adjustment  |                                  |   | -0.001400           |  |  |  |
| 7(B)(2) Case Pricing - 2010\$1 |                                  |   | 58.820267           |  |  |  |

**Note 2** - Firm average annual energy purchase amount (MWh) was based on recent historical purchases from this resource as outlined below:

**Historical Generation / Purchases from Wauna Project:**

|                | <u>Average Annual Energy - MWh</u> |
|----------------|------------------------------------|
| FY 2003        | 181,603                            |
| FY 2004        | 204,417                            |
| FY 2005        | 189,046                            |
| FY 2006        | data not used - abnormal year      |
| FY 2007        | 181,603                            |
| FY 2008        | data not used - abnormal year      |
| 4-Year Average | 189,167                            |
| Adjustment     | 833                                |
|                | 190,000                            |

|    | A   | B         | C        | D            | E     | F            | G            | H | I |
|----|---|-----------|----------|--------------|-------|--------------|--------------|---|---|
| 1  | BPA's 2010 Wholesale Power Rate Case  |           |          |              |       |              |              |   |   |
| 2  | Section 7(b)(2) Resource Stack - Wauna CoGen Resource for FY 2010-2015              |           |          |              |       |              |              |   |   |
| 3  | Purchase Power Contract   |           |          |              |       |              |              |   |   |
| 5  | Wauna Cogeneration - Power Purchase Contract - Projected Cost Comparisons           |           |          |              |       |              |              |   |   |
| 6  | Initial Rate Proposal and Projected Final Rate Proposal Amounts                     |           |          |              |       |              |              |   |   |
| 8  | Current IPR - Program Case Amounts - Initial Rate Proposal:                         |           |          |              |       |              |              |   |   |
| 10 |   | Annual    |          | Annual       |       |              |              |   |   |
| 11 |   | Energy    | Contract | Purchased    |       |              |              |   |   |
| 12 |   | Purchased | Purchase | Power        | Other | Total        |              |   |   |
| 13 |   | MWh       | Price    | Cost         | Costs | Cost         |              |   |   |
| 14 | FY2010  | 190,000   | \$60.33  | \$11,462,700 | \$0   | \$11,462,700 |              |   |   |
| 15 | FY2011  | 190,000   | \$61.75  | \$11,732,500 | \$0   | \$11,732,500 |              |   |   |
| 16 | FY2012  | 190,000   | \$62.75  | \$11,922,500 | \$0   | \$11,922,500 |              |   |   |
| 17 | FY2013  | 190,000   | \$64.05  | \$12,169,500 | \$0   | \$12,169,500 |              |   |   |
| 18 | FY2014  | 190,000   | \$65.41  | \$12,427,900 | \$0   | \$12,427,900 |              |   |   |
| 19 | FY2015  | 190,000   | \$66.72  | \$12,676,800 | \$0   | \$12,676,800 |              |   |   |
| 21 | (A) - 7(b)(2) Case Initial Proposal - Adjusted FY 2010 Power Purchase Cost Amount = |           |          |              |       |              | \$11,463,483 |   |   |
| 23 | Preliminary Projected - Program Case Amount - Final Rate Proposal                   |           |          |              |       |              |              |   |   |
| 24 |   |           |          |              |       |              | Increase     |   |   |
| 25 |   |           |          |              |       |              | (Decrease)   |   |   |
| 26 |   | Annual    |          | Annual       |       |              | In Annual    |   |   |
| 27 |   | Energy    | Contract | Purchased    |       |              | Power        |   |   |
| 28 |   | Purchased | Purchase | Power        | Other | Total        | Purchase     |   |   |
| 29 |   | MWh       | Price    | Cost         | Costs | Cost         | Costs        |   |   |
| 30 | FY2010  | 190,000   | \$58.94  | \$11,198,600 | \$0   | \$11,198,600 | (\$264,100)  |   |   |
| 31 | FY2011  | 190,000   | \$60.05  | \$11,409,500 | \$0   | \$11,409,500 | (\$323,000)  |   |   |
| 32 | FY2012  | 190,000   | \$61.22  | \$11,631,800 | \$0   | \$11,631,800 | (\$290,700)  |   |   |
| 33 | FY2013  | 190,000   | \$62.44  | \$11,863,600 | \$0   | \$11,863,600 | (\$305,900)  |   |   |
| 34 | FY2014  | 190,000   | \$63.73  | \$12,108,700 | \$0   | \$12,108,700 | (\$319,200)  |   |   |
| 35 | FY2015  | 190,000   | \$65.07  | \$12,363,300 | \$0   | \$12,363,300 | (\$313,500)  |   |   |
| 37 | (B) - 7(b)(2) Case Adjusted FY 2010 Projected                                       |           |          |              |       |              |              |   |   |
| 38 | Final Rate Case Power Purchase Cost Amount =  |           |          |              |       |              | 11,175,851   |   |   |
| 40 | Preliminary Projected Increase in 7(b)(2) Case Adjusted FY 2010 Power               |           |          |              |       |              |              |   |   |
| 41 | Purchase Cost Amount Between Initial Proposal Cost and Final Proposal Cost (B-A) =  |           |          |              |       |              | (\$287,632)  |   |   |
| 43 | Page 4 of 4   |           |          |              |       |              |              |   |   |

AUTHENTICATED

Exhibit D, Page 1 of 1  
Contract No. DE-MS79-93BP94292  
Procurement No. 56791  
Western Generation Agency  
Effective at 2400 hours on the  
Effective Date

**MONTHLY AMOUNTS OF BASE FIRM ENERGY,  
FLEXIBLE FIRM ENERGY, AND TOTAL FIRM ENERGY**

| (1)<br>Month | (2)<br>Total<br>Hours | (3)<br>Base<br>Firm Energy<br>Delivery Rate<br>(MWh/hr) | (4)<br>Base<br>Firm<br>Energy<br>(MWh) | (5)<br>Flexible<br>Firm<br>Energy<br>(MWh) | (6)<br>Total<br>Firm<br>Energy<br>(MWh) |
|--------------|-----------------------|---|--|--|---|
| JAN          | 744                   | 29.710  | 22,104                                 | 1,488                                      | 23,592                                  |
| FEB          | 672                   | 28.890  | 19,414                                 | 1,344                                      | 20,758                                  |
| MAR          | 744                   | 28.590  | 21,271                                 | 1,488                                      | 22,759                                  |
| APR          | 720                   | 26.600  | 19,152                                 | 2,376                                      | 21,528                                  |
| MAY          | 744                   | 23.730  | 17,655                                 | 2,425                                      | 20,080                                  |
| JUN          | 720                   | 23.710  | 17,071                                 | 2,376                                      | 19,447                                  |
| JUL          | 744                   | 23.792  | 17,701                                 | 2,424                                      | 20,125                                  |
| AUG          | 744                   | 25.180  | 18,734                                 | 1,488                                      | 20,222                                  |
| SEP          | 720                   | 25.031  | 18,022                                 | 1,440                                      | 19,462                                  |
| OCT          | 744                   | 26.280  | 19,552                                 | 1,488                                      | 21,040                                  |
| NOV          | 720                   | 26.840  | 19,325                                 | 1,440                                      | 20,765                                  |
| DEC          | 744                   | 29.081  | <u>21,636</u>                          | <u>1,488</u>                               | <u>23,124</u>                           |
|              |                       | <b>TOTALS:</b>  | <b>231,637</b>                         | <b>21,265</b>                              | <b>236,000 <sup>1/</sup></b>            |

<sup>1/</sup> The total of the monthly amounts in Column 6 is 252,902 MWh. However, Total Firm Energy cannot exceed 236,000 MWh, as described in section 2(y).

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AUTHENTICATED

Exhibit E, Page 1 of 1  
Contract No. DE-MS79-93BP94292  
Procurement No. 56791  
Western Generation Agency  
Effective at 2400 hours on the  
Effective Date

**TOTAL FIRM ENERGY PURCHASE PRICE**

| Calendar<br>Year | Total Firm Energy<br>Purchase<br>Price<br><br>(mills/kWh) |
|------------------|---|
| 1995             | 47.56   |
| 1996             | 48.10   |
| 1997             | 48.67   |
| 1998             | 49.26   |
| 1999             | 49.89   |
| 2000             | 50.55   |
| 2001             | 51.23   |
| 2002             | 51.96   |
| 2003             | 52.72   |
| 2004             | 53.52   |
| 2005             | 54.35   |
| 2006             | 55.23   |
| 2007             | 56.16   |
| 2008             | 57.13   |
| 2009             | 58.14   |
| 2010             | 59.21   |
| 2011             | 60.33   |
| 2012             | 61.51   |
| 2013             | 62.75   |
| 2014             | 64.05   |
| 2015             | 65.41   |
| 2016             | 66.80   |
| 2017             | 68.22   |

(MyGuyer MPSI X5816 - M:\94292e.DOC)



|    | A | B  | C | D | E | F | G | H | I |
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| 1  |   | <b>WP-10 Wholesale Power Rate Case</b>                 |   |   |   |   |   |   |   |
| 2  |   | <b>Cost Projections for Nine Canyon Wind Project</b>   |   |   |   |   |   |   |   |
| 3  |   | <b>Operating Results / Projected Operating Budgets</b> |   |   |   |   |   |   |   |
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|     | A | B  | C                                 | D                                 | E                                 | F                               | G              | H   | I |
|-----|---|--|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|----------------|---|---|
| 1   |   | <b>WP-10 Wholesale Power Rate Case</b>   |                                   |                                   |                                   |                                 |                |   |   |
| 2   |   | <b>Cost Projections for Nine Canyon Wind Project</b>   |                                   |                                   |                                   |                                 |                |   |   |
| 3   |   | <b>Operating Results / Projected Operating Budgets</b>   |                                   |                                   |                                   |                                 |                |   |   |
| 67  |   | <b>Notes:</b>  |                                   |                                   |                                   |                                 |                |   |   |
| 68  |   | <b>Note 1</b> - The actual operating results for operating years (OY) 2006, 2007, and 2008 along with the projected operating budget numbers   |                                   |                                   |                                   |                                 |                |   |   |
| 69  |   | for the resource for OY 2009 were provided by Energy Northwest, the managing entity and operator of the wind project. Phase 3 of Nine          |                                   |                                   |                                   |                                 |                |   |   |
| 70  |   | Canyon became operational in May 2007. The budget comparisons between years have <u>not</u> been "normalized" for the increased                |                                   |                                   |                                   |                                 |                |   |   |
| 71  |   | generation, thus they are not comparable. Variable budget costs were increased by 2.06% over FY 2009 amounts based on the projected            |                                   |                                   |                                   |                                 |                |   |   |
| 72  |   | rate of inflation continued in Global Insight's forecast, costs were increased by 2.06% over FY 2009 amounts based on the projected rate of    |                                   |                                   |                                   |                                 |                |   |   |
| 73  |   | inflation, based on Global Insight's "The U.S. Economy: The 30-Year Focus, August 2008, Base Case Scenario."                                   |                                   |                                   |                                   |                                 |                |   |   |
| 75  |   | <b>Note 2</b> - Starting in FY 2009, parties interconnected through BPA transmission have to self provide or purchase wind integration service |                                   |                                   |                                   |                                 |                |   |   |
| 76  |   | and within-hour balancing reserves for wind resources through their BPA transmission interconnection agreement. This cost was added            |                                   |                                   |                                   |                                 |                |   |   |
| 77  |   | to the operating cost budget by BPA to arrive at a reasonable operating cost for this resource in the resource stack. The charges are          |                                   |                                   |                                   |                                 |                |   |   |
| 78  |   | based on BPA's 2009 Wind Integration Rate Case Revised Proposal, Attachment 1 to Settlement Agreement ACS-09, page 1, where                    |                                   |                                   |                                   |                                 |                |   |   |
| 79  |   | the rate is \$0.68 per kilowatt per month with the rate based on the installed capacity of the wind plant. Mathematically this is expressed:   |                                   |                                   |                                   |                                 |                |   |   |
| 80  |   | Installed capacity = 95.9MW * 1,000 = 95,900KW/Mo. * \$0.68 = \$65,212 per month, times 12 months = \$782,544 for OY 2009.                     |                                   |                                   |                                   |                                 |                |   |   |
| 81  |   | For the FY 2010 Initial Rate Proposal, the assumption was made that the billing determinant for these charges would be:                        |                                   |                                   |                                   |                                 |                |   |   |
| 82  |   | Wind Integration Rate on Installed Wind Capacity (\$2.70/kW/month) = 95,900KW/Mo. * \$2.70 * 12 months = \$3,107,160                           |                                   |                                   |                                   |                                 |                |   |   |
| 84  |   | <b>Note 3</b> - Analysis of the dedicated and non-dedicated portions of the Nine Canyon resource is presented below:                           |                                   |                                   |                                   |                                 |                |   |   |
| 85  |   |  |                                   |                                   |                                   |                                 |                |   |   |
| 86  |   | <b>Energy Northwest 95.9 MW Nine Canyon Wind Power Project Allocations - Phases 1, 2, and 3</b>  |                                   |                                   |                                   |                                 |                |   |   |
| 87  |   |  |                                   |                                   |                                   |                                 |                |   |   |
| 88  |   |  |                                   |                                   |                                   |                                 |                |   |   |
| 89  |   |  |                                   |                                   |                                   |                                 |                |   |   |
| 90  |   | Nine Purchasers  | <u>Phase 1</u><br><u>MW Share</u> | <u>Phase 2</u><br><u>MW Share</u> | <u>Phase 3</u><br><u>MW Share</u> | <u>Total</u><br><u>MW Share</u> | <u>% total</u> | Resource<br>Dedicated<br>to native<br>Load? |   |
| 92  |   | <b>Benton County PUD No. 1</b>   | 3.00                              | 0.00                              | 6.00                              | 9.00                            | 9.38%          | Yes <sup>/A</sup>                           |   |
| 93  |   | Chelan County PUD No. 1  | 6.01                              | 1.95                              | 0.00                              | 7.96                            | 8.30%          | Yes   |   |
| 94  |   | Cowlitz Co PUD   | 2.00                              | 0.00                              | 0.00                              | 2.00                            | 2.09%          | Yes   |   |
| 95  |   | Douglas County PUD No. 1   | 3.01                              | 6.80                              | 0.00                              | 9.81                            | 10.23%         | Quasi <sup>/B</sup>                         |   |
| 96  |   | Franklin PUD No. 1   | <b>2.01</b>                       | <b>0.00</b>                       | <b>8.05</b>                       | <b>10.06</b>                    | <b>10.49%</b>  | No <sup>/C</sup>                            |   |
| 97  |   | <b>Grays Harbor PUD No. 1</b>  | <b>6.01</b>                       | <b>1.95</b>                       | <b>12.08</b>                      | <b>20.04</b>                    | <b>20.90%</b>  | No <sup>/C</sup>                            |   |
| 98  |   | Lewis County PUD No. 1   | 1.00                              | 0.00                              | 5.06                              | 6.06                            | 6.32%          | Yes   |   |
| 99  |   | <b>Okanogan County PUD No. 1</b>   | <b>12.03</b>                      | <b>3.90</b>                       | <b>0.00</b>                       | <b>15.93</b>                    | <b>16.61%</b>  | No <sup>/C</sup>                            |   |
| 100 |   | Grant County PUD No. 2   | 12.03                             | 0.00                              | 0.00                              | 12.03                           | 12.54%         | Quasi <sup>/B</sup>                         |   |
| 101 |   | Mason County PUD No. 3   | 1.00                              | 1.00                              | 1.01                              | 3.01                            | 3.14%          | Yes   |   |
| 103 |   | Totals   | 48.10                             | 15.60                             | 32.20                             | 95.90                           | 100.00%        |   |   |
| 105 |   | <b>Non-Dedicated Portion</b>   |                                   |                                   |                                   |                                 | <b>48.00%</b>  |   |   |
| 107 |   | <b>Note 3 - Sub-Notes:</b>   |                                   |                                   |                                   |                                 |                |   |   |
| 108 |   | <b>Note A</b> - Gloria Bender from Benton PUD informed BPA that all of its wind purchases will be used to meet their Tier 2                    |                                   |                                   |                                   |                                 |                |   |   |
| 109 |   | loads during FY2012-2029.  |                                   |                                   |                                   |                                 |                |   |   |
| 111 |   | <b>Note B</b> - Resource is part of the utilities resource mix, it is not treated as a firm resource, they have not                            |                                   |                                   |                                   |                                 |                |   |   |
| 112 |   | entered into specific sales contracts for the sale of specific wind energy from this resource at this time.                                    |                                   |                                   |                                   |                                 |                |   |   |
| 113 |   | Utility is not sure how this resource will be used during the rate test period.  |                                   |                                   |                                   |                                 |                |   |   |
| 115 |   | <b>Note C</b> - Confirmed that the resource was not formally dedicated to this utility's native load through their BPA Account Executive.      |                                   |                                   |                                   |                                 |                |   |   |
| 117 |   | <b>Note 4</b> - BPA has not included in the resource stack for the WP-10 Power Rate Case any of the portions of this resource that have been   |                                   |                                   |                                   |                                 |                |   |   |
| 118 |   | purchased by BPA's 7(b)(2) Customers. BPA assumes that 7(b)(2) Customers purchasing this project are using the project as an                   |                                   |                                   |                                   |                                 |                |   |   |
| 119 |   | "unspecified" resource that has been declared as serving a utility's native load pursuant to section 5(b) of the Northwest Power Act,          |                                   |                                   |                                   |                                 |                |   |   |
| 120 |   | which decreases BPA's load obligations. BPA and Consumer Owned Utilities must comply with the Bonneville Project Act,                          |                                   |                                   |                                   |                                 |                |   |   |
| 121 |   | Public Law 75-329; the Pacific Northwest Consumer Power Preference Act, Public Law 88-552; and the Northwest Power Act, Public                 |                                   |                                   |                                   |                                 |                |   |   |
| 122 |   | Law 96-501; before selling power outside the region. None of the customers who own shares of the Nine Canyon Wind resource have                |                                   |                                   |                                   |                                 |                |   |   |
| 123 |   | had a portion of their BPA power purchases "decremented" based upon sales of power from this resource outside the region as                    |                                   |                                   |                                   |                                 |                |   |   |
| 124 |   | provided in the foregoing statutory provisions and BPA's Section 5(b)(9)(c) Policy.  |                                   |                                   |                                   |                                 |                |   |   |
| 126 |   | Page 2 of 2  |                                   |                                   |                                   |                                 |                |   |   |

|    |   |   |   |   |   |               |                  |                |             |             |            |
|----|---|---|---|---|---|---------------|------------------|----------------|-------------|-------------|------------|
| J  | K   | L | M | N | O | P             | Q                | R              | S           |             |            |
| 1  | Projections of Priest Rapids Hydroelectric Project Annual Operating Costs   |   |   |   |   |               |                  |                |             |             |            |
| 2  | BPA's 2010 Wholesale Power Rate Case  |   |   |   |   |               |                  |                |             |             |            |
| 3  | Section 7(b)(2) Resource Stack - Operating Cost Projections   |   |   |   |   |               |                  |                |             |             |            |
| 4  |   |   |   |   |   |               |                  |                |             |             |            |
| 5  |   |   |   |   |   | FY2010-\$\$   | FY2010-\$\$      | 7(b)(2)        |             |             |            |
| 6  |   |   |   |   |   | 100.00%       | 4.09%            | Resource Stack |             |             |            |
| 7  |   |   |   |   |   |               | "undesignated" / | Amounts        |             |             |            |
| 8  |   |   |   |   |   |               | "non- dedicated" | 0 MW           |             |             |            |
| 9  | 7(b)(2) Case - Resource Stack Values - See Note A Below   |   |   |   |   |               |                  |                |             |             |            |
| 10 | Total O&M - Average FY2010-2015 Non-dedicated COU & Marketer Projection =   |   |   |   |   |               |                  |                |             |             |            |
| 11 | 14.9aMW *\$22.46/MWh*8,760 hour /year   |   |   |   |   | \$71,937,787  | \$2,931,819      | \$ 0           |             |             |            |
| 12 | Cost per MWh  |   |   |   |   | \$22.46       | \$22.46          | \$ 0 /MW       |             |             |            |
| 13 |   |   |   |   |   |               |                  |                |             |             |            |
| 14 | Capital Investment - Projected Net Utility Plant FY 2010  |   |   |   |   | \$261,540,547 |                  |                |             |             |            |
| 15 | Capital Investment - Projected Net Utility Plant FY 2015  |   |   |   |   | \$437,048,564 |                  |                |             |             |            |
| 16 |   |   |   |   |   |               |                  |                |             |             |            |
| 17 | Life  |   |   |   |   | 70-100 years  |                  |                |             |             |            |
| 18 | Placed in service   |   |   |   |   | 1970          |                  |                |             |             |            |
| 19 | Non-dedicated COU & Marketer average hourly energy (aMW) six-year average FY2010-2015   |   |   |   |   | 365.6         | 14.9 MW          | 0 MW           |             |             |            |
| 20 |   |   |   |   |   |               |                  |                |             |             |            |
| 21 | Average Annual Energy Output associated with Non-dedicated portion / @ 14.9aMW  |   |   |   |   | 3,202,656     | 130,524 MWh      | 0 MWh          |             |             |            |
| 22 |   |   |   |   |   |               |                  |                |             |             |            |
| 23 |   |   |   |   |   | 2010          | 2011             | 2012           | 2013        | 2014        | 2015       |
| 24 | 1. 2010\$\$ Price Conversion Factor   |   |   |   |   | 1.000000      | 1.020232         | 1.041582       | 1.062788    | 1.084313    | 1.106094   |
| 25 |   |   |   |   |   |               |                  |                |             |             |            |
| 26 | 2. Net Costs Chargeable to Power Purchasers - per analysis below  |   |   |   |   | 71,107,000    | 68,821,000       | 77,230,000     | 77,827,508  | 79,082,044  | 80,220,222 |
| 27 | Average Annual Operating Costs - Nominal \$\$ = 75,714,629  |   |   |   |   |               |                  |                |             |             |            |
| 28 |   |   |   |   |   |               |                  |                |             |             |            |
| 29 | 3. Projected Annual Amounts Stated in 2010\$\$ (line 2 divided by line 1)   |   |   |   |   | 71,107,000    | 67,456,226       | 74,146,826     | 73,229,570  | 72,932,856  | 72,525,682 |
| 30 |   |   |   |   |   |               |                  |                |             |             |            |
| 31 | 4. FY 2010 -2015 Average Total Operating Costs in 2010\$\$  |   |   |   |   | 71,899,693    | 71,899,693       | 71,899,693     | 71,899,693  | 71,899,693  | 71,899,693 |
| 32 | Operating Cost Adjustment - See Note B below  |   |   |   |   | 38,094        | 38,094           | 38,094         | 38,094      | 38,094      | 38,094     |
| 33 | 5. Adjusted Annual Cost Amount in 2010 \$\$   |   |   |   |   | 71,937,787    | 71,937,787       | 71,937,787     | 71,937,787  | 71,937,787  | 71,937,787 |
| 34 |   |   |   |   |   |               |                  |                |             |             |            |
| 35 | Ram Model Annual Cost Amounts Using Average Cost Pricing  |   |   |   |   | Total         |                  |                |             |             |            |
| 36 | 6. stated in 2010 \$\$ (line 5 times line 1)  |   |   |   |   | 71,937,787    | 73,393,233       | 74,929,104     | 76,454,617  | 78,003,078  | 79,569,955 |
| 37 |   |   |   |   |   | 2010-2015     |                  |                |             |             |            |
| 38 | 7. Annual Variance Over / (Under) (line 6 less line 2) 1  |   |   |   |   | 830,787       | 4,572,232        | (2,300,895)    | (1,372,891) | (1,078,966) | (650,267)  |
| 39 | Average Firm Energy Output 365.6aMW)  |   |   |   |   | 3,202,656     |                  |                |             |             |            |
| 40 | 8. times the number of hours in a year (8760)   |   |   |   |   |               |                  |                |             |             |            |
| 41 | 9. Projected Project Cost per MWh (line 5 divided by line 8)  |   |   |   |   | \$22.46       |                  |                |             |             |            |
| 42 |   |   |   |   |   |               |                  |                |             |             |            |
| 43 | Note B - It is necessary to make an operating adjustment so that the average total operating costs for all years of the rate test period (FY2010-2015) is equivalent to the total actual operating costs in |   |   |   |   |               |                  |                |             |             |            |
| 44 | nominal dollars (line 2) since the RAM model starts with a beginning cost of when the resource is selected from the resource stack and then escalates the cost using the fixed escalation factors at line 1 |   |   |   |   |               |                  |                |             |             |            |
| 45 | above. If a simple average of the nominal operating costs for the rate test period were used, the "starting operating cost" of the resource would have been higher at a rate of \$75,714,629 in comparison  |   |   |   |   |               |                  |                |             |             |            |
| 46 | to the adjusted operating cost amount of \$71,937,787.  |   |   |   |   |               |                  |                |             |             |            |
| 47 |   |   |   |   |   |               |                  |                |             |             |            |
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| 27 |   |   |   |   |   |   |   |   |   |
| 28 |   |   |   |   |   |   |   |   |   |
| 29 |   |   |   |   |   |   |   |   |   |
| 30 |   |   |   |   |   |   |   |   |   |
| 31 |   |   |   |   |   |   |   |   |   |
| 32 |   |   |   |   |   |   |   |   |   |
| 33 |   |   |   |   |   |   |   |   |   |
| 34 |   |   |   |   |   |   |   |   |   |
| 35 |   |   |   |   |   |   |   |   |   |
| 36 |   |   |   |   |   |   |   |   |   |
| 37 |   |   |   |   |   |   |   |   |   |
| 38 |   |   |   |   |   |   |   |   |   |
| 39 |   |   |   |   |   |   |   |   |   |
| 40 |   |   |   |   |   |   |   |   |   |
| 41 |   |   |   |   |   |   |   |   |   |
| 42 |   |   |   |   |   |   |   |   |   |
| 43 |   |   |   |   |   |   |   |   |   |
| 44 |   |   |   |   |   |   |   |   |   |
| 45 |   |   |   |   |   |   |   |   |   |
| 46 |   |   |   |   |   |   |   |   |   |
| 47 |   |   |   |   |   |   |   |   |   |
| 48 |   |   |   |   |   |   |   |   |   |
| 49 |   |   |   |   |   |   |   |   |   |

**BPA's 2010 Wholesale Power Rate Case**  
**Section 7(b)(2) Resource Stack - Operating Cost Projections**

**Note A** - BPA has not included in the resource stack for the WP-10 Power Rate Case any of the portions of Grant Co. PUD's Wanapum and Priest Rapids hydro resources that have been purchased by BPA's 7(b)(2) Customers nor the annual portions that Grant sells in its' annual auction to establish a market price for these. During BPA's process of making its' Section 5(b)/9(c) Policy Determination, concerning the portion of Grant's resources that were sold at auction and for those portions of its resources sold to regional customers that were exchanged back to Grant to be sold at market prices, Grant Co. PUD was charged with ensuring that these resources were not sold, resold, distributed for use or used outside the Pacific Northwest region except in conformance with the Bonneville Project Act, Public Law 75-329; the Pacific Northwest Consumer Power Preference Act, Public Law 88-552; and the Northwest Power Act, Public Law 96-501; before selling power from these resources outside the region. A compliance protocol was established making Grant Co. PUD responsible for the in-region use of the power when the sale at auction is made to an entity that does not have a Northwest Power Act section 5(b) contract with BPA or that does not directly serve regional consumer loads (see the copy of BPA's 5(b)/9(c) compliance protocol letter to Grant Co. PUD and Grant Co. PUD's prototype market auction contract provisions). Grant is required to monitor the sales of it's' purchaser and if requested by BPA, Grant will provide this information to BPA within 15 days of the end of the month requested. In the event that the information does not corroborate that the power was used in the region, BPA may impose a decrement upon Grant during the remaining period of time of its Subscription contract ending September 30, 2011. Similar provisions to Grant's sale at auction have also been incorporated in the contracts with the Snake River Power Association 7(b)(2) Customers.

Neither Grant Co. PUD nor BPA's other 7(b)(2) Customers who own shares of the Priest Rapids or Wanapum Hydro resources have had a portion of their BPA power purchases "decremented" based upon sales of power from these resources outside the region as provided in the foregoing statutory provisions and BPA's Section 5(b)/9(c) Policy. To ensure consistency with BPA's Section 5(b)/9(c) Policy Determinations, BPA has decided to change its 7(b)(2) resource stack policy to one of presuming that power from these resources and other 7(b)(2) customer resources that have been designated as "unspecified resources" serving a utility's native load pursuant to section 5(b) of the Northwest Power Act, (which decreases BPA's load obligations) are presumed used to meet regional loads unless there is documentation that the power is being exported out of the region only after it was offered within the region in conformance with section 9(c). Based on this 7(b)(2) resource stack policy decision, it was decided to not include any portions of the Grant Co. PUD's hydro resources in the 7(b)(2) rate stack in performing the 7(b)(2) Rate Test.

|    | J | K   | L             | M             | N             | O             | P             | Q             | R             | S             |
|----|---|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 50 |   | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b>        |               |               |               |               |               |               |               |               |
| 51 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>   |               |               |               |               |               |               |               |               |
| 52 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>                      |               |               |               |               |               |               |               |               |
| 53 |   |   |               |               |               |               |               |               |               |               |
| 54 |   |   |               |               |               |               |               |               |               |               |
| 55 |   |   | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's |
| 56 |   |   | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     |
| 57 |   |   | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     |
| 58 |   |   | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> |
| 59 |   |   | <u>2008</u>   | <u>2009</u>   | <u>2010</u>   | <u>2011</u>   | <u>2012</u>   | <u>2013</u>   | <u>2014</u>   | <u>2015</u>   |
| 60 |   |   |               |               |               |               |               |               |               |               |
| 61 |   | <b>Operating Revenues</b>   | 52,000,000    | 57,500,000    | 62,000,000    | 62,500,000    | 63,000,000    | 63,500,000    | 64,000,000    | 66,000,000    |
| 62 |   |   |               |               |               |               |               |               |               |               |
| 63 |   | <b>Operating Expenses - See Notes 1, 2, and 4 below:</b>                                |               |               |               |               |               |               |               |               |
| 64 |   | Generation -  | 17,670,917    | 21,505,506    | 23,711,971    | 22,633,076    | 20,516,883    | 21,132,390    | 21,766,362    | 22,419,352    |
| 65 |   | Transmission -  | 1,165,843     | 1,418,831     | 1,564,403     | 1,493,223     | 1,353,606     | 1,394,214     | 1,436,041     | 1,479,122     |
| 66 |   | Administrative and General -  | 10,985,632    | 13,369,514    | 14,741,226    | 14,070,501    | 12,754,909    | 13,137,556    | 13,531,683    | 13,937,633    |
| 67 |   | Administrative and General - Yakima Nation Payments                                     | 3,200,000     | 3,200,000     | 2,400,000     | 2,400,000     | 2,400,000     | 2,400,000     | 2,400,000     | 2,400,000     |
| 68 |   | Administrative and General - Habitat Funding Commitments                                | 1,227,000     | 1,264,000     | 1,302,000     | 1,341,000     | 1,381,000     | 1,381,000     | 1,381,000     | 1,381,000     |
| 69 |   | Maintenance Expenses  | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| 70 |   | Depreciation Expenses   | 4,661,590     | 4,967,674     | 5,299,959     | 5,736,883     | 6,289,908     | 7,084,942     | 8,178,479     | 9,064,772     |
| 71 |   | Taxes -   | 1,000,000     | 1,040,000     | 1,071,000     | 1,103,000     | 1,136,000     | 1,170,080     | 1,205,182     | 1,241,338     |
| 72 |   | Other Operating Costs   | 0             | 3,578         | 15,250        | 4,801         | 6,601         | 0             | 0             | 0             |
| 73 |   | <b>Total Operating Expenses</b>   | 39,910,982    | 46,769,103    | 50,105,809    | 48,782,484    | 45,838,907    | 47,700,182    | 49,898,747    | 51,923,217    |
| 74 |   |   |               |               |               |               |               |               |               |               |
| 75 |   | <b>Net Operating Income</b>   | 12,089,018    | 10,730,897    | 11,894,191    | 13,717,516    | 17,161,093    | 15,799,818    | 14,101,253    | 14,076,783    |
| 76 |   |   |               |               |               |               |               |               |               |               |
| 77 |   | <b>Expense Changes From Prior Year -<br/>Excluding Yakima &amp; Habitat Settlements</b> | 5,553,450     | 6,821,121     | 4,098,706     | (1,362,326)   | (2,983,576)   | 1,861,275     | 2,198,565     | 2,024,471     |
| 78 |   | <b>Operating Expense Percentage Change -<br/>From Prior Year</b>                        | 17.84%        | 18.58%        | 9.41%         | -2.86%        | -6.43%        | 4.28%         | 4.85%         | 4.26%         |
| 79 |   | <b>Average Percentage Change 2008-2012 =</b>  | 7.31%         |               |               |               |               |               |               |               |
| 80 |   |   |               |               |               |               |               |               |               |               |
| 81 |   | <b>Non Operating Revenues and (Expenses)</b>  |               |               |               |               |               |               |               |               |
| 82 |   | Interest Income (Expense)/Gains on Debt Retirements                                     | 2,792,633     | 932,000       | 1,447,000     | 1,241,000     | 5,597,000     | 2,798,500     | 2,798,500     | 2,798,500     |
| 83 |   | Interest on Long-Term Debt - See Note 3   | (11,730,667)  | (11,099,030)  | (12,863,723)  | (11,974,755)  | (18,198,857)  | (15,172,206)  | (15,539,314)  | (16,767,394)  |
| 84 |   | Amortization of Debt Expense and Discounts  | (364,636)     | (364,636)     | (364,636)     | (364,636)     | (364,636)     | (364,636)     | (364,636)     | (91,478)      |
| 85 |   | <b>Total Non Operating Expenses</b>   | (9,302,670)   | (10,531,666)  | (11,781,359)  | (11,098,391)  | (12,966,493)  | (12,738,342)  | (13,105,450)  | (14,060,372)  |
| 86 |   |   |               |               |               |               |               |               |               |               |
| 87 |   | <b>Excess (Shortfall) of Revenues Over Cost of Services</b>                             | 2,786,348     | 199,232       | 112,832       | 2,619,126     | 4,194,599     | 3,061,476     | 995,804       | 16,411        |
| 88 |   |   |               |               |               |               |               |               |               |               |
| 89 |   |   |               |               |               |               |               |               |               |               |
| 90 |   |   |               |               |               |               |               |               |               |               |
| 91 |   |   |               |               |               |               |               |               |               |               |

|     | J | K  | L                | M                   | N                | O                | P                | Q                | R                | S                |
|-----|---|--|------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 92  |   | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b> |                  |                     |                  |                  |                  |                  |                  |                  |
| 93  |   | <b>BPA's 2010 Wholesale Power Rate Case</b>                                      |                  |                     |                  |                  |                  |                  |                  |                  |
| 94  |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>               |                  |                     |                  |                  |                  |                  |                  |                  |
| 95  |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 96  |   |  | BPA Analyst's    | BPA Analyst's       | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    |
| 97  |   |  | Projected        | Projected           | Projected        | Projected        | Projected        | Projected        | Projected        | Projected        |
| 98  |   |  | Operating        | Operating           | Operating        | Operating        | Operating        | Operating        | Operating        | Operating        |
|     |   | <b>Projected Power Costs Charged to Power Purchasers</b>                         |                  |                     |                  |                  |                  |                  |                  |                  |
| 99  |   | <b>- See Notes 2-4:</b>  | <u>Budget</u>    | <u>Budget</u>       | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    |
| 100 |   |  | <b>2008</b>      | <b>2009</b>         | <b>2010</b>      | <b>2011</b>      | <b>2012</b>      | <b>2013</b>      | <b>2014</b>      | <b>2015</b>      |
| 101 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 102 |   | <b>Operating Costs As Outlined Above:</b>  | 39,910,982       | 46,769,103          | 50,105,809       | 48,782,484       | 45,838,907       | 47,700,182       | 49,898,747       | 51,923,217       |
| 103 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 104 |   | <b>Budget/Operating Cost Adjustments - See Note 4:</b>                           |                  |                     |                  |                  |                  |                  |                  |                  |
| 105 |   | Less Other noncash expenses  | 0                | 0                   | 0                | 0                | 0                | 0                | 0                | 0                |
| 106 |   | Less Extraordinary maintenance paid by Reserve Funds                             | 0                | 0                   | 0                | 0                | 0                | 0                | 0                | 0                |
| 107 |   | Less Depreciation Expense  | (4,661,590)      | (4,967,674)         | (5,299,959)      | (5,736,883)      | (6,289,908)      | (7,084,942)      | (8,178,479)      | (9,064,772)      |
| 108 |   | Plus Interest on Long-Term Debt  | 11,730,667       | 11,099,030          | 12,863,723       | 11,974,755       | 18,198,857       | 15,172,206       | 15,539,314       | 16,767,394       |
| 109 |   | Plus capitalized interest on CWIP  | 1,107,193        | 1,201,971           | 1,580,479        | 2,000,446        | 2,875,863        | 3,955,636        | 3,205,972        | 1,602,986        |
|     |   | Plus Principal and sinking fund payments on debt -                               |                  |                     |                  |                  |                  |                  |                  |                  |
| 110 |   | See Note 4 below.  | 9,325,000        | 9,870,000           | 12,576,799       | 13,041,799       | 20,082,280       | 21,032,434       | 21,414,991       | 21,789,897       |
| 111 |   | Plus 15% of interest and sinking fund installments                               | 3,324,429        | 3,326,000           | 4,053,150        | 4,052,550        | 6,173,550        | 6,024,041        | 6,024,041        | 6,024,041        |
| 112 |   | Less Interest and Other Income   | (2,792,633)      | (932,000)           | (1,447,000)      | (1,241,000)      | (5,597,000)      | (2,798,500)      | (2,798,500)      | (2,798,500)      |
| 113 |   | Less 15% of prior year second series debt installments                           | (3,320,716)      | (3,324,429)         | (3,326,000)      | (4,053,150)      | (4,052,550)      | (6,173,550)      | (6,024,041)      | (6,024,041)      |
| 114 |   | Bond issuance costs charged (credited) to power purchasers                       | 0                | 0                   | 0                | 0                | 0                |                  |                  |                  |
| 115 |   | <b>Net Costs Chargeable to Power Purchasers</b>                                  | 54,623,332       | 63,042,000          | 71,107,000       | 68,821,000       | 77,230,000       | 77,827,508       | 79,082,044       | 80,220,222       |
| 116 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 117 |   | Projected Owners Operating Budgets Amounts                                       | \$54,623,332     | \$63,042,000        | \$71,107,000     | \$68,821,000     | \$77,230,000     | \$77,827,508     | \$79,082,044     | \$80,220,222     |
|     |   | Average Firm Energy Output (PNW L&R Study #55) (365.6aMW)                        |                  |                     |                  |                  |                  |                  |                  |                  |
| 118 |   | times the number of hours in a year (8760)                                       | 3,202,656        | 3,202,656           | 3,202,656        | 3,202,656        | 3,202,656        | 3,202,656        | 3,202,656        | 3,202,656        |
| 119 |   | Projected Project Cost per MWh   | <b>\$17.0556</b> | <b>\$19.6843</b>    | <b>\$22.2025</b> | <b>\$21.4887</b> | <b>\$24.1144</b> | <b>\$24.3009</b> | <b>\$24.6926</b> | <b>\$25.0480</b> |
| 120 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 121 |   | FY 2010-2015 Average =   | <b>\$23.6412</b> |                     |                  |                  |                  |                  |                  |                  |
| 122 |   | Percentage Increase / (Decrease)   |                  | <b>15.41%</b>       | <b>12.79%</b>    | <b>-3.21%</b>    | <b>12.22%</b>    | <b>0.77%</b>     | <b>1.61%</b>     | <b>1.44%</b>     |
| 123 |   |  |                  | <b>Page 4 of 10</b> |                  |                  |                  |                  |                  |                  |
| 124 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 125 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |
| 126 |   |  |                  |                     |                  |                  |                  |                  |                  |                  |

| J   | K  | L                         | M                  | N                  | O                  | P                  | Q                  | R                  | S                  |
|-----|--|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 127 | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b> |                           |                    |                    |                    |                    |                    |                    |                    |
| 128 | <b>BPA's 2010 Wholesale Power Rate Case</b>                                      |                           |                    |                    |                    |                    |                    |                    |                    |
| 129 | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>               |                           |                    |                    |                    |                    |                    |                    |                    |
| 130 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 131 |  | BPA Analyst's             | BPA Analyst's      | BPA Analyst's      | BPA Analyst's      | BPA Analyst's      | BPA Analyst's      | BPA Analyst's      | BPA Analyst's      |
| 132 |  | Projected                 | Projected          | Projected          | Projected          | Projected          | Projected          | Projected          | Projected          |
| 133 |  | Balance Sheet             | Balance Sheet      | Balance Sheet      | Balance Sheet      | Balance Sheet      | Balance Sheet      | Balance Sheet      | Balance Sheet      |
| 134 |  | <u>Amounts</u>            | <u>Amounts</u>     | <u>Amounts</u>     | <u>Amounts</u>     | <u>Amounts</u>     | <u>Amounts</u>     | <u>Amounts</u>     | <u>Amounts</u>     |
| 135 | <b>Projected Balance Sheet Items -</b>   | <b>(in whole dollars)</b> |                    |                    |                    |                    |                    |                    |                    |
| 136 | <b>Priest Rapids Hydroelectric Project:</b>                                      |                           |                    |                    |                    |                    |                    |                    |                    |
| 137 |  | <b><u>2008</u></b>        | <b><u>2009</u></b> | <b><u>2010</u></b> | <b><u>2011</u></b> | <b><u>2012</u></b> | <b><u>2013</u></b> | <b><u>2014</u></b> | <b><u>2015</u></b> |
| 138 | Electric Plant Gross (Dam placed in service 1970)                                | 297,015,175               | 316,277,895        | 338,038,059        | 370,219,142        | 406,312,683        | 468,371,453        | 541,317,339        | 577,790,281        |
| 139 | Land and land rights   | 2,586,576                 | 2,586,576          | 2,586,576          | 2,586,576          | 2,586,576          | 2,586,576          | 2,586,576          | 2,586,576          |
| 140 | Construction work in progress - See Note 3                                       | 38,525,441                | 43,520,329         | 64,362,165         | 72,187,082         | 124,117,541        | 145,891,771        | 72,945,885         | 36,472,943         |
| 141 | Accumulated Depreciation & Amortization (15-95 year lives)                       | (133,178,620)             | (138,146,294)      | (143,446,253)      | (149,183,136)      | (155,473,044)      | (162,557,985)      | (170,736,465)      | (179,801,236)      |
| 142 | <b>Projected Net Electric Plant</b>  | 204,948,571               | 224,238,506        | 261,540,547        | 295,809,664        | 377,543,756        | 454,291,815        | 446,113,335        | 437,048,564        |
| 143 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 144 | Depreciation expense   | 4,661,590                 | 4,967,674          | 5,299,959          | 5,736,883          | 6,289,908          | 7,084,942          | 8,178,479          | 9,064,772          |
| 145 | Depreciation expense as a % of gross plant                                       | 1.62%                     | 1.62%              | 1.62%              | 1.62%              | 1.62%              | 1.62%              | 1.62%              | 1.62%              |
| 146 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 147 | Relicensing costs  | 29,001,622                | 29,001,622         | 29,001,622         | 29,001,622         | 29,001,622         | 29,001,622         | 29,001,622         | 29,001,622         |
| 148 | Unamortized debt expense   | 2,279,294                 | 1,914,658          | 1,550,022          | 1,185,386          | 820,750            | 456,114            | 91,478             | 0                  |
| 149 | Long-term noncash special funds  | 0                         | 0                  | 0                  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 150 | Other Deferred Charges and other assets  | 10,588                    | 9,411              | 8,235              | 7,058              | 5,882              | 4,706              | 3,529              | 2,353              |
| 151 | <b>Projected Total Non Current Assets</b>  | 236,240,075               | 255,164,198        | 292,100,426        | 326,003,730        | 407,372,010        | 483,754,256        | 475,209,965        | 466,052,538        |
| 152 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 153 | Restricted Assets Current  | 60,228,193                | 56,594,006         | 111,740,818        | 108,106,631        | 276,329,443        | 272,695,256        | 269,061,070        | 265,153,725        |
| 154 | Current and Accrued Assets   | 41,000,000                | 45,000,000         | 49,000,000         | 53,000,000         | 57,000,000         | 61,000,000         | 65,000,000         | 69,000,000         |
| 155 | <b>Projected Total Current Assets</b>  | 101,228,193               | 101,594,006        | 160,740,818        | 161,106,631        | 333,329,443        | 333,695,256        | 334,061,070        | 334,153,725        |
| 156 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 157 | <b>Projected Total Assets</b>  | \$337,468,268             | \$356,758,203      | \$452,841,244      | \$487,110,361      | \$740,701,453      | \$817,449,513      | \$809,271,034      | \$800,206,264      |
| 158 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 159 | Current & Accrued Liabilities  | 18,674,760                | 18,674,760         | 18,674,760         | 18,674,760         | 18,674,760         | 18,674,760         | 18,674,760         | 18,674,760         |
| 160 | Current portion of long-term debt  | 9,870,000                 | 12,576,799         | 13,041,799         | 20,082,280         | 21,032,434         | 21,414,991         | 21,789,897         | 22,157,304         |
| 161 | Long-Term Debt-net of discounts  | 238,010,000               | 225,433,201        | 271,172,402        | 251,090,122        | 401,914,688        | 380,499,697        | 358,709,801        | 336,552,496        |
| 162 | Other Noncurrent Liabilities   | 0                         | 0                  | 0                  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 163 | <b>Projected Total Liabilities</b>   | 266,554,760               | 256,684,760        | 302,888,961        | 289,847,162        | 441,621,882        | 420,589,448        | 399,174,457        | 377,384,561        |
| 164 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 165 | Retained Earnings - Invested in capital assets,<br>net of related debt           | 56,353,508                | 85,513,443         | 135,392,283        | 182,703,198        | 284,519,571        | 382,300,064        | 395,536,575        | 408,261,700        |
| 166 | Retained Earnings/Net Assets - unrestricted other                                | 6,000,000                 | 6,000,000          | 6,000,000          | 6,000,000          | 6,000,000          | 6,000,001          | 6,000,002          | 6,000,003          |
| 167 | Retained Earnings/Net assets - restricted  | 8,560,000                 | 8,560,000          | 8,560,000          | 8,560,000          | 8,560,000          | 8,560,000          | 8,560,000          | 8,560,000          |
| 168 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 169 | <b>Liabilities &amp; Retained Earnings / Net Assets</b>                          | \$337,468,268             | \$356,758,203      | \$452,841,244      | \$487,110,361      | \$740,701,453      | \$817,449,513      | \$809,271,034      | \$800,206,264      |
| 170 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 171 | <b>Page 5 of 10</b>  |                           |                    |                    |                    |                    |                    |                    |                    |
| 172 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 173 |  |                           |                    |                    |                    |                    |                    |                    |                    |
| 174 |  |                           |                    |                    |                    |                    |                    |                    |                    |

|     | J | K  | L             | M             | N             | O             | P             | Q             | R             | S             |
|-----|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 175 |   | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b> |               |               |               |               |               |               |               |               |
| 176 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>                                      |               |               |               |               |               |               |               |               |
| 177 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>               |               |               |               |               |               |               |               |               |
| 178 |   |  |               |               |               |               |               |               |               |               |
| 179 |   |  |               |               |               |               |               |               |               |               |
| 180 |   |  |               |               |               |               |               |               |               |               |
| 181 |   |  |               |               |               |               |               |               |               |               |
| 182 |   |  |               |               |               |               |               |               |               |               |
| 183 |   |  |               |               |               |               |               |               |               |               |
| 184 |   |  |               |               |               |               |               |               |               |               |
| 185 |   |  |               |               |               |               |               |               |               |               |
| 186 |   |  |               |               |               |               |               |               |               |               |
| 187 |   |  |               |               |               |               |               |               |               |               |
| 188 |   |  |               |               |               |               |               |               |               |               |
| 189 |   |  |               |               |               |               |               |               |               |               |
| 190 |   |  |               |               |               |               |               |               |               |               |
| 191 |   |  |               |               |               |               |               |               |               |               |
| 192 |   |  |               |               |               |               |               |               |               |               |
| 193 |   | <b>Notes:</b>  |               |               |               |               |               |               |               |               |
| 194 |   | <b>3. Debt Service Information Continued</b>                                     |               |               |               |               |               |               |               |               |
| 195 |   |  | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's |
| 196 |   |  | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     |
| 197 |   |  | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     |
| 198 |   |  | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> |
| 199 |   |  | <b>2008</b>   | <b>2009</b>   | <b>2010</b>   | <b>2011</b>   | <b>2012</b>   | <b>2013</b>   | <b>2014</b>   | <b>2015</b>   |
| 200 |   | Actual/Projected Interest on Priest Rapids Bonds                                 | 12,837,860    | 12,286,609    | 11,860,124    | 11,426,472    | 10,932,869    | 9,222,276     | 9,037,831     | 8,857,074     |
| 201 |   | Projected future levelized debt service - interest                               | 0             | 0             | 2,577,201     | 2,577,201     | 10,107,720    | 9,905,566     | 9,707,454     | 9,513,305     |
| 202 |   | Total Projected Interest Payments (a1)   | 12,837,860    | 12,286,609    | 14,437,325    | 14,003,673    | 21,040,589    | 19,127,842    | 18,745,285    | 18,370,379    |
| 203 |   |  |               |               |               |               |               |               |               |               |
| 204 |   | Less Capitalized interest expenses   | (1,107,193)   | (1,201,971)   | (1,580,479)   | (2,000,446)   | (2,875,863)   | (3,955,636)   | (3,205,972)   | (1,602,986)   |
| 205 |   | Capitalized interest expense/CWIP  | 2.93%         | 2.93%         | 2.93%         | 2.93%         | 2.93%         | 2.93%         | 2.93%         | 2.93%         |
| 206 |   | Adjustment in interest expense (a2)  | 0             | 14,391        | 6,876         | (28,472)      | 34,131        | 0             | 0             | 0             |
| 207 |   | Total Interest Expense per operating statement - projections for 2008-2012       | 11,730,667    | 11,099,030    | 12,863,723    | 11,974,755    | 18,198,857    | 15,172,206    | 15,539,314    | 16,767,394    |
| 208 |   |  |               |               |               |               |               |               |               |               |
| 209 |   | Actual/Projected Principal payments on Priest Rapids Bonds                       | 9,325,000     | 9,870,000     | 10,335,000    | 10,800,000    | 11,290,000    | 12,038,000    | 12,222,445    | 12,403,202    |
| 210 |   | Projected future levelized debt service - principal                              | 0             | 0             | 2,241,799     | 2,241,799     | 8,792,280     | 8,994,434     | 9,192,546     | 9,386,695     |
| 211 |   | Total Projected Principal Payments (b)   | 9,325,000     | 9,870,000     | 12,576,799    | 13,041,799    | 20,082,280    | 21,032,434    | 21,414,991    | 21,789,897    |
| 212 |   |  |               |               |               |               |               |               |               |               |
| 213 |   | Total Debt Service (a1) + (a2) + (b)   | 22,162,860    | 22,171,000    | 27,021,000    | 27,017,000    | 41,157,000    | 40,160,276    | 40,160,276    | 40,160,276    |
| 214 |   |  |               |               |               |               |               |               |               |               |
| 215 |   | 15% of Debt Service Requirements   | 3,324,429     | 3,326,000     | 4,053,150     | 4,052,550     | 6,173,550     | 6,024,041     | 6,024,041     | 6,024,041     |
| 216 |   |  |               |               |               |               |               |               |               |               |
| 217 |   |  |               |               |               |               |               |               |               |               |
| 218 |   |  |               |               |               |               |               |               |               |               |
| 219 |   |  |               |               |               |               |               |               |               |               |
| 220 |   |  |               |               |               |               |               |               |               |               |
| 221 |   |  |               |               |               |               |               |               |               |               |
| 222 |   |  |               |               |               |               |               |               |               |               |
| 223 |   |  |               |               |               |               |               |               |               |               |
| 224 |   |  |               |               |               |               |               |               |               |               |
| 225 |   |  |               |               |               |               |               |               |               |               |
| 226 |   |  |               |               |               |               |               |               |               |               |



|    | A | B   | C           | D           | E           | F                                      | G           | H            | I |
|----|---|---|-------------|-------------|-------------|--|-------------|--------------|---|
| 50 |   | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b>        |             |             |             |  |             |              |   |
| 51 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |  |             |              |   |
| 52 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>                      |             |             |             |  |             |              |   |
| 53 |   |   |             |             |             |  |             |              |   |
| 54 |   |   |             |             |             |  |             |              |   |
| 55 |   |   |             |             |             |  |             |              |   |
| 56 |   | <u>(in whole dollars)</u>   |             |             |             | <u>(in whole dollars)</u>              |             |              |   |
| 57 |   |   |             |             |             |  |             |              |   |
| 58 |   | <u>Financial Statement Information</u>  |             |             |             | <u>Financial Statement Information</u> |             |              |   |
| 59 |   | <u>2002</u>   | <u>2003</u> | <u>2004</u> |             | <u>2005</u>                            | <u>2006</u> | <u>2007</u>  |   |
| 60 |   |   |             |             |             |  |             |              |   |
| 61 |   | <b>Operating Revenues</b>   | 32,064,057  | 30,810,541  | 30,707,299  | 30,731,802                             | 40,183,300  | 46,712,241   |   |
| 62 |   |   |             |             |             |  |             |              |   |
| 63 |   | <b>Operating Expenses - See Notes 1, 2, and 4 below:</b>                                |             |             |             |  |             |              |   |
| 64 |   | Generation -  | 11,636,471  | 10,122,746  | 10,402,512  | 12,076,133                             | 13,150,038  | 14,484,358   |   |
| 65 |   | Transmission -  | 889,319     | 850,426     | 838,216     | 829,195                                | 911,621     | 955,609      |   |
| 66 |   | Administrative and General -  | 6,897,861   | 6,570,905   | 6,106,684   | 6,335,021                              | 7,641,076   | 9,004,617    |   |
| 67 |   | Administrative and General - Yakima Nation Payments                                     | 0           | 0           | 0           | 0                                      | 0           | 2,079,046    |   |
| 68 |   | Administrative and General - Habitat Funding Commitments                                | 0           | 0           | 0           | 0                                      | 1,312,487   | 1,204,644    |   |
| 69 |   | Maintenance Expenses  | 0           | 0           | 0           | 0                                      | 0           | 0            |   |
| 70 |   | Depreciation Expenses   | 4,613,571   | 3,681,788   | 5,078,184   | 4,687,574                              | 4,305,179   | 4,494,085    |   |
| 71 |   | Taxes -   | 856,948     | 783,116     | 801,631     | 806,559                                | 963,642     | 991,863      |   |
| 72 |   | Other Operating Costs   |             |             |             |  |             |              |   |
| 73 |   | <b>Total Operating Expenses</b>   | 24,894,170  | 22,008,981  | 23,227,227  | 24,734,482                             | 28,284,043  | 33,214,221   |   |
| 74 |   |   |             |             |             |  |             |              |   |
| 75 |   | <b>Net Operating Income</b>   | 7,169,887   | 8,801,560   | 7,480,072   | 5,997,320                              | 11,899,257  | 13,498,020   |   |
| 76 |   |   |             |             |             |  |             |              |   |
| 77 |   | <b>Expense Changes From Prior Year -<br/>Excluding Yakima &amp; Habitat Settlements</b> |             | (2,885,189) | 1,218,246   | 1,507,255                              | 2,237,074   | 2,958,976    |   |
| 78 |   | <b>Operating Expense Percentage Change - From Prior Year</b>                            |             | -11.59%     | 5.54%       | 6.49%                                  | 9.04%       | 10.46%       |   |
| 79 |   | <b>Average Percentage Change 2003-2007 =</b>  | 3.9881%     |             |             |  |             |              |   |
| 80 |   |   |             |             |             |  |             |              |   |
| 81 |   | <b>Non Operating Revenues and (Expenses)</b>  |             |             |             |  |             |              |   |
| 82 |   | Interest Income (Expense)/Gains on Debt Retirements                                     | 967,727     | 451,766     | 338,167     | 869,153                                | 2,405,970   | 4,653,266    |   |
| 83 |   | Interest on Long-Term Debt - See Note 3   | (8,253,381) | (8,029,995) | (7,575,817) | (7,145,249)                            | (9,217,948) | (11,806,973) |   |
| 84 |   | Amortization of Debt Expense and Discounts  | (614,378)   | (695,559)   | (694,445)   | (605,700)                              | (1,320,974) | (1,070,590)  |   |
| 85 |   | <b>Total Non Operating Expenses</b>   | (7,900,032) | (8,273,788) | (7,932,095) | (6,881,796)                            | (8,132,952) | (8,224,297)  |   |
| 86 |   |   |             |             |             |  |             |              |   |
| 87 |   | <b>Excess (Shortfall) of Revenues Over Cost of Services</b>                             | (730,145)   | 527,772     | (452,023)   | (884,476)                              | 3,766,305   | 5,273,723    |   |
| 88 |   |   |             |             |             |  |             |              |   |
| 89 |   |   |             |             |             |  |             |              |   |
| 90 |   |   |             |             |             |  |             |              |   |
| 91 |   |   |             |             |             |  |             |              |   |

|     | A | B   | C                               | D           | E           | F                               | G           | H           | I |
|-----|---|---|---------------------------------|-------------|-------------|---------------------------------|-------------|-------------|---|
| 92  |   | Projections of Priest Rapids Hydroelectric Project Annual Operating Costs |                                 |             |             |                                 |             |             |   |
| 93  |   | BPA's 2010 Wholesale Power Rate Case                                      |                                 |             |             |                                 |             |             |   |
| 94  |   | Section 7(b)(2) Resource Stack - Operating Cost Projections               |                                 |             |             |                                 |             |             |   |
| 95  |   |   |                                 |             |             |                                 |             |             |   |
| 96  |   |   |                                 |             |             |                                 |             |             |   |
| 97  |   | (in whole dollars)  |                                 |             |             | (in whole dollars)              |             |             |   |
| 98  |   |   |                                 |             |             |                                 |             |             |   |
| 99  |   | Schedule of Power Costs to Power Purchasers:                              | Financial Statement Information |             |             | Financial Statement Information |             |             |   |
| 100 |   |   | 2002                            | 2003        | 2004        | 2005                            | 2006        | 2007        |   |
| 101 |   |   |                                 |             |             |                                 |             |             |   |
| 102 |   | Operating Costs As Outlined Above:  | 24,894,170                      | 22,008,981  | 23,227,227  | 24,734,482                      | 28,284,043  | 33,214,221  |   |
| 103 |   |   |                                 |             |             |                                 |             |             |   |
| 104 |   | Budget/Operating Cost Adjustments - See Note 4:                           |                                 |             |             |                                 |             |             |   |
| 105 |   | Less Other noncash expenses   |                                 |             |             | 0                               | 0           | (48,037)    |   |
| 106 |   | Less Extraordinary maintenance paid by Reserve Funds                      | (76,008)                        | (68,630)    | 0           | (1,426,967)                     | (157,470)   | (48,438)    |   |
| 107 |   | Less Depreciation Expense   | (4,613,571)                     | (3,681,788) | (5,078,184) | (4,687,574)                     | (4,305,179) | (4,494,085) |   |
| 108 |   | Plus Interest on Long-Term Debt   | 8,253,381                       | 8,029,995   | 7,575,817   | 7,145,219                       | 9,217,948   | 11,806,973  |   |
| 109 |   | Plus capitalized interest on CWIP   | 45,928                          | 0           | 268,747     | 340,254                         | 984,637     | 844,040     |   |
| 110 |   | Plus Principal and sinking fund payments on debt - See Note 4 below.      | 4,545,000                       | 4,985,000   | 5,195,000   | 5,430,000                       | 7,795,000   | 9,325,000   |   |
| 111 |   | Plus 15% of interest and sinking fund installments                        | 1,926,646                       | 1,952,249   | 1,955,935   | 1,885,136                       | 2,727,513   | 3,320,716   |   |
| 112 |   | Less Interest and Other Income  | (927,793)                       | (506,481)   | (484,994)   | (732,843)                       | (2,451,184) | (4,480,636) |   |
| 113 |   | Less 15% of prior year second series debt installments                    | (1,985,010)                     | (1,926,646) | (1,952,249) | (1,955,935)                     | (1,885,135) | (2,727,513) |   |
| 114 |   | Bond issuance costs charged (credited) to power purchasers                | 1,314                           | 17,861      | 0           | 0                               | (26,873)    | 0           |   |
| 115 |   | Net Costs Chargeable to Power Purchasers                                  | 32,064,057                      | 30,810,541  | 30,707,299  | 30,731,772                      | 40,183,300  | 46,712,241  |   |
| 116 |   |   |                                 |             |             |                                 |             |             |   |
| 117 |   | Projected Owners Operating Budget Amounts                                 |                                 |             |             |                                 |             |             |   |
| 118 |   | Average Firm Energy Output (PNW L&R Study #55) (365.6aMW)                 |                                 |             |             |                                 |             |             |   |
| 119 |   | times the number of hours in a year (8760)                                |                                 |             |             |                                 |             |             |   |
| 120 |   | Projected Project Cost per MWh  |                                 |             |             |                                 |             |             |   |
| 121 |   |   |                                 |             |             |                                 |             |             |   |
| 122 |   |   |                                 |             |             |                                 |             |             |   |
| 123 |   |   |                                 |             |             |                                 |             |             |   |
| 124 |   |   |                                 |             |             |                                 |             |             |   |
| 125 |   |   |                                 |             |             |                                 |             |             |   |
| 126 |   |   |                                 |             |             |                                 |             |             |   |

|     | A | B  | C                                      | D                  | E                  | F                                      | G                  | H                  | I |
|-----|---|--|--|--------------------|--------------------|--|--------------------|--------------------|---|
| 127 |   | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b> |  |                    |                    |  |                    |                    |   |
| 128 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>                                      |  |                    |                    |  |                    |                    |   |
| 129 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>               |  |                    |                    |  |                    |                    |   |
| 130 |   |  |  |                    |                    |  |                    |                    |   |
| 131 |   |  |  |                    |                    |  |                    |                    |   |
| 132 |   |  |  |                    |                    |  |                    |                    |   |
| 133 |   |  |  |                    |                    |  |                    |                    |   |
| 134 |   |  |  |                    |                    |  |                    |                    |   |
| 135 |   | <b>Selected Balance Sheet Items -</b>  | <u>Financial Statement Information</u> |                    |                    | <u>Financial Statement Information</u> |                    |                    |   |
| 136 |   | <b>Priest Rapids Hydroelectric Project:</b>                                      | <u>(in whole dollars)</u>              |                    |                    | <u>(in whole dollars)</u>              |                    |                    |   |
| 137 |   |  | <b><u>2002</u></b>                     | <b><u>2003</u></b> | <b><u>2004</u></b> | <b><u>2005</u></b>                     | <b><u>2006</u></b> | <b><u>2007</u></b> |   |
| 138 |   | Electric Plant Gross (Dam placed in service 1970)                                | \$248,319,424                          | \$250,995,893      | \$257,882,972      | \$263,274,453                          | \$272,610,802      | \$278,489,734      |   |
| 139 |   | Land and land rights   | 2,586,576                              | 2,586,576          | 2,586,576          | 2,586,576                              | 2,586,576          | 2,586,576          |   |
| 140 |   | Construction work in progress - See Note 3                                       | 4,381,441                              | 10,183,113         | 8,827,546          | 20,746,214                             | 29,187,118         | 37,050,881         |   |
| 141 |   | Accumulated Depreciation & Amortization (15-95 year lives)                       | (107,042,152)                          | (110,725,130)      | (115,853,195)      | (120,564,200)                          | (123,894,407)      | (128,517,030)      |   |
| 142 |   | <b>Net Electric Plant</b> (Note 3 of 2007 F.S.)                                  | 148,245,289                            | 153,040,452        | 153,443,899        | 166,043,043                            | 180,490,089        | 189,610,161        |   |
| 143 |   |  |  |                    |                    |  |                    |                    |   |
| 144 |   | Depreciation expense   | 4,613,571                              | 3,681,788          | 5,078,184          | 4,687,574                              | 4,305,179          | 4,494,085          |   |
| 145 |   | Depreciation expense as a % of gross plant                                       | 1.86%                                  | 1.47%              | 1.97%              | 1.78%                                  | 1.58%              | 1.61%              |   |
| 146 |   |  |  |                    |                    |  |                    |                    |   |
| 147 |   | Relicensing costs  | 15,969,761                             | 21,479,506         | 25,926,488         | 28,055,996                             | 28,716,130         | 29,001,622         |   |
| 148 |   | Unamortized debt expense   | 1,747,505                              | 2,084,600          | 1,853,557          | 2,554,017                              | 3,008,566          | 2,643,930          |   |
| 149 |   | Long-term noncash special funds  | 0                                      | 0                  | 0                  | 0                                      | 35,739,593         | 0                  |   |
| 150 |   | Other Deferred Charges and other assets  | 9,306                                  | 0                  | 0                  | 0                                      | 0                  | 11,764             |   |
| 151 |   | <b>Total Non Current Assets</b>  | 165,971,861                            | 176,604,558        | 181,223,944        | 196,653,056                            | 247,954,378        | 221,267,477        |   |
| 152 |   |  |  |                    |                    |  |                    |                    |   |
| 153 |   | Restricted Assets Current  | 30,208,013                             | 42,056,984         | 32,527,571         | 43,323,454                             | 43,370,906         | 66,055,340         |   |
| 154 |   | Current and Accrued Assets   | 16,200,038                             | 7,951,490          | 8,182,286          | 16,756,206                             | 27,102,424         | 36,444,046         |   |
| 155 |   | <b>Total Current Assets</b>  | 46,408,051                             | 50,008,474         | 40,709,857         | 60,079,660                             | 70,473,330         | 102,499,386        |   |
| 156 |   |  |  |                    |                    |  |                    |                    |   |
| 157 |   | <b>Total Assets</b>  | \$212,379,912                          | \$226,613,032      | \$221,933,801      | \$256,732,716                          | \$318,427,708      | \$323,766,863      |   |
| 158 |   |  |  |                    |                    |  |                    |                    |   |
| 159 |   | Current & Accrued Liabilities  | 22,860,256                             | 9,570,671          | 9,865,060          | 14,437,291                             | 14,993,582         | 22,355,938         |   |
| 160 |   | Current portion of long-term debt  | 4,545,000                              | 4,985,000          | 5,195,000          | 5,430,000                              | 7,795,000          | 9,325,000          |   |
| 161 |   | Long-Term Debt-net of discounts  | 145,591,449                            | 172,146,382        | 167,414,785        | 198,290,945                            | 257,700,000        | 247,880,000        |   |
| 162 |   | Other Noncurrent Liabilities   | 0                                      | 0                  | 0                  | 0                                      | (4,401,659)        | (3,408,583)        |   |
| 163 |   | <b>Total Liabilities</b>   | 172,996,705                            | 186,702,053        | 182,474,845        | 218,158,236                            | 276,086,923        | 276,152,355        |   |
| 164 |   |  |  |                    |                    |  |                    |                    |   |
| 165 |   | Retained Earnings - Invested in capital assets, net of related debt              | 27,044,403                             | 26,970,630         | 29,280,193         | 28,295,148                             | 28,915,376         | 31,690,098         |   |
| 166 |   | Retained Earnings/Net Assets - unrestricted other                                | 6,000,000                              | 6,000,000          | 3,000,000          | 4,849,332                              | 5,630,409          | 6,599,410          |   |
| 167 |   | Retained Earnings/Net assets - restricted  | 6,338,804                              | 6,940,349          | 7,178,763          | 5,430,000                              | 7,795,000          | 9,325,000          |   |
| 168 |   |  |  |                    |                    |  |                    |                    |   |
| 169 |   | <b>Total Liabilities &amp; Retained Earnings / Net Assets</b>                    | \$212,379,912                          | \$226,613,032      | \$221,933,801      | \$256,732,716                          | \$318,427,708      | \$323,766,863      |   |
| 170 |   |  |  |                    |                    |  |                    |                    |   |
| 171 |   | <b>Page 9 of 10</b>  |  |                    |                    |  |                    |                    |   |
| 172 |   |  |  |                    |                    |  |                    |                    |   |
| 173 |   |  |  |                    |                    |  |                    |                    |   |
| 174 |   |  |  |                    |                    |  |                    |                    |   |

|     | A | B  | C           | D           | E           | F           | G           | H           | I |
|-----|---|--|-------------|-------------|-------------|-------------|-------------|-------------|---|
| 175 |   | <b>Projections of Priest Rapids Hydroelectric Project Annual Operating Costs</b>   |             |             |             |             |             |             |   |
| 176 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>  |             |             |             |             |             |             |   |
| 177 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>   |             |             |             |             |             |             |   |
| 178 |   | <b>Notes:</b>  |             |             |             |             |             |             |   |
| 179 |   | <b>1.</b> The financial information for the years 2002 -2007 was from Grant County PUD No. 2's audited financial statements (FS), primarily the audited financial        |             |             |             |             |             |             |   |
| 180 |   | statements on the individual developments (enterprise funds), and the Schedules of Power Costs and Allocation to Power Purchasers.                                       |             |             |             |             |             |             |   |
| 181 |   |  |             |             |             |             |             |             |   |
| 182 |   | <b>2.</b> The operating cost projections for the years 2009-2012 were based on the 2009 Priest Rapids Project Final Proforma budget information dated December 1, 2008.  |             |             |             |             |             |             |   |
| 183 |   | The projected Net Power Costs Chargeable to Power Purchasers for the Wanapum Development for FY2009-2012 agrees to page 20 of the Proforma report.                       |             |             |             |             |             |             |   |
| 184 |   | Variable operating expenses were trended and adjusted to agree with the Proforma budget information. The debt service information was taken from page 83 of the          |             |             |             |             |             |             |   |
| 185 |   | 2007 FS notes in addition to the information presented on pages 20 and 21 of the Priest Rapids Project Final Proforma budget information dated December 1, 2008.         |             |             |             |             |             |             |   |
| 186 |   | The amounts paid under the Yakima Nation and Habitat settlements that are outlined in Note 7 - Commitments on pages 85-86 of the 2007 FS.                                |             |             |             |             |             |             |   |
| 187 |   | Depreciation expense was based on a composite depreciation rate of 1.59% (average of 2006 and 2007 rates) per Note 1 - Organization and Accounting policies              |             |             |             |             |             |             |   |
| 188 |   | of the 2007 FS on page 115. Depreciation expense was calculated on the average of the beginning and ending projected balances of gross utility plant. Capitalized        |             |             |             |             |             |             |   |
| 189 |   | interest expense relating to the average of the beginning and ending year balances for projected construction work in progress (CWIP) was computed using an interest     |             |             |             |             |             |             |   |
| 190 |   | rate of 4.93% which is the 3-year (2005-2007) average of capitalized interest expense divided by the average of the beginning and ending projected CWIP balances         |             |             |             |             |             |             |   |
| 191 |   | for the year, see Note 3 below.  |             |             |             |             |             |             |   |
| 192 |   |  |             |             |             |             |             |             |   |
| 193 |   | <b>3. Debt Service Information</b>   |             |             |             |             |             |             |   |
| 194 |   | The actual interest (a) and principal (b) on the Priest Rapids Bonds for the years 2002-2007 was taken from the Operating Statement and the Statement of Cash            |             |             |             |             |             |             |   |
| 195 |   | Flows. The projected interest (a) and projected principal (b) for 2008-2015 on the Wanapum Revenue Bonds was obtained from Note 5 of the 2007 financial                  |             |             |             |             |             |             |   |
| 196 |   | statements at page 128, Schedule of Debt Service Requirements. A portion of the information for 2009-2012 was from the 2009 Priest Rapids Project Final                  |             |             |             |             |             |             |   |
| 197 |   | Proforma budget information dated December 1, 2008, page 20 the Net Power Costs Charged to Power Purchasers.   |             |             |             |             |             |             |   |
| 198 |   |  |             |             |             |             |             |             |   |
| 199 |   |  | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> |   |
| 200 |   | Actual/Projected Interest on Priest Rapids Bonds   | 8,052,724   | 7,511,045   | 7,683,777   | 9,757,101   | 6,216,854   | 11,360,078  |   |
| 201 |   | Projected future levelized debt service - interest   | 0           | 0           | 0           | 0           | 0           | 0           |   |
| 202 |   | Total Projected Interest Payments (a)  | 8,052,724   | 7,511,045   | 7,683,777   | 9,757,101   | 6,216,854   | 11,360,078  |   |
| 203 |   |  |             |             |             |             |             |             |   |
| 204 |   | Less Capitalized interest expenses   | (45,928)    | 0           | (268,747)   | (340,255)   | (984,636)   | (844,040)   |   |
| 205 |   | Capitalized interest expense/CWIP  |             |             |             | 2.30%       | 3.94%       | 2.55%       |   |
| 206 |   | Adjustment in interest expense   | 246,585     | 518,950     | 160,787     | (2,271,627) | 3,985,730   | 1,290,935   |   |
| 207 |   |  |             |             |             |             |             |             |   |
| 208 |   | Total Interest Expense per operating statement - projections for 2008-2012   | 8,253,381   | 8,029,995   | 7,575,817   | 7,145,219   | 9,217,948   | 11,806,973  |   |
| 209 |   |  |             |             |             |             |             |             |   |
| 210 |   | Actual/Projected Principal payments on Priest Rapids Bonds   | 4,545,000   | 4,985,000   | 5,195,000   | 5,430,000   | 7,795,000   | 9,325,000   |   |
| 211 |   | Projected future levelized debt service - principal  | 0           | 0           | 0           | 0           | 0           | 0           |   |
| 212 |   | Total Projected Principal Payments (b)   | 4,545,000   | 4,985,000   | 5,195,000   | 5,430,000   | 7,795,000   | 9,325,000   |   |
| 213 |   |  |             |             |             |             |             |             |   |
| 214 |   | Total Debt Service (a) + ( b)  | 12,597,724  | 12,496,045  | 12,878,777  | 15,187,101  | 14,011,854  | 20,685,078  |   |
| 215 |   |  |             |             |             |             |             |             |   |
| 216 |   | 15% of Debt Service Requirements   |             | 1,874,407   | 1,931,817   | 2,278,065   | 2,101,778   | 3,102,762   |   |
| 217 |   | <b>4.</b> The Priest Rapids Power Sales Contracts (covering the Priest Rapids and Wanapum Developments) provide that each power purchaser will be obligated to make      |             |             |             |             |             |             |   |
| 218 |   | payments equal to annual power costs, which include all operating expenses and debt service on the Parity Bonds and debt service coverage (currently 15% of              |             |             |             |             |             |             |   |
| 219 |   | annual debt service) less any interest earnings, for the life of the new contracts, multiplied by the percentage of output or revenue, as applicable, that the purchaser |             |             |             |             |             |             |   |
| 220 |   | is entitled to that year. The above debt service provisions take the place of recovering depreciation expense from power purchasers and thus depreciation is             |             |             |             |             |             |             |   |
| 221 |   | subtracted from the schedule of power costs charged purchasers. Extraordinary maintenance, and other charges are paid by the Reserve and Replacement Fund,               |             |             |             |             |             |             |   |
| 222 |   | Supplemental Repair and Renewal Fund, and the Construction Fund and are not recovered from power purchasers.   |             |             |             |             |             |             |   |
| 223 |   |  |             |             |             |             |             |             |   |
| 224 |   |  |             |             |             |             |             |             |   |
| 225 |   |  |             |             |             |             |             |             |   |
| 226 |   |  |             |             |             |             |             |             |   |

|    | A  | B  | C                | D                | E              | F              | G              | H              | I              | J              |
|----|--|----|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |    |                  |                  |                |                |                |                |                |                |
| 2  | <b>Grant's Priest Rapids Allocation for 2010-2015 - Received from Grant PUD 12/22/08</b> |    |                  |                  |                |                |                |                |                |                |
| 3  |  |    |                  |                  |                |                |                |                |                |                |
| 4  | <b>Priest Rapids Dam, Project Owner = Grant County PUD, FERC License Exp. 3/31/2052,</b> |    |                  |                  |                |                |                |                |                |                |
| 5  | <b>New Purchaser Agreements became effective 11/01/2005.</b>                             |    |                  |                  |                |                |                |                |                |                |
| 6  |  |    |                  |                  |                |                |                |                |                |                |
| 7  | <b>Grant County PUD's Allocation Amounts prepared by Michiko Sell of Grant PUD</b>       |    |                  |                  |                |                |                |                |                |                |
| 8  | <b>Priest Rapids</b>   |    |                  |                  |                |                |                |                |                |                |
| 9  | <b>Name</b>  |    | <b>12-15 %'s</b> | <b>10-11 %'s</b> | <b>FY2010</b>  | <b>FY2011</b>  | <b>FY2012</b>  | <b>FY2013</b>  | <b>FY2014</b>  | <b>FY2015</b>  |
| 10 | Avista Corp (WWP Division)   |    | 0.0364           | 0.0376           | 13.7           | 13.7           | 13.3           | 13.3           | 13.3           | 13.3           |
| 11 | Clearwater Power   | ** | 0.0011           | 0.0011           | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            |
| 12 | Cowlitz County PUD #1  |    | 0.0103           | 0.0179           | 6.5            | 6.5            | 3.8            | 3.8            | 3.8            | 3.8            |
| 13 | Eugene Water & Electric Board  |    | 0.0102           | 0.0105           | 3.8            | 3.8            | 3.7            | 3.7            | 3.7            | 3.7            |
| 14 | Fall River Electric Coop   | ** | 0.0014           | 0.0014           | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            |
| 15 | Forest Grove, City of  |    | 0.0042           | 0.0042           | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            |
| 16 | Grant County PUD #2  |    | 0.6347           | 0.6168           | 225.3          | 225.5          | 232.1          | 232.1          | 232.1          | 232.1          |
| 17 | Idaho County L & P   | ** | 0.0004           | 0.0004           | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 18 | Kittitas County PUD #1   |    | 0.0014           | 0.0014           | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            |
| 19 | Kootenai Electric Coop   | ** | 0.0019           | 0.0019           | 0.7            | 0.7            | 0.7            | 0.7            | 0.7            | 0.7            |
| 20 | Lost River Electric Coop   | ** | 0.0003           | 0.0003           | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 21 | Lower Valley Energy  | ** | 0.0025           | 0.0025           | 0.9            | 0.9            | 0.9            | 0.9            | 0.9            | 0.9            |
| 22 | McMinnville, City of   |    | 0.0042           | 0.0042           | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            |
| 23 | Milton-Freewater, City of  |    | 0.0042           | 0.0042           | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            |
| 24 | Northern Lights  | ** | 0.0017           | 0.0017           | 0.6            | 0.6            | 0.6            | 0.6            | 0.6            | 0.6            |
| 25 | Pacific Power  |    | 0.0827           | 0.0855           | 31.2           | 31.3           | 30.2           | 30.2           | 30.2           | 30.2           |
| 26 | Portland General Electric  |    | 0.0827           | 0.0855           | 31.2           | 31.3           | 30.2           | 30.2           | 30.2           | 30.2           |
| 27 | Puget Sound Energy   |    | 0.0477           | 0.0493           | 18.0           | 18.0           | 17.4           | 17.4           | 17.4           | 17.4           |
| 28 | Raft River Electric Coop   | ** | 0.0004           | 0.0004           | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 29 | Salmon River Electric Coop   | ** | 0.0003           | 0.0003           | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 30 | Seattle City Light   |    | 0.0202           | 0.0209           | 7.6            | 7.6            | 7.4            | 7.4            | 7.4            | 7.4            |
| 31 | Tacoma Public Utilities  |    | 0.0204           | 0.0211           | 7.7            | 7.7            | 7.5            | 7.5            | 7.5            | 7.5            |
| 32 | United Electric Coop   | ** | 0.0007           | 0.0007           | 0.3            | 0.3            | 0.3            | 0.3            | 0.3            | 0.3            |
| 33 | Unknown Marketer   | ** | 0.0300           | 0.0300           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           |
| 34 | <b>Priest Rapids After Encroachment</b>  |    | <b>1.00</b>      | <b>0.9998</b>    | <b>365.2</b>   | <b>365.6</b>   | <b>365.7</b>   | <b>365.7</b>   | <b>365.6</b>   | <b>365.6</b>   |
| 35 |  |    |                  |                  |                |                |                |                |                |                |
| 36 | COUs not Dedicated to Regional Loads   |    |                  |                  | 14.9           | 14.9           | 14.9           | 14.9           | 14.9           | 14.9           |
| 37 | and Market Purchaser Allocations - **  |    |                  |                  | 350.3          | 350.7          | 350.8          | 350.8          | 350.8          | 350.7          |
| 38 | Other Power Allocations  |    |                  |                  |                |                |                |                |                |                |
| 38 | <b>TOTAL</b>   |    |                  | <b>365.6</b>     | <b>365.2</b>   | <b>365.6</b>   | <b>365.7</b>   | <b>365.7</b>   | <b>365.6</b>   | <b>365.6</b>   |
| 39 | Non-dedicated COUs and   |    |                  |                  |                |                |                |                |                |                |
| 40 | Market Purchaser Energy -  |    |                  |                  |                |                |                |                |                |                |
| 41 | Six Year Average Allocation FY2010-2015  |    |                  |                  |                |                |                |                |                |                |
| 41 | <b>=</b>   |    |                  | <b>14.9</b>      |                |                |                |                |                |                |
| 42 | <b>Priest Rapids Allocation Percentage Shares:</b>                                       |    |                  |                  |                |                |                |                |                |                |
| 42 | COUs not Dedicated to Regional Loads   |    |                  |                  | 4.07%          | 4.07%          | 4.07%          | 4.07%          | 4.07%          | 4.07%          |
| 43 | and Market Purchaser Allocations - **  |    |                  |                  | 95.93%         | 95.93%         | 95.93%         | 95.93%         | 95.93%         | 95.93%         |
| 44 | Other Power Allocations  |    |                  |                  |                |                |                |                |                |                |
| 44 | <b>TOTAL</b>   |    |                  |                  | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> |
| 45 | Non-dedicated COUs and Market  |    |                  |                  |                |                |                |                |                |                |
| 46 | Purchaser Energy - Six Year Average  |    |                  |                  |                |                |                |                |                |                |
| 47 | Allocation Percentage FY2010-2015  |    |                  |                  | <b>4.07%</b>   |                |                |                |                |                |
| 48 |  |    |                  |                  |                |                |                |                |                |                |
| 49 |  |    |                  |                  |                |                |                |                |                |                |
| 50 |  |    |                  |                  |                |                |                |                |                |                |

| J  | K   | L  | M          | N | O               | P                | Q               | R               | S               |                 |
|----|---|--|------------|---|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| 1  | Projections of Wanapum Hydroelectric Project Annual Operating Costs   |  |            |   |                 |                  |                 |                 |                 |                 |
| 2  | BPA's 2010 Wholesale Power Rate Case  |  |            |   |                 |                  |                 |                 |                 |                 |
| 3  | Section 7(b)(2) Resource Stack - Operating Cost Projections   |  |            |   |                 |                  |                 |                 |                 |                 |
| 4  |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 5  |   |  |            |   | FY2010-\$S      | FY2010-\$S       | 7(b)(2)         |                 |                 |                 |
| 6  |   |  |            |   | <u>100.00%</u>  | <u>4.09%</u>     | Resource Stack  |                 |                 |                 |
| 7  |   |  |            |   |                 | "undesignated" / | <u>Amounts</u>  |                 |                 |                 |
| 8  |   |  |            |   |                 | "non- dedicated" | <u>0 MW</u>     |                 |                 |                 |
| 9  | 7(b)(2) Case - Resource Stack Values - See Note A Below   |  |            |   |                 |                  |                 |                 |                 |                 |
| 10 | Total O&M - Average FY2010-2015 Non-dedicated COU & Marketer Projection =   |  |            |   |                 |                  |                 |                 |                 |                 |
| 11 | 14.8aMW *\$28.64 * 8,760 hour /year   |  |            |   | \$91,441,702    | \$3,712,859      | \$ 0            |                 |                 |                 |
| 12 | Cost per MWh per line 9 below -   |  |            |   | \$28.64         | \$28.64 \$/MW    | \$ 0/MW         |                 |                 |                 |
| 13 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 14 | Capital Investment - Projected Net Utility Plant FY 2010  |  |            |   | \$468,912,222   |                  |                 |                 |                 |                 |
| 15 | Capital Investment - Projected Net Utility Plant FY 2015  |  |            |   | \$693,553,067   |                  |                 |                 |                 |                 |
| 16 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 17 | Life  |  |            |   | 70-100 years    |                  |                 |                 |                 |                 |
| 18 | Placed in service   |  |            |   | 1963            |                  |                 |                 |                 |                 |
| 19 | Non-dedicated COU & Marketer average hourly energy (aMW) six-year average FY2010-2015   |  |            |   | 364.5           | 14.8 MW          | 0 MW            |                 |                 |                 |
| 20 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 21 | Average Annual Energy Output associated with Non-dedicated portion / @ 14.8aMW  |  |            |   | 3,193,020       | 129,648 MWh      | 0 MWh           |                 |                 |                 |
| 22 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 23 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 24 |   |  |            |   | <u>2010</u>     | <u>2011</u>      | <u>2012</u>     | <u>2013</u>     | <u>2014</u>     | <u>2015</u>     |
| 25 | 1.  | 2010\$\$ Price Conversion Factor   |            |   | <u>1.000000</u> | <u>1.020232</u>  | <u>1.041582</u> | <u>1.062788</u> | <u>1.084313</u> | <u>1.106094</u> |
| 26 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 27 | 2.  | Net Costs Chargeable to Power Purchasers - per analysis below                                      |            |   | 90,209,000      | 87,704,000       | 98,461,000      | 99,054,312      | 100,396,305     | 101,630,557     |
| 28 |   | Average Annual Operating Costs - Nominal \$\$ =  | 96,242,529 |   |                 |                  |                 |                 |                 |                 |
| 29 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 30 | 3.  | Projected Annual Amounts Stated in 2010\$\$ (line 2 divided by line 1)                             |            |   | 90,209,000      | 85,964,761       | 94,530,243      | 93,202,325      | 92,589,782      | 91,882,387      |
| 31 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 32 | 4.  | FY 2010 -2015 Average Total Operating Costs in 2010\$\$  |            |   | 91,396,416      | 91,396,416       | 91,396,416      | 91,396,416      | 91,396,416      | 91,396,416      |
| 33 |   | Operating Cost Adjustment - See Note B below   |            |   | 45,286          | 45,286           | 45,286          | 45,286          | 45,286          | 45,286          |
| 34 | 5.  | Adjusted Annual Cost Amount in 2010 \$\$   |            |   | 91,441,702      | 91,441,702       | 91,441,702      | 91,441,702      | 91,441,702      | 91,441,702      |
| 35 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 36 | 6.  | Ram Model Annual Cost Amounts Using Average Cost Pricing stated in 2010 \$\$ (line 5 times line 1) |            |   | 91,441,702      | 93,291,751       | 95,244,031      | 97,183,144      | 99,151,427      | 101,143,118     |
| 37 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 38 | 7.  | Annual Variance Over / (Under) (line 6 less line 2)  |            |   | 1,232,703       | 5,587,751        | (3,216,969)     | (1,871,168)     | (1,244,878)     | (487,439)       |
| 39 |   | Total of Annual Variances =  | (0)        |   |                 |                  |                 |                 |                 |                 |
| 40 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 41 | 8.  | Average Firm Energy Output - 364.5aMW times the number of hours in a year (8760)                   |            |   | 3,193,020       | MWh              |                 |                 |                 |                 |
| 42 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 43 | 9.  | Projected Project Cost per MWh (line 5 divided by line 8)  |            |   | \$28.64         |                  |                 |                 |                 |                 |
| 44 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 45 | Note B - It is necessary to make an operating adjustment so that the average total operating costs for all years of the rate test period (FY2010-2015) is equivalent to the total actual operating costs in nominal |  |            |   |                 |                  |                 |                 |                 |                 |
| 46 | dollars (line 2) since the RAM model starts with a beginning cost of when the resource is selected from the resource stack and then escalates the cost using the fixed escalation factors at line 1 above. If a     |  |            |   |                 |                  |                 |                 |                 |                 |
| 47 | simple average of the nominal operating costs for the rate test period were used, the "starting operating cost" of the resource would have been higher at a rate of \$96,242,259 in comparison to the adjusted      |  |            |   |                 |                  |                 |                 |                 |                 |
| 48 | operating cost amount of \$91,441,702.  |  |            |   |                 |                  |                 |                 |                 |                 |
| 49 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 50 |   |  |            |   |                 |                  |                 |                 |                 |                 |
| 51 |   |  |            |   |                 |                  |                 |                 |                 |                 |

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|    | A  | B | C | D | E | F | G | H | I |
|----|--|---|---|---|---|---|---|---|---|
| 1  | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b>   |   |   |   |   |   |   |   |   |
| 2  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |   |   |   |   |   |   |   |   |
| 3  | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>   |   |   |   |   |   |   |   |   |
| 4  |  |   |   |   |   |   |   |   |   |
| 5  | <b>Note A</b> - BPA has not included in the resource stack for the WP-10 Power Rate Case any of the portions of Grant Co. PUD's Wanapum and Priest Rapids hydro resources    |   |   |   |   |   |   |   |   |
| 6  | that have been purchased by BPA's 7(b)(2) Customers nor the annual portions that Grant sells in its' annual auction to establish a market price for these. During BPA's      |   |   |   |   |   |   |   |   |
| 7  | process of making its' Section 5(b)/9(c) Policy Determination, concerning the portion of Grant's resources that were sold at auction and for those portions of its resources |   |   |   |   |   |   |   |   |
| 8  | sold to regional customers that were exchanged back to Grant to be sold at market prices, Grant Co. PUD was charged with ensuring that these resources were not sold,        |   |   |   |   |   |   |   |   |
| 9  | resold, distributed for use or used outside the Pacific Northwest region except in conformance with the Bonneville Project Act, Public Law 75-329; the Pacific Northwest     |   |   |   |   |   |   |   |   |
| 10 | Consumer Power Preference Act, Public Law 88-552; and the Northwest Power Act, Public Law 96-501; before selling power from these resources outside the region.              |   |   |   |   |   |   |   |   |
| 11 | A compliance protocol was established making Grant Co. PUD responsible for the in-region use of the power when the sale at auction is made to an entity that does not        |   |   |   |   |   |   |   |   |
| 12 | have a Northwest Power Act section 5(b) contract with BPA or that does not directly serve regional consumer loads (see the copy of BPA's 5(b)/9(c) compliance protocol       |   |   |   |   |   |   |   |   |
| 13 | letter to Grant Co. PUD and Grant Co. PUD's prototype market auction contract provisions). Grant is required to monitor the sales of it's' purchaser and if requested by     |   |   |   |   |   |   |   |   |
| 14 | BPA, Grant will provide this information to BPA within 15 days of the end of the month requested. In the event that the information does not corroborate that the power      |   |   |   |   |   |   |   |   |
| 15 | was used in the region, BPA may impose a decrement upon Grant during the remaining period of time of its Subscription contract ending September 30, 2011. Similar            |   |   |   |   |   |   |   |   |
| 16 | provisions to Grant's sale at auction have also been incorporated in the contracts with the Snake River Power Association 7(b)(2) Customers.                                 |   |   |   |   |   |   |   |   |
| 17 |  |   |   |   |   |   |   |   |   |
| 18 | Neither Grant Co. PUD nor BPA's other 7(b)(2) Customers who own shares of the Priest Rapids or Wanapum Hydro resources have had a portion of their BPA power                 |   |   |   |   |   |   |   |   |
| 19 | purchases "decremented" based upon sales of power from these resources outside the region as provided in the foregoing statutory provisions and BPA's Section 5(b)/9(c)      |   |   |   |   |   |   |   |   |
| 20 | Policy. To ensure consistency with BPA's Section 5(b)/9(c) Policy Determinations, BPA has decided to change its 7(b)(2) resource stack policy to one of presuming that       |   |   |   |   |   |   |   |   |
| 21 | power from these resources and other 7(b)(2) customer resources that have been designated as "unspecified resources" serving a utility's native load pursuant to section     |   |   |   |   |   |   |   |   |
| 22 | 5(b) of the Northwest Power Act, (which decreases BPA's load obligations) are presumed used to meet regional loads unless there is documentation that the power is being     |   |   |   |   |   |   |   |   |
| 23 | exported out of the region only after it was offered within the region in conformance with section 9(c). Based on this 7(b)(2) resource stack policy decision, it was        |   |   |   |   |   |   |   |   |
| 24 | decided to not include any portions of the Grant Co. PUD's hydro resources in the 7(b)(2) rate stack in performing the 7(b)(2) Rate Test.                                    |   |   |   |   |   |   |   |   |
| 25 |  |   |   |   |   |   |   |   |   |
| 26 |  |   |   |   |   |   |   |   |   |
| 27 |  |   |   |   |   |   |   |   |   |
| 28 |  |   |   |   |   |   |   |   |   |
| 29 |  |   |   |   |   |   |   |   |   |
| 30 |  |   |   |   |   |   |   |   |   |
| 31 |  |   |   |   |   |   |   |   |   |
| 32 |  |   |   |   |   |   |   |   |   |
| 33 |  |   |   |   |   |   |   |   |   |
| 34 |  |   |   |   |   |   |   |   |   |
| 35 |  |   |   |   |   |   |   |   |   |
| 36 |  |   |   |   |   |   |   |   |   |
| 37 |  |   |   |   |   |   |   |   |   |
| 38 |  |   |   |   |   |   |   |   |   |
| 39 |  |   |   |   |   |   |   |   |   |
| 40 |  |   |   |   |   |   |   |   |   |
| 41 |  |   |   |   |   |   |   |   |   |
| 42 |  |   |   |   |   |   |   |   |   |
| 43 |  |   |   |   |   |   |   |   |   |
| 44 |  |   |   |   |   |   |   |   |   |
| 45 |  |   |   |   |   |   |   |   |   |
| 46 |  |   |   |   |   |   |   |   |   |
| 47 |  |   |   |   |   |   |   |   |   |
| 48 |  |   |   |   |   |   |   |   |   |
| 49 |  |   |   |   |   |   |   |   |   |
| 50 |  |   |   |   |   |   |   |   |   |
| 51 |  |   |   |   |   |   |   |   |   |

|    | J | K  | L             | M             | N             | O             | P             | Q             | R             | S             |
|----|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 52 |   | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b> |               |               |               |               |               |               |               |               |
| 53 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>                                |               |               |               |               |               |               |               |               |
| 54 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>         |               |               |               |               |               |               |               |               |
| 55 |   |  | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's |
| 56 |   |  | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     |
| 57 |   |  | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     |
| 58 |   |  | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> |
| 59 |   |  | <u>2008</u>   | <u>2009</u>   | <u>2010</u>   | <u>2011</u>   | <u>2012</u>   | <u>2013</u>   | <u>2014</u>   | <u>2015</u>   |
| 60 |   |  |               |               |               |               |               |               |               |               |
| 62 |   | <b>Operating Revenues</b>  | 59,500,000    | 69,000,000    | 74,500,000    | 75,000,000    | 76,000,000    | 79,000,000    | 83,500,000    | 87,500,000    |
| 64 |   | <b>Operating Expenses</b> - See Notes 1, 2, and 4 below:                   |               |               |               |               |               |               |               |               |
| 65 |   | Generation - *   | 17,181,606    | 21,631,642    | 23,621,753    | 22,889,479    | 21,271,193    | 21,909,329    | 22,566,608    | 23,243,607    |
| 66 |   | Transmission - *   | 1,325,012     | 1,668,190     | 1,821,663     | 1,765,192     | 1,640,393     | 1,689,605     | 1,740,293     | 1,792,502     |
| 67 |   | Administrative and General - *   | 11,918,573    | 15,005,484    | 16,385,988    | 15,878,022    | 14,755,446    | 15,198,110    | 15,654,053    | 16,123,674    |
| 68 |   | Administrative and General - Yakima Nation Payments                        | 3,200,000     | 3,200,000     | 2,400,000     | 2,400,000     | 2,400,000     | 2,400,000     | 2,400,000     | 2,400,000     |
| 69 |   | Administrative and General - Habitat Funding Commitments                   | 1,227,000     | 1,264,000     | 1,302,000     | 1,341,000     | 1,381,000     | 1,381,000     | 1,381,000     | 1,381,000     |
| 70 |   | Maintenance Expenses   | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| 71 |   | Depreciation Expenses  | 7,160,698     | 7,358,570     | 7,699,790     | 8,397,164     | 9,486,830     | 10,863,849    | 12,244,009    | 13,210,303    |
| 72 |   | Taxes - *  | 1,014,175     | 1,019,000     | 1,050,000     | 1,081,000     | 1,113,000     | 1,146,390     | 1,180,782     | 1,216,205     |
| 73 |   | Other Operating Costs  | 0             | 5,411         | 12,945        | 19,157        | 5,818         | 0             | 0             | 0             |
| 74 |   | <b>Total Operating Expenses</b>  | 43,027,064    | 51,152,297    | 54,294,140    | 53,771,014    | 52,053,680    | 54,588,282    | 57,166,744    | 59,367,291    |
| 76 |   | <b>Net Operating Income</b>  | 16,472,936    | 17,847,703    | 20,205,860    | 21,228,986    | 23,946,320    | 24,411,718    | 26,333,256    | 28,132,709    |
|    |   | <b>Expense Changes From Prior Year -</b>                                   |               |               |               |               |               |               |               |               |
| 78 |   | <b>Excluding Yakima &amp; Habitat Settlements</b>                          | 6,733,535     | 8,088,233     | 3,903,843     | (562,126)     | (1,757,334)   | 2,534,602     | 2,578,463     | 2,200,547     |
| 79 |   | <b>Operating Expense Percentage Change - From Prior Year</b>               | 21.13%        | 20.95%        | 8.14%         | -1.08%        | -3.42%        | 5.10%         | 4.94%         | 4.02%         |
| 80 |   | <b>Average Percentage Change 2008-2012</b>                                 | 9.14%         |               |               |               |               |               |               |               |
| 82 |   | <b>Non Operating Revenues and (Expenses)</b>                               |               |               |               |               |               |               |               |               |
| 83 |   | Interest Income (Expense)/Gains on Debt Retirements                        | 4,842,619     | 1,745,000     | 3,130,000     | 2,531,000     | 5,347,000     | 2,673,500     | 2,673,500     | 2,673,500     |
| 84 |   | Interest on Long-Term Debt - See Note 3                                    | (20,804,791)  | (19,036,005)  | (24,408,913)  | (21,467,202)  | (28,494,218)  | (26,209,363)  | (28,080,485)  | (30,395,151)  |
| 85 |   | Amortization of Debt Expense and Discounts                                 | (433,898)     | (433,898)     | (433,898)     | (433,898)     | (433,898)     | (433,898)     | (433,898)     | (433,898)     |
| 86 |   | <b>Total Non Operating Expenses</b>  | (16,396,070)  | (17,724,903)  | (21,712,811)  | (19,370,100)  | (23,581,116)  | (23,969,761)  | (25,840,883)  | (28,155,549)  |
| 88 |   | <b>Excess (Shortfall) of Revenues Over Cost of Services</b>                | 76,866        | 122,800       | (1,506,951)   | 1,858,887     | 365,205       | 441,957       | 492,373       | (22,841)      |
| 90 |   | <b>Page 3 of 10</b>  |               |               |               |               |               |               |               |               |
| 91 |   |  |               |               |               |               |               |               |               |               |
| 92 |   |  |               |               |               |               |               |               |               |               |
| 93 |   |  |               |               |               |               |               |               |               |               |



| J   | K  | L                | M                | N                | O                | P                | Q                | R                | S                |
|-----|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 94  | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b>       |                  |                  |                  |                  |                  |                  |                  |                  |
| 95  | <b>BPA's 2010 Wholesale Power Rate Case</b>                                      |                  |                  |                  |                  |                  |                  |                  |                  |
| 96  | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>               |                  |                  |                  |                  |                  |                  |                  |                  |
| 97  |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 98  |  | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    | BPA Analyst's    |
| 99  |  | Projected        | Projected        | Projected        | Projected        | Projected        | Projected        | Projected        | Projected        |
| 100 |  | Operating        | Operating        | Operating        | Operating        | Operating        | Operating        | Operating        | Operating        |
|     | <b>Projected Power Costs Charged to Power Purchasers -</b>                       |                  |                  |                  |                  |                  |                  |                  |                  |
| 101 | <b>See Notes 2-4:</b>  | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    | <u>Budget</u>    |
| 102 |  | <b>2008</b>      | <b>2009</b>      | <b>2010</b>      | <b>2011</b>      | <b>2012</b>      | <b>2013</b>      | <b>2014</b>      | <b>2015</b>      |
| 103 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 104 | <b>Operating Costs As Outlined Above:</b>  | 43,027,064       | 51,152,297       | 54,294,140       | 53,771,014       | 52,053,680       | 54,588,282       | 57,166,744       | 59,367,291       |
| 105 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 106 | <b>Budget/Operating Cost Adjustments - See Note 4:</b>                           |                  |                  |                  |                  |                  |                  |                  |                  |
| 107 | Less Other noncash expenses  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| 108 | Less Extraordinary maintenance paid by Reserve Funds                             | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| 109 | Less Depreciation Expense  | (7,160,698)      | (7,358,570)      | (7,699,790)      | (8,397,164)      | (9,486,830)      | (10,863,849)     | (12,244,009)     | (13,210,303)     |
| 110 | Plus Interest on Long-Term Debt  | 20,804,791       | 19,036,005       | 24,408,913       | 21,467,202       | 28,494,218       | 26,209,363       | 28,080,485       | 30,395,151       |
| 111 | Plus capitalized interest on CWIP  | 1,227,056        | 2,115,995        | 4,324,591        | 6,757,302        | 8,539,252        | 8,558,726        | 5,992,242        | 2,996,121        |
| 112 | Plus Principal and sinking fund payments on debt - See Note 4 below.             | 10,445,000       | 11,320,000       | 16,149,496       | 16,639,496       | 22,071,531       | 23,378,980       | 24,074,342       | 24,755,797       |
| 113 | Plus 15% of interest and sinking fund installments                               | 4,871,527        | 4,870,800        | 6,732,450        | 6,729,600        | 8,865,750        | 8,722,060        | 8,722,060        | 8,722,060        |
| 114 | Less Interest and Other Income   | (4,842,619)      | (1,745,000)      | (3,130,000)      | (2,531,000)      | (5,347,000)      | (2,673,500)      | (2,673,500)      | (2,673,500)      |
| 115 | Less 15% of prior year second series debt installments                           | (4,868,452)      | (4,871,527)      | (4,870,800)      | (6,732,450)      | (6,729,600)      | (8,865,750)      | (8,722,060)      | (8,722,060)      |
| 116 | Bond issuance costs charged (credited) to power purchasers                       | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| 117 | <b>Net Power Costs Chargeable to Power Purchasers</b>                            | 63,503,669       | 74,520,000       | 90,209,000       | 87,704,000       | 98,461,000       | 99,054,312       | 100,396,305      | 101,630,557      |
| 118 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 119 | Projected Owners Operating Budget Amounts  | \$63,503,669     | \$74,520,000     | \$90,209,000     | \$87,704,000     | \$98,461,000     | \$99,054,312     | \$100,396,305    | \$101,630,557    |
| 120 | Average Firm Energy Output 364.5MW<br>times the number of hours in a year (8760) | 3,193,020        | 3,193,020        | 3,193,020        | 3,193,020        | 3,193,020        | 3,193,020        | 3,193,020        | 3,193,020        |
| 121 | Projected Project Cost per MWh   | <b>\$19.8883</b> | <b>\$23.3384</b> | <b>\$28.2519</b> | <b>\$27.4674</b> | <b>\$30.8363</b> | <b>\$31.0221</b> | <b>\$31.4424</b> | <b>\$31.8290</b> |
| 122 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 123 | FY 2010-2015 Average =   | <b>\$30.1415</b> |                  |                  |                  |                  |                  |                  |                  |
| 124 | Percentage Increase / (Decrease)   |                  | <b>17.35%</b>    | <b>21.05%</b>    | <b>-2.78%</b>    | <b>12.27%</b>    | <b>0.60%</b>     | <b>1.35%</b>     | <b>1.23%</b>     |
| 125 | Average Increase FY2010-2015   | <b>5.6214%</b>   |                  |                  |                  |                  |                  |                  |                  |
| 126 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 127 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 128 |  |                  |                  |                  |                  |                  |                  |                  |                  |
| 129 |  |                  |                  |                  |                  |                  |                  |                  |                  |

| J   | K  | L                  | M             | N             | O             | P               | Q               | R               | S               |
|-----|--|--------------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|
| 130 | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b> |                    |               |               |               |                 |                 |                 |                 |
| 131 | <b>BPA's 2010 Wholesale Power Rate Case</b>                                |                    |               |               |               |                 |                 |                 |                 |
| 132 | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>         |                    |               |               |               |                 |                 |                 |                 |
| 133 |  | BPA Analyst's      | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's   | BPA Analyst's   | BPA Analyst's   | BPA Analyst's   |
| 134 |  | Projected          | Projected     | Projected     | Projected     | Projected       | Projected       | Projected       | Projected       |
| 135 |  | Operating          | Operating     | Operating     | Operating     | Operating       | Operating       | Operating       | Operating       |
| 136 |  | <u>Budget</u>      | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u>   | <u>Budget</u>   | <u>Budget</u>   | <u>Budget</u>   |
| 137 |  |                    |               |               |               |                 |                 |                 |                 |
| 138 | <b>Selected Balance Sheet Items - Wanapum Hydroelectric Project:</b>       | (in whole dollars) |               |               |               |                 |                 |                 |                 |
| 139 |  |                    |               |               |               |                 |                 |                 |                 |
| 140 |  | <u>2008</u>        | <u>2009</u>   | <u>2010</u>   | <u>2011</u>   | <u>2012</u>     | <u>2013</u>     | <u>2014</u>     | <u>2015</u>     |
| 141 | Electric Plant Gross (Dam placed in service 1963)                          | 456,988,220        | 468,618,079   | 499,909,009   | 556,337,973   | 636,973,956     | 729,547,947     | 810,578,942     | 851,094,440     |
| 142 | Land and land rights   | 2,586,576          | 2,586,576     | 2,586,576     | 2,586,576     | 2,586,576       | 2,586,576       | 2,586,576       | 2,586,576       |
| 143 | Construction work in progress - See Note 3                                 | 23,259,718         | 62,581,859    | 112,857,930   | 161,271,965   | 185,147,982     | 162,061,991     | 81,030,996      | 40,515,498      |
| 144 | Accumulated Depreciation & Amortization (15-95 year lives)                 | (131,382,932)      | (138,741,502) | (146,441,292) | (154,838,456) | (164,325,286)   | (175,189,135)   | (187,433,144)   | (200,643,447)   |
| 145 | <b>Net Electric Plant</b> (Note 3 of 2007 F.S.)                            | 351,451,582        | 395,045,012   | 468,912,222   | 565,358,058   | 660,383,228     | 719,007,379     | 706,763,370     | 693,553,067     |
| 146 |  |                    |               |               |               |                 |                 |                 |                 |
| 147 | Depreciation expense   | 7,160,698          | 7,358,570     | 7,699,790     | 8,397,164     | 9,486,830       | 10,863,849      | 12,244,009      | 13,210,303      |
| 148 | Depreciation expense as a % of gross plant                                 | 1.59%              | 1.59%         | 1.59%         | 1.59%         | 1.59%           | 1.59%           | 1.59%           | 1.59%           |
| 149 |  |                    |               |               |               |                 |                 |                 |                 |
| 150 | Relicensing costs  | 29,058,303         | 29,058,303    | 29,058,303    | 29,058,303    | 29,058,303      | 29,058,303      | 29,058,303      | 29,058,303      |
| 151 | Unamortized debt expense   | 4,077,330          | 3,643,432     | 3,209,534     | 2,775,636     | 2,341,738       | 1,907,840       | 1,473,942       | 1,040,044       |
| 152 | Long-term noncash special funds  | 0                  | 0             | 0             | 0             | 0               | 0               | 0               | 0               |
| 153 | Other Deferred Charges and other assets                                    | 10,588             | 9,411         | 8,235         | 7,058         | 5,882           | 4,706           | 3,529           | 2,353           |
| 154 | <b>Total Non Current Assets</b>  | 384,587,215        | 427,746,747   | 501,180,059   | 597,191,997   | 691,783,269     | 749,973,522     | 737,295,615     | 723,651,414     |
| 155 |  |                    |               |               |               |                 |                 |                 |                 |
| 156 | Restricted Assets Current  | 137,065,070        | 133,498,968   | 282,063,866   | 278,497,764   | 448,931,662     | 445,365,560     | 441,799,458     | 438,233,356     |
| 157 | Current and Accrued Assets   | 27,000,000         | 31,000,000    | 35,000,000    | 39,000,000    | 43,000,000      | 47,000,000      | 51,000,000      | 55,000,000      |
| 158 | <b>Total Current Assets</b>  | 164,065,070        | 164,498,968   | 317,063,866   | 317,497,764   | 491,931,662     | 492,365,560     | 492,799,458     | 493,233,356     |
| 159 |  |                    |               |               |               |                 |                 |                 |                 |
| 160 | <b>Total Assets</b>  | \$548,652,285      | \$592,245,715 | \$818,243,925 | \$914,689,761 | \$1,183,714,931 | \$1,242,339,082 | \$1,230,095,073 | \$1,216,884,770 |
| 161 |  |                    |               |               |               |                 |                 |                 |                 |
| 162 | Current & Accrued Liabilities  | 30,228,885         | 30,228,885    | 30,228,885    | 30,228,885    | 30,228,885      | 30,228,885      | 30,228,885      | 30,228,885      |
| 163 | Current portion of long-term debt  | 11,320,000         | 16,149,496    | 16,639,496    | 22,071,531    | 23,378,980      | 24,074,342      | 24,755,797      | 25,423,622      |
| 164 | Long-Term Debt   | 410,710,000        | 394,560,504   | 530,052,007   | 507,980,476   | 658,601,496     | 634,527,154     | 609,771,358     | 584,347,736     |
| 165 | Other Noncurrent Liabilities   | 0                  | 0             | 0             | 0             | 0               | 0               | 0               | 0               |
| 166 | <b>Total Liabilities</b>   | 452,258,885        | 440,938,885   | 576,920,388   | 560,280,892   | 712,209,361     | 688,830,381     | 664,756,039     | 640,000,242     |
| 167 |  |                    |               |               |               |                 |                 |                 |                 |
| 168 | Retained Earnings - Invested in capital assets, net of related debt        | 80,708,304         | 135,621,734   | 225,638,440   | 338,723,773   | 455,820,474     | 537,823,605     | 549,653,938     | 561,199,431     |
| 169 | Retained Earnings/Net Assets - unrestricted other                          | 6,000,000          | 6,000,000     | 6,000,000     | 6,000,000     | 6,000,000       | 6,000,000       | 6,000,000       | 6,000,000       |
| 170 | Retained Earnings/Net assets - restricted                                  | 9,685,097          | 9,685,097     | 9,685,097     | 9,685,097     | 9,685,097       | 9,685,097       | 9,685,097       | 9,685,097       |
| 171 |  |                    |               |               |               |                 |                 |                 |                 |
| 172 | <b>Total Liabilities &amp; Retained Earnings / Net Assets</b>              | \$548,652,285      | \$592,245,715 | \$818,243,925 | \$914,689,761 | \$1,183,714,931 | \$1,242,339,082 | \$1,230,095,073 | \$1,216,884,770 |
| 173 |  |                    |               |               |               |                 |                 |                 |                 |
| 174 | <b>Page 5 of 10</b>  |                    |               |               |               |                 |                 |                 |                 |
| 175 |  |                    |               |               |               |                 |                 |                 |                 |
| 176 |  |                    |               |               |               |                 |                 |                 |                 |
| 177 |  |                    |               |               |               |                 |                 |                 |                 |

| J   | K  | L             | M             | N             | O             | P             | Q             | R             | S             |
|-----|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 178 | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b> |               |               |               |               |               |               |               |               |
| 179 | <b>BPA's 2010 Wholesale Power Rate Case</b>                                |               |               |               |               |               |               |               |               |
| 180 | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>         |               |               |               |               |               |               |               |               |
| 181 |  |               |               |               |               |               |               |               |               |
| 182 |  |               |               |               |               |               |               |               |               |
| 183 |  |               |               |               |               |               |               |               |               |
| 184 |  |               |               |               |               |               |               |               |               |
| 185 |  |               |               |               |               |               |               |               |               |
| 186 |  |               |               |               |               |               |               |               |               |
| 187 |  |               |               |               |               |               |               |               |               |
| 188 |  |               |               |               |               |               |               |               |               |
| 189 |  |               |               |               |               |               |               |               |               |
| 190 |  |               |               |               |               |               |               |               |               |
| 191 |  |               |               |               |               |               |               |               |               |
| 192 |  |               |               |               |               |               |               |               |               |
| 193 |  |               |               |               |               |               |               |               |               |
| 194 |  |               |               |               |               |               |               |               |               |
| 195 |  |               |               |               |               |               |               |               |               |
| 196 |  |               |               |               |               |               |               |               |               |
| 197 | <b><u>Note 3. Debt Service Information - continued:</u></b>                |               |               |               |               |               |               |               |               |
| 198 |  | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's | BPA Analyst's |
| 199 |  | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     | Projected     |
| 200 |  | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     | Operating     |
| 201 |  | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> |
| 202 |  |               |               |               |               |               |               |               |               |
| 203 |  | <u>2008</u>   | <u>2009</u>   | <u>2010</u>   | <u>2011</u>   | <u>2012</u>   | <u>2013</u>   | <u>2014</u>   | <u>2015</u>   |
| 204 | Actual/Projected Interest on Wanapum Bonds                                 | 22,031,847    | 21,119,154    | 20,607,856    | 20,066,951    | 19,492,295    | 17,547,069    | 17,196,128    | 16,852,205    |
| 205 | Projected future levelized debt service - interest                         | 0             | 0             | 8,197,504     | 8,197,504     | 17,572,469    | 17,221,020    | 16,876,599    | 16,539,067    |
| 206 | Total Projected Interest Payments (a1)                                     | 22,031,847    | 21,119,154    | 28,805,360    | 28,264,455    | 37,064,764    | 34,768,089    | 34,072,727    | 33,391,272    |
| 207 |  |               |               |               |               |               |               |               |               |
| 208 | Less Capitalized interest expenses   | (1,227,056)   | (2,115,995)   | (4,324,591)   | (6,757,302)   | (8,539,252)   | (8,558,726)   | (5,992,242)   | (2,996,121)   |
| 209 | Capitalized interest expense/CWIP - %                                      | 4.93%         | 4.93%         | 4.93%         | 4.93%         | 4.93%         | 4.93%         | 4.93%         | 4.93%         |
| 210 | Adjustment in interest expense (a2)  | 0             | 32,846        | (71,856)      | (39,951)      | (31,295)      | 0             | 0             | 0             |
| 211 | Total Interest Exp. - operating statement - projections 2008-2015          | 20,804,791    | 19,036,005    | 24,408,913    | 21,467,202    | 28,494,218    | 26,209,363    | 28,080,485    | 30,395,151    |
| 212 |  |               |               |               |               |               |               |               |               |
| 213 |  |               |               |               |               |               |               |               |               |
| 214 | Actual/Projected Principal payments on Wanapum Bonds                       | 10,445,000    | 11,320,000    | 11,885,000    | 12,375,000    | 12,930,000    | 13,886,000    | 14,236,941    | 14,580,864    |
| 215 | Projected future levelized debt service - principal                        | 0             | 0             | 4,264,496     | 4,264,496     | 9,141,531     | 9,492,980     | 9,837,401     | 10,174,933    |
| 216 | Total Projected Principal Payments (b)                                     | 10,445,000    | 11,320,000    | 16,149,496    | 16,639,496    | 22,071,531    | 23,378,980    | 24,074,342    | 24,755,797    |
| 217 |  |               |               |               |               |               |               |               |               |
| 218 | Total Debt Service (a1) + (a2) + (b)                                       | 32,476,847    | 32,472,000    | 44,883,000    | 44,864,000    | 59,105,000    | 58,147,069    | 58,147,069    | 58,147,069    |
| 220 | 15% of Debt Service Requirements   | 4,871,527     | 4,870,800     | 6,732,450     | 6,729,600     | 8,865,750     | 8,722,060     | 8,722,060     | 8,722,060     |
| 221 |  |               |               |               |               |               |               |               |               |
| 222 |  |               |               |               |               |               |               |               |               |
| 223 |  |               |               |               |               |               |               |               |               |
| 224 |  |               |               |               |               |               |               |               |               |
| 225 |  |               |               |               |               |               |               |               |               |
| 226 |  |               |               |               |               |               |               |               |               |
| 227 |  |               |               |               |               |               |               |               |               |
| 228 |  |               |               |               |               |               |               |               |               |
| 229 | <b>Page 6 of 10</b>  |               |               |               |               |               |               |               |               |
| 230 |  |               |               |               |               |               |               |               |               |
| 231 |  |               |               |               |               |               |               |               |               |

| A  | B   | C            | D            | E            | F                               | G            | H            | I |
|----|---|--------------|--------------|--------------|---------------------------------|--------------|--------------|---|
| 52 | Projections of Wanapum Hydroelectric Project Annual Operating Costs |              |              |              |                                 |              |              |   |
| 53 | BPA's 2010 Wholesale Power Rate Case                                |              |              |              |                                 |              |              |   |
| 54 | Section 7(b)(2) Resource Stack - Operating Cost Projections         |              |              |              |                                 |              |              |   |
| 55 |   |              |              |              |                                 |              |              |   |
| 56 |   |              |              |              |                                 |              |              |   |
| 57 | (in whole dollars)  |              |              |              | (in whole dollars)              |              |              |   |
| 58 |   |              |              |              |                                 |              |              |   |
| 59 | Financial Statement Information                                     |              |              |              | Financial Statement Information |              |              |   |
| 60 |   | <u>2002</u>  | <u>2003</u>  | <u>2004</u>  | <u>2005</u>                     | <u>2006</u>  | <u>2007</u>  |   |
| 62 | Operating Revenues  | \$39,654,100 | \$37,623,004 | \$30,184,495 | 35,301,208                      | 42,691,219   | 54,637,861   |   |
| 64 | Operating Expenses - See Notes 1, 2, and 4 below:                   |              |              |              |                                 |              |              |   |
| 65 | Generation - *  | 12,623,551   | 11,099,675   | 10,388,384   | 11,701,974                      | 11,775,574   | 13,856,134   |   |
| 66 | Transmission - *  | 977,237      | 948,778      | 969,101      | 868,489                         | 1,042,200    | 1,068,558    |   |
| 67 | Administrative and General - *                                      | 6,759,515    | 6,451,674    | 5,423,216    | 5,453,955                       | 6,726,024    | 9,611,753    |   |
| 68 | Administrative and General - Yakima Nation Payments                 | 0            | 0            | 0            | 0                               | 0            | 2,079,046    |   |
| 69 | Administrative and General - Habitat Funding Commitments            | 0            | 0            | 0            | 0                               | 1,312,487    | 1,204,644    |   |
| 70 | Maintenance Expenses  | 0            | 0            | 0            | 0                               | 0            | 0            |   |
| 71 | Depreciation Expenses   | 4,924,752    | 5,031,141    | 5,152,363    | 4,907,668                       | 5,994,813    | 6,358,381    |   |
| 72 | Taxes - *   | 852,347      | 764,649      | 803,820      | 874,633                         | 936,775      | 971,704      |   |
| 73 | Other Operating Costs   |              |              |              |                                 |              |              |   |
| 74 | Total Operating Expenses  | 26,137,402   | 24,295,917   | 22,736,884   | 23,806,719                      | 27,787,873   | 35,150,219   |   |
| 76 | Net Operating Income  | 13,516,698   | 13,327,087   | 7,447,611    | 11,494,489                      | 14,903,346   | 19,487,642   |   |
|    | Expense Changes From Prior Year -                                   |              |              |              |                                 |              |              |   |
| 78 | Excluding Yakima & Habitat Settlements                              |              | (1,841,485)  | (1,559,033)  | 1,069,835                       | 2,668,667    | 5,391,144    |   |
| 79 | Operating Expense Percentage Change - From Prior Year               |              | -7.05%       | -6.42%       | 4.71%                           | 11.21%       | 19.40%       |   |
| 80 | Average Percentage Change 2003-2007                                 | 4.3708%      |              |              |                                 |              |              |   |
| 82 | Non Operating Revenues and (Expenses)                               |              |              |              |                                 |              |              |   |
| 83 | Interest Income (Expense)/Gains on Debt Retirements                 | 958,126      | 476,575      | 219,143      | 2,760,540                       | 2,809,745    | 7,940,238    |   |
| 84 | Interest on Long-Term Debt - See Note 3                             | (7,177,897)  | (7,838,985)  | (6,275,562)  | (9,335,290)                     | (11,692,267) | (17,769,525) |   |
| 85 | Amortization of Debt Expense and Discounts                          | (713,449)    | (806,562)    | (749,297)    | (744,633)                       | (688,862)    | (664,679)    |   |
| 86 | Total Non Operating Expenses  | (6,933,220)  | (8,168,972)  | (6,805,716)  | (7,319,383)                     | (9,571,384)  | (10,493,966) |   |
| 88 | Excess (Shortfall) of Revenues Over Cost of Services                | 6,583,478    | 5,158,115    | 641,895      | 4,175,106                       | 5,331,962    | 8,993,676    |   |
| 90 | Page 7 of 10  |              |              |              |                                 |              |              |   |
| 91 |   |              |              |              |                                 |              |              |   |
| 92 |   |              |              |              |                                 |              |              |   |
| 93 |   |              |              |              |                                 |              |              |   |

|     | A | B  | C   | D                  | E                  | F                  | G                  | H                  | I |
|-----|---|--|---|--------------------|--------------------|--------------------|--------------------|--------------------|---|
| 94  |   | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b> |   |                    |                    |                    |                    |                    |   |
| 95  |   | <b>BPA's 2010 Wholesale Power Rate Case</b>                                |   |                    |                    |                    |                    |                    |   |
| 96  |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>         |   |                    |                    |                    |                    |                    |   |
| 97  |   |  |   |                    |                    |                    |                    |                    |   |
| 98  |   |  |   |                    |                    |                    |                    |                    |   |
| 99  |   |  |   |                    |                    |                    |                    |                    |   |
| 100 |   |  |   |                    |                    |                    |                    |                    |   |
| 101 |   | <b>Schedule of Power Costs to Power Purchasers:</b>                        | <b>Financial Statement Information - (in whole dollars)</b> |                    |                    |                    |                    |                    |   |
| 102 |   |  | <b><u>2002</u></b>  | <b><u>2003</u></b> | <b><u>2004</u></b> | <b><u>2005</u></b> | <b><u>2006</u></b> | <b><u>2007</u></b> |   |
| 103 |   |  |   |                    |                    |                    |                    |                    |   |
| 104 |   | <b>Operating Costs As Outlined Above:</b>                                  | 26,137,402  | 24,295,917         | 22,736,884         | 23,806,719         | 27,787,873         | 35,150,219         |   |
| 105 |   |  |   |                    |                    |                    |                    |                    |   |
| 106 |   | <b>Budget/Operating Cost Adjustments - See Note 4:</b>                     |   |                    |                    |                    |                    |                    |   |
| 107 |   | Less Other noncash expenses  | 0   | 0                  | 0                  | 0                  | 0                  | (30,139)           |   |
| 108 |   | Less Extraordinary maintenance paid by Reserve Funds                       | (255,008)   | (90,831)           | 0                  | (774,662)          | (116,462)          | 0                  |   |
| 109 |   | Less Depreciation Expense  | (4,924,752)   | (5,031,141)        | (5,152,363)        | (4,907,668)        | (5,994,813)        | (6,358,381)        |   |
| 110 |   | Plus Interest on Long-Term Debt  | 7,177,897   | 7,838,985          | 6,275,562          | 7,177,897          | 11,692,267         | 17,769,525         |   |
| 111 |   | Plus capitalized interest on CWIP  | 487,657   | 299,965            | 1,437,425          | 3,000,691          | 2,586,136          | 3,762,460          |   |
| 112 |   | Plus Principal and sinking fund payments on debt - See Note 4 below.       | 10,955,000  | 9,924,804          | 5,180,000          | 6,900,000          | 8,870,000          | 10,445,000         |   |
| 113 |   | Plus 15% of interest and sinking fund installments                         | 2,793,083   | 2,614,184          | 1,933,948          | 2,882,732          | 3,400,356          | 4,868,452          |   |
| 114 |   | Less Interest and Other Income   | (1,014,294)   | (584,986)          | (334,189)          | (3,065,939)        | (2,651,406)        | (7,568,919)        |   |
| 115 |   | Less 15% of prior year second series debt installments                     | (1,711,094)   | (1,675,494)        | (1,892,772)        | (1,927,257)        | (2,882,732)        | (3,400,356)        |   |
| 116 |   | Bond issuance costs charged (credited) to power purchasers                 | 8,209   | 31,606             | 0                  | 51,303             | 0                  | 0                  |   |
| 117 |   | <b>Net Costs Chargeable to Power Purchasers</b>                            | 39,654,100  | 37,623,009         | 30,184,495         | 33,143,816         | 42,691,219         | 54,637,861         |   |
| 118 |   |  |   |                    |                    |                    |                    |                    |   |
| 119 |   | Projected Owners Operating Budget Amounts                                  |   |                    |                    |                    |                    |                    |   |
| 120 |   | Average Firm Energy Output (PNW L&R Study #55) (364.5MW)                   |   |                    |                    |                    |                    |                    |   |
| 121 |   | times the number of hours in a year (8760)                                 |   |                    |                    |                    |                    |                    |   |
| 122 |   | Projected Project Cost per MWh   |   |                    |                    |                    |                    |                    |   |
| 123 |   |  |   |                    |                    |                    |                    |                    |   |
| 124 |   |  |   |                    |                    |                    |                    |                    |   |
| 125 |   |  |   |                    |                    |                    |                    |                    |   |
| 126 |   |  |   |                    |                    |                    |                    |                    |   |
| 127 |   |  |   |                    |                    |                    |                    |                    |   |
| 128 |   |  |   |                    |                    |                    |                    |                    |   |
| 129 |   |  |   |                    |                    |                    |                    |                    |   |

| A   | B   | C                               | D             | E             | F                               | G             | H             | I |
|-----|---|---------------------------------|---------------|---------------|---------------------------------|---------------|---------------|---|
| 130 | Projections of Wanapum Hydroelectric Project Annual Operating Costs |                                 |               |               |                                 |               |               |   |
| 131 | BPA's 2010 Wholesale Power Rate Case                                |                                 |               |               |                                 |               |               |   |
| 132 | Section 7(b)(2) Resource Stack - Operating Cost Projections         |                                 |               |               |                                 |               |               |   |
| 133 |   |                                 |               |               |                                 |               |               |   |
| 134 |   |                                 |               |               |                                 |               |               |   |
| 135 |   |                                 |               |               |                                 |               |               |   |
| 136 |   |                                 |               |               |                                 |               |               |   |
| 137 |   |                                 |               |               |                                 |               |               |   |
| 138 | Selected Balance Sheet Items - Wanapum Hydroelectric Project:       | Financial Statement Information |               |               | Financial Statement Information |               |               |   |
| 139 |   | (in whole dollars)              |               |               | (in whole dollars)              |               |               |   |
| 140 |   | 2002                            | 2003          | 2004          | 2005                            | 2006          | 2007          |   |
| 141 | Electric Plant Gross (Dam placed in service 1963)                   | 258,738,862                     | \$263,178,360 | \$272,017,524 | \$274,022,058                   | \$344,636,849 | \$443,728,502 |   |
| 142 | Land and land rights  | 16,441,695                      | 16,441,695    | 16,441,695    | 16,441,695                      | 16,441,695    | 16,441,695    |   |
| 143 | Construction work in progress - See Note 3                          | 9,865,278                       | 21,230,005    | 53,279,575    | 79,184,196                      | 80,519,296    | 26,519,436    |   |
| 144 | Accumulated Depreciation & Amortization (15-95 year lives)          | (100,896,839)                   | (105,929,169) | (111,130,577) | (114,286,278)                   | (119,510,815) | (124,222,234) |   |
| 145 | Net Electric Plant (Note 3 of 2007 F.S.)                            | 184,148,996                     | 194,920,891   | 230,608,217   | 255,361,671                     | 322,087,025   | 362,467,399   |   |
| 147 | Depreciation expense  | 4,924,752                       | 5,031,141     | 5,152,363     | 4,907,668                       | 5,994,813     | 6,358,381     |   |
| 148 | Depreciation expense as a % of gross plant                          | 1.90%                           | 1.91%         | 1.93%         | 1.80%                           | 1.94%         | 1.61%         |   |
| 150 | Relicensing costs   | 15,969,794                      | 21,492,288    | 25,954,022    | 28,112,676                      | 28,772,811    | 29,058,303    |   |
| 151 | Unamortized debt expense  | 1,308,608                       | 2,115,744     | 1,886,648     | 3,214,705                       | 4,945,126     | 4,511,228     |   |
| 152 | Long-term noncash special funds                                     | 9,306                           | 0             | 33,566        | 0                               | 70,478,698    | 0             |   |
| 153 | Other Deferred Charges and other assets                             | 0                               | 0             | 0             | 0                               | 0             | 11,764        |   |
| 154 | Total Non Current Assets  | 201,436,704                     | 218,528,923   | 258,482,453   | 286,689,052                     | 426,283,660   | 396,048,694   |   |
| 156 | Restricted Assets Current   | 18,796,718                      | 30,027,733    | 27,831,707    | 89,902,639                      | 109,348,485   | 147,918,391   |   |
| 157 | Current and Accrued Assets  | 18,027,531                      | 17,559,743    | 8,415,820     | 12,591,936                      | 19,571,040    | 23,816,265    |   |
| 158 | Total Current Assets  | 36,824,249                      | 47,587,476    | 36,247,527    | 102,494,575                     | 128,919,525   | 171,734,656   |   |
| 160 | Total Assets  | \$238,260,953                   | \$266,116,399 | \$294,729,980 | \$389,183,627                   | \$555,203,185 | \$567,783,350 |   |
| 162 | Current & Accrued Liabilities                                       | 24,983,524                      | 9,156,639     | 40,633,275    | 18,515,358                      | 26,192,013    | 34,265,756    |   |
| 163 | Current portion of long-term debt                                   | 11,025,000                      | 4,905,000     | 5,180,000     | 6,900,000                       | 8,870,000     | 10,445,000    |   |
| 164 | Long-Term Debt  | 137,185,000                     | 181,560,000   | 176,380,000   | 283,600,000                     | 432,885,000   | 422,030,000   |   |
| 165 | Other Noncurrent Liabilities  | (6,198,995)                     | (6,325,429)   | (5,805,229)   | (3,898,842)                     | 1,365,441     | 2,208,158     |   |
| 166 | Total Liabilities   | 166,994,529                     | 189,296,210   | 216,388,046   | 305,116,516                     | 469,312,454   | 468,948,914   |   |
| 168 | Retained Earnings - Invested in capital assets, net of related debt | 62,243,317                      | 46,924,797    | 69,734,677    | 72,784,379                      | 72,288,236    | 81,279,121    |   |
| 169 | Retained Earnings/Net Assets - unrestricted other                   | 1,369,023                       | 23,097,621    | 1,500,000     | 1,500,000                       | 4,732,495     | 7,055,122     |   |
| 170 | Retained Earnings/Net assets - restricted                           | 7,654,084                       | 6,797,771     | 7,107,257     | 9,782,732                       | 8,870,000     | 10,500,193    |   |
| 172 | Total Liabilities & Retained Earnings / Net Assets                  | \$238,260,953                   | \$266,116,399 | \$294,729,980 | \$389,183,627                   | \$555,203,185 | \$567,783,350 |   |
| 173 |   |                                 |               |               |                                 |               |               |   |
| 174 | Page 9 of 10  |                                 |               |               |                                 |               |               |   |
| 175 |   |                                 |               |               |                                 |               |               |   |
| 176 |   |                                 |               |               |                                 |               |               |   |
| 177 |   |                                 |               |               |                                 |               |               |   |

|     | A | B  | C           | D           | E           | F           | G           | H           | I |
|-----|---|--|-------------|-------------|-------------|-------------|-------------|-------------|---|
| 178 |   | <b>Projections of Wanapum Hydroelectric Project Annual Operating Costs</b>   |             |             |             |             |             |             |   |
| 179 |   | <b>BPA's 2010 Wholesale Power Rate Case</b>  |             |             |             |             |             |             |   |
| 180 |   | <b>Section 7(b)(2) Resource Stack - Operating Cost Projections</b>   |             |             |             |             |             |             |   |
| 181 |   |  |             |             |             |             |             |             |   |
| 182 |   | <b>Notes:</b>  |             |             |             |             |             |             |   |
| 183 |   | 1. The financial information for the years 2002 -2007 was from Grant County PUD No. 2's audited financial statements (FS), primarily the audited financial               |             |             |             |             |             |             |   |
| 184 |   | statements on the individual developments (enterprise funds), and the Schedules of Power Costs and Allocation to Power Purchasers.                                       |             |             |             |             |             |             |   |
| 185 |   |  |             |             |             |             |             |             |   |
| 186 |   | 2. The operating cost projections for the years 2009-2012 were based on the 2009 Priest Rapids Project Final Proforma budget information dated December 1, 2008.         |             |             |             |             |             |             |   |
| 187 |   | The projected Net Power Costs Chargeable to Power Purchasers for the Wanapum Development for FY2009-2012 agrees to page 22 of 31 of the Proforma report.                 |             |             |             |             |             |             |   |
| 188 |   | Variable operating expenses were trended and adjusted to agree with the Proforma budget information. The debt service information was taken from page 128 of the         |             |             |             |             |             |             |   |
| 189 |   | 2007 FS notes in addition to the information presented on pages 22 and 23 of the Priest Rapids Project Final Proforma budget information dated December 1, 2008.         |             |             |             |             |             |             |   |
| 190 |   | The amounts paid under the Yakima Nation and Habitat settlements that are outlined in Note 7 - Commitments on pages 130-131 of the 2007 FS.                              |             |             |             |             |             |             |   |
| 191 |   | Depreciation expense was based on a composite depreciation rate of 1.59% (average of 2006 and 2007 rates) per Note 1 - Organization and Accounting policies              |             |             |             |             |             |             |   |
| 192 |   | of the 2007 FS on page 115. Depreciation expense was calculated on the average of the beginning and ending projected balances of gross utility plant. Capitalized        |             |             |             |             |             |             |   |
| 193 |   | interest expense relating to the average of the beginning and ending year balances for projected construction work in progress (CWIP) was computed using an interest     |             |             |             |             |             |             |   |
| 194 |   | rate of 4.93% which is the 3-year (2005-2007) average of capitalized interest expense divided by the average of the beginning and ending projected CWIP balances         |             |             |             |             |             |             |   |
| 195 |   | for the year, see Note 3 below.  |             |             |             |             |             |             |   |
| 196 |   |  |             |             |             |             |             |             |   |
| 197 |   | 3. <u>Debt Service Information</u>   |             |             |             |             |             |             |   |
| 198 |   | The actual interest (a) and principal (b) on the Priest Rapids Bonds for the years 2002-2007 was taken from the Operating Statement and the Statement of Cash            |             |             |             |             |             |             |   |
| 199 |   | Flows. The projected interest (a) and projected principal (b) for 2008-2015 on the Wanapum Revenue Bonds was obtained from Note 5 of the 2007 financial                  |             |             |             |             |             |             |   |
| 200 |   | statements at page 128, Schedule of Debt Service Requirements. A portion of the information for 2009-2012 was from the 2009 Priest Rapids Project Final                  |             |             |             |             |             |             |   |
| 201 |   | Proforma budget information dated December 1, 2008, page 22 the Net Power Costs Charged to Power Purchasers.   |             |             |             |             |             |             |   |
| 202 |   |  |             |             |             |             |             |             |   |
| 203 |   |  | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> |   |
| 204 |   | Actual/Projected Interest on Wanapum Bonds   | 7,546,528   | 7,166,547   | 7,815,774   | 9,789,356   | 12,169,030  | 17,402,537  |   |
| 205 |   | Projected future levelized debt service - interest   | 0           | 0           | 0           | 0           | 0           | 0           |   |
| 206 |   | Total Projected Interest Payments (a)  | 7,546,528   | 7,166,547   | 7,815,774   | 9,789,356   | 12,169,030  | 17,402,537  |   |
| 207 |   |  |             |             |             |             |             |             |   |
| 208 |   | Less Capitalized interest expenses   | (487,657)   | (299,965)   | (1,437,425) | (3,000,691) | (2,586,136) | (3,762,460) |   |
| 209 |   | Capitalized interest expense/CWIP - %  |             | 1.93%       | 3.86%       | 4.53%       | 3.24%       | 7.03%       |   |
| 210 |   | Adjustment in interest expense   | 119,026     | 972,403     | (102,787)   | 2,546,625   | 2,109,373   | 4,129,448   |   |
| 211 |   | Total Interest Exp. - operating statement - projections 2002-2007  | 7,177,897   | 7,838,985   | 6,275,562   | 7,177,897   | 11,692,267  | 17,769,525  |   |
| 212 |   |  |             |             |             |             |             |             |   |
| 213 |   |  |             |             |             |             |             |             |   |
| 214 |   | Actual/Projected Principal payments on Wanapum Bonds (b)   | 11,570,000  | 19,025,000  | 4,905,000   | 5,180,000   | 6,900,000   | 8,870,000   |   |
| 215 |   | Projected future levelized debt service - principal  | 0           | 0           | 0           | 0           | 0           | 0           |   |
| 216 |   | Total Projected Principal Payments (b)   | 11,570,000  | 19,025,000  | 4,905,000   | 5,180,000   | 6,900,000   | 8,870,000   |   |
| 217 |   |  |             |             |             |             |             |             |   |
| 218 |   | Total Debt Service (a) + ( b)  | 19,116,528  | 26,191,547  | 12,720,774  | 14,969,356  | 19,069,030  | 26,272,537  |   |
| 219 |   |  |             |             |             |             |             |             |   |
| 220 |   | 15% of Debt Service Requirements   | 2,867,479   | 3,928,732   | 1,908,116   | 2,245,403   | 2,860,355   | 3,940,881   |   |
| 221 |   |  |             |             |             |             |             |             |   |
| 222 |   | 4. The Priest Rapids Power Sales Contracts (covering the Priest Rapids and Wanapum Developments) provide that each power purchaser will be obligated to make             |             |             |             |             |             |             |   |
| 223 |   | payments equal to annual power costs, which include all operating expenses and debt service on the Parity Bonds and debt service coverage (currently 15% of              |             |             |             |             |             |             |   |
| 224 |   | annual debt service) less any interest earnings, for the life of the new contracts, multiplied by the percentage of output or revenue, as applicable, that the purchaser |             |             |             |             |             |             |   |
| 225 |   | is entitled to that year. The above debt service provisions take the place of recovering depreciation expense from power purchasers and thus depreciation is             |             |             |             |             |             |             |   |
| 226 |   | subtracted from the schedule of power costs charged purchasers. Extraordinary maintenance, and other charges are paid by the Reserve and Replacement Fund,               |             |             |             |             |             |             |   |
| 227 |   | Supplemental Repair and Renewal Fund, and the Construction Fund and are not recovered from power purchasers.   |             |             |             |             |             |             |   |
| 228 |   |  |             |             |             |             |             |             |   |
| 229 |   | <b>Page 10 of 10</b>   |             |             |             |             |             |             |   |
| 230 |   |  |             |             |             |             |             |             |   |
| 231 |   |  |             |             |             |             |             |             |   |

|    | A   | B  | C           | D             | E              | F              | G              | H              | I              | J              |
|----|---|----|-------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |    |             |               |                |                |                |                |                |                |
| 2  | <b>Grant's Wanapum Allocation for 2010-2015 - Received from Grant PUD 12/22/08</b>                          |    |             |               |                |                |                |                |                |                |
| 3  |   |    |             |               |                |                |                |                |                |                |
| 4  | <b>Wanapum Dam, Project Owner = Grant County PUD, FERC License Expires 03/31/2052,</b>                      |    |             |               |                |                |                |                |                |                |
| 5  | <b>Existing Purchaser Agreements Expire 10/31/2009, New Contracts Provisions become effective 11/01/09.</b> |    |             |               |                |                |                |                |                |                |
| 6  |   |    |             |               |                |                |                |                |                |                |
| 7  | <b>Grant County PUD's Allocation Amounts prepared by Michiko Sell of Grant PUD</b>                          |    |             |               |                |                |                |                |                |                |
| 8  | <b>Wanapum</b>  |    |             |               |                |                |                |                |                |                |
| 9  | Name  |    | 12-15 %'s   | 10-11 %'s     | FY2010         | FY2011         | FY2012         | FY2013         | FY2014         | FY2015         |
| 10 | Avista Corp (WWP Division)  |    | 0.0364      | 0.0376        | 13.7           | 13.7           | 13.3           | 13.3           | 13.3           | 13.3           |
| 11 | Clearwater Power  | ** | 0.0011      | 0.0011        | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            |
| 12 | Cowlitz County PUD #1   |    | 0.0103      | 0.0179        | 6.5            | 6.5            | 3.8            | 3.8            | 3.8            | 3.8            |
| 13 | Eugene Water & Electric Board   |    | 0.0102      | 0.0105        | 3.8            | 3.8            | 3.7            | 3.7            | 3.7            | 3.7            |
| 14 | Fall River Electric Coop  | ** | 0.0014      | 0.0014        | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            |
| 15 | Forest Grove, City of   |    | 0.0042      | 0.0042        | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            |
| 16 | Grant County PUD #2   |    | 0.6347      | 0.6168        | 224.8          | 224.8          | 231.3          | 231.3          | 231.4          | 231.4          |
| 17 | Idaho County L & P  | ** | 0.0004      | 0.0004        | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 18 | Kittitas County PUD #1  |    | 0.0014      | 0.0014        | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            | 0.5            |
| 19 | Kootenai Electric Coop  | ** | 0.0019      | 0.0019        | 0.7            | 0.7            | 0.7            | 0.7            | 0.7            | 0.7            |
| 20 | Lost River Electric Coop  | ** | 0.0003      | 0.0003        | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 21 | Lower Valley Energy   | ** | 0.0025      | 0.0025        | 0.9            | 0.9            | 0.9            | 0.9            | 0.9            | 0.9            |
| 22 | McMinnville, City of  |    | 0.0042      | 0.0042        | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            |
| 23 | Milton-Freewater, City of   |    | 0.0042      | 0.0042        | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            | 1.5            |
| 24 | Northern Lights   | ** | 0.0017      | 0.0017        | 0.6            | 0.6            | 0.6            | 0.6            | 0.6            | 0.6            |
| 25 | Pacific Power   |    | 0.0827      | 0.0855        | 31.2           | 31.2           | 30.1           | 30.1           | 30.2           | 30.2           |
| 26 | Portland General Electric   |    | 0.0827      | 0.0855        | 31.2           | 31.2           | 30.1           | 30.1           | 30.2           | 30.2           |
| 27 | Puget Sound Energy  |    | 0.0477      | 0.0493        | 18.0           | 18.0           | 17.4           | 17.4           | 17.4           | 17.4           |
| 28 | Raft River Electric Coop  | ** | 0.0004      | 0.0004        | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 29 | Salmon River Electric Coop  | ** | 0.0003      | 0.0003        | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| 30 | Seattle City Light  |    | 0.0202      | 0.0209        | 7.6            | 7.6            | 7.4            | 7.4            | 7.4            | 7.4            |
| 31 | Tacoma Public Utilities   |    | 0.0204      | 0.0211        | 7.7            | 7.7            | 7.4            | 7.4            | 7.4            | 7.4            |
| 32 | United Electric Coop  | ** | 0.0007      | 0.0007        | 0.3            | 0.3            | 0.3            | 0.3            | 0.3            | 0.3            |
| 33 | Unknown Marketer  | ** | 0.0300      | 0.0300        | 10.9           | 10.9           | 10.9           | 10.9           | 10.9           | 10.9           |
| 34 | <b>Wanapum After Encroachment</b>   |    | <b>1.00</b> | <b>0.9998</b> | <b>364.3</b>   | <b>364.3</b>   | <b>364.4</b>   | <b>364.4</b>   | <b>364.6</b>   | <b>364.7</b>   |
| 35 |   |    |             |               |                |                |                |                |                |                |
| 36 | COUs not Dedicated to Regional Loads  |    |             |               | 14.8           | 14.8           | 14.8           | 14.8           | 14.8           | 14.8           |
| 37 | and Market Purchaser Allocations - **   |    |             |               | 349.5          | 349.5          | 349.6          | 349.6          | 349.8          | 349.8          |
| 38 | Other Power Allocations   |    |             |               | 364.3          | 364.3          | 364.4          | 364.4          | 364.6          | 364.7          |
| 39 | <b>TOTAL</b>  |    |             | <b>364.5</b>  | <b>364.3</b>   | <b>364.3</b>   | <b>364.4</b>   | <b>364.4</b>   | <b>364.6</b>   | <b>364.7</b>   |
| 40 |   |    |             |               |                |                |                |                |                |                |
| 41 | Non-dedicated COUs and  |    |             |               |                |                |                |                |                |                |
| 42 | Market Purchaser Energy -   |    |             |               |                |                |                |                |                |                |
| 43 | Six Year Average Allocation FY2010-2015   |    |             | <b>14.8</b>   |                |                |                |                |                |                |
| 44 |   |    |             |               |                |                |                |                |                |                |
| 45 | Wanapum Allocation Percentage Shares:   |    |             |               |                |                |                |                |                |                |
| 46 | COUs not Dedicated to Regional Loads and Market Purchaser Allocatio   |    |             |               | 4.07%          | 4.07%          | 4.07%          | 4.07%          | 4.07%          | 4.07%          |
| 47 | Other Power Allocations   |    |             |               | 95.93%         | 95.93%         | 95.93%         | 95.93%         | 95.93%         | 95.93%         |
| 48 | <b>TOTAL</b>  |    |             |               | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> | <b>100.00%</b> |
| 49 |   |    |             |               |                |                |                |                |                |                |
| 50 | Non-dedicated COUs and Market   |    |             |               |                |                |                |                |                |                |
| 51 | Purchaser Energy -  |    |             |               |                |                |                |                |                |                |
| 52 | Six Year Average Allocation   |    |             |               |                |                |                |                |                |                |
| 53 | Percentage FY2010-2015  |    |             | <b>4.07%</b>  |                |                |                |                |                |                |
| 54 |   |    |             |               |                |                |                |                |                |                |
| 55 | Page 1 of 1   |    |             |               |                |                |                |                |                |                |





# 2009 Priest Rapids Project

## FINAL PROFORMA (NOV - DEC)

December 1, 2008



**"UNOFFICIAL" PRIEST RAPIDS POWER COST FORECAST  
(\$000)**

|                       | <u>2009*</u>            | <u>2010</u>             | <u>2011</u>             | <u>2012</u>             |
|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| O & M EXPENSES        | \$ 40,757               | \$ 43,735               | \$ 41,942               | \$ 38,413               |
| DEBT:                 |                         |                         |                         |                         |
| ISSUED DEBT-INTEREST  | 11,836                  | 11,402                  | 10,908                  | 10,377                  |
| ISSUED DEBT-PRINCIPAL | 10,335                  | 10,800                  | 11,290                  | 11,880                  |
| FUTURE LEVELIZED DEBT | -                       | 4,819                   | 4,819                   | 18,900                  |
| 15% OF DS TO SUPP R&R | 3,326                   | 4,053                   | 4,053                   | 6,174                   |
| EXCESS FROM SUPP R&R  | (3,320)                 | (3,326)                 | (4,053)                 | (4,053)                 |
| TOTAL PROPOSED DEBT   | <u>22,177</u>           | <u>27,748</u>           | <u>27,017</u>           | <u>43,278</u>           |
| TOTAL TAXES           | 1,040                   | 1,071                   | 1,103                   | 1,136                   |
| INTEREST INCOME       | 932                     | 1,447                   | 1,241                   | 5,597                   |
| NET POWER COSTS       | <u><u>\$ 63,042</u></u> | <u><u>\$ 71,107</u></u> | <u><u>\$ 68,821</u></u> | <u><u>\$ 77,230</u></u> |

\* - Full Year

**PRIEST RAPIDS  
CONSTRUCTION FUND  
(\$000)**

|                          | <u>2009*</u>            | <u>2010</u>             | <u>2011</u>        | <u>2012</u>             |
|--------------------------|-------------------------|-------------------------|--------------------|-------------------------|
| BEGINNING BALANCE        | \$ 48,085               | \$ 23,827               | \$ 40,006          | \$ -                    |
| RECEIPTS :               |                         |                         |                    |                         |
| FINANCING PROCEEDS       | -                       | <b>58,781</b>           |                    | <b>171,857</b>          |
| INTEREST INCOME          | 719                     | 1,226                   | 800                | 5,114                   |
| TOTAL RECEIPTS           | <u>719</u>              | <u>60,007</u>           | <u>800</u>         | <u>176,971</u>          |
| EXPENDITURES :           |                         |                         |                    |                         |
| GENERATOR RESTORATION    | 1,105                   | 638                     | 1,063              | 29,243                  |
| TURBINES                 | 1,786                   | 4,736                   | 5,713              | 22,141                  |
| POWER HOUSE              | 6,266                   | 3,648                   | 3,369              | 3,472                   |
| FISH & WILDLIFE          | 9,431                   | 18,792                  | 14,251             | 17,148                  |
| BUILDINGS/PROP           | 3,746                   | 12,754                  | 14,328             | 14,573                  |
| OTHER                    | 1,924                   | 2,034                   | 1,282              | 1,447                   |
| TOTAL PER DETAIL         | <u>24,258</u>           | <u>42,602</u>           | <u>40,006</u>      | <u>88,024</u>           |
| TRANSFER INT TO REV FUND | (719)                   | (1,226)                 | (800)              | (5,114)                 |
| <b>ENDING BALANCE</b>    | <b><u>\$ 23,827</u></b> | <b><u>\$ 40,006</u></b> | <b><u>\$ -</u></b> | <b><u>\$ 83,833</u></b> |

\* - Full Year

**"UNOFFICIAL" WANAPUM POWER COST FORECAST  
(\$000)**

|                        | <u>2009*</u>            | <u>2010</u>             | <u>2011</u>             | <u>2012</u>             |
|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| O & M EXPENSES         | \$ 42,763               | \$ 45,545               | \$ 44,292               | \$ 41,453               |
| DEBT:                  |                         |                         |                         |                         |
| ISSUED DEBT-INTEREST   | 20,587                  | 20,046                  | 19,472                  | 18,851                  |
| ISSUED DEBT-PRINCIPAL  | 11,885                  | 12,375                  | 12,930                  | 13,540                  |
| FUTURE LEVELIZED DEBT  | -                       | 12,462                  | 12,462                  | 26,714                  |
| 15% OF DS TO SUPP R&C  | 4,871                   | 6,732                   | 6,730                   | 8,866                   |
| EXCESS FROM SUPP R&C   | (4,860)                 | (4,871)                 | (6,732)                 | (6,729)                 |
| TOTAL PROPOSED DEBT    | <u>32,483</u>           | <u>46,744</u>           | <u>44,862</u>           | <u>61,242</u>           |
| TOTAL TAXES            | 1,019                   | 1,050                   | 1,081                   | 1,113                   |
| INTEREST INCOME        | <u>1,745</u>            | <u>3,130</u>            | <u>2,531</u>            | <u>5,347</u>            |
| <b>NET POWER COSTS</b> | <b><u>\$ 74,520</u></b> | <b><u>\$ 90,209</u></b> | <b><u>\$ 87,704</u></b> | <b><u>\$ 98,461</u></b> |

\* - Full Year

**WANAPUM  
CONSTRUCTION FUND  
(\$000)**

|                          | <u>2009*</u>            | <u>2010</u>              | <u>2011</u>        | <u>2012</u>             |
|--------------------------|-------------------------|--------------------------|--------------------|-------------------------|
| BEGINNING BALANCE        | \$ 85,231               | \$ 34,279                | \$ 104,843         | \$ -                    |
| RECEIPTS :               |                         |                          |                    |                         |
| FINANCING PROCEEDS       | -                       | <b>152,131</b>           | -                  | <b>174,000</b>          |
| INTEREST INCOME          | 1,195                   | 2,913                    | 2,097              | 4,870                   |
| TOTAL RECEIPTS           | <u>1,195</u>            | <u>155,044</u>           | <u>2,097</u>       | <u>178,870</u>          |
| EXPENDITURES :           |                         |                          |                    |                         |
| GENERATOR RESTORATION    | 6,753                   | 30,451                   | 43,992             | 28,516                  |
| TURBINES                 | 22,229                  | 21,212                   | 20,206             | 27,481                  |
| POWERHOUSE/SWITCHYARD    | 12,268                  | 11,546                   | 16,715             | 16,345                  |
| FISH AND WILDLIFE        | 3,366                   | 3,030                    | 8,133              | 15,635                  |
| BUILDINGS/PROPERTIES     | 3,756                   | 12,758                   | 14,307             | 14,618                  |
| OTHER                    | 2,580                   | 2,570                    | 1,490              | 1,917                   |
| TOTAL PER DETAIL         | <u>50,952</u>           | <u>81,567</u>            | <u>104,843</u>     | <u>104,512</u>          |
| TRANSFER FROM R&C FUND   | -                       | -                        | -                  | -                       |
| PAID FROM THE CONST FUND | <u>50,952</u>           | <u>81,567</u>            | <u>104,843</u>     | <u>104,512</u>          |
| TRANSFER INT TO REV FUND | (1,195)                 | (2,913)                  | (2,097)            | (4,870)                 |
| ENDING BALANCE           | <u><b>\$ 34,279</b></u> | <u><b>\$ 104,843</b></u> | <u><b>\$ -</b></u> | <u><b>\$ 69,488</b></u> |

\* - Full Year

**6/16/2008  
CONTRACT  
FOR  
OPEN-MARKET SALE OF PRIEST RAPIDS PROJECT  
POWER**

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**Exhibits**

Exhibit A – Definitions of Priest Rapids Project

Exhibit B – District Recognized Holidays

Exhibit C – BPA's Letter Regarding 5(b)9(c)

**CONTRACT  
FOR  
OPEN-MARKET SALE OF PRIEST RAPIDS PROJECT POWER**

Executed by  
**PUBLIC UTILITY DISTRICT NO. 2  
OF GRANT COUNTY, WASHINGTON**  
And

This contract is entered into as of \_\_\_\_\_, 2008 between Public Utility District No. 2 of Grant County, Washington (the "District"), a municipal corporation of the State of Washington, and \_\_\_\_\_ (the "Purchaser"), a \_\_\_\_\_ corporation organized and existing under the laws of \_\_\_\_\_. The District and the Purchaser are referred to as a "Party" and collectively as "Parties."

**SECTION 1. TERM OF CONTRACT**

Except as otherwise provided herein, this Contract shall be in full force and effect from and after it has been executed by the District and the Purchaser. Unless sooner terminated pursuant to other provisions, this Contract shall remain in effect until the end of HE 2400 (midnight) Pacific Prevailing Time "PPT", December 31, 2009. Except as otherwise provided herein, all obligations accruing under this Contract are preserved until satisfied.

**SECTION 2. DEFINITIONS**

As used in this Contract, the following terms when initially capitalized shall have the following meanings:

"Agreement for the Hourly Coordination of Projects on the Mid-Columbia River" (MCHC) shall mean the 1997 Agreement, as amended from time to time, with the Mid-Columbia PUD project owners, purchasers, the U.S. Department of Energy via the Bonneville Power Administration, the U.S. Department of the Army via the Army Corps of Engineers, and the U.S. Department of Interior via the Bureau of Reclamation to coordinate real time operation of the seven projects from Grand Coulee through Priest Rapids on the Columbia River.

"Bond Resolution" shall mean each and all of the resolutions adopted by the District authorizing the issuance of outstanding Debt for the Priest Rapids Project.

"Business Days" shall mean any weekday, Monday through Friday, excluding District Recognized Holidays as designated on Exhibit B of this Contract.

"Contract" shall mean this **CONTRACT FOR OPEN-MARKET SALE OF PRIEST RAPIDS PROJECT POWER**, in its' entirety.



“Defaulting Party” shall mean the Party who is responsible for an “Event of Default” as defined in Section 15.

“Electric System” shall mean the separate electric utility system of the District, including all associated generation, transmission and distribution facilities and any betterments, renewals, replacements and additions of such system, but does not include the Priest Rapids Project or any other utility properties designated as a separate utility system of the District.

“FERC” shall mean the Federal Energy Regulatory Commission or its successor.

“FERC License” shall mean the license for the Priest Rapids Project PL 2114 issued by FERC on April 17, 2008, effective April 1, 2008.

“Guarantor” means the entity providing a guarantee pursuant to a Guarantee Agreement.

“HE” shall mean hour ending.

“Operating Agreements” shall mean any agreements to which the District is or may become a party, which provide for operation of the Priest Rapids Project, including but not limited to, the Pacific Northwest Coordination Agreement, the Agreement for the Hourly Coordination of Projects on the Mid-Columbia River, the Western Systems Coordinating Council Agreement, and the Northwest Power Pool Agreement, as such agreements currently exist or hereafter may be amended.

“Original FERC License” shall mean the Federal Power Commission License for the Priest Rapids Project issued to the District on November 4, 1955, together with amendments thereto.

“Pacific Northwest” shall have the meaning ascribed thereto in Section 3(14) of the Regional Act.

“Pacific Northwest Coordination Agreement” or “PNCA” shall mean the Agreement amongst northwest parties executed in 1997 for the coordinated operation of the Columbia River System which became effective August 1, 2003, as such Agreement may be amended from time to time.

“Pre-Schedule Day” shall mean days identified by the District pursuant to the Western Electricity Coordinating Council Interchange Scheduling and Accounting Subcommittee daily scheduling calendar.

“Priest Rapids Development” shall mean the separate utility system of the District, including a dam at the Priest Rapids Development, all generation and transmission facilities associated therewith, and all betterments, renewals, replacements, and additions to such system, as further described in Section 2(f) of Exhibit 1 of District Resolution No. 390 which is attached as Exhibit A, but shall not include any additional generation, transmission and distribution facilities hereafter constructed or acquired by the District as a part of the Electric System or the Wanapum Development or any other utility properties of the District acquired or constructed as a separate utility system.

“Priest Rapids Project Output” or “PRPO” shall mean: i.) the amount of capacity, energy (both firm and non-firm), pondage, reactive power, ancillary services and any other product produced by the Priest Rapids Development between the start of HE 0100 P.P.T. January 1, 2009 and the end of HE 2400 (midnight) P.P.T. December 31, 2009, after correction for encroachment, Canadian entitlement, station and project use, and depletions required by the FERC License or other regulatory requirements, together with ii.) the amount of capacity, energy (both firm and non-firm), pondage, reactive power, ancillary services and any other product produced by the Wanapum Development between the start of HE 0100 P.P.T November 1, 2009 and the end of HE 2400 (midnight) P.P.T. December 31, 2009, after correction for encroachment, Canadian entitlement, station and project use, and depletions required by the FERC License or other regulatory requirements

“Priest Rapids Project” shall mean the hydroelectric project on the Columbia River in the State of Washington designated by the Federal Power Commission as Project No. 2114. The Priest Rapids Project consists of the Priest Rapids Development and the Wanapum Development.

“Prudent Utility Practice” means those practices, methods and acts which: (i) when engaged in are commonly used in prudent engineering and operations to operate electric equipment and associated mechanical and civil facilities lawfully and with safety, reliability, efficiency and expedition or (ii) in the exercise of reasonable judgment considering the facts known when engaged in, could have been reasonably expected to achieve the desired result consistent with applicable law, safety, reliability, efficiency and expedition. Prudent Utility Practice is not intended to be the optimum practice, method or act, to the exclusion of all others, but rather to be a spectrum of commonly used practices, methods or acts.

“Regional Act” shall mean Public Law 96-501, the Pacific Northwest Electric Power Planning and Conservation Act.

“Uncontrollable Forces” shall mean any cause reasonably beyond the control of the Party and which the Party subject thereto has made reasonable efforts to avoid, remove or mitigate, including but not limited to acts of God, fire, flood, explosion, strike, sabotage, acts of terrorism, act of the public enemy, civil or military authority, including court orders, injunctions, and orders of government agencies (other than those of the District) with proper jurisdiction, insurrection or riot, an act of the elements, failure of equipment or contractors, or inability to obtain or ship materials or equipment because of the affect of similar causes on suppliers or carriers; provided, however, that in no event shall an Uncontrollable Force excuse the Purchaser from the obligation to pay any amount when due and owing under this contract.

"Wanapum Development" shall mean the second stage of the Priest Rapids Project as more fully described in Section 2.2 of District Resolution No. 474, which is attached as Exhibit A, but shall not include any generation, transmission and distribution facilities hereafter constructed or acquired by the District as a part of the Electric System or the Priest Rapids Development, or any other utility properties of the District acquired or constructed as a separate utility system.

The following terms are defined in the cited sections of this Contract:

“Event of Default” at Section 15(a)

“Party” and “Parties” at the Preamble  
“Purchaser Allocation of Pondage” at Section 6(d)(4)  
“Purchaser’s PRPO” at Section 3(a)

### **SECTION 3. PURCHASE AND SALE OF PRIEST RAPIDS PROJECT OUTPUT/REGULATORY APPROVAL**

- (a) Purchaser’s PRPO. The District shall make available to the Purchaser and the Purchaser shall purchase an amount of PRPO equal to the total applicable PRPO multiplied by the corresponding Purchaser’s PRPO Percentage which amount is herein referred to as “Purchaser’s PRPO.”
- (b) The Purchaser’s PRPO Percentage shall be \_\_\_\_\_ % of Priest Rapids Development power for the period starting at (midnight) HE 2400, December 31, 2008 and ending at HE 2400, October 31, 2009 AND \_\_\_\_\_ % of Priest Rapids Project power for the period starting at HE 2400, October 31, 2009 and ending at (midnight) HE 2400, December 31, 2009.

### **SECTION 4. PRPO AVAILABILITY**

- (a) Purchaser understands and acknowledges that PRPO availability will fluctuate and is subject to and contingent upon many factors including, but not limited to, the following: weather and precipitation levels, regulatory and environmental considerations and requirements, Operating Agreements and Uncontrollable Forces.
- (b) The District may restrict deliveries of PRPO if it determines that such action is necessary to avoid exceeding the capability of the Priest Rapids Project or subjecting it or its operation to undue hazard or violating the FERC License, any applicable law, regulation, or Operating Agreement. Any such restrictions in delivery by the District shall be made pro-rata with all purchasers of PRPO and with the District’s share of PRPO.
- (c) The District may also restrict deliveries of PRPO in case of emergencies or in order to install equipment in, make repairs to, make betterments, renewals, replacements, and additions to, investigations and inspections of, or perform other maintenance work on the Priest Rapids Project. Any such restrictions in delivery shall be made pro-rata with all purchasers of PRPO and with the District’s share of PRPO.
- (d) The District will use commercially reasonable efforts to give advance notice to the Purchaser regarding any planned limit, restriction, interruption or reduction of PRPO, giving the reason therefore and stating the probable duration thereof, and shall provide timely updates concerning the same should conditions change.
- (e) Notwithstanding any other provision of this Contract, the District shall at times have the right to operate the Priest Rapids Project in such manner as it deems to be in its best interests so long as the same is consistent with the FERC License, applicable laws and regulations, Prudent Utility Practice and this Contract.

- (f) Notwithstanding any other provision of this Contract, the District shall have the unilateral right to restrict deliveries of PRPO as may be necessary to fulfill any non-power regulatory or other legal requirements and shall have the unilateral right to determine the amounts of spill required at the Priest Rapids Project. Any such restrictions in delivery shall be made pro-rata with all purchasers of PRPO and with the District's share of PRPO.

## **SECTION 5. PURCHASE PRICE AND PAYMENTS BY PURCHASER**

- (a) The purchase price for the Purchaser's PRPO shall be the total dollar amount submitted by Purchaser on its bid form. Purchaser shall make 12 equal monthly payments of 1/12<sup>th</sup> of the purchase price with the first such payment due January 10, 2009.
- (b) The monthly payments set forth above shall be due and payable by electronic funds transfer to the District's account, designated in writing by the District, on the 10<sup>th</sup> (tenth) calendar day of each month. If the 10<sup>th</sup> calendar day of the month is a Saturday, Sunday or a District Recognized Holiday as listed in Exhibit B, the next following Business Day
- (c) If payment in full of any monthly payment amount set forth on a statement or revised statement is not received by the District on or before the close of business on the 10th calendar day of the month, a delayed payment charge of 2% of the unpaid amount due will be made. Any bill which remains unpaid for more than 30 calendar days after the due date shall, in addition to the delayed payment charge, accrue interest at the lesser of 1.5% per month or the maximum rate allowed by law. If the 10<sup>th</sup> calendar day of the month is a Saturday, Sunday or a District Recognized Holiday as listed in Exhibit B, the next following Business Day shall be the last day on which payment may be received without the addition of the delayed-payment charge. Additionally, if payment due to the District under this Section 5 remains unpaid 3 Business Days after the due date, the District may thereafter suspend delivery of the Purchaser's PRPO until payment in full of all amounts due and owing (including any interest and delay charges) is received by the District.
- (d) The payments required under this Section 5 shall be due and owing notwithstanding the fact that the actual amount of power from the PRPO Percentage made available to the Purchaser is less or more than that which was anticipated by either Party at the time of execution of this Contract. The District makes no warranties of any type as to the PRPO that will actually be produced and available, other than, that the percentage of PRPO made available to the Purchaser will at all times be in accordance with Section 3(c), and Purchaser assumes all risks associated therewith.
- (e) The purchase price submitted by the Purchaser on its bid form is the total price for the Purchaser's PRPO and all rights associated with it. Except as otherwise provided in Sections 6(c) and 18 (c), the Purchaser shall not be obligated to pay any other amounts charged to or payable by the Purchaser as a result of this Contract, including any water fees, license fees, penalties, taxes, operating, administration, maintenance or capital costs, damages or any other costs whatsoever, relating to ownership or operation of the Priest Rapids Project.

**SECTION 6. SCHEDULING OF DELIVERIES OF PRIEST RAPIDS PROJECT OUTPUT**

- (a) This Section 6 shall apply to the scheduling of the Purchaser's PRPO.
- (b) Scheduling of Purchaser's PRPO shall be as requested by the Purchaser, or its designated scheduling agent, and shall be subject to the limitations set forth in this Contract.
- (c) The Purchaser, or its designated scheduling agent, shall provide the District each Pre-Schedule Day, in conformance with then prevailing scheduling procedures for scheduling Pacific Northwest generating resources, hourly schedules of desired Purchaser's PRPO deliveries for the following day or days. The schedules will be completed in a time frame consistent with standard industry practices in the Pacific Northwest. Such schedule shall be based upon the probable water supply to the Priest Rapids Project (inflows) and the resulting probable output. Schedules shall be in compliance with all applicable reliability and reserves criteria as put forth by the North American Electric Reliability Council, Western Electricity Coordinating Council, and the Northwest Power Pool; as such criteria are revised from time to time. If failure to comply with reliability or reserve criteria results in costs or fees incurred by the District, Purchaser shall reimburse District for all such costs or fees. Revisions in a schedule may be made at any time upon the request of the Purchaser in accordance with Section 6(d)(9). The District will use reasonable efforts to minimize deviations from the schedule and make corrections promptly as practicable on an hourly basis under conditions as nearly equivalent as practicable to those occurring when the deviations occurred. Alternatively, the Purchaser may provide scheduling information via a dynamic electronic signal. If the Purchaser chooses this option, it shall be solely responsible for providing any and all necessary hardware or software modifications necessary for the District to incorporate this signal.
- (d) Purchaser's schedules shall be in accordance with the following:
  - (1) Subject to the provisions of this Contract, the District shall make available to Purchaser, each hour, Purchaser's PRPO.
  - (2) The District shall make all determinations concerning the Priest Rapids Project maximum output and minimum discharge; and the District shall have the unilateral right to determine the maximum allowable amount of change in PRPO during any time period and the maximum number of unit starts and stops allowable during any time period. Purchaser's daily and hourly schedules shall be based on Purchaser's PRPO in accordance with the Priest Rapids Project operational parameters as established by the District from time to time.
  - (3) Purchaser's schedule shall not be less than Purchaser's PRPO Percentage of the minimum operating capability of the Priest Rapids Project, as determined by the District, nor shall it be greater than Purchaser's PRPO Percentage of the maximum operating capability of the Priest Rapids Project as determined by the District.

- (4) Purchaser shall be entitled to utilize a share of the pondage available at the Priest Rapids Project (the "Purchaser Allocation of Pondage"), determined by multiplying the total of the pondage available by the applicable Purchaser's PRPO Percentage. The pondage available at the Priest Rapids Project shall be determined by the District from time to time on the basis of the volume of water that can be stored between the then current maximum forebay elevation and the then current minimum forebay elevation.
- (5) The District will establish and maintain for Purchaser a pondage account that will reflect the use of pondage by the Purchaser. On the last hour of the term of this Contract, the Purchaser shall return the pond account balance to at least where it was on the first hour of the term of this Contract. The Purchaser may schedule more than its share of the Priest Rapids Project inflows determined in accordance with Section 6(c) if the Purchaser has sufficient amount of energy in its pond account. The amount of the energy scheduled from the pondage account shall not exceed the Purchaser Allocation of Pondage determined in accordance with Section 6(d)(4).
- (6) During any hour that spill is occurring at non-federal Mid-C Projects in order to control forebay elevation, the spill is allocated in the following manner: i) if spill is due to unloaded turbines at the spilling project, that spill will be allocated to any Mid-C participant whose generation was less than their capacity during the spill hour, ii) Spill past loaded units are allocated to each Mid-C party who has a share in the spilling project.
- (7) During any hour that spill is occurring at the Priest Rapids Project for fish or any other non-power purpose determined necessary or desirable by the District, the spill shall be allocated to reduce the inflow of Purchaser and other PRPO purchasers in proportion to their percentage shares of PRPO, including the District.
- (8) If the Purchaser chooses not to provide scheduling information via a dynamic electronic signal, the District will provide the following maximum number of schedules or paths available to schedule Purchaser's PRPO on an hourly basis according to the following formula: the amount of daily capacity available to the Purchaser, divided by 15 (rounded up), plus 1.
- (9) In the absence of dynamic scheduling pursuant to Section 6 (c) real-time schedules shall be called in at least 30 minutes prior to the start of each hour.

## **SECTION 7. POINT OF DELIVERY**

- (a) PRPO power supplied hereunder shall be approximately 230 kV, three-phase, alternating current, at approximately 60 hertz.
- (b) The PRPO power to be delivered hereunder shall be made available to the Purchaser, at its option, exercisable from time to time, at any one or more of the following points:
  - (1) The 230 kV bus of the Bonneville Power Administration's Midway Substation;

- (2) The 230 kV bus of the switchyard of the Wanapum Development;
- (3) The 230 kV bus of the Vantage Substation; or
- (4) At any other location mutually agreed to by the District and Purchaser.

#### **SECTION 8. METERING AND TRANSMISSION LOSSES**

- (a) The District shall provide and maintain suitable meters in the generator leads of the Priest Rapids Project to indicate and record the PRPO. The actual PRPO shall be determined from totaled readings from the meters. The District or an agent of the District shall read meters and records thereof shall be made available to the Purchaser as may be reasonably requested.
- (b) Purchaser shall be required to schedule an amount of energy equal to the actual losses resulting from transformation and transmission to the District.

#### **SECTION 9. INFORMATION TO BE MADE AVAILABLE TO THE PURCHASER**

- (a) The Purchaser, upon at least 30 days advance written notice to the District, shall have the right at its sole cost and expense to audit or examine operating records relating to the Priest Rapids Project during the District's normal business hours. All costs incurred by the District associated with such audit, including, but not limited to, District labor, materials and reproduction services shall be promptly reimbursed to the District by the Purchaser.
- (b) The Purchaser's representatives shall at all times be given reasonable access to the Priest Rapids Project, subject to the District's applicable safety rules and regulations.
- (c) The District shall exercise commercially reasonable efforts to provide to the Purchaser estimates and information reasonably necessary for the Purchaser to exercise its rights under this Contract.

#### **SECTION 10. LIABILITY OF PARTIES**

- (a) Except as otherwise provided in this Contract, each Party hereby releases the other Party and its commissioners, officers, directors, agents and employees from any claim for loss or damage arising out of the ownership, operation, and maintenance of the Priest Rapids Project including any loss of profits or revenues, loss of use of power system, cost of capital, cost of purchased or replacement power, other substantially similar liability or other direct or indirect consequential loss or damage.
- (b) The Purchaser shall have no claim of any type or right of action against the District: (i) as a result of a FERC or court order or amendment; (ii) as a result of adjustment of PRPO, and the Purchaser hereby releases the District and its commissioners, officers, agents and employees from any claim for loss or damage arising out of the events described in this paragraph.

- (c) The Purchaser is purchasing output from or attributable to the Priest Rapids Project as available and scheduled by the Purchaser. The Purchaser acquires no interest in or rights to any facilities forming part of the Priest Rapids Project.

## **SECTION 11. NOTICES AND COMPUTATION OF TIME**

- (a) Any notice, demand or request provided for in this Contract shall be, unless otherwise specified herein, in writing and may be delivered by hand delivery, United States mail, overnight courier or facsimile. Notice by courier, facsimile or hand delivery shall be effective at the close of business on the day actually received, if received during business hours on a regular Business Day of the District, and otherwise shall be effective on the close of business on the next regular Business Day of the District. All notices by United States mail shall be sent certified, return receipt requested and shall be effective on the date of actual receipt by the recipient.

All notice, demand or request made by mail shall be mailed postage prepaid and addressed to:

Manager  
Public Utility District No. 2 of Grant County  
P.O. Box 878  
30 C St S.W.  
Ephrata, Washington 98823;

any notice or demand by the District to the Purchaser under this Contract shall be deemed properly given if a written copy is delivered to the Purchaser's representative specified herein by courier and the Purchaser's signature evidencing receipt thereof is obtained or if mailed postage prepaid and addressed to:

- (b) In computing any period of time from such notice, such period shall commence at HE 2400 (midnight) PPT on the date mailed. The designations of the name and address to which any such notice or demand is directed may be changed at any time by either Party giving notice as provided above.

## **SECTION 12. DISTRICT'S BOND RESOLUTIONS AND LICENSE**

It is recognized by the Parties that the District, in its operation of the Priest Rapids Project, must comply with the requirements of the Bond Resolution and with the FERC License together with amendments thereof from time to time made, and the District is hereby authorized to take such actions as the District determines are necessary and appropriate to comply with such Bond Resolutions and FERC License.



**SECTION 13. GOVERNING LAW.**

The Parties agree that the laws of the State of Washington shall govern this Contract.

**SECTION 14. ASSIGNMENT OF CONTRACT**

Neither the Purchaser nor the District shall by contract, operation of law or otherwise, assign this Contract or any right or interest in this Contract without the prior written consent of the other Party, which shall not be unreasonably withheld; provided, however, a Party may, without the consent of the other Party (and without relieving itself from liability hereunder) (i) transfer or assign this Contract to an affiliate of the Party provided that the affiliate's creditworthiness is equal or higher than that of the Party or (ii) transfer or assign this Contract to any person or entity succeeding to all or substantially all of the distribution and generating facilities of the Party whose creditworthiness is equal or higher than that of the Party; provided however, that in each such case, any such assignee shall agree in writing to be bound by the terms and conditions in this Contract and the transferring Party shall deliver such tax and enforceability assurance as the other Party may reasonably request.

**SECTION 15. REMEDIES ON DEFAULT**

(a) An "Event of Default" shall mean with respect to a Party ("Defaulting Party"):

(1) the failure by the Defaulting Party to make, when due, any payment required pursuant to this Contract if such failure is not remedied within three (3) Business Days after written notice of such failure is given to the Defaulting Party by the other Party ("the Non-Defaulting Party"). The Non-Defaulting Party shall provide the notice by facsimile to the designated contact person for the Defaulting Party and also shall send the notice by overnight delivery to such contact person; or

(2) the failure by the District to deliver PRPO to the Purchaser as required by this Contract and such failure is not cured within three (3) Business Days after written notice thereof from the Purchaser to the District; or

(3) the failure by the Defaulting Party to have made accurate representations and warranties as required this Contract and such failure is not cured within three (3) Business Days after written notice thereof to the Defaulting Party; or

(4) the institution, with respect to the Defaulting Party, by the Defaulting Party or by another person or entity of a bankruptcy, reorganization, moratorium, liquidation or similar insolvency proceeding or other relief under any bankruptcy or insolvency law affecting creditor's rights or a petition is presented or instituted for its winding-up or liquidation; or

(5) the failure by the Defaulting Party to provide adequate assurances of its ability to perform all of its outstanding material obligations to the Non-Defaulting Party under this Contract.

(6) With respect to its Guarantor, if any:

- (i) if a material representation or warranty made by a Guarantor in connection with this Contract, or any transaction entered into hereunder, is false or misleading in any material respect when made or when deemed made or repeated; or
  - (ii) the failure of a Guarantor to make any payment required or to perform any other material covenant or obligation in any guarantee made in connection with this Contract, including any transaction entered into hereunder, and such failure shall not be remedied within three (3) Business Days after written notice; or
  - (iii) the institution, with respect to the Guarantor, by the Guarantor or by another person or entity of a bankruptcy, reorganization, moratorium, liquidation or similar insolvency proceeding or other relief under any bankruptcy or insolvency law affecting creditor's rights or a petition is presented or instituted for its winding-up or liquidation; or
  - (iv) the failure, without written consent of the other Party, of a Guarantor's guarantee to be in full force and effect for purposes of this Contract (other than in accordance with its terms) prior to the satisfaction of all obligations of such Party under each transaction to which such guarantee shall relate; or
  - (v) a Guarantor shall repudiate, disaffirm, disclaim, or reject, in whole or in part, or challenge the validity of, any guarantee.
- (b) If an Event of Default occurs, the Non-Defaulting Party shall possess the right to terminate the Contract or seek specific performance. In the event the Non-Defaulting Party elects to terminate the Contract, it may pursue any legal or equitable remedies available at law or otherwise.

## **SECTION 16. CREDITWORTHINESS**

Should the Purchaser's creditworthiness, financial responsibility, or performance viability be unsatisfactory to the District in the District's reasonably exercised discretion with regard to this Contract, the District may require the Purchaser to provide, at the Purchaser's option (but subject to the District's acceptance based upon reasonably exercised discretion), either (1) the posting of a letter of credit, (2) a cash prepayment, (3) the posting of other acceptable collateral or security by the Purchaser, (4) a guaranty agreement executed by a creditworthy entity; or (5) some other mutually agreeable method of satisfying the District.

All collateral posted in the form of cash or cash prepayment will be held in an interest bearing escrow account. In the event the collateral is no longer required to satisfy Purchaser's obligations, it will be returned to the Purchaser, with interest earned, on a tiered basis near the end of the term of this Contract. For each fiscal year beginning April 1 and ending March 31, deposits will earn interest calculated at the rate for the one-year Treasury Constant Maturity calculated by the U.S. Treasury, as published in the Federal Reserves Statistical Release H.15 on March 15 of each year. If March 15 falls on a non-Business Day, the District will use the rate

posted on the next Business Day. The one-year Treasury Constant Maturity rate on March 15 of each year will be applied to the next fiscal year beginning April 1 and ending March 31.

Events which may trigger the District requesting assurance due to reasonable concern about the Purchaser's creditworthiness, financial responsibility, or performance viability include, but are not limited to, the following:

- (a) The Purchaser or its Guarantor has debt which is rated as investment grade and that debt falls below the investment grade rating by at least one rating agency or is below investment grade and the rating of that debt is downgraded further by at least one rating agency.
- (b) Other material adverse changes in the Purchaser's financial condition occur.
- (c) Substantial changes in market prices which materially and adversely impact the Purchaser's ability to perform under this Contract occur.

If the Purchaser fails to provide such reasonably satisfactory assurances of its ability to perform an obligation hereunder within three (3) Business Days of demand therefore, that will be considered an Event of Default under Section 15 of this Contract and the District shall have the right to exercise any of the remedies provided for under that Section 15. Nothing contained in this Section 16 shall affect any credit agreement or arrangement, if any, between the Parties.

#### **SECTION 17. VENUE AND ATTORNEY FEES**

Venue of any action filed to enforce or interpret the provisions of this Contract shall be exclusively in the United States District Court for the Eastern District of Washington or the Superior Court of the State of Washington for Grant County and the Parties irrevocably submit to the jurisdiction of any such court. In the event of litigation to enforce the provisions of this Contract, the prevailing Party shall be entitled to reasonable attorney's fees in addition to any other relief allowed.

#### **SECTION 18. COMPLIANCE WITH LAW**

- (a) The Parties understand and acknowledge that operation of the Priest Rapids Project must conform to and comply with all applicable laws, rules, regulations, license conditions or restrictions promulgated by the FERC, the State of Washington or any other governmental agency or entity having jurisdiction over the Priest Rapids Project. The Purchaser shall cooperate and take whatever action is necessary to cooperate fully with the District in meeting such requirements. Obligations of the District contained in this Contract are hereby expressly made subordinate and subject to such compliance.
- (b) RCW 54.16.040 contains provisions relating to the District's sale of electric energy. The Parties understand and acknowledge that the District must comply with RCW 54.16.040 to the extent applicable to this Contract and the District's obligations and performance of this Contract are hereby expressly made subordinate and subject to such compliance.

- (c) The Purchaser shall ensure that PRPO available to Purchaser under this Contract is not sold, resold, distributed for use or used outside the Pacific Northwest in violation of the Bonneville Project Act, Public Law 75-329, the Pacific Northwest Consumer Power Preference Act, Public Law 88-552, the Regional Act or in contravention of any applicable state or federal law, order, regulation, or policy. If such sales occur in violation of the foregoing, the Purchaser shall reimburse the District for any penalties imposed on and costs incurred by the District as a consequence of such violation. Attached hereto as Exhibit C is a letter from the Bonneville Power Administration regarding this subject.

## **SECTION 19. HEADINGS**

The headings of sections and paragraphs of this Contract are for convenience of reference only and are not intended to restrict, affect or be of any weight in the interpretation or construction of the provisions of such sections and paragraphs.

## **SECTION 20. ENTIRE AGREEMENT; MODIFICATION; CONFLICT IN PRECEDENCE**

This Contract constitutes the entire agreement between the Parties with respect to the subject matter of this Contract, and supersedes all previous communications between the Parties, either verbal or written, with respect to such subject matter. No modifications of this Contract shall be binding upon the Parties unless such modifications are in writing signed by each Party.

## **SECTION 21. NO PARTNERSHIP OR THIRD PARTY RIGHTS**

- (a) This Contract shall not be interpreted or construed to create an association, joint venture or partnership between the Parties, or to impose any partnership obligations or liability upon any Party.
- (b) This Contract shall not be construed to create rights in or grant remedies to any third party as a beneficiary of this Contract.

## **SECTION 22. REPRESENTATIONS AND WARRANTIES**

Each Party represents and warrants to the other Party that:

- (a) It is duly organized, validly existing and in good standing under the laws of the jurisdiction of its formation.
- (b) The execution, delivery and performance of this Contract are within its powers, have been duly authorized by all necessary action and do not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any law, rule, regulation, or order applicable to it.
- (c) This Contract constitutes a legally valid and binding obligation enforceable against it in accordance with its terms, subject to equitable defenses and applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally.

**SECTION 23. OPTIONAL AGREEMENT AVAILABLE TO PURCHASER**

- (a) The Purchaser shall have the option of becoming a joinder to the “1997 Agreement for the Hourly Coordination of Projects on the Mid-Columbia River”, pursuant to Section 9(a) of that Agreement.

PUBLIC UTILITY DISTRICT NO. 2  
OF GRANT COUNTY, WASHINGTON

By: \_\_\_\_\_

(SEAL)

President

ATTEST:

Secretary

By: \_\_\_\_\_  
Title:

(SEAL)

ATTEST:

Secretary

**EXHIBIT A**

**DEFINITION OF PRIEST RAPIDS PROJECT**

**RESOLUTION NO. 390 – DEFINITION OF PRIEST RAPIDS DEVELOPMENT**

Section 2(f) of Exhibit 1. “Priest Rapids Development” shall mean those properties and facilities consisting of the Priest Rapids dam, site, reservoir, switchyard and power plant, including all generating facilities associated therewith up to and including the first ten (10) main turbine generator units each with a nameplate rating of approximately 78,850 kilowatts and any additional generating facilities which may be installed as provided for in Section 19 of the Original Power Sales Contract, together with the associated transmission facilities consisting of two 230 KV transmission lines and terminal facilities interconnecting the Priest Rapids switchyard and the Bonneville Power Administration’s Midway Substation and an undivided one-half (1/2) interest in the interconnecting facilities between the Priest Rapids switchyard and the Wanapum switchyard.

**RESOLUTION NO. 474 - DEFINITION OF WANAPUM DEVELOPMENT**

Section 2.2. The District specifies and adopts the plan and system hereinafter set forth for the acquisition, by purchase or condemnation, and construction of the following generation and transmission facilities as a separate utility system of the District constituting the Wanapum Development of the District, to wit:

A. The District shall construct an electric generating plant and associated facilities on the Columbia River at approximately river mile 415 from the mouth of said river at the Wanapum site on said river, in Grant and Kittitas Counties, Washington, as authorized by the Federal Power Commission License for Project No. 2114, originally issued November 4, 1955, and all amendments thereto; said generating plant to have an installed nameplate rating of approximately 831,250 kilowatts, and said generating plant and associated facilities to include, but not limited to, a concrete gravity dam, a fully enclosed reinforced concrete powerhouse containing ten (10) turbo-generating units with provisions in the intake structure for the installation of six (6) additional turbo-generating units, a reservoir, waterways, fish ladders and other fish protective devices; provisions for future installation of navigation locks; transforming facilities; a switchyard; transmission facilities necessary to connect the powerhouse to the existing transmission facilities of the Priest Rapids Development and to the transmission facilities of the Bonneville Power Administration in the vicinity of said Project; railroad siding, shops, warehouses,

**EXHIBIT B**

**DISTRICT RECOGNIZED HOLIDAYS**

| <b>HOLIDAY</b>   | <b>ACTUAL DATE</b>   | <b>DATE OBSERVED</b>                                       |
|------------------|--|--|
| New Year's Day   | Thursday, January 1, 2009                                  | Thursday, January 1, 2009                                  |
| President's Day  | Monday, February 16, 2009<br>(3rd Monday in February)      | Monday, February 16, 2009<br>(3rd Monday in February)      |
| Memorial Day     | Monday, May 25, 2009 (Last<br>Monday in May)               | Monday, May 25, 2009 (Last<br>Monday in May)               |
| Independence Day | Saturday, July 4, 2009                                     | Friday, July 3, 2009                                       |
| Labor Day        | Monday, September 7, 2009<br>(1st Monday in September)     | Monday, September 7, 2009<br>(1st Monday in September)     |
| Veterans Day     | Wednesday, November 11,<br>2009                            | Wednesday, November 11,<br>2009                            |
| Thanksgiving Day | Thursday, November 26,<br>2009 (4th Thurs. in<br>November) | Thursday, November 26,<br>2009 (4th Thurs. in<br>November) |
| Christmas Day    | Friday, December 25, 2009                                  | Friday, December 25, 2009                                  |

EXHIBIT C  
BPA's LETTER REGARDING 5(B)9(C)  
**Department of Energy**



Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

POWER BUSINESS LINE

August 9, 2006

In reply refer to: PS-6

Mr. Tim Culbertson, General Manager  
Public Utility District No. 2 of Grant County  
P.O. Box 878  
Ephrata, WA 98823

Dear Mr. Culbertson:

The Bonneville Power Administration (BPA) and Grant County Public Utility District No. 1 (Grant) met on July 26, 2006 to discuss Grant's pending Priest Rapids Development Project market based auction. Grant is preparing for its 2006 Power Auction of the Priest Rapids Project output as a pricing mechanism for the 30 percent Reasonable Portion product sold to Pub. L. 544 parties. The open market auction process is a fairly new mechanism for a utility to make power sales in the region and is Grant's choice for implementing the Federal Energy Regulatory Commission (FERC) order regarding the reasonable portion requirement of Pub. L. 544 in *Kootenai Electric Coop. Inc. et al v. Public Utility District No. 2*, 82 FERC ¶ 61,112, affirmed in *Kootenai Electric Cooperative Inc. v. Federal Energy Regulatory Commission*, 192 F.3d 144 (D.C. Cir. 1999). Grant conducted a prior auction which resulted in a sale of Project power to Constellation Energy, Inc. As we discussed at our July 26th meeting, we both would like to ensure compliance of Grant's auction sales with the application of BPA statutes and policy regarding the sale of customer-owned hydroelectric resources under Section 3(d) of Pub. L. 88-552, the Pacific Northwest Consumer Power Preference Act, and section 9(c) of Pub. L. 96-501, the Pacific Northwest Electric Power Planning and Conservation Act. Therefore, BPA wishes to address its understanding reached after our discussion on July 26th as to treatment of these sales and Grant's 2005 auction sale to Constellation.

BPA's Policy on Determining Net Requirements of the Pacific Northwest Utility Customers under Sections 5(b)(1) and 9(c) of the Northwest Power Act (May 2000) addresses the extra-regional sale of regional resources, including output from hydroelectric resources such as the Priest Rapids Project. It is understood by BPA that, based on the above mentioned FERC order, Grant has no right to the power from the Project that is represented by the 30 percent Reasonable Portion and is required to offer this power to participating parties. We also understand that the power offered is part of the Reasonable Portion and is used to set a price for the entire Reasonable Portion sale. As seller, and in order to comply with both the FERC order and BPA's policy and statutes, you have included in your contracts for the sale of this power a provision which states: "The purchaser shall ensure that Priest Rapids Development Output available to Purchaser under this contract is not sold, resold, distributed for use or used outside the Pacific Northwest in violation of the Bonneville Project Act, Public Law 75-329, the Pacific Northwest



Consumer Power Preference Act, Public Law 88-552, the Regional Act or in contravention of any applicable state or Federal law, order regulation or policy.” While that provision is a good first step, it does not address the practical consideration of reporting resale information by the purchaser and does not in all instances identify what actions BPA may be required to take under its statutes.

To clarify our mutual responsibilities regarding Grant’s auction sales we discussed and agreed upon the following compliance protocol:

1. Grant will continue to include in its open market auction contracts a provision that requires compliance by the purchaser with BPA’s policy and statutes governing the sale of non-Federal power, substantially in the form noted above. In the event of resale in violation of that provision, BPA would have recourse against Grant by reduction of BPA’s firm power sale (decrement) consistent with BPA’s statutes and policy.
2. As the seller, Grant remains responsible for the in-region use of the power when the sale at auction is made to a purchaser that is an entity that does not have a Northwest Power Act section 5(b) contract with BPA, or that does not directly serve retail consumer load in the Region. Grant is responsible for demonstrating the purchaser resold the power to a Northwest load serving investor-owned utility, public or cooperative utility, or direct service industry (DSI) customer with a section 5(b) or 5(d) contract that has a planned load in excess of its planned generation. Customers holding a 5(b) or 5(d) contract, other than those that receive all of their firm power supply from BPA, are assumed to have a planned load in excess of their planned generation.
3. As long as the purchaser’s monthly sales of power to the BPA customers identified in 2 above meets or exceeds the amount of firm power bought at auction and delivered for the month, then BPA will consider the resale as used in the Region. Grant will monitor such sales by the purchaser by keeping monthly records of tags, commercial arrangement documents, or FERC website hourly data files, whichever is appropriate. If requested by BPA, Grant will provide this information to BPA 15 days after the end of a month. In the event that such resale by the purchaser does not equal the amount of power purchased at auction in the month, BPA may impose a decrement on its firm power sales in subsequent months to Grant equal to the difference. Grant may have a contractual recourse against the purchaser.
4. If the sale at auction is to the BPA customers identified in 2 above, then BPA will consider the power sold at auction used for load in the Region.

#### **Constellation Sale**

BPA’s statutes and 9(c) policy require BPA to make certain determinations regarding the effect of potential sales of power outside the region of non-Federal power resources, or exports upon its firm power requirements obligations to provide service to its customers. BPA is only allowed to

replace such power exported with Federal power that is otherwise surplus to BPA's firm power obligations. These determinations are factually based and can result in BPA reducing or decrementing its firm power obligations to the seller. In response to BPA's April 27, 2006, letter to Grant, Grant has supplied BPA data files that show certain sales made at the Mid-Columbia Hub by Constellation, the 2005 purchaser of power auctioned by Grant as the 6 percent Priest Rapids Project output. These files demonstrate Constellation has sold the 2005 auction power to several Northwest load serving utilities, or cooperatives that have 5(b) or 5(d) contracts. Further, for the period of this 2005 auction, BPA's regional planning document, the Whitebook, as updated, showed both BPA and the region in a surplus power condition having firm resources that exceed firm loads for that planning year (2005). Therefore, BPA finds that Grant's sale to Constellation and Constellation's resale of power from the 2005 auction complies with BPA's 9(c) policy. BPA finds no need to decrement or reduce Grant's block purchase from BPA and Grant will not be decremented.

Thank you for taking the time to meet with us and establishing the compliance protocol we have both agreed to, as described above. I wish you success on your upcoming auction and appreciate your patience in resolving this issue.

Sincerely,

/s/ **Mark Gendron**

Mark Gendron  
Vice President  
Requirements Marketing

## **APPENDIX D**

BPA Programmatic Conservation Resources

Documentation of the Annual Amounts of Conservation Resources Available

AND

Documentation of Acquisition Cost

Annual Amounts Expensed and Amounts Capitalized and Financed

Section 7(b)(2) Rate Test Study and Documentation

WP-10 Initial Rate Proposal

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|    | A  | B                | C                       | D                     | E                         | F      | G                        | H                                  | I                      | J | K                    | L                         | M |
|----|--|------------------|-------------------------|-----------------------|---------------------------|--------|--------------------------|------------------------------------|------------------------|---|----------------------|---------------------------|---|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |                  |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |
| 2  | <b>BPA Programmatic Conservation - Historical Savings and Expenditures FYs 1982-2007 - Total Gross Amounts</b> |                  |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |
| 3  | <b>ConMod, C&amp;RD, and Market Transformation aMW Savings and Expenditures Before Adjustments</b>             |                  |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |
| 5  | <b><u>\$ Millions of Dollars<sup>1</sup></u></b>   |                  |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |
| 6  |  |                  |                         |                       |                           |        |                          |                                    |                        |   |                      | (C)                       |   |
| 7  |  | (D) - (C)        |                         | From (C)              | (D)                       |        | (A)                      |                                    |                        |   | (B)                  | (A) + (B)                 |   |
| 8  |  |                  |                         |                       | Annual                    |        |                          |                                    |                        |   |                      | Total                     |   |
| 9  |  | Conser.          | Amount                  | Amount                | Expenditures <sup>3</sup> | Amort. | BPA Annual               |                                    |                        |   | Third-Party          | Capitalized/              |   |
| 10 |  | Savings          | Revenue                 | Debt                  | Per                       | Period | Conservation             | BPA Bonds Issued                   |                        |   | Financed             | Debt Financed             |   |
| 11 |  | aMW <sup>2</sup> | Expensed <sup>3,4</sup> | Financed <sup>7</sup> | "Red Book"                | Years  | Capitalized <sup>4</sup> | Bond Principal Amount <sup>5</sup> | Bond Term <sup>5</sup> |   | Conser. <sup>6</sup> | Conservation <sup>7</sup> |   |
| 12 |  |                  |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |
| 13 | 1982 Conser.   | 32.4             | 4.974                   | 61.940                | 66.914                    | 20     | 61.940                   |                                    |                        |   | 0.000                | 61.940                    |   |
| 14 | 1983 Conser.   | 68.6             | 2.907                   | 204.092               | 206.999                   | 20     | 204.092                  | 140.0                              | 20                     |   | 0.000                | 204.092                   |   |
| 15 | 1984 Conser.   | 16.6             | 8.311                   | 66.783                | 75.094                    | 20     | 66.783                   | 150.0                              | 20                     |   | 0.000                | 66.783                    |   |
| 16 | 1985 Conser.   | 17.0             | 24.680                  | 103.067               | 127.747                   | 20     | 103.067                  | 50.0                               | 5                      |   | 0.000                | 103.067                   |   |
| 17 | 1986 Conser.   | 23.5             | 5.256                   | 99.743                | 104.999                   | 20     | 97.618                   | 50.0                               | 10                     |   | 2.125                | 99.743                    |   |
| 18 |  |                  |                         |                       |                           |        |                          | 50.0                               | 5                      |   |                      | 0.000                     |   |
| 19 | 1987 Conser.   | 19.7             | 3.928                   | 71.631                | 75.559                    | 20     | 67.381                   | 75.0                               | 20                     |   | 4.250                | 71.631                    |   |
| 20 |  |                  |                         |                       |                           |        |                          | 50.0                               | 5                      |   |                      | 0.000                     |   |
| 21 | 1988 Conser.   | 53.2             | 8.535                   | 58.570                | 67.105                    | 20     | 54.320                   | 90.0                               | 20                     |   | 4.250                | 58.570                    |   |
| 22 | 1989 Conser.   | 51.7             | 17.643                  | 46.069                | 63.712                    | 20     | 41.819                   | 40.0                               | 20                     |   | 4.250                | 46.069                    |   |
| 23 | 1990 Conser.   | 38.1             | 41.859                  | 36.220                | 78.079                    | 20     | 34.095                   |                                    |                        |   | 2.125                | 36.220                    |   |
| 24 | 1991 Conser.   | 19.0             | 43.811                  | 45.714                | 89.525                    | 20     | 45.714                   |                                    |                        |   | 0.000                | 45.714                    |   |
| 25 | 1992 Conser.   | 37.4             | 68.496                  | 62.151                | 130.647                   | 20     | 62.151                   | 100.0                              | 15                     |   | 0.000                | 62.151                    |   |
| 26 |  |                  |                         |                       |                           |        |                          | 50.0                               | 20                     |   |                      | 0.000                     |   |
| 27 | 1993 Conser.   | 59.6             | 59.432                  | 96.717                | 156.149                   | 20     | 96.717                   | 90.0                               | 20                     |   | 0.000                | 96.717                    |   |
| 28 | 1994 Conser.   | 51.3             | 58.812                  | 121.242               | 180.054                   | 20     | 115.030                  | 50.0                               | 20                     |   | 6.212                | 121.242                   |   |
| 29 |  |                  |                         |                       |                           |        |                          | 50.0                               | 4                      |   |                      | 0.000                     |   |
| 30 | 1995 Conser.   | 65.9             | 50.702                  | 85.252                | 135.954                   | 20     | 72.428                   | 85.0                               | 20                     |   | 12.824               | 85.252                    |   |
| 31 | 1996 Conser.   | 56.3             | 53.532                  | 52.274                | 105.806                   | 20     | 39.450                   | 30.0                               | 15                     |   | 12.824               | 52.274                    |   |
| 32 | 1997 Conser.   | 54.7             | 28.023                  | 32.953                | 60.976                    | 20     | 20.329                   | 40.0                               | 20                     |   | 12.624               | 32.953                    |   |
| 33 | 1998 Conser.   | 33.4             | 32.546                  | 26.331                | 58.877                    | 20     | 14.308                   |                                    |                        |   | 12.023               | 26.331                    |   |
| 34 | 1999 Conser.   | 33.1             | 20.937                  | 19.728                | 40.665                    | 20     | 13.716                   |                                    |                        |   | 6.012                | 19.728                    |   |
| 35 | 2000 Conser.   | 18.2             | 15.377                  | 0.347                 | 15.724                    | 20     | 0.347                    | 32.0                               | 3                      |   | 0.000                | 0.347                     |   |
| 36 | 2001 Conser.   | 30.9             | 29.148                  | 0.057                 | 29.205                    | 20     | 0.057                    |                                    |                        |   | 0.000                | 0.057                     |   |
| 37 | 2002 Conser.   | 61.0             | 57.053                  | 28.227                | 85.280                    | 10     | 28.227                   | 40.0                               | 3                      |   | 0.000                | 28.227                    |   |
| 38 | 2003 Conser.   | 53.8             | 58.725                  | 22.900                | 81.625                    | 9      | 22.900                   |                                    |                        |   | 0.000                | 22.900                    |   |
| 39 | 2004 Conser.   | 51.7             | 48.573                  | 19.431                | 68.004                    | 8      | 19.431                   | 30.0                               | 4                      |   | 0.000                | 19.431                    |   |
| 40 | Adjustments  | -1.9             |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |
| 41 | <b>TOTALS 1982-2004</b>  | 945.2            | 743.260                 | 1,361.439             | 2,104.699                 |        | 1,281.920                | 1,292.0                            |                        |   | 79.5                 | 1,361.439                 |   |
| 43 | 2005 Conser.   | 38.0             | 47.054                  | 14.750                | 61.804                    | 7      | 14.750                   |                                    |                        |   | 0.000                | 14.750                    |   |
| 44 | 2006 Conser.   | 48.5             | 47.750                  | 14.970                | 62.720                    | 6      | 14.970                   | 20.0                               | 3                      |   | 0.000                | 14.970                    |   |
| 45 | 2007 Conser.   | 58.1             | 38.860                  | 10.725                | 49.585                    | 5      | 10.725                   | 20.0                               | 3                      |   | 0.000                | 10.725                    |   |
| 46 | <b>TOTALS 2005-2007</b>  | 144.6            | 133.664                 | 40.445                | 174.109                   |        | 40.445                   | 40.000                             |                        |   | 0.000                | 40.445                    |   |
| 48 | <b>TOTALS 1982-2007</b>  | 1,089.8          | 876.924                 | 1,401.884             | 2,278.808                 |        | 1,322.365                | 1,332.000                          |                        |   | 79.500               | 1,401.884                 |   |
| 50 | Page 1 of 2  |                  |                         |                       |                           |        |                          |                                    |                        |   |                      |                           |   |

**BPA's 2010 Wholesale Power Rate Case**  
**BPA Programmatic Conservation - Historical Savings and Expenditures**  
**Gross Cost Amounts Before Adjustments**

**Notes to Worksheet:**

1. Dollar costs are in nominal dollars associated with the year of expenditure.
2. The aMWs of savings acquired and the annual expenditures are gross amounts with no adjustments for degradation of measures over time. The annual savings amounts for the years 1982-2004 were obtained from the 2004 Conservation Resource Energy Data, "The Red Book" ([http://www.bpa.gov/Energy/N/Reports/publications/pdf/2004\\_red\\_book.pdf](http://www.bpa.gov/Energy/N/Reports/publications/pdf/2004_red_book.pdf)). The annual savings totals for years 1982-2004 were based on Tables A and B using the sub-sector line amounts. The 2004 savings amounts attributable to building codes, market transformation efforts, ConMod, and C&RD are included in the savings totals. See the spread sheet titled "Total BPA Historical Programatic Conservation - Gross Amounts." The information in the 2004 Red Book provided greater detail than the 2005 edition for the years 1982-1999. The amounts in the table were updated and reconciled to the February 2005 Red Book addition ([http://www.bpa.gov/Energy/N/reports/publications/pdf/fy05\\_red\\_book.pdf](http://www.bpa.gov/Energy/N/reports/publications/pdf/fy05_red_book.pdf)). The annual savings and expenditure amounts for the years 2005-2007 were obtained from the 2007 Red Book, ([http://www.bpa.gov/Energy/N/Reports/publications/pdf/RED\\_BOOK\\_FY07\\_Final.pdf](http://www.bpa.gov/Energy/N/Reports/publications/pdf/RED_BOOK_FY07_Final.pdf)).
3. Total Annual Expenditures for the years 1982-2004 are based on the "Total Cumulative Cost" column, Table D of the 2005 version of the "Red Book." The total expenditures include overhead loadings and indirect costs. Expenditures for building codes, market transformation, ConMod, and C&RD are included in the totals. In addition the amount of conservation investments funded with third-party debt are included in the totals. Annual expenditures for the years 2005-2007 are based on the "Total Incremental Cost" row, Table D of the 2007 version of the "Red Book." The total expenditures include overhead loadings and indirect costs. Expenditures for market transformation, C&RD, CRC, Energy Web Costs, and Conservation Support Costs are separately identified.
4. The annual amount capitalized is based on the additions to Annual Plant in Service based on the 2007 Supplemental Revenue Requirement Study Documentation WP-10-E-BPA-10, Volume 1, Chapter 4, Tables 4M, 4N, and 4o. This number is consistent with the information in BPA's annual reports after subtracting amortization of prior year investments.
5. The amount of conservation bonds issued and the term of the bonds is based on the Revenue Requirement Study Documentation WP-10-E-BPA-10 Volume 1, Chapter 7, Table 7G.
6. BPA has agreed to pay the debt service for Conservation and Renewable Energy System (CARES) a joint operating agency (JOA) of the State of Washington, Emerald Public Utility District, City of Tacoma (Tacoma Power), and Eugene Water and Electric Board. The amounts in the column Third-Party Financed Conservation represent the original issue amount (principle) of bonds to finance conservation projects.
7. Total Capitalized/Debt Financed Conservation is comprised of BPA capitalized expenditures that were financed with U.S. Treasury Bonds and the conservation that is capitalized under Nonfederal Projects in BPA's financial statements which consists of third-party funded conservation as outlined in Note 6 above.

|    | A  | B           | C           | D           | E           | F           | G           | H           |
|----|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |             |             |             |             |             |             |             |
| 2  | <b>Total BPA Historical Programmatic Conservation - Gross Savings Amounts<sup>1</sup></b>          |             |             |             |             |             |             |             |
| 3  |  |             |             |             |             |             |             |             |
| 4  |  | <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | <u>1986</u> | <u>1987</u> | <u>1988</u> |
| 5  |  |             |             |             |             |             |             |             |
| 6  | Residential - C&RD   | 30.0        | 49.5        | 10.6        | 9.0         | 9.3         | 5.0         | 5.0         |
| 7  | Adj.   | 0.0         | (0.6)       | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 8  | Sub TOTAL  | 30.0        | 48.9        | 10.6        | 9.0         | 9.3         | 5.0         | 5.0         |
| 9  |  |             |             |             |             |             |             |             |
| 10 | Commercial - C&RD  | 2.5         | 20.8        | 6.4         | 8.0         | 12.4        | 8.0         | 1.0         |
| 11 | Adj.   | (0.1)       | (1.1)       | (0.4)       | (0.4)       | (0.7)       | (0.4)       | (0.1)       |
| 12 | Sub TOTAL  | 2.4         | 19.7        | 6.0         | 7.6         | 11.7        | 7.6         | 0.9         |
| 13 |  |             |             |             |             |             |             |             |
| 14 | Industrial - C&RD  | 0.0         | 0.0         | 0.0         | 0.0         | 0.4         | 0.9         | 4.3         |
| 15 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (0.2)       |
| 16 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.4         | 0.9         | 4.1         |
| 17 |  |             |             |             |             |             |             |             |
| 18 | Agriculture - C&RD   | 0.0         | 0.5         | 0.5         | 0.9         | 0.9         | 1.3         | 1.4         |
| 19 | Adj.   | 0.0         | (0.5)       | (0.5)       | (0.9)       | (0.9)       | (1.3)       | (1.4)       |
| 20 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 21 |  |             |             |             |             |             |             |             |
| 22 | Multi-Sector - C&RD  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 23 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 24 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 25 |  |             |             |             |             |             |             |             |
| 26 | Building Codes   | 0.0         | 0.0         | 0.0         | 0.4         | 2.1         | 3.7         | 5.6         |
| 27 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 28 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.4         | 2.1         | 3.7         | 5.6         |
| 29 |  |             |             |             |             |             |             |             |
| 30 | Con/Mod  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 2.5         | 37.6        |
| 31 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 32 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 2.5         | 37.6        |
| 33 |  |             |             |             |             |             |             |             |
| 34 | Market Trans.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 35 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 36 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 37 |  |             |             |             |             |             |             |             |
| 38 | <b>C&amp;RD</b>  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 39 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 40 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 41 |  |             |             |             |             |             |             |             |
| 42 | <b>Totals before Adj.</b>  | 32.5        | 70.8        | 17.5        | 18.3        | 25.1        | 21.4        | 54.9        |
| 43 | <b>Adjustments</b>   | (0.1)       | (2.2)       | (0.9)       | (1.3)       | (1.6)       | (1.7)       | (1.7)       |
| 44 | <b>Net Annual Amt.</b>   | 32.4        | 68.6        | 16.6        | 17.0        | 23.5        | 19.7        | 53.2        |
| 45 |  |             |             |             |             |             |             |             |
| 46 | <b>Note 1</b> - The aMWs of savings acquired and the annual expenditures are gross amounts with no |             |             |             |             |             |             |             |
| 47 | adjustments for degradation of measures over time. The annual savings amounts were                 |             |             |             |             |             |             |             |
| 48 | obtained from the June 2005 Conservation Resource Energy Data, "The Red Book".                     |             |             |             |             |             |             |             |
| 49 |  |             |             |             |             |             |             |             |
| 50 | Page 1 of 5  |             |             |             |             |             |             |             |
| 51 |  |             |             |             |             |             |             |             |
| 52 |  |             |             |             |             |             |             |             |

|    | I  | J           | K           | L           | M           | N           | O           | P | Q                |
|----|--|-------------|-------------|-------------|-------------|-------------|-------------|---|------------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |             |             |             |             |             |             |   |                  |
| 2  | <b>Total BPA Historical Programmatic Conservation - Gross Savings Amounts<sup>1</sup></b>          |             |             |             |             |             |             |   |                  |
| 3  |  |             |             |             |             |             |             |   | Subtotal         |
| 4  |  | <u>1989</u> | <u>1990</u> | <u>1991</u> | <u>1992</u> | <u>1993</u> | <u>1994</u> |   | <u>1982-1994</u> |
| 6  | Residential - C&RD   | 4.0         | 3.7         | 4.7         | 14.4        | 18.4        | 9.0         |   | 172.6            |
| 7  | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | (0.6)            |
| 8  | Sub TOTAL  | 4.0         | 3.7         | 4.7         | 14.4        | 18.4        | 9.0         |   | 172.0            |
| 10 | Commercial - C&RD  | 0.9         | 1.0         | 1.0         | 5.0         | 11.4        | 14.1        |   | 92.5             |
| 11 | Adj.   | 0.0         | (0.1)       | (0.1)       | (0.3)       | (0.6)       | (0.9)       |   | (5.2)            |
| 12 | Sub TOTAL  | 0.9         | 0.9         | 0.9         | 4.7         | 10.8        | 13.2        |   | 87.3             |
| 14 | Industrial - C&RD  | 6.7         | 2.2         | 6.3         | 6.1         | 15.2        | 11.3        |   | 53.4             |
| 15 | Adj.   | (0.4)       | (0.1)       | (0.3)       | (0.3)       | (0.9)       | (0.6)       |   | (2.8)            |
| 16 | Sub TOTAL  | 6.3         | 2.1         | 6.0         | 5.8         | 14.3        | 10.7        |   | 50.6             |
| 18 | Agriculture - C&RD   | 1.4         | 0.1         | 1.2         | 0.9         | 1.7         | 1.6         |   | 12.4             |
| 19 | Adj.   | (0.1)       | 0.0         | (0.1)       | (0.1)       | (0.2)       | (0.2)       |   | (6.2)            |
| 20 | Sub TOTAL  | 1.3         | 0.1         | 1.1         | 0.8         | 1.5         | 1.4         |   | 6.2              |
| 22 | Multi-Sector - C&RD  | 0.0         | 0.0         | 0.0         | 0.2         | 0.7         | 5.4         |   | 6.3              |
| 23 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 24 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.2         | 0.7         | 5.4         |   | 6.3              |
| 26 | Building Codes   | 8.3         | 6.4         | 6.3         | 11.5        | 13.9        | 11.6        |   | 69.8             |
| 27 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 28 | Sub TOTAL  | 8.3         | 6.4         | 6.3         | 11.5        | 13.9        | 11.6        |   | 69.8             |
| 30 | Con/Mod  | 30.9        | 24.9        | 0.0         | 0.0         | 0.0         | 0.0         |   | 95.9             |
| 31 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 32 | Sub TOTAL  | 30.9        | 24.9        | 0.0         | 0.0         | 0.0         | 0.0         |   | 95.9             |
| 34 | Market Trans.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 35 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 36 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 38 | <b>C&amp;RD</b>  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 39 | Adj.   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 40 | Sub TOTAL  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |   | 0.0              |
| 41 |  |             |             |             |             |             |             |   |                  |
| 42 | <b>Totals before Adj.</b>  | 52.2        | 38.3        | 19.5        | 38.1        | 61.3        | 53.0        |   | 502.9            |
| 43 | <b>Adjustments</b>   | (0.5)       | (0.2)       | (0.5)       | (0.7)       | (1.7)       | (1.7)       |   | (14.8)           |
| 44 | <b>Net Annual Amt.</b>   | 51.7        | 38.1        | 19.0        | 37.4        | 59.6        | 51.3        |   | 488.1            |
| 45 |  |             |             |             |             |             |             |   |                  |
| 46 | <b>Note 1</b> - The aMWs of savings acquired and the annual expenditures are gross amounts with no |             |             |             |             |             |             |   |                  |
| 47 | adjustments for degradation of measures over time. The annual savings amounts were obtained        |             |             |             |             |             |             |   |                  |
| 48 | from the June 2005 Conservation Resource Energy Data, "The Red Book".                              |             |             |             |             |             |             |   |                  |
| 49 |  |             |             |             |             |             |             |   |                  |
| 50 | Page 2 of 5  |             |             |             |             |             |             |   |                  |
| 51 |  |             |             |             |             |             |             |   |                  |
| 52 |  |             |             |             |             |             |             |   |                  |



|    | R   | S           | T           | U           | V           | W           | X           |
|----|---|-------------|-------------|-------------|-------------|-------------|-------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |             |             |             |
| 2  | <b>Total BPA Historical Programmatic Conservation - Gross Savings Amounts<sup>1</sup></b>       |             |             |             |             |             |             |
| 3  |   |             |             |             |             |             |             |
| 4  |   | <u>1995</u> | <u>1996</u> | <u>1997</u> | <u>1998</u> | <u>1999</u> | <u>2000</u> |
| 5  |   |             |             |             |             |             |             |
| 6  | Residential - C&RD  | 3.4         | 1.4         | 0.6         | 0.7         | 0.6         | 0.3         |
| 7  | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 8  | Sub TOTAL   | 3.4         | 1.4         | 0.6         | 0.7         | 0.6         | 0.3         |
| 9  |   |             |             |             |             |             |             |
| 10 | Commercial - C&RD   | 9.3         | 5.3         | 4.8         | 6.8         | 0.5         | 0.0         |
| 11 | Adj.  | (0.5)       | (0.2)       | (0.2)       | (0.3)       | 0.0         | 0.0         |
| 12 | Sub TOTAL   | 8.8         | 5.1         | 4.6         | 6.5         | 0.5         | 0.0         |
| 13 |   |             |             |             |             |             |             |
| 14 | Industrial - C&RD   | 18.2        | 11.8        | 6.7         | 0.2         | 0.2         | 0.0         |
| 15 | Adj.  | (1.1)       | (0.6)       | (0.4)       | 0.0         | 0.0         | 0.0         |
| 16 | Sub TOTAL   | 17.1        | 11.2        | 6.3         | 0.2         | 0.2         | 0.0         |
| 17 |   |             |             |             |             |             |             |
| 18 | Agriculture - C&RD  | 1.8         | 0.6         | 0.0         | 0.0         | 0.0         | 0.0         |
| 19 | Adj.  | (0.2)       | (0.2)       | 0.0         | 0.0         | 0.0         | 0.0         |
| 20 | Sub TOTAL   | 1.6         | 0.4         | 0.0         | 0.0         | 0.0         | 0.0         |
| 21 |   |             |             |             |             |             |             |
| 22 | Multi-Sector - C&RD   | 20.1        | 23.6        | 27.9        | 12.9        | 13.4        | 0.0         |
| 23 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 24 | Sub TOTAL   | 20.1        | 23.6        | 27.9        | 12.9        | 13.4        | 0.0         |
| 25 |   |             |             |             |             |             |             |
| 26 | Building Codes  | 14.9        | 14.6        | 15.3        | 13.1        | 14.4        | 12.9        |
| 27 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 28 | Sub TOTAL   | 14.9        | 14.6        | 15.3        | 13.1        | 14.4        | 12.9        |
| 29 |   |             |             |             |             |             |             |
| 30 | Con/Mod   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 31 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 32 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 33 |   |             |             |             |             |             |             |
| 34 | Market Trans.   | 0.0         | 0.0         | 0.0         | 0.0         | 4.0         | 5.0         |
| 35 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 36 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 4.0         | 5.0         |
| 37 |   |             |             |             |             |             |             |
| 38 | <b>C&amp;RD</b>   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 39 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 40 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 41 |   |             |             |             |             |             |             |
| 42 | <b>Totals before Adj.</b>   | 67.7        | 57.3        | 55.3        | 33.7        | 33.1        | 18.2        |
| 43 | <b>Adjustments</b>  | (1.8)       | (1.0)       | (0.6)       | (0.3)       | 0.0         | 0.0         |
| 44 | <b>Net Annual Amt.</b>  | 65.9        | 56.3        | 54.7        | 33.4        | 33.1        | 18.2        |
| 45 |   |             |             |             |             |             |             |
| 46 | <b>Note 1</b> - The aMWs of savings acquired and the annual expenditures are gross amounts with |             |             |             |             |             |             |
| 47 | no adjustments for degradation of measures over time. The annual savings amounts were           |             |             |             |             |             |             |
| 48 | obtained from the June 2005 Conservation Resource Energy Data, "The Red Book".                  |             |             |             |             |             |             |
| 49 |   |             |             |             |             |             |             |
| 50 | Page 3 of 5   |             |             |             |             |             |             |
| 51 |   |             |             |             |             |             |             |
| 52 |   |             |             |             |             |             |             |

|    | Y   | Z           | AA          | AB          | AC          | AD              | AE             |
|----|---|-------------|-------------|-------------|-------------|-----------------|----------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |             |                 |                |
| 2  | <b>Total BPA Historical Programmatic Conservation - Gross Savings Amounts<sup>1</sup></b> |             |             |             |             |                 |                |
| 3  |   |             |             |             |             | Other           | FY 1982-       |
| 4  |   | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>Adjust's</u> | <u>FY 2004</u> |
| 6  | Residential - C&RD  | 2.8         | 7.3         | 1.2         | 9.6         |                 | 200.5          |
| 7  | Adj.  | (0.5)       | (1.3)       | (0.2)       | 0.0         | 0.2             | (2.4)          |
| 8  | Sub TOTAL   | 2.3         | 6.0         | 1.0         | 9.6         | 0.2             | 198.1          |
| 10 | Commercial - C&RD   | 1.7         | 12.6        | 13.6        | 10.4        |                 | 157.5          |
| 11 | Adj.  | 0.0         | 0.2         | 0.2         | 0.0         | (1.6)           | (7.6)          |
| 12 | Sub TOTAL   | 1.7         | 12.8        | 13.8        | 10.4        | (1.6)           | 149.9          |
| 14 | Industrial - C&RD   | 0.0         | 3.5         | 5.1         | 3.5         |                 | 102.6          |
| 15 | Adj.  | 0.0         | (0.2)       | 0.0         | 0.0         | (0.5)           | (5.6)          |
| 16 | Sub TOTAL   | 0.0         | 3.3         | 5.1         | 3.5         | (0.5)           | 97.0           |
| 18 | Agriculture - C&RD  | 0.0         | 0.0         | 0.0         | 0.0         |                 | 14.8           |
| 19 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         |                 | (6.6)          |
| 20 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         |                 | 8.2            |
| 22 | Multi-Sector - C&RD   | 0.0         | 0.0         | 0.0         | 0.0         |                 | 104.2          |
| 23 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0             | 0.0            |
| 24 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         |                 | 104.2          |
| 26 | Building Codes  | 12.4        | 13.0        | 4.2         | 3.9         |                 | 188.5          |
| 27 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0             | 0.0            |
| 28 | Sub TOTAL   | 12.4        | 13.0        | 4.2         | 3.9         |                 | 188.5          |
| 30 | Con/Mod   | 0.0         | 0.0         | 0.0         | 0.0         |                 | 95.9           |
| 31 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0             | 0.0            |
| 32 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         |                 | 95.9           |
| 34 | Market Trans.   | 7.0         | 12.0        | 16.0        | 14.0        |                 | 58.0           |
| 35 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0             | 0.0            |
| 36 | Sub TOTAL   | 7.0         | 12.0        | 16.0        | 14.0        |                 | 58.0           |
| 38 | <b>C&amp;RD</b>   | 9.6         | 17.7        | 17.5        | 13.1        |                 | 57.9           |
| 39 | Adj.  | (2.1)       | (3.8)       | (3.8)       | (2.8)       | (5.2)           | (17.7)         |
| 40 | Sub TOTAL   | 7.5         | 13.9        | 13.7        | 10.3        | (5.2)           | 40.2           |
| 42 | <b>Totals before Adj.</b>   | 33.5        | 66.1        | 57.6        | 54.5        |                 | 979.9          |
| 43 | <b>Adjustments</b>  | (2.6)       | (5.1)       | (3.8)       | (2.8)       | (1.9)           | (34.7)         |
| 44 | <b>Net Annual Amt.</b>  | 30.9        | 61.0        | 53.8        | 51.7        | (1.9)           | 945.2          |
| 46 | Total Above   |             |             |             |             |                 | 945.2          |
| 47 | Less ConMod   |             |             |             |             |                 | (95.9)         |
| 48 | June 2005 Red Book Table A page 5   |             |             |             |             |                 | 849.3          |
| 50 | Page 4 of 5   |             |             |             |             |                 |                |

| A  | AG  | AH          | AI          | AJ          | AK              | AL             | AM |
|----|---|-------------|-------------|-------------|-----------------|----------------|----|
| 1  | BPA's 2010 Wholesale Power Rate Case  |             |             |             |                 |                |    |
| 2  | Total BPA Historical Programmatic Conservation - Gross Savings Amounts <sup>1</sup> |             |             |             |                 |                |    |
| 3  |   |             |             |             | Other           | FY 2005-       |    |
| 4  |   | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>Adjust's</u> | <u>FY 2007</u> |    |
| 6  | Residential   | 10.5        | 10.7        | 13.4        |                 | 34.6           |    |
| 7  | C&RD/CRC Adj.   | (8.5)       | (5.0)       | (6.9)       |                 | (20.4)         |    |
| 8  | Sub TOTAL   | 2.0         | 5.7         | 6.5         |                 | 14.2           |    |
| 10 | Commercial  | 9.5         | 14.6        | 9.4         |                 | 33.5           |    |
| 11 | C&RD/CRC Adj.   | (0.4)       | (0.8)       | (3.2)       |                 | (4.4)          |    |
| 12 | Sub TOTAL   | 9.1         | 13.8        | 6.2         |                 | 29.1           |    |
| 14 | Industrial  | 3.4         | 8.2         | 6.2         |                 | 17.8           |    |
| 15 | C&RD/CRC Adj.   | (0.6)       | (2.6)       | (5.3)       |                 | (8.5)          |    |
| 16 | Sub TOTAL   | 2.8         | 5.6         | 0.9         |                 | 9.3            |    |
| 18 | Agriculture   | 0.1         | 0.5         | 4.2         |                 | 4.8            |    |
| 19 | C&RD/CRC Adj.   | (0.1)       | (0.1)       | (2.9)       |                 | (3.1)          |    |
| 20 | Sub TOTAL   | 0.0         | 0.4         | 1.3         |                 | 1.7            |    |
| 22 | Multi-Sector  | 1.9         | 0.2         | 0.1         |                 | 2.2            |    |
| 23 | C&RD/CRC Adj.   | 0.0         | 0.0         | 0.0         |                 | 0.0            |    |
| 24 | Sub TOTAL   | 1.9         | 0.2         | 0.1         |                 | 2.2            |    |
| 26 | Market Trans.   | 12.7        | 14.2        | 24.9        |                 | 51.8           |    |
| 27 | Adj.  | 0.0         | (0.6)       | (3.6)       |                 | (4.2)          |    |
| 28 | Sub TOTAL   | 12.7        | 13.6        | 21.3        |                 | 47.6           |    |
| 30 | C&RD and CRC  | 9.6         | 9.1         | 21.9        |                 | 40.6           |    |
| 31 | Adj.  | (0.1)       | 0.1         | 0.0         |                 | 0.0            |    |
| 32 | Sub TOTAL   | 9.5         | 9.2         | 21.9        |                 | 40.6           |    |
| 34 | Totals before Adj.  | 38.1        | 48.4        | 58.2        |                 | 144.7          |    |
| 35 | Adjustments   | (0.1)       | 0.1         | (5.6)       |                 | (5.6)          |    |
| 36 | Net Annual Amt.   | 38.0        | 48.5        | 52.6        |                 | 139.1          |    |
| 38 |   |             |             |             |                 |                |    |
| 39 | Adjustment Detail:  |             |             |             |                 |                |    |
| 40 | Utility Self Funded HWM:  |             |             |             |                 |                |    |
| 41 | Residential   |             |             | (1.37)      |                 |                |    |
| 42 | Commercial  |             |             | (0.96)      |                 |                |    |
| 43 | Industrial  |             |             | (0.63)      |                 |                |    |
| 44 | Market Trans.   |             |             | (2.54)      |                 |                |    |
| 45 | Rounding  | (0.10)      | 0.10        | (0.10)      |                 |                |    |
| 46 | Totals  | (0.10)      | 0.10        | (5.60)      |                 |                |    |
| 47 |   |             |             |             |                 |                |    |
| 48 |   |             |             |             |                 |                |    |
| 49 |   |             |             |             |                 |                |    |
| 50 | Page 5 of 5   |             |             |             |                 |                |    |
| 51 |   |             |             |             |                 |                |    |
| 52 |   |             |             |             |                 |                |    |

|    | A   | B           | C           | D           | E           | F           | G           | H           |
|----|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |             |             |             |             |
| 2  | <b>BPA 1982-2004 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup></b> |             |             |             |             |             |             |             |
| 3  |   |             |             |             |             |             |             |             |
| 4  |   |             |             |             |             |             |             |             |
| 5  |   |             |             |             |             |             |             |             |
| 6  |   | <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | <u>1986</u> | <u>1987</u> | <u>1988</u> |
| 7  |   |             |             |             |             |             |             |             |
| 8  | Residential - C&RD  | 30.0        | 49.5        | 10.6        | 9.0         | 9.3         | 5.0         | 5.0         |
| 9  | Adj.  | 0.0         | (0.6)       | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 10 | Sub TOTAL   | 30.0        | 48.9        | 10.6        | 9.0         | 9.3         | 5.0         | 5.0         |
| 11 |   |             |             |             |             |             |             |             |
| 12 | Commercial - C&RD   | 2.5         | 20.8        | 6.4         | 8.0         | 12.4        | 8.0         | 1.0         |
| 13 | Adj.  | (0.1)       | (1.1)       | (0.4)       | (0.4)       | (0.7)       | (0.4)       | (0.1)       |
| 14 | Sub TOTAL   | 2.4         | 19.7        | 6.0         | 7.6         | 11.7        | 7.6         | 0.9         |
| 15 |   |             |             |             |             |             |             |             |
| 16 | Industrial - C&RD   | 0.0         | 0.0         | 0.0         | 0.0         | 0.4         | 0.9         | 4.3         |
| 17 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (0.2)       |
| 18 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.4         | 0.9         | 4.1         |
| 19 |   |             |             |             |             |             |             |             |
| 20 | Agriculture - C&RD  | 0.0         | 0.5         | 0.5         | 0.9         | 0.9         | 1.3         | 1.4         |
| 21 | Adj.  | 0.0         | (0.5)       | (0.5)       | (0.9)       | (0.9)       | (1.3)       | (1.4)       |
| 22 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 23 |   |             |             |             |             |             |             |             |
| 24 | Multi-Sector - C&RD   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 25 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 26 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 27 |   |             |             |             |             |             |             |             |
| 28 | Building Codes <sup>4</sup>   | 0.0         | 0.0         | 0.0         | 0.4         | 2.1         | 3.7         | 5.6         |
| 29 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 30 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.4         | 2.1         | 3.7         | 5.6         |
| 31 |   |             |             |             |             |             |             |             |
| 32 | Con/Mod <sup>5</sup>  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 2.5         | 37.6        |
| 33 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (2.5)       | (37.6)      |
| 34 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 35 |   |             |             |             |             |             |             |             |
| 36 | Market Transformation <sup>3</sup>  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 37 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 38 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 39 |   |             |             |             |             |             |             |             |
| 40 | C&RD <sup>2</sup>   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 41 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 42 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 43 |   |             |             |             |             |             |             |             |
| 44 | <b>Totals before Adj.</b>   | 32.5        | 70.8        | 17.5        | 18.3        | 25.1        | 21.4        | 54.9        |
| 45 | <b>Adjustments</b>  | (0.1)       | (2.2)       | (0.9)       | (1.3)       | (1.6)       | (4.2)       | (39.3)      |
| 46 | <b>Net Annual Amt.</b>  | 32.4        | 68.6        | 16.6        | 17.0        | 23.5        | 17.2        | 15.6        |
| 47 |   |             |             |             |             |             |             |             |
| 48 | <b>Note 1</b> - The aMWs of savings acquired and the annual expenditures are gross amounts            |             |             |             |             |             |             |             |
| 49 | with no adjustments for degradation of measures over time. The annual savings amounts                 |             |             |             |             |             |             |             |
| 50 | were obtained from the April 2004 Conservation Resource Energy Data, "The Red Book."                  |             |             |             |             |             |             |             |
| 51 |   |             |             |             |             |             |             |             |
| 52 |   |             |             |             |             |             |             |             |
| 53 |   |             |             |             |             |             |             |             |
| 54 |   |             |             |             |             |             |             |             |
| 55 |   |             |             |             |             |             |             |             |
| 56 |   |             |             |             |             |             |             |             |
| 57 |   |             |             |             |             |             |             |             |
| 58 |   |             |             |             |             |             |             |             |

|    | I   | J           | K           | L           | M           | N           | O           | P             |
|----|---|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |             |             |             |               |
| 2  | <b>BPA 1982-2004 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup></b> |             |             |             |             |             |             |               |
| 3  |   |             |             |             |             |             |             |               |
| 4  |   |             |             |             |             |             |             |               |
| 5  |   |             |             |             |             |             | 1982-1994   |               |
| 6  |   | <u>1989</u> | <u>1990</u> | <u>1991</u> | <u>1992</u> | <u>1993</u> | <u>1994</u> | <u>Totals</u> |
| 7  |   |             |             |             |             |             |             |               |
| 8  | Residential - C&RD  | 4.0         | 3.7         | 4.7         | 14.4        | 18.4        | 9.0         | 172.6         |
| 9  | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (0.6)         |
| 10 | Sub TOTAL   | 4.0         | 3.7         | 4.7         | 14.4        | 18.4        | 9.0         | 172.0         |
| 11 |   |             |             |             |             |             |             |               |
| 12 | Commercial - C&RD   | 0.9         | 1.0         | 1.0         | 5.0         | 11.4        | 14.1        | 92.5          |
| 13 | Adj.  | 0.0         | (0.1)       | (0.1)       | (0.3)       | (0.6)       | (0.9)       | (5.2)         |
| 14 | Sub TOTAL   | 0.9         | 0.9         | 0.9         | 4.7         | 10.8        | 13.2        | 87.3          |
| 15 |   |             |             |             |             |             |             |               |
| 16 | Industrial - C&RD   | 6.7         | 2.2         | 6.3         | 6.1         | 15.2        | 11.3        | 53.4          |
| 17 | Adj.  | (0.4)       | (0.1)       | (0.3)       | (0.3)       | (0.9)       | (0.6)       | (2.8)         |
| 18 | Sub TOTAL   | 6.3         | 2.1         | 6.0         | 5.8         | 14.3        | 10.7        | 50.6          |
| 19 |   |             |             |             |             |             |             |               |
| 20 | Agriculture - C&RD  | 1.4         | 0.1         | 1.2         | 0.9         | 1.7         | 1.6         | 12.4          |
| 21 | Adj.  | (0.1)       | 0.0         | (0.1)       | (0.1)       | (0.2)       | (0.2)       | (6.2)         |
| 22 | Sub TOTAL   | 1.3         | 0.1         | 1.1         | 0.8         | 1.5         | 1.4         | 6.2           |
| 23 |   |             |             |             |             |             |             |               |
| 24 | Multi-Sector - C&RD   | 0.0         | 0.0         | 0.0         | 0.2         | 0.7         | 5.4         | 6.3           |
| 25 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 26 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.2         | 0.7         | 5.4         | 6.3           |
| 27 |   |             |             |             |             |             |             |               |
| 28 | Building Codes <sup>4</sup>   | 8.3         | 6.4         | 6.3         | 11.5        | 13.9        | 11.6        | 69.8          |
| 29 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 30 | Sub TOTAL   | 8.3         | 6.4         | 6.3         | 11.5        | 13.9        | 11.6        | 69.8          |
| 31 |   |             |             |             |             |             |             |               |
| 32 | Con/Mod <sup>5</sup>  | 30.9        | 24.9        | 0.0         | 0.0         | 0.0         | 0.0         | 95.9          |
| 33 | Adj.  | (30.9)      | (24.9)      | 0.0         | 0.0         | 0.0         | 0.0         | (95.9)        |
| 34 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 35 |   |             |             |             |             |             |             |               |
| 36 | Market Transformation <sup>3</sup>  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 37 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 38 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 39 |   |             |             |             |             |             |             |               |
| 40 | C&RD <sup>2</sup>   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 41 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 42 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0           |
| 43 |   |             |             |             |             |             |             |               |
| 44 | <b>Totals before Adj.</b>   | 52.2        | 38.3        | 19.5        | 38.1        | 61.3        | 53.0        | 502.9         |
| 45 | <b>Adjustments</b>  | (31.4)      | (25.1)      | (0.5)       | (0.7)       | (1.7)       | (1.7)       | (110.7)       |
| 46 | <b>Net Annual Amt.</b>  | 20.8        | 13.2        | 19.0        | 37.4        | 59.6        | 51.3        | 392.2         |
| 47 |   |             |             |             |             |             |             |               |
| 48 | <b>Note 1</b> - The aMWs of savings acquired and the annual expenditures are gross amounts            |             |             |             |             |             |             |               |
| 49 | with no adjustments for degradation of measures over time. The annual savings amounts                 |             |             |             |             |             |             |               |
| 50 | were obtained from the April 2004 Conservation Resource Energy Data, "The Red Book."                  |             |             |             |             |             |             |               |
| 51 |   |             |             |             |             |             |             |               |
| 52 |   |             |             |             |             |             |             |               |
| 53 |   |             |             |             |             |             |             |               |
| 54 |   |             |             |             |             |             |             |               |
| 55 |   |             |             |             |             |             |             |               |
| 56 |   |             |             |             |             |             |             |               |
| 57 |   |             |             |             |             |             |             |               |
| 58 |   |             |             |             |             |             |             |               |

|    | Q   | R           | S           | T           | U           | V           | W           |
|----|---|-------------|-------------|-------------|-------------|-------------|-------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |             |             |             |
| 2  | <b>BPA 1982-2004 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup></b> |             |             |             |             |             |             |
| 3  |   |             |             |             |             |             |             |
| 4  |   |             |             |             |             |             |             |
| 5  |   |             |             |             |             |             |             |
| 6  |   | <u>1995</u> | <u>1996</u> | <u>1997</u> | <u>1998</u> | <u>1999</u> | <u>2000</u> |
| 7  |   |             |             |             |             |             |             |
| 8  | Residential less C&RD   | 3.4         | 1.4         | 0.6         | 0.7         | 0.6         | 0.3         |
| 9  | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 10 | Sub TOTAL   | 3.4         | 1.4         | 0.6         | 0.7         | 0.6         | 0.3         |
| 11 |   |             |             |             |             |             |             |
| 12 | Commercial less C&RD  | 9.3         | 5.3         | 4.8         | 6.8         | 0.5         | 0.0         |
| 13 | Adj.  | (0.5)       | (0.2)       | (0.2)       | (0.3)       | 0.0         | 0.0         |
| 14 | Sub TOTAL   | 8.8         | 5.1         | 4.6         | 6.5         | 0.5         | 0.0         |
| 15 |   |             |             |             |             |             |             |
| 16 | Industrial less C&RD  | 18.2        | 11.8        | 6.7         | 0.2         | 0.2         | 0.0         |
| 17 | Adj.  | (1.1)       | (0.6)       | (0.4)       | 0.0         | 0.0         | 0.0         |
| 18 | Sub TOTAL   | 17.1        | 11.2        | 6.3         | 0.2         | 0.2         | 0.0         |
| 19 |   |             |             |             |             |             |             |
| 20 | Agriculture less C&RD   | 1.8         | 0.6         | 0.0         | 0.0         | 0.0         | 0.0         |
| 21 | Adj.  | (0.2)       | (0.2)       | 0.0         | 0.0         | 0.0         | 0.0         |
| 22 | Sub TOTAL   | 1.6         | 0.4         | 0.0         | 0.0         | 0.0         | 0.0         |
| 23 |   |             |             |             |             |             |             |
| 24 | Multi-Sector less C&RD  | 20.1        | 23.6        | 27.9        | 12.9        | 13.4        | 0.0         |
| 25 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 26 | Sub TOTAL   | 20.1        | 23.6        | 27.9        | 12.9        | 13.4        | 0.0         |
| 27 |   |             |             |             |             |             |             |
| 28 | Building Codes <sup>4</sup>   | 14.9        | 14.6        | 15.3        | 13.1        | 14.4        | 12.9        |
| 29 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 30 | Sub TOTAL   | 14.9        | 14.6        | 15.3        | 13.1        | 14.4        | 12.9        |
| 31 |   |             |             |             |             |             |             |
| 32 | Con/Mod <sup>5</sup>  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 33 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 34 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 35 |   |             |             |             |             |             |             |
| 36 | Market Transformation <sup>3</sup>  | 0.0         |             |             |             | 4.0         | 5.0         |
| 37 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | (2.7)       | (3.4)       |
| 38 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 1.3         | 1.6         |
| 39 |   |             |             |             |             |             |             |
| 40 | C&RD <sup>2</sup>   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 41 | Adj.  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 42 | Sub TOTAL   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 43 |   |             |             |             |             |             |             |
| 44 | <b>Totals before Adj.</b>   | 67.7        | 57.3        | 55.3        | 33.7        | 33.1        | 18.2        |
| 45 | <b>Adjustments</b>  | (1.8)       | (1.0)       | (0.6)       | (0.3)       | (2.7)       | (3.4)       |
| 46 | <b>Net Annual Amt.</b>  | 65.9        | 56.3        | 54.7        | 33.4        | 30.4        | 14.8        |
| 47 |   |             |             |             |             |             |             |
| 48 | <b>Note 1</b> - The aMWs of savings acquired and the annual expenditures are gross amounts            |             |             |             |             |             |             |
| 49 | with no adjustments for degradation of measures over time. The annual savings amounts                 |             |             |             |             |             |             |
| 50 | were obtained from the April 2004 Conservation Resource Energy Data, "The Red Book."                  |             |             |             |             |             |             |
| 51 |   |             |             |             |             |             |             |
| 52 |   |             |             |             |             |             |             |
| 53 |   |             |             |             |             |             |             |
| 54 |   |             |             |             |             |             |             |
| 55 |   |             |             |             |             |             |             |
| 56 |   |             |             |             |             |             |             |
| 57 |   |             |             |             |             |             |             |
| 58 |   |             |             |             |             |             |             |

|    | X   | Y                                     | Z           | AA          | AB          | AC              | AD | AE       | A     |
|----|---|---------------------------------------|-------------|-------------|-------------|-----------------|----|----------|-------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |                                       |             |             |             |                 |    |          |       |
| 2  | <b>BPA 1982-2004 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup></b> |                                       |             |             |             |                 |    |          |       |
| 3  |   |                                       |             |             |             |                 |    |          |       |
| 4  |   |                                       |             |             |             |                 |    |          |       |
| 5  |   |                                       |             |             |             | Other           |    | TOTALS   |       |
| 6  |   | <u>2001</u>                           | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>Adjust's</u> |    | FY 1982- |       |
| 7  |   |                                       |             |             |             |                 |    | FY 2004  |       |
| 8  | Residential less C&RD   | 2.8                                   | 7.3         | 1.2         | 9.6         |                 |    | 200.5    |       |
| 9  | Adj.  | (0.5)                                 | (1.3)       | (0.2)       | 0.0         | 0.2             |    | (2.4)    |       |
| 10 | Sub TOTAL   | 2.3                                   | 6.0         | 1.0         | 9.6         |                 |    | 198.1    |       |
| 12 | Commercial less C&RD  | 1.7                                   | 12.6        | 13.6        | 10.4        |                 |    | 157.5    |       |
| 13 | Adj.  | 0.0                                   | 0.2         | 0.2         | 0.0         | (1.6)           |    | (7.6)    |       |
| 14 | Sub TOTAL   | 1.7                                   | 12.8        | 13.8        | 10.4        |                 |    | 149.9    |       |
| 16 | Industrial less C&RD  | 0.0                                   | 3.5         | 5.1         | 3.5         |                 |    | 102.6    |       |
| 17 | Adj.  | 0.0                                   | (0.2)       | 0.0         | 0.0         | (0.5)           |    | (5.6)    |       |
| 18 | Sub TOTAL   | 0.0                                   | 3.3         | 5.1         | 3.5         |                 |    | 97.0     |       |
| 20 | Agriculture less C&RD   | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 14.8     |       |
| 21 | Adj.  | 0.0                                   | 0.0         | 0.0         | 0.0         | 0.0             |    | (6.6)    |       |
| 22 | Sub TOTAL   | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 8.2      |       |
| 24 | Multi-Sector less C&RD  | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 104.2    |       |
| 25 | Adj.  | 0.0                                   | 0.0         | 0.0         | 0.0         | 0.0             |    | 0.0      |       |
| 26 | Sub TOTAL   | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 104.2    |       |
| 28 | Building Codes <sup>4</sup>   | 12.4                                  | 13.0        | 4.2         | 3.9         |                 |    | 188.5    |       |
| 29 | Adj.  | 0.0                                   | (13.0)      | (4.2)       | (3.9)       | 0.0             |    | (21.1)   |       |
| 30 | Sub TOTAL   | 12.4                                  | 0.0         | 0.0         | 0.0         |                 |    | 167.4    |       |
| 32 | Con/Mod <sup>5</sup>  | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 95.9     |       |
| 33 | Adj.  | 0.0                                   | 0.0         | 0.0         | 0.0         | 0.0             |    | (95.9)   |       |
| 34 | Sub TOTAL   | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 0.0      |       |
| 36 | Market Transformation <sup>3</sup>  | 7.0                                   | 12.0        | 16.0        | 14.0        |                 |    | 58.0     |       |
| 37 | Adj.  | (4.7)                                 | (8.0)       | (10.7)      | (9.4)       | 0.0             |    | (38.9)   |       |
| 38 | Sub TOTAL   | 2.3                                   | 4.0         | 5.3         | 4.6         |                 |    | 19.1     |       |
| 40 | C&RD <sup>2</sup>   | 7.5                                   | 13.9        | 13.7        | 10.3        |                 |    | 45.4     |       |
| 41 | Adj.  | (7.5)                                 | (13.9)      | (13.7)      | (10.3)      | 0.0             |    | (45.4)   |       |
| 42 | Sub TOTAL   | 0.0                                   | 0.0         | 0.0         | 0.0         |                 |    | 0.0      |       |
| 44 | <b>Totals before Adj.</b>   | 31.4                                  | 62.3        | 53.8        | 51.7        |                 |    | 967.4    |       |
| 45 | <b>Adjustments<sup>6</sup></b>  | (12.7)                                | (36.2)      | (28.6)      | (23.6)      | 3.3             |    | (218.3)  |       |
| 46 | <b>Net Annual Amt.</b>  | 18.7                                  | 26.1        | 25.2        | 28.1        | 3.3             |    | 749.1    |       |
| 48 |   | Total Above                           |             |             |             |                 |    |          | 749.1 |
| 49 |   | Plus C&RD Reductions                  |             |             |             |                 |    |          | 45.4  |
| 50 |   | Plus Bldg. Code Reductions            |             |             |             |                 |    |          | 21.1  |
| 51 |   | Difference in C&RD                    |             |             |             |                 |    |          | (5.2) |
| 52 |   | Plus Market Transformation Reductions |             |             |             |                 |    |          | 38.9  |
| 53 |   | 2005 Red Book Table A page 5          |             |             |             |                 |    |          | 849.3 |
| 55 |   | Page 4 of 8                           |             |             |             |                 |    |          |       |
| 57 |   |                                       |             |             |             |                 |    |          |       |
| 58 |   |                                       |             |             |             |                 |    |          |       |

|    | AG  | AH          | AI          | AJ          | AK              | AL | AM             |
|----|---|-------------|-------------|-------------|-----------------|----|----------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |             |             |             |                 |    |                |
| 2  | <b>BPA 1982-2004 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup></b> |             |             |             |                 |    |                |
| 3  |   |             |             |             | Other           |    | FY 2005-       |
| 4  |   | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>Adjust's</u> |    | <u>FY 2007</u> |
| 5  |   |             |             |             |                 |    |                |
| 6  |   |             |             |             |                 |    |                |
| 7  |   |             |             |             |                 |    |                |
| 8  | Residential less C&RD   | 2.0         | 5.7         | 5.1         |                 |    | 12.8           |
| 9  | Adj.  |             |             |             |                 |    |                |
| 10 | Sub TOTAL   | 2.0         | 5.7         | 5.1         |                 |    | 12.8           |
| 11 |   |             |             |             |                 |    |                |
| 12 | Commercial less C&RD  | 9.1         | 13.8        | 5.2         |                 |    | 28.1           |
| 13 | Adj.  |             |             |             |                 |    |                |
| 14 | Sub TOTAL   | 9.1         | 13.8        | 5.2         |                 |    | 28.1           |
| 15 |   |             |             |             |                 |    |                |
| 16 | Industrial less C&RD  | 2.8         | 5.6         | 0.3         |                 |    | 8.7            |
| 17 | Adj.  |             |             |             |                 |    |                |
| 18 | Sub TOTAL   | 2.8         | 5.6         | 0.3         |                 |    | 8.7            |
| 19 |   |             |             |             |                 |    |                |
| 20 | Agriculture less C&RD   | 0.0         | 0.4         | 1.3         |                 |    | 1.7            |
| 21 | Adj.  |             |             |             |                 |    |                |
| 22 | Sub TOTAL   | 0.0         | 0.4         | 1.3         |                 |    | 1.7            |
| 23 |   |             |             |             |                 |    |                |
| 24 | Multi-Sector less C&RD  | 1.9         | 0.2         | 0.1         |                 |    | 2.2            |
| 25 | Adj.  |             |             |             |                 |    |                |
| 26 | Sub TOTAL   | 1.9         | 0.2         | 0.1         |                 |    | 2.2            |
| 27 |   |             |             |             |                 |    |                |
| 28 | Building Codes <sup>4</sup>   | 0.0         | 0.0         | 0.0         |                 |    | 0.0            |
| 29 | Adj.  | 0.0         | 0.0         | 0.0         |                 |    | 0.0            |
| 30 | Sub TOTAL   | 0.0         | 0.0         | 0.0         |                 |    | 0.0            |
| 31 |   |             |             |             |                 |    |                |
| 32 | Con/Mod <sup>5</sup>  | 0.0         | 0.0         | 0.0         |                 |    | 0.0            |
| 33 | Adj.  | 0.0         | 0.0         | 0.0         |                 |    | 0.0            |
| 34 | Sub TOTAL   | 0.0         | 0.0         | 0.0         |                 |    | 0.0            |
| 35 |   |             |             |             |                 |    |                |
| 36 | Market Transformation <sup>3</sup>  | 12.7        | 13.6        | 18.8        |                 |    | 45.1           |
| 37 | Adj.  | (8.5)       | (9.1)       | (12.6)      |                 |    | (30.2)         |
| 38 | Sub TOTAL   | 4.2         | 4.5         | 6.2         |                 |    | 14.9           |
| 39 |   |             |             |             |                 |    |                |
| 40 | C&RD and CRC <sup>2</sup>   | 9.5         | 9.2         | 21.9        |                 |    | 40.6           |
| 41 | Adj.  | (9.5)       | (9.2)       | (11.6)      |                 |    | (30.3)         |
| 42 | Sub TOTAL   | 0.0         | 0.0         | 10.3        |                 |    | 10.3           |
| 43 |   |             |             |             |                 |    |                |
| 44 | <b>Totals before Adj.</b>   | 38.0        | 48.5        | 52.7        |                 |    | 139.2          |
| 45 | <b>Adjustments<sup>7</sup></b>  | (18.0)      | (18.3)      | (24.2)      | 0.0             |    | (60.5)         |
| 46 | <b>Net Annual Amount 7(b)(2)</b>  | 20.0        | 30.2        | 28.5        |                 |    | 78.7           |
| 47 |   |             |             |             |                 |    |                |
| 48 | Adjustment Detail:  |             |             |             |                 |    |                |
| 49 | C&RD / CRC Reductions   | 9.5         | 9.2         | 11.6        |                 |    | 30.3           |
| 50 | Market Trans. Reductions  | 8.5         | 9.1         | 12.6        |                 |    | 30.2           |
| 51 | Utility Self Funded HWM - See Page D-7 for detail   |             |             | 5.5         |                 |    | 5.5            |
| 52 | Rounding  |             |             | (0.1)       |                 |    | (0.1)          |
| 53 | 2007 Red Book Table B page 8  | 38.0        | 48.5        | 58.1        |                 |    | 144.6          |
| 54 |   |             |             |             |                 |    |                |
| 55 | Page 5 of 8   |             |             |             |                 |    |                |
| 56 |   |             |             |             |                 |    |                |
| 57 |   |             |             |             |                 |    |                |
| 58 |   |             |             |             |                 |    |                |



**BPA's 2010 Wholesale Power Rate Case**  
**BPA 1982-2007 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup>**  
**NET BPA Conservation Program Savings - Section 7(b)(2) Amounts**

**Notes Concerning Conservation Savings Adjustments:**

1. The aMWs of savings acquired and the annual expenditures are gross amounts with no adjustments for degradation of measures over time. The annual savings amounts for 1982-2003 were obtained from the April 2004 Conservation Resource Energy Data, "The Red Book." The annual saving totals for years 1982-1999 were based on Table B2, pages 7-8, using the sub-sector line amounts. The annual savings for the years 2000-2003 are based on Table B1, page 6 of The 2004 Red Book, using the amounts for ConAug by sector plus the low income residential weatherization amounts. The information in the 2004 Red Book provided greater detail than the 2005 edition of the Red Book concerning the amount of conservation savings for the years 1982-1999. The final results in the tables were updated and reconciled to the February 2005 Red Book. Saving amounts attributable to ConMod, and C&RD have been totally removed from the cumulative totals for FY's 1982-2006. See the additional notes below on adjustments made to the Red Book's gross amounts. The annual savings amounts for 2005-2007 were obtained from the 2007 Conservation Resource Energy Data, "The Red Book." The annual saving totals for years 2005-2007 were based on Table B, page 8, using the sub-sector line amounts.

2. Savings and expenditures attributable to C&RD were removed in total for the years prior to 2007 because there was not adequate compliance efforts in place during those years to have sufficient certainty that the savings were achieved. BPA's post -2006 Conservation Program has provided additional compliance requirements surrounding the CRC program to help ensure the achievement of conservation savings associated with the granting of CRC credits. The majority of CRC expenditures are received by non-load following utilities that purchase the Slice and Flat-Block power products. The Administrator's load obligations to these utilities has not been reduced, (contract power amounts have not been decremented for the conservation savings) thus BPA will not receive a direct benefit from CRC expenditures associated with non-load following customers during the Section 7(b)(2) rate test period. BPA does receive a direct benefit from load following customers associated with the conservation that occurs in those utility's service territories. Because of the additional controls surrounding the achievement of conservation savings during the post 2006 time period, and because BPA does receive a direct benefit from expenditures that occur in load following utility service territories, the portion of the CRC savings attributable to load following utilities has been included in the Section 7(b)(2) resource stack for FY 2007. The reduction in conservation savings attributable to the CRC program available to the Section 7(b)(2) resource stack for FY 2007 was based on the projected amount of non-load following loads.

Load following BPA customer Total Retail Loads are forecasted at 4,292 aMW for FY 2009, non-load following loads are forecasted at 4,821, for a total of 9,113aMW (Total Retail Loads). Non-load following loads represent 53% of total forecasted BPA loads and load following loads represent 47% of BPA's total loads. Thus 53% of the saving attributable to FY 2007 CRC efforts will be removed from the 7(b)(2) resource stack. This net amount after adjustment will remain fixed for subsequent rate cases, and will not change due to future changes in the relationship of BPA's load following and non-load following loads.

**BPA's 2010 Wholesale Power Rate Case**  
**BPA 1982-2007 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup>**  
**NET BPA Conservation Program Savings - Section 7(b)(2) Amounts**

**Notes Concerning Conservation Savings Adjustments Continued:**

3. BPA's market transformation efforts have been achieved through the Northwest Energy Efficiency Alliance (NEEA) for the most part during this period of time. NEEA's market transformation efforts cover the entire Pacific Northwest Region and beyond. BPA paid for approximately one-half of NEEA's operating budgets during the 1999-2008 time frame. BPA plans to continue funding NEEA's efforts through the 2015 time period at the same level of support. BPA's "Red Book" claims one half of the regional savings attributable to NEEA's efforts commensurate with it's level of funding. The expenditures that BPA pays NEEA only has a partial impact on reducing the Administrator's load obligations. The amount of load reduction from these expenditures is calculated as follows:

BPA Customer's Forecasted FY 2009 Total Retail Loads:

|                              |                    |             |
|------------------------------|--------------------|-------------|
| Load Following Customers     | 4,292.0 aMW        | 47%         |
| Non-Load Following Customers | 4,821.0 aMW        | 53%         |
|                              | <b>9,113.0 aMW</b> | <b>100%</b> |

|  |              |      |
|--|--------------|------|
| Forecasted FY 2009 <u>Regional Loads</u> (No DSIs) | 21,205.0 aMW | 100% |
| BPA's Forecasted FY 2009 Loads (No DSIs)           | 7,406.0 aMW  | 35%  |

DSI loads were excluded from both amounts because market transformation efforts do not impact DSI loads. Of the total BPA forecasted loads of 7,406aMW (35% of total regional loads), there is no reduction in contracted power purchases for BPA's non-load following customers. No reduction of purchased power amounts in slice and block power purchase contracts due to NEEA savings were made during this period of time, and no decrements are forecasted for the 2010-2015 time period. For every megawatt of conservation savings that is achieved by NEEA's market transformation efforts, BPA's load obligations are reduced by approximately 16.45 percent (35% x 47%). Because the Red Book only claims half of the NEEA savings it is necessary to adjust the calculation below that is based on total regional loads by doubling the final savings amount. The adjustment necessary to reflect just the direct benefit of savings to BPA loads is to reduce the savings in the table by sixty-seven percent (67%). This percentage is derived by doubling the 16.45% above and subtracting this total from 100% of the gross savings contained in the Red Book (100% -(2 x 16.45%)) = 67%. This net amount after adjustment will remain fixed for subsequent rate cases, and will not change due to future changes in the relationship of BPA's load following and non-load following loads.

4. Adjustments were made to remove savings attributable to building codes for the years after 2001. BPA's Conservation Program staff are of the opinion that the benefits from earlier BPA expenditures to achieve Model Energy Code standards had largely been achieved by this time. The savings for the 7(b)(2) resource stack should have a high degree of assurance that the conservation savings would be able to reduce 7(b)(2) Case loads.

**BPA's 2010 Wholesale Power Rate Case**  
**BPA 1982-2007 NET Historical Programmatic Conservation Savings - After Adjustments<sup>1</sup>**  
**NET BPA Conservation Program Savings - Section 7(b)(2) Amounts**

**Notes Concerning Conservation Savings Adjustments Continued:**

5. As previously noted in the table of Gross Conservation Savings, The 2005 Red Book totals have excluded the savings from ConMod Conservation investments that were placed primarily with the aluminum reduction industry. Since most of these plants are no longer operating, and since the amount of load that BPA might serve is not known with a high degree of certainty, the conservation savings from these past investments is not available to reduce loads in the 2010-2015 time period of the 7(b)(2) rate test. The expenditures for ConMod investments were left in the 2005 Red Book to meet the Red Book's objective of accounting for all conservation expenditures. The expenditures for past ConMod investments were removed from the expenditure totals that were included in the 7(b)(2) resource stack.

6. Starting in FY 2007 the Red Book started reporting utility Self-Funded Conservation Savings in the conservation savings totals. These savings were undertaken by BPA's customers without BPA funding. No expenditures for these savings were reported in the Red Book. These savings for FY 2007 totaling 5.5 aMW were removed from the totals to arrive at BPA's conservation efforts that should be included in the 7(b)(2) resource stack.

7. The following adjustments were made to the 2005 Red Book's conservation savings for the years 1982-2004:

|                               |                  |
|-------------------------------|------------------|
| Building Code Savings         | 21.1 aMW         |
| Market Transformation Savings | 38.9 aMW         |
| C&RD Savings                  | 40.2 aMW         |
|                               | <u>100.2 aMW</u> |

The total conservation savings per the Red Book for FY1982-2004 was 849.3 aMW after netting out 95.9aMW of ConMod savings. The total savings included in the 7(b)(2) resource stack for those years was 749.1aMW after subtracting the above adjustments totaling 100.2 aMW.

8. The following adjustments were made to the 2007 Red Book's conservation savings for the years 2005-2007:

|                               |                 |
|-------------------------------|-----------------|
| Utility Self Funded HWM       | 5.5 aMW         |
| Market Transformation Savings | 30.2 aMW        |
| C&RD and CRC Savings          | 30.3 aMW        |
|                               | <u>66.0 aMW</u> |

The total conservation savings per the Red Book for FY2005-2007 was 144.7 aMW, the total savings included in the 7(b)(2) resource stack for those years was 78.7 aMW.

|    | A  | B   | C                       | D   | E  | F     | G       | H                   | I                          | J                                    | K                          | L                                 | M                            | N                           | O                   | P                                  | Q       | R | S |
|----|--|---|-------------------------|---|--|-------|---------|---------------------|----------------------------|--------------------------------------|----------------------------|-----------------------------------|------------------------------|-----------------------------|---------------------|------------------------------------|---------|---|---|
| 1  | BPA's 2010 Wholesale Power Rate Case   |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 2  | Total Historical Conservation Expenditures -1982-2007, Per Red Book, Adjusted for Plant Accounting Capitalized Conservation Expenditures |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 3  |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 4  | (S000) <sup>1</sup>  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 5  |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 6  |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 7  |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 8  |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 9  |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 10 |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 11 |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 12 | Year   | Total Incremental Yearly Costs<br>Table D<br>Red Book | Total Capitalized Costs | Third Party Financing Costs/<br>Original Issue Amount | BPA CAPITALIZED COSTS<br>Capitalized Conser. Costs<br>ConAcq Costs<br>ConAug Costs<br>Legacy Conser. Costs |       |         | Total Expense Costs | Support Costs <sup>2</sup> | Market Transform. Costs <sup>5</sup> | Con/Mod Costs <sup>3</sup> | C&RD CRC Total Costs <sup>4</sup> | Energy WEB & New Initiatives | Other Conser. Expense Costs | TOTAL CONSER. COSTS | Gross Conser. Savings per Red Book |         |   |   |
| 13 |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 14 | 1982   | 66,914  | 61,940                  | 0   | 61,940   |       | 0       | 61,940              | 4,974                      | 4,974                                | 0                          | 0                                 | 0                            | 0                           | 0                   | 66,914                             | 32.4    |   |   |
| 15 | 1983   | 206,999   | 204,092                 | 0   | 204,092  |       | 0       | 204,092             | 2,907                      | 2,907                                | 0                          | 0                                 | 0                            | 0                           | 0                   | 206,999                            | 68.6    |   |   |
| 16 | 1984   | 75,094  | 66,783                  | 0   | 66,783   |       | 0       | 66,783              | 8,311                      | 7,589                                | 0                          | 0                                 | 0                            | 0                           | 722                 | 75,094                             | 16.6    |   |   |
| 17 | 1985   | 127,747   | 103,067                 | 0   | 103,067  |       | 0       | 103,067             | 24,680                     | 20,232                               | 0                          | 0                                 | 0                            | 0                           | 4,448               | 127,747                            | 17.0    |   |   |
| 18 | 1986   | 104,999   | 99,743                  | 2,125   | 97,618   |       | 0       | 97,618              | 5,256                      | 5,256                                | 0                          | 0                                 | 0                            | 0                           | 0                   | 104,999                            | 23.5    |   |   |
| 19 | 1987   | 75,559  | 71,631                  | 4,250   | 67,381   |       | 0       | 67,381              | 3,928                      | 3,928                                | 0                          | 0                                 | 0                            | 0                           | 0                   | 75,559                             | 19.7    |   |   |
| 20 | 1988   | 67,105  | 58,570                  | 4,250   | 54,320   |       | 0       | 54,320              | 8,535                      | 6,654                                | 0                          | 1,881                             | 0                            | 0                           | 0                   | 67,105                             | 53.2    |   |   |
| 21 | 1989   | 63,712  | 46,069                  | 4,250   | 41,819   |       | 0       | 41,819              | 17,643                     | 12,917                               | 0                          | 4,726                             | 0                            | 0                           | 0                   | 63,712                             | 51.7    |   |   |
| 22 | 1990   | 78,079  | 36,220                  | 2,125   | 34,095   |       | 0       | 34,095              | 41,859                     | 5,359                                | 0                          | 6,063                             | 0                            | 0                           | 30,437              | 78,079                             | 38.1    |   |   |
| 23 | 1991   | 89,525  | 45,714                  | 0   | 45,714   |       | 0       | 45,714              | 43,811                     | 5,106                                | 0                          | 6,254                             | 0                            | 0                           | 32,451              | 89,525                             | 19.0    |   |   |
| 24 | 1992   | 130,647   | 62,151                  | 0   | 62,151   |       | 0       | 62,151              | 68,496                     | 4,134                                | 0                          | 4,553                             | 0                            | 0                           | 59,809              | 130,647                            | 37.4    |   |   |
| 25 | 1993   | 156,149   | 96,717                  | 0   | 96,717   |       | 0       | 96,717              | 59,432                     | 8,119                                | 0                          | 4,179                             | 0                            | 0                           | 47,134              | 156,149                            | 59.6    |   |   |
| 26 | 1994   | 180,054   | 121,242                 | 6,212   | 115,030  |       | 0       | 115,030             | 58,812                     | 8,210                                | 0                          | 6,462                             | 0                            | 0                           | 44,140              | 180,054                            | 51.3    |   |   |
| 27 | 1995   | 135,954   | 85,252                  | 12,824  | 72,428   |       | 0       | 72,428              | 50,702                     | 7,915                                | 0                          | 4,045                             | 0                            | 0                           | 38,742              | 135,954                            | 65.9    |   |   |
| 28 | 1996   | 105,806   | 52,274                  | 12,824  | 39,450   |       | 0       | 39,450              | 53,532                     | 7,863                                | 0                          | 4,595                             | 0                            | 0                           | 41,074              | 105,806                            | 56.3    |   |   |
| 29 | 1997   | 60,976  | 32,953                  | 12,624  | 20,329   |       | 0       | 20,329              | 28,023                     | 14,800                               | 3,900                      | 2,744                             | 0                            | 0                           | 6,579               | 60,976                             | 54.7    |   |   |
| 30 | 1998   | 58,877  | 26,331                  | 12,023  | 14,308   |       | 0       | 14,308              | 32,546                     | 12,200                               | 12,000                     | 2,358                             | 0                            | 0                           | 5,988               | 58,877                             | 33.4    |   |   |
| 31 | 1999   | 40,665  | 19,728                  | 6,012   | 13,716   |       | 0       | 13,716              | 20,937                     | 10,571                               | 5,600                      | 280                               | 0                            | 1,400                       | 3,086               | 40,665                             | 33.1    |   |   |
| 32 | 2000   | 15,724  | 347                     | 0   | 347  |       | 0       | 347                 | 15,377                     | 3,077                                | 12,000                     | 0                                 | 0                            | 300                         | 0                   | 15,724                             | 18.2    |   |   |
| 33 | 2001   | 29,205  | 57                      | 0   | 57   |       | 3,688   | (3,631)             | 29,148                     | 6,200                                | 9,600                      | 0                                 | 9,243                        | 1,450                       | 2,655               | 29,205                             | 30.9    |   |   |
| 34 | 2002   | 85,280  | 28,227                  | 0   | 28,227   |       | 28,201  | 26                  | 57,053                     | 6,193                                | 7,750                      | 0                                 | 39,910                       | 3,200                       | 0                   | 85,280                             | 61.0    |   |   |
| 35 | 2003   | 81,625  | 22,900                  | 0   | 22,900   |       | 23,793  | (893)               | 58,725                     | 3,594                                | 9,300                      | 0                                 | 41,439                       | 4,392                       | 0                   | 81,625                             | 53.8    |   |   |
| 36 | 2004   | 68,004  | 19,431                  | 0   | 19,431   |       | 19,117  | 314                 | 48,573                     | 5,315                                | 9,700                      | 0                                 | 32,752                       | 806                         | 0                   | 68,004                             | 51.7    |   |   |
| 37 |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    | (1.9)   |   |   |
| 38 | TOTALS 1982-2004   | 2,104,699   | 1,361,439               | 79,519  | 1,281,920  |       | 74,799  | 1,207,121           | 743,260                    | 173,113                              | 69,850                     | 48,140                            | 123,344                      | 11,548                      | 317,265             | 2,104,699                          | 945.2   |   |   |
| 40 | 2005   | 61,804  | 14,750                  | 0   | 14,750   |       | 14,750  | 0                   | 47,054                     | 8,189                                | 7,956                      | 0                                 | 24,608                       | 602                         | 5,699               | 61,804                             | 38.0    |   |   |
| 41 | 2006   | 62,720  | 14,970                  | 0   | 14,970   |       | 14,970  | 0                   | 47,750                     | 7,577                                | 10,140                     | 0                                 | 19,736                       | 969                         | 9,328               | 62,720                             | 48.5    |   |   |
| 42 | 2007   | 49,585  | 10,725                  | 0   | 10,725   | 6,139 | 4,586   | 0                   | 38,860                     | 7,020                                | 9,925                      | 0                                 | 20,886                       | 1,817                       | (788)               | 49,585                             | 58.2    |   |   |
| 44 | TOTALS 2005-2007   | 174,109   | 40,445                  | 0   | 40,445   | 6,139 | 34,306  | 0                   | 133,664                    | 22,786                               | 28,021                     | 0                                 | 65,230                       | 3,388                       | 14,239              | 174,109                            | 144.7   |   |   |
| 46 | TOTALS 1982-2007   | 2,278,808   | 1,401,884               | 79,519  | 1,322,365  | 6,139 | 109,105 | 1,207,121           | 876,924                    | 195,899                              | 97,871                     | 48,140                            | 188,574                      | 14,936                      | 331,504             | 2,278,808                          | 1,089.9 |   |   |
| 48 | Page 1 of 4  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 50 |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |
| 51 |  |   |                         |   |  |       |         |                     |                            |                                      |                            |                                   |                              |                             |                     |                                    |         |   |   |

|    | T   | U                         | V                           | W                         | X                         | Y                   | Z                   | AA                  | A                        | AC                     |
|----|---|---------------------------|-----------------------------|---------------------------|---------------------------|---------------------|---------------------|---------------------|--------------------------|------------------------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 2  | <b>NET Historical Conservation Savings and Expenditures 1982-2007</b>                   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 3  | <b>With Expenditure Adjustments for ConMod and C&amp;RD</b>                             |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 4  | <b>Savings Adjustments for C&amp;RD, CRC, Market Transformation, and Building Codes</b> |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 5  | <b><u>(\$000)</u><sup>1</sup></b>   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 6  |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 7  |   | <b>Total</b>              | <b>( - )</b>                | <b>( - )</b>              | <b>( - )</b>              |                     |                     |                     |                          |                        |
| 8  |   | <b>Incremental</b>        |                             |                           |                           |                     |                     |                     |                          |                        |
| 9  |   | <b>Costs /</b>            |                             |                           |                           |                     |                     |                     |                          |                        |
| 10 |   | <b>Subtotal</b>           | <b>C&amp;RD<sup>4</sup></b> | <b>ConMod<sup>3</sup></b> | <b>Market</b>             | <b>Adjusted</b>     | <b>Total</b>        | <b>Capitalized</b>  | <b>Net</b>               |                        |
| 11 |   | <b>Cost</b>               | <b>Cost</b>                 | <b>Cost</b>               | <b>Trans.<sup>5</sup></b> | <b>Net Annual</b>   | <b>Expense</b>      | <b>Conservation</b> | <b>Conser.</b>           |                        |
| 12 | <b>Year</b>   | <b><u>Allocations</u></b> | <b><u>Adjustments</u></b>   | <b><u>Adjustments</u></b> | <b><u>Adjustments</u></b> | <b><u>Costs</u></b> | <b><u>Costs</u></b> | <b><u>Costs</u></b> | <b><u>Savings as</u></b> | <b><u>Adjusted</u></b> |
| 13 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 14 | 1982  | 66,914                    | 0                           | 0                         | 0                         | 66,914              | 4,974               | 61,940              | 32.4                     |                        |
| 15 | 1983  | 206,999                   | 0                           | 0                         | 0                         | 206,999             | 2,907               | 204,092             | 68.6                     |                        |
| 16 | 1984  | 75,094                    | 0                           | 0                         | 0                         | 75,094              | 8,311               | 66,783              | 16.6                     |                        |
| 17 | 1985  | 127,747                   | 0                           | 0                         | 0                         | 127,747             | 24,680              | 103,067             | 17.0                     |                        |
| 18 | 1986  | 104,999                   | 0                           | 0                         | 0                         | 104,999             | 5,256               | 99,743              | 23.5                     |                        |
| 19 | 1987  | 75,559                    | 0                           | 0                         | 0                         | 75,559              | 3,928               | 71,631              | 17.2                     |                        |
| 20 | 1988  | 67,105                    | 0                           | (1,881)                   | 0                         | 65,224              | 6,654               | 58,570              | 15.6                     |                        |
| 21 | 1989  | 63,712                    | 0                           | (4,726)                   | 0                         | 58,986              | 12,917              | 46,069              | 20.8                     |                        |
| 22 | 1990  | 78,079                    | 0                           | (6,063)                   | 0                         | 72,016              | 35,796              | 36,220              | 13.2                     |                        |
| 23 | 1991  | 89,525                    | 0                           | (6,254)                   | 0                         | 83,271              | 37,557              | 45,714              | 19.0                     |                        |
| 24 | 1992  | 130,647                   | 0                           | (4,553)                   | 0                         | 126,094             | 63,943              | 62,151              | 37.4                     |                        |
| 25 | 1993  | 156,149                   | 0                           | (4,179)                   | 0                         | 151,970             | 55,253              | 96,717              | 59.6                     |                        |
| 26 | 1994  | 180,054                   | 0                           | (6,462)                   | 0                         | 173,592             | 52,350              | 121,242             | 51.3                     |                        |
| 27 | 1995  | 135,954                   | 0                           | (4,045)                   | 0                         | 131,909             | 46,657              | 85,252              | 65.9                     |                        |
| 28 | 1996  | 105,806                   | 0                           | (4,595)                   | 0                         | 101,211             | 48,937              | 52,274              | 56.3                     |                        |
| 29 | 1997  | 60,976                    | 0                           | (2,744)                   | 0                         | 58,232              | 25,279              | 32,953              | 54.7                     |                        |
| 30 | 1998  | 58,877                    | 0                           | (2,358)                   | 0                         | 56,519              | 30,188              | 26,331              | 33.4                     |                        |
| 31 | 1999  | 40,665                    | 0                           | (280)                     | 0                         | 40,385              | 20,657              | 19,728              | 30.4                     |                        |
| 32 | 2000  | 15,724                    | 0                           | 0                         | 0                         | 15,724              | 15,377              | 347                 | 14.8                     |                        |
| 33 | 2001  | 29,205                    | (9,243)                     | 0                         | 0                         | 19,962              | 19,905              | 57                  | 18.7                     |                        |
| 34 | 2002  | 85,280                    | (39,910)                    | 0                         | 0                         | 45,370              | 17,143              | 28,227              | 26.1                     |                        |
| 35 | 2003  | 81,625                    | (41,439)                    | 0                         | 0                         | 40,186              | 17,286              | 22,900              | 25.2                     |                        |
| 36 | 2004  | 68,004                    | (32,752)                    | 0                         | 0                         | 35,252              | 15,821              | 19,431              | 31.4                     |                        |
| 37 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 38 |   | 2,104,699                 | (123,344)                   | (48,140)                  | 0                         | 1,933,215           | 571,776             | 1,361,439           | 749.1                    |                        |
| 39 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 40 | 2005  | 61,804                    | (24,608)                    | 0                         | 0                         | 37,196              | 22,446              | 14,750              | 20.0                     |                        |
| 41 | 2006  | 62,720                    | (19,736)                    | 0                         | 0                         | 42,984              | 28,014              | 14,970              | 30.2                     |                        |
| 42 | 2007  | 49,585                    | 0                           | 0                         | 0                         | 49,585              | 38,860              | 10,725              | 28.5                     |                        |
| 43 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 44 |   | 174,109                   | (44,344)                    | 0                         | 0                         | 129,765             | 89,320              | 40,445              | 78.7                     |                        |
| 45 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 46 |   | 2,278,808                 | (167,688)                   | (48,140)                  | 0                         | 2,062,980           | 661,096             | 1,401,884           | 827.8                    |                        |
| 47 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 48 | Page 2 of 4   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 49 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 50 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |
| 51 |   |                           |                             |                           |                           |                     |                     |                     |                          |                        |

**BPA's 2010 Wholesale Power Rate Case**  
**NET Historical Conservation Savings and Expenditures 1982-2007**  
**With Expenditure Adjustments for ConMod and C&RD**  
**Savings Adjustments for C&RD, CRC, Market Transformation and Building Codes**

**Notes Concerning Expenditure Adjustments:**

1. Dollar costs for FY1982-2007 are in nominal dollars associated with the year of expenditure. Costs for FY1982-2004 were obtained from Table D of the 2005 Conservation Resource Energy Data, "The Red Book." Costs for FY2005-2007 were obtained from Table D of the 2007 Red Book.
2. Support costs are non-sector specific and consist of resource planning costs through FY 1987, Research Development & Demonstration, prior year adjustments, education efforts, and environmental conservation costs.
3. As previously noted in the table of Gross Conservation Savings, The 2005 Red Book totals have excluded the savings from ConMod Conservation investments that were placed primarily with the aluminum reduction industry. Since most of these plants are no longer operating, and since the amount of load that BPA might serve is not known with a high degree of certainty, the conservation savings from these past investments is not available to reduce loads in the 2010-2015 time period of the 7(b)(2) rate test. The expenditures for ConMod investments were left in the Red Book to meet the Red Book's objective of accounting for all the costs of acquiring conservation savings. The expenditures for past ConMod investments has been removed from the expenditure totals that are included in the 7(b)(2) resource stack.
4. The C&RD investments were costs that were not included in BPA's revenue requirement in determining "base" rate levels for years prior to 2007. They were added after the determination of base rates and were credited back to customers as credits on their power bills in return for agreeing to invest the money in conservation efforts or renewable resources. The controls surrounding the achievement of this conservation during the 2002-2006 time period was less than past practices making the savings from these expenditures less assured. The majority of the utilities participating in this program were not "load following" customers and the Administrator's load obligations to these customers was not reduced (no decrementing of contract obligations occurred). For these reasons the savings and expenditures associated with the C&RD program for 2002-2006 was "netted" out of those years conservation efforts.

No reduction in expenditures for the CRC program for FY 2007 were made. Unlike the FY2002-2006 time period when the C&RD costs were not included in the revenue requirement, the WP-07 revenue requirement included CRC costs. The rates charged all BPA customers included CRC costs. It would be inequitable and not feasible to conduct a CRC program where only load-following customers were eligible to participate. In order to achieve the conservation savings that occur in the service territories of full-requirements customers, BPA also needs to undertake the CRC program for BPA's other customers who pay for CRC costs. In order for BPA and it's customers to meet their portion of the NWPPC's regional targets, the total expenditures for CRC are required to be incurred. The controls surrounding documentation and verification of CRC savings were also improved compared to the controls and verification procedures that pertained to the C&RD program prior to FY 2007. As outlined in Note 3 to the "BPA 1982-2007 Historical Programmatic Conservation - After Adjustments" worksheet, 53% of the saving attributable to FY 2007 CRC efforts were attributable to non-load following loads that were not decremented for the savings achieved. These non-load following savings were removed from the 7(b)(2) resource stack for FY2007.

**BPA's 2010 Wholesale Power Rate Case**  
**NET Historical Conservation Savings and Expenditures 1982-2007**  
**With Expenditure Adjustments for ConMod and C&RD**  
**Savings Adjustments for C&RD, CRC, Market Transformation and Building Codes**

**Notes Concerning Expenditure Adjustments - Continued:**

5. BPA's market transformation efforts have been achieved through the Northwest Energy Efficiency Alliance (NEEA) for the most part during this period of time. NEEA's market transformation efforts cover the entire Pacific Northwest Region and beyond. BPA paid for approximately one-half of NEEA's operating budgets during the 1997-2007 time frame. The expenditures that BPA pays NEEA has only a partial impact on reducing the Administrator's load obligation. The market transformation savings were reduced by 67%, see this calculation at Note 3 to the worksheet "BPA 1982-2007 Programmatic Conservation - After Adjustments." The amount of market transformation expenditures were not reduced. The reason for this is the fact that the amount that BPA paid NEEA was so material in amount, that it was critical in sustaining market transformation efforts in the region. In order to achieve the 33% of savings that were included in the savings total, BPA would have needed to fund the program at approximately the same level.
6. Adjustments were made to remove the savings attributable to building codes for the years after 2001. It was thought that the benefits from earlier BPA expenditures to achieve Model Energy Code standards had largely been achieved by this time. The savings for the 7(b)(2) resource stack should be conservatively stated with a high degree of assurance that the conservation savings would be able to reduce loads. No direct expenditures by BPA for building code efforts occurred during FY2002-2007, so no expenditure adjustments are necessary.
7. The historical expenditures reflected in the annual expenditure totals contained in the Red Book contain the direct costs along with indirect and overhead costs that were necessary to acquire the conservation savings reported for the year. The expenditure totals do not contain any costs associated with the financing of conservation efforts. The rates analysis model (RAM) finances that portion of a year's conservation expenditures that were capitalized using a 15-year amortization and financing period. The interest rates used to finance conservation investments in the 7(b)(2) Case are based on the Financing Study results on the interest rates that would apply to a Joint Operating Agency formed to undertake these investments on behalf of the 7(b)(2) Customers that was prepared by BPA's financial advisor for the rate case. The first-year expensed costs associated with conservation investments are treated as deferred charges under SFAS No. 71 and are amortized and financed over a one to fifteen-year period. The interest rates used to finance the first-year expensed costs were based on Public Financial Management's financing study for the WP-10 rate case.

|    |  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
|----|--|--------------------|------------|-----------|-----------|--------------------|------------|--------------------|---|---|---|----------------|----------------------|---------|------------|--------------|----------|---|------------------|
|    | A  | B                  | C          | D         | E         | F                  | G          | H                  | I | J | K | L              | M                    | N       | O          | P            | Q        | R | S                |
| 1  | BPA's 2010 Wholesale Power Rate Case   |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 2  | Gross Projected BPA Conservation Program Expenditures - Program Case Rates - FY 2008 - FY 2015 |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 3  | (\$1,000)  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 4  |  |                    |            |           | Total     |                    |            |                    |   |   |   |                |                      |         | Projected  |              |          |   | Total            |
| 5  |  | Energy             |            |           | Staffing, |                    |            |                    |   |   |   | Infrastructure | Direct               | Total   | Period     |              |          |   | Projected        |
| 6  |  | Efficiency         | Indirect & | Corporate | Indirect, | Market             | Expense    |                    |   |   |   | Support &      | Acquisition          | Direct  | Costs      | Capitalized/ |          |   | Conservation     |
| 7  |  | Staffing           | Overhead   | G&A       | & G&A     | Transformation     | Agreements | CRC                |   |   |   | Evaluation     | Capital              | Program | Energy     | Debt         |          |   | Savings          |
| 8  |  | Costs              | Costs      | Costs     | Costs     | Costs              | & Grants   | Costs              |   |   |   | Costs          | Costs <sup>1</sup>   | Costs   | Efficiency | Financed     | Expensed |   | aMW              |
| 10 | 2008   | 7,026              | 1,450      | 9,926     | 18,402    | 9,353              | 4,135      | 26,327             |   |   |   | 4,176          | 7,876                | 51,867  | 70,269     | 7,876        | 62,393   |   | 58.3             |
| 11 | 2009   | 7,848              | 3,092      | 9,859     | 20,799    | 10,000             | 5,812      | 32,000             |   |   |   | 7,000          | 27,200               | 82,012  | 102,811    | 27,200       | 75,611   |   | 58.8             |
| 12 | 2010   | 8,046              | 3,554      | 10,946    | 22,546    | 12,000             | 5,000      | 32,000             |   |   |   | 14,000         | 32,300               | 95,300  | 117,846    | 32,300       | 85,546   |   | 48.2             |
| 13 | 2011   | 8,330              | 3,779      | 11,154    | 23,263    | 12,000             | 5,000      | 32,000             |   |   |   | 14,000         | 39,100               | 102,100 | 125,363    | 39,100       | 86,263   |   | 51.6             |
| 14 | 2012   | 8,624              | 4,130      | 11,728    | 24,482    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 137,082    | 47,600       | 89,482   |   | 55.8             |
| 15 | 2013   | 8,923              | 4,210      | 12,124    | 25,257    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 137,857    | 47,600       | 90,257   |   | 55.8             |
| 16 | 2014   | 9,232              | 4,297      | 12,483    | 26,012    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 138,612    | 47,600       | 91,012   |   | 55.8             |
| 17 | 2015   | 9,537              | 4,508      | 12,901    | 26,946    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 139,546    | 47,600       | 91,946   |   | 55.8             |
| 19 | Totals   | 67,566             | 29,020     | 91,121    | 187,707   | 91,353             | 43,947     | 250,327            |   |   |   | 99,176         | 296,876              | 781,679 | 969,386    | 296,876      | 672,510  |   | 440.1            |
| 21 |  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 22 | NET BPA Conservation Program - Section 7 (b)(2) - Projected Expenditures                       |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 23 | NET EXPENDITURES - 2008-2015   |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 24 | (\$1,000)  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 25 |  |                    |            |           | Total     |                    |            |                    |   |   |   |                |                      |         | Projected  |              |          |   | Total            |
| 26 |  | Energy             |            |           | Staffing, |                    |            |                    |   |   |   | Infrastructure |                      | Total   | Period     |              |          |   | Projected        |
| 27 |  | Efficiency         | Indirect & | Corporate | Indirect, | Market             | Expense    |                    |   |   |   | Support &      | Acquisition          | Direct  | Costs      | Capitalized/ |          |   | Conservation     |
| 28 |  | Staffing           | Overhead   | G&A       | & G&A     | Transformation     | Agreements | CRC                |   |   |   | Evaluation     | Capital              | Program | Energy     | Debt         |          |   | Savings          |
| 29 |  | Costs <sup>1</sup> | Costs      | Costs     | Costs     | Costs <sup>4</sup> | & Grants   | Costs <sup>3</sup> |   |   |   | Costs          | Costs <sup>1,2</sup> | Costs   | Efficiency | Financed     | Expensed |   | aMW <sup>5</sup> |
| 31 | 2008   | 7,026              | 1,450      | 9,926     | 18,402    | 9,353              | 4,135      | 26,327             |   |   |   | 4,176          | 7,876                | 51,867  | 70,269     | 7,876        | 62,393   |   | 34.8             |
| 32 | 2009   | 7,848              | 3,092      | 9,859     | 20,799    | 10,000             | 5,812      | 32,000             |   |   |   | 7,000          | 27,200               | 82,012  | 102,811    | 27,200       | 75,611   |   | 40.1             |
| 33 | 2010   | 8,046              | 3,554      | 10,946    | 22,546    | 12,000             | 5,000      | 32,000             |   |   |   | 14,000         | 32,300               | 95,300  | 117,846    | 32,300       | 85,546   |   | 31.2             |
| 34 | 2011   | 8,330              | 3,779      | 11,154    | 23,263    | 12,000             | 5,000      | 32,000             |   |   |   | 14,000         | 39,100               | 102,100 | 125,363    | 39,100       | 86,263   |   | 34.6             |
| 35 | 2012   | 8,624              | 4,130      | 11,728    | 24,482    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 137,082    | 47,600       | 89,482   |   | 38.8             |
| 36 | 2013   | 8,923              | 4,210      | 12,124    | 25,257    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 137,857    | 47,600       | 90,257   |   | 38.8             |
| 37 | 2014   | 9,232              | 4,297      | 12,483    | 26,012    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 138,612    | 47,600       | 91,012   |   | 38.8             |
| 38 | 2015   | 9,537              | 4,508      | 12,901    | 26,946    | 12,000             | 6,000      | 32,000             |   |   |   | 15,000         | 47,600               | 112,600 | 139,546    | 47,600       | 91,946   |   | 38.8             |
| 40 | Totals   | 67,566             | 29,020     | 91,121    | 187,707   | 91,353             | 43,947     | 250,327            |   |   |   | 99,176         | 296,876              | 781,679 | 969,386    | 296,876      | 672,510  |   | 295.9            |
| 42 | Difference in Conservation Expenditures and Savings Contained in Resource Stack                |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         | \$0        |              | 144.2    |   |                  |
| 44 |  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 46 |  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |
| 47 |  |                    |            |           |           |                    |            |                    |   |   |   |                |                      |         |            |              |          |   |                  |



**BPA's 2010 Wholesale Power Rate Case**  
**Projected Conservation GROSS and NET EXPENDITURES - 2008-2015**  
**Net BPA Conservation Program - Section 7 (b)(2) Amounts**

**Notes - Adjustments Made to BPA's Conservation Program Expenditure Amounts to**  
Arrive at Section 7 (b)(2) Amounts

1. Dollar costs are in the nominal dollars associated with the year of expenditure. The expenditure projections for the years 2009-2011 come from BPA's Conservation Program Proposals that were finalized in the Integrated Program Review process. The expenditure projections for 2012-2015 were based on the assumption that the conservation program design for 2009-2011 continued during these four years. BPA's Direct Acquisition capital expenditures established in the IPR process were reduced by a "lapse factor" amount that reflects past historical performance in obligating these expenditures during the budget year and to meet agency wide borrowing targets. The Direct Acquisition Conservation Capital Expenditure amounts established in the IPR process, the lapse factor reduction amounts, and the net amount of these capital expenditures that are contained in the Program Case Revenue Requirement Assumptions are outlined in the table below:

Conservation Direct Acquisition Capital Costs:

|             | IPR Budget    | Lapse<br>Factor  | Program<br>Case |
|-------------|---------------|------------------|-----------------|
| <u>Year</u> | <u>Amount</u> | <u>Reduction</u> | <u>Amount</u>   |
| 2008        | 7,876         | 0                | 7,876           |
| 2009        | 32,000        | 4,800            | 27,200          |
| 2010        | 38,000        | 5,700            | 32,300          |
| 2011        | 46,000        | 6,900            | 39,100          |
| 2012        | 56,000        | 8,400            | 47,600          |
| 2013        | 56,000        | 8,400            | 47,600          |
| 2014        | 56,000        | 8,400            | 47,600          |
| 2015        | 56,000        | 8,400            | 47,600          |

The conservation Direct Acquisition Capital Cost amounts contained in the 7(b)(2) Rate Test resource stack are consistent with the amounts contained in the Program Case Revenue Requirement.

Projected conservation costs for FY 2008 will be revised for the Final Rate Case Proposal based on 2008 Conservation Resource Energy Data, "The Red Book," which will be published in the spring of FY 2009. The projected conservation costs for FY 2010-2015 will be revised for the final conservation spending levels that are developed in the IPR - 2 Process which will also conclude in the spring of FY 2009. These revised amounts will be used in the Final Rate Case Proposal.

2. Debt service costs are not present in the 7(b)(2) Case Expenditure Table. Annual debt service costs are included in the annual revenue requirements for each year by the Rates Analysis Model for the 7(b)(2) Case using the interest rate projections provided by BPA's Financial Advisor associated with the hypothetical Joint Operating Agency's financing of conservation resources in performing the Section 7(b)(2) rate test.

**BPA's 2010 Wholesale Power Rate Case**  
**Projected Conservation GROSS and NET EXPENDITURES - 2008-2015**  
**Net BPA Conservation Program - Section 7 (b)(2) Amounts**

**Notes - Adjustments Made to BPA's Conservation Program Expenditure Amounts to**  
**Arrive at Section 7 (b)(2) Amounts - continued**

3. No reduction in expenditures for the CRC program were made. The rates charged all BPA customers for FYs 2008-2015 included CRC costs. It would be inequitable and not feasible to conduct a CRC program where only load-following customers were eligible to participate. In order to achieve the conservation savings that occur in the service territories of full-requirements customers, BPA also needs to undertake the CRC program for BPA's other customers who pay for CRC costs. In order for BPA and its customers to meet their portion of the NWPPC's regional targets, the total expenditures for CRC are required to be incurred.
4. BPA's market transformation efforts are being achieved through the Northwest Energy Efficiency Alliance (NEEA) during the 2010-2015 period of time. NEEA's market transformation efforts cover the entire Pacific Northwest Region and beyond. BPA is projected to pay for approximately one-half of NEEA's operating budgets during this time frame. The expenditures that BPA pays NEEA has only a partial impact on reducing the Administrator's load obligation. The market transformation savings were reduced by sixty-four percent for the years 2008-2015, see Note 3 to the table, "Net BPA Projected Conservation Program Savings - 2008-2015 - Section 7(b)(2) Amounts."

The amount of market transformation expenditures were not reduced. The reason for this is the fact that the amount that BPA is projected to pay NEEA is so material in amount, that it is critical in sustaining market transformation efforts in the region. In order to achieve the 33% of savings that were included in the savings total, BPA would have needed to fund the program at approximately the same level.

5. The Net Conservation Savings for the years 2008-2015 are outlined in the table titled, "Net BPA Projected Conservation Program Savings - 2008-2015 - Section 7(b)(2) Amounts." Program Savings - Section 7 (b)(2) Amounts."

|    | A   | B | C                  | D                  | E                  | F                  | G                  | H                  | I                  | J                  | K                        | L      |
|----|---|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|--------|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>                             |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 2  | <b>BPA Projected Conservation Program Savings - 2008-2015</b>           |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 3  | <b>Net BPA Conservation Program Savings - Section 7 (b)(2) Amounts</b>  |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 4  | <b>aMW<sup>1</sup></b>  |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 5  |   |   |                    |                    |                    |                    |                    |                    |                    |                    | <b><u>Cumulative</u></b> |        |
| 6  |   |   | <b><u>2008</u></b> | <b><u>2009</u></b> | <b><u>2010</u></b> | <b><u>2011</u></b> | <b><u>2012</u></b> | <b><u>2013</u></b> | <b><u>2014</u></b> | <b><u>2015</u></b> | <b><u>Totals</u></b>     |        |
| 7  |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 8  | <u>Projected Conservation Program - Gross Saving Amounts:</u>           |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 9  | CRC - Non-decrement <sup>2</sup>  |   | 11.1               | 9.3                | 9.3                | 9.3                | 9.3                | 9.3                | 9.3                | 9.3                |                          | 76.2   |
| 10 | CRC - Equivalent-decrement <sup>2</sup>                                 |   | 12.6               | 10.7               | 10.7               | 10.7               | 10.7               | 10.7               | 10.7               | 10.7               |                          | 87.5   |
| 11 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          | 163.7  |
| 12 | Conservation Acquisition -  |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 13 | Bi-lateral Contracts <sup>1</sup>                                       |   | 8.0                | 18.7               | 16.2               | 19.6               | 23.8               | 23.8               | 23.8               | 23.8               |                          | 157.7  |
| 14 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 15 | Market Trans.- Non-decrement <sup>3</sup>                               |   | 12.4               | 9.4                | 7.7                | 7.7                | 7.7                | 7.7                | 7.7                | 7.7                |                          | 68.0   |
| 16 | Market Trans.- Equivalent-decrement <sup>3</sup>                        |   | 14.2               | 10.7               | 4.3                | 4.3                | 4.3                | 4.3                | 4.3                | 4.3                |                          | 50.7   |
| 17 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          | 118.7  |
| 18 | Total Projected Conservation Savings -                                  |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 19 | Program Case  |   | 58.3               | 58.8               | 48.2               | 51.6               | 55.8               | 55.8               | 55.8               | 55.8               |                          | 440.1  |
| 20 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 21 | <u>Net BPA Conservation Program Savings - Section 7 (b)(2) Amounts:</u> |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 22 | Less CRC Non-Decrement <sup>2</sup>                                     |   | (11.1)             | (9.3)              | (9.3)              | (9.3)              | (9.3)              | (9.3)              | (9.3)              | (9.3)              |                          | (76.2) |
| 23 | Less Market Trans.- Non-decrement <sup>3</sup>                          |   | (12.4)             | (9.4)              | (7.7)              | (7.7)              | (7.7)              | (7.7)              | (7.7)              | (7.7)              |                          | (68.0) |
| 24 | Net Conservation Savings for  |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 25 | Section 7(b)(2) Case Rates  |   | 34.8               | 40.1               | 31.2               | 34.6               | 38.8               | 38.8               | 38.8               | 38.8               |                          | 295.9  |
| 26 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 27 | 1/ See the footnote explanations on the following page D-23.            |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 28 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 29 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 30 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |
| 31 |   |   |                    |                    |                    |                    |                    |                    |                    |                    |                          |        |

**BPA's 2010 Wholesale Power Rate Case**  
**BPA Projected Conservation Program Savings - 2008-2015**  
**Net BPA Projected Conservation Program Savings - 2008-2015 - Section 7 (b)(2) Amounts**

**Notes - Adjustments Made to BPA's Conservation Program Savings Amounts to**  
**Arrive at Savings Available to Reduce Loads per the Section 7 (b)(2) Rate Test**

1. The conservation savings projections for FY 2008 are based on preliminary budget projections, the actual historical amounts for this year will be determined in the process of compiling the historical conservation savings and related expenditure amounts in the production of the FY 2008 Conservation Resource Energy Data document, "The Red Book," that will be published in the spring of FY 2009. The conservation saving projections for the years 2009-2011 come from BPA's Conservation Program Proposals that were finalized in the Integrated Program Review process and were adjusted for the "lapse factor" adjustment that was applied to Conservation Direct Acquisition Capital program amounts as explained at Note-1 to the worksheet titled, "Projected Conservation GROSS and NET EXPENDITURES - 2008-2015." The savings projections for 2012-2015 were based on the assumption that the conservation program design for 2009-2011 continued during the FY2012-2015 time period.

The projected conservation savings amounts for FY 2010-2015 will be revised for the final conservation spending levels that are developed in the IPR - 2 Process which will conclude in the spring of FY 2009. These revised amounts will be used in the Final Rate Case Proposal.

2. Non-load following customer contracted power amounts (customers who purchase the slice and block power products) enjoy the benefit of CRC power bill credits and the resulting savings associated with the purchase of conservation measures in their service areas with the proceeds of these credits. The Administrator's load obligations to these utilities is not reduced for these savings, (contract power amounts have not been decremented for the conservation savings) thus BPA does not receive a direct benefit from CRC expenditures associated with non-load following customers. BPA does receive a direct benefit from load following customers associated with the conservation that occurs in those utility's service territories. Because BPA does not receive a load reduction benefit from expenditures and savings associated with non-load following loads, the portion of the CRC savings attributable to non-load following utilities has been removed from the Section 7(b)(2) resource stack. The reduction in conservation savings attributable to non-load following customer areas is estimated at forty-seven percent based on BPA's forecasted load amounts presented below:

|  |              |             |
|--|--------------|-------------|
| BPA's forecasted load following loads - FY2010     | 4,013        | 53%         |
| BPA's forecasted non-load following loads - FY2010 | 3,520        | 47%         |
| <b>BPA's total forecasted loads - FY2010</b>       | <b>7,533</b> | <b>100%</b> |

3. BPA's market transformation efforts have been achieved through the Northwest Energy Efficiency Alliance (NEEA) for the most part during this period of time. NEEA's market transformation efforts cover the entire Pacific Northwest Region and beyond. BPA paid for approximately one-half of NEEA's operating budgets during the 1999-2008 time frame. BPA plans to continue funding NEEA's efforts through the 2015 time period at the same level of support. BPA's "Red Book" claims one-half of the regional savings attributable to NEEA's efforts commensurate with it's level of funding. The expenditures that BPA pays NEEA however, has only a partial impact on reducing the Administrator's load obligations. The amount of load reduction from these expenditures is calculated as follows:

**BPA's 2010 Wholesale Power Rate Case**  
**BPA Projected Conservation Program Savings - 2008-2015**  
**Net BPA Projected Conservation Program Savings - 2008-2015 - Section 7 (b)(2) Amounts**

**Notes Concerning Conservation Savings Adjustments - Continued:**

BPA Forecasted FY 2010 Loads:

|                              |                    |                |
|------------------------------|--------------------|----------------|
| Load Following Customers     | 4,013.0 aMW        | 53.27%         |
| Non-Load Following Customers | <u>3,520.0 aMW</u> | <u>46.73%</u>  |
| <b>Totals</b>                | <b>7,533.0 aMW</b> | <b>100.00%</b> |

|   |              |         |
|---|--------------|---------|
| Forecasted FY 2010 <u>Regional Loads</u> (No DSI's) | 22,222.0 aMW | 100.00% |
| BPA's Forecasted FY 2010 Loads (No DSI's)           | 7,533.0 aMW  | 33.90%  |

Of the total BPA forecasted loads for FY 2010 of 7,533aMW (33.9% of total regional loads), there is no reduction in contracted power purchases for BPA's non-load following customers associated with conservation savings in their service territories. No reduction of purchased power amounts in slice and block power purchase contracts due to NEEA savings were made during this period of time, and no decrements are forecasted for the 2010-2015 time period. For every megawatt of conservation savings that is achieved by NEEA's market transformation efforts, BPA's load obligations are reduced by approximately 18 percent (34% of 53%). Because BPA only claims half of the NEEA savings it is necessary to adjust the calculation below that is based on total regional loads by doubling the final savings amount. The adjustment necessary to reflect the savings associated with the reduction in BPA's contract power obligations, requires that the total savings from Market Transformation efforts be reduced by 64%. This percentage is derived by doubling the 18% above and subtracting this total from 100% of the gross savings contained in the Red Book ( $100\% - (2 \times 18\%) = 64\%$ ).

4. In summary, the following adjustments were made to the conservation savings projected for the years 2008-2015:

|                               |                         |
|-------------------------------|-------------------------|
| CRC Savings                   | 76.2 aMW                |
| Market Transformation Savings | <u>68.0 aMW</u>         |
|                               | <b><u>144.2 aMW</u></b> |

The total projected conservation savings that will be achieved by BPA's Conservation Program for FYs 2008-2015 is 440.1 aMW. The total savings included in the 7(b)(2) resource stack for those years is 295.9 aMW.

|    | A  | B                   | C | D                  | E | F                  | G | H                    | I                        | J |
|----|--|---------------------|---|--------------------|---|--------------------|---|----------------------|--------------------------|---|
| 1  | <b>BPA's 2010 Wholesale Power Rate Case</b>  |                     |   |                    |   |                    |   |                      |                          |   |
| 2  | <b>BPA Programmatic Conservation - Net Historical &amp; Projected Savings and Expenditures</b>                           |                     |   |                    |   |                    |   |                      |                          |   |
| 3  | <b>BPA 2010 Rate Case - 7(b)(2) Resource Stack</b>   |                     |   |                    |   |                    |   |                      |                          |   |
| 4  | <b>Nominal Dollars Corresponding to the Historical Year of Acquisition</b>   |                     |   |                    |   |                    |   |                      |                          |   |
| 5  |  |                     |   |                    |   |                    |   |                      |                          |   |
| 6  | <b>(\$ 000)</b>  |                     |   |                    |   |                    |   |                      |                          |   |
| 7  |  |                     |   |                    |   |                    |   |                      |                          |   |
| 8  |  |                     |   |                    |   | <b>Amount</b>      |   |                      | <b>Capitalized</b>       |   |
| 9  |  | <b>Conservation</b> |   | <b>Amount</b>      |   | <b>Capitalized</b> |   | <b>NET</b>           | <b>Amortization</b>      |   |
| 10 |  | <b>Savings</b>      |   | <b>Revenue</b>     |   | <b>&amp; Debt</b>  |   | <b>Annual</b>        | <b>Period</b>            |   |
| 11 |  | <b>aMW</b>          |   | <b>Expensed</b>    |   | <b>Financed</b>    |   | <b>Expenditures</b>  | <b>Years<sup>2</sup></b> |   |
| 12 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 13 | 2001 Conservation  | 18.7                |   | 19,905.0           |   | 57.0               |   | 19,962.0             | 15                       |   |
| 14 | 2002 Conservation  | 26.1                |   | 17,143.0           |   | 28,227.0           |   | 45,370.0             | 15                       |   |
| 15 | 2003 Conservation  | 25.2                |   | 17,286.0           |   | 22,900.0           |   | 40,186.0             | 15                       |   |
| 16 | 2004 Conservation  | 31.4                |   | 15,821.0           |   | 19,431.0           |   | 35,252.0             | 15                       |   |
| 17 | 2005 Conservation  | 20.0                |   | 22,446.0           |   | 14,750.0           |   | 37,196.0             | 15                       |   |
| 18 | 2006 Conservation  | 30.2                |   | 28,014.0           |   | 14,970.0           |   | 42,984.0             | 15                       |   |
| 19 | 2007 Conservation  | 28.5                |   | 38,860.0           |   | 10,725.0           |   | 49,585.0             | 15                       |   |
| 20 | 2008 Conservation  | 34.8                |   | 62,393.0           |   | 7,876.0            |   | 70,269.0             | 15                       |   |
| 21 | 2009 Conservation  | 40.1                |   | 75,611.0           |   | 27,200.0           |   | 102,811.0            | 15                       |   |
| 22 | <b>Subtotal<sup>1</sup></b>  | <b>255.0</b>        |   |                    |   |                    |   |                      |                          |   |
| 23 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 24 | 2010 Conservation  | 31.2                |   | 85,546.0           |   | 32,300.0           |   | 117,846.0            | 15                       |   |
| 25 | 2011 Conservation  | 34.6                |   | 86,263.0           |   | 39,100.0           |   | 125,363.0            | 15                       |   |
| 26 | 2012 Conservation  | 38.8                |   | 89,482.0           |   | 47,600.0           |   | 137,082.0            | 15                       |   |
| 27 | 2013 Conservation  | 38.8                |   | 90,257.0           |   | 47,600.0           |   | 137,857.0            | 15                       |   |
| 28 | 2014 Conservation  | 38.8                |   | 91,012.0           |   | 47,600.0           |   | 138,612.0            | 15                       |   |
| 29 | 2015 Conservation  | 38.8                |   | 91,946.0           |   | 47,600.0           |   | 139,546.0            | 15                       |   |
| 30 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 31 | <b>Cumulative Savings</b>  |                     |   |                    |   |                    |   |                      |                          |   |
| 32 |  | <b>476.0</b> aMW    |   | <b>\$831,985.0</b> |   | <b>\$407,936.0</b> |   | <b>\$1,239,921.0</b> |                          |   |
| 33 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 34 | <b>Percentages</b>   |                     |   | <b>67.10%</b>      |   | <b>32.90%</b>      |   | <b>100.00%</b>       |                          |   |
| 35 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 36 | <b>Notes:</b>  |                     |   |                    |   |                    |   |                      |                          |   |
| 37 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 38 | <b>Note 1</b> - The amount of conservation in the resource stack for FY2001-2009 (255.0 aMW) together with billing       |                     |   |                    |   |                    |   |                      |                          |   |
| 39 | credit resources contained in the resource stack of 10.1 aMW establish the amount of the load resource balance           |                     |   |                    |   |                    |   |                      |                          |   |
| 40 | difference between the Program Case and the 7(b)(2) Case at the start of the Rate Test Period amounting to               |                     |   |                    |   |                    |   |                      |                          |   |
| 41 | 265.1 aMW.   |                     |   |                    |   |                    |   |                      |                          |   |
| 42 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 43 | <b>Note 2</b> - Historical conservation investments that occurred prior to FY 2001 will have been fully amortized before |                     |   |                    |   |                    |   |                      |                          |   |
| 44 | the end of the rate test period in FY 2015 based on a composite useful life of 15 years in the 7(b)(2) Case. These       |                     |   |                    |   |                    |   |                      |                          |   |
| 45 | resources are viewed as obsolete conservation investments that are not includable in the 7(b)(2) resource stack.         |                     |   |                    |   |                    |   |                      |                          |   |
| 46 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 47 | <b>Note 3</b> - Projected conservation costs and related conservation savings amounts for FY 2008 will be revised for    |                     |   |                    |   |                    |   |                      |                          |   |
| 48 | the Final Rate Case Proposal based on 2008 Conservation Resource Energy Data, "The Red Book," which                      |                     |   |                    |   |                    |   |                      |                          |   |
| 49 | will be published in the spring of FY 2009. The projected conservation costs and related savings amounts for             |                     |   |                    |   |                    |   |                      |                          |   |
| 50 | FY 2010-2015 will be revised for the final conservation spending levels that are developed in the IPR - 2                |                     |   |                    |   |                    |   |                      |                          |   |
| 51 | process which will also conclude in the spring of FY 2009. These revised amounts will be used in the Final               |                     |   |                    |   |                    |   |                      |                          |   |
| 52 | Rate Case Proposal.  |                     |   |                    |   |                    |   |                      |                          |   |
| 53 |  |                     |   |                    |   |                    |   |                      |                          |   |
| 54 |  |                     |   |                    |   |                    |   |                      |                          |   |

## **APPENDIX E**

### Residential Exchange Program Average System Cost

#### Summary Tables

Table 1: Contract System Cost

Table 2: Contract System Load

Table 3: Average System Cost (ASC)

Table 4: Residential and Small Farm Exchange Loads

Table 5: Escalation Factors

### Section 7(b)(2) Rate Test Study and Documentation

WP-10 Initial Rate Proposal

WP-10-E-BPA-06

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|    | A  | B                  | C                | D                | E                | F                |
|----|--|--------------------|------------------|------------------|------------------|------------------|
| 1  | <b>Appendix E</b>                                  |                    |                  |                  |                  |                  |
| 2  | <b>Table 1: Utility Contract System Cost</b>       |                    |                  |                  |                  |                  |
| 3  |  | <b>Rate Period</b> | <b>FY 2012</b>   | <b>FY 2013</b>   | <b>FY 2014</b>   | <b>FY 2015</b>   |
| 4  |  |                    |                  |                  |                  |                  |
| 5  | <b>Avista</b>                                      | \$ 501,406,377     | \$ 530,466,520   | \$ 548,140,453   | \$ 567,615,707   | \$ 592,130,944   |
| 6  | <b>Franklin PUD</b>                                | \$ 44,988,121      | \$ 45,395,809    | \$ 47,079,772    | \$ 48,718,213    | \$ 50,471,050    |
| 7  | <b>Idaho Power Company</b>                         | \$ 633,171,366     | \$ 675,334,879   | \$ 690,546,762   | \$ 711,795,327   | \$ 733,279,504   |
| 8  | <b>Pacificorp</b>                                  | \$ 1,185,284,965   | \$ 1,171,841,768 | \$ 1,183,579,295 | \$ 1,236,527,476 | \$ 1,296,314,551 |
| 9  | <b>Portland General Electric</b>                   | \$ 1,180,832,250   | \$ 1,243,785,942 | \$ 1,280,444,383 | \$ 1,320,343,161 | \$ 1,363,011,975 |
| 10 | <b>Puget Sound Energy</b>                          | \$ 1,560,886,670   | \$ 1,633,879,342 | \$ 1,678,992,404 | \$ 1,729,102,958 | \$ 1,783,823,881 |
| 11 | <b>NorthWest Energy</b>                            | \$ 343,121,799     | \$ 364,781,861   | \$ 376,760,581   | \$ 389,835,771   | \$ 403,595,258   |
| 12 | <b>Snohomish PUD</b>                               | \$ 336,377,039     | \$ 358,957,291   | \$ 369,651,684   | \$ 380,139,259   | \$ 391,255,827   |
| 13 |  |                    |                  |                  |                  |                  |
| 14 |  |                    |                  |                  |                  |                  |
| 15 | <b>Table 2: Utility Contract System Load (MWh)</b> |                    |                  |                  |                  |                  |
| 16 |  | <b>Rate Period</b> | <b>FY 2012</b>   | <b>FY 2013</b>   | <b>FY 2014</b>   | <b>FY 2015</b>   |
| 17 |  |                    |                  |                  |                  |                  |
| 18 | <b>Avista</b>                                      | 9,907,952          | 10,202,083       | 10,392,785       | 10,641,644       | 10,939,225       |
| 19 | <b>Franklin PUD</b>                                | 1,057,226          | 1,082,349        | 1,098,050        | 1,113,979        | 1,130,139        |
| 20 | <b>Idaho Power Company</b>                         | 16,131,971         | 16,550,946       | 16,692,234       | 16,882,146       | 17,052,982       |
| 21 | <b>Pacificorp</b>                                  | 22,915,726         | 23,261,468       | 23,493,469       | 23,963,339       | 24,442,606       |
| 22 | <b>Portland General Electric</b>                   | 19,698,019         | 20,173,077       | 20,538,686       | 20,964,841       | 21,384,009       |
| 23 | <b>Puget Sound Energy</b>                          | 24,168,246         | 24,823,945       | 25,238,407       | 25,688,501       | 26,158,159       |
| 24 | <b>NorthWest Energy</b>                            | 6,287,433          | 6,407,964        | 6,490,111        | 6,573,472        | 6,658,067        |
| 25 | <b>Snohomish PUD</b>                               | 7,401,574          | 7,553,461        | 7,622,038        | 7,686,464        | 7,753,118        |
| 26 |  |                    |                  |                  |                  |                  |
| 27 |  |                    |                  |                  |                  |                  |
| 28 | <b>Table 3: Utility ASC (\$/MWh)</b>               |                    |                  |                  |                  |                  |
| 29 |  | <b>Rate Period</b> | <b>FY 2012</b>   | <b>FY 2013</b>   | <b>FY 2014</b>   | <b>FY 2015</b>   |
| 30 |  |                    |                  |                  |                  |                  |
| 31 | <b>Avista</b>                                      | 50.61              | 52.00            | 52.74            | 53.34            | 54.13            |
| 32 | <b>Franklin PUD</b>                                | 42.55              | 41.94            | 42.88            | 43.73            | 44.66            |
| 33 | <b>Idaho Power Company</b>                         | 39.25              | 40.80            | 41.37            | 42.16            | 43.00            |
| 34 | <b>Pacificorp</b>                                  | 51.72              | 50.38            | 50.38            | 51.60            | 53.04            |
| 35 | <b>Portland General Electric</b>                   | 59.95              | 61.66            | 62.34            | 62.98            | 63.74            |
| 36 | <b>Puget Sound Energy</b>                          | 64.58              | 65.82            | 66.53            | 67.31            | 68.19            |
| 37 | <b>NorthWest Energy</b>                            | 54.57              | 56.93            | 58.05            | 59.30            | 60.62            |
| 38 | <b>Snohomish PUD</b>                               | 45.45              | 47.52            | 48.50            | 49.46            | 50.46            |

|    | A   | B                     | C                     | D                     | E                     | F                     | G                     |
|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1  | Appendix E  |                       |                       |                       |                       |                       |                       |
| 2  | <b>Table 4: Utility Residential and Small Farm Exchange Loads (MWh)</b> |                       |                       |                       |                       |                       |                       |
| 3  |   | <b><u>FY 2010</u></b> | <b><u>FY 2011</u></b> | <b><u>FY 2012</u></b> | <b><u>FY 2013</u></b> | <b><u>FY 2014</u></b> | <b><u>FY 2015</u></b> |
| 4  |   |                       |                       |                       |                       |                       |                       |
| 5  | <b>Avista</b>   | 3,986,348             | 4,034,141             | 3,888,712             | 4,031,401             | 4,098,536             | 4,209,102             |
| 6  | <b>Franklin PUD</b>   | 352,920               | 361,564               | 367,247               | 372,575               | 377,980               | 383,463               |
| 7  | <b>Idaho Power Company</b>  | 6,512,256             | 6,675,268             | 6,353,700             | 6,403,692             | 6,483,111             | 6,558,073             |
| 8  | <b>Pacificorp</b>   | 9,537,744             | 9,631,984             | 9,729,476             | 9,826,514             | 10,023,044            | 10,223,505            |
| 9  | <b>Portland General Electric</b>  | 8,750,249             | 8,837,336             | 8,980,520             | 9,143,024             | 9,332,440             | 9,518,750             |
| 10 | <b>Puget Sound Energy</b>   | 11,920,407            | 12,051,542            | 12,250,186            | 12,544,453            | 12,951,182            | 13,499,041            |
| 11 | <b>NorthWest Energy</b>   | 619,909               | 627,784               | 635,816               | 643,967               | 652,239               | 660,632               |
| 12 | <b>Snohomish PUD</b>  | 3,756,771             | 3,821,252             | 3,885,583             | 3,944,859             | 4,001,408             | 4,059,805             |

|    | A  | B        | C         | D        | E        | F        | G        |
|----|--|----------|-----------|----------|----------|----------|----------|
| 1  | Appendix E                               |          |           |          |          |          |          |
| 2  | Table 5:<br>Escalation Factors           |          |           |          |          |          |          |
| 3  |  | DATE     | 10/1/2011 | 4/1/2012 | 4/1/2013 | 4/1/2014 | 4/1/2015 |
| 4  |  |          | 12        | 13       | 14       | 15       | 16       |
| 5  | New Resource (True/False)                | NR       | FALSE     | TRUE     | TRUE     | TRUE     | TRUE     |
| 6  | New Resource Column (5-25)               | NRCOL    | 5         | 22       | 23       | 24       | 25       |
| 7  | New Resource Switch (1=Used, 0=Not Used) | NRSW     | 0         | 0        | 0        | 0        | 0        |
| 8  | Rate Period                              | RP       | No        | No       | No       | No       | No       |
| 9  | No Escalation                            | CONSTANT | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 10 | Distribution Plant                       | CD       | 0.000%    | 0.896%   | 2.000%   | 2.000%   | 1.950%   |
| 11 | Inflation                                | INF      | 0.000%    | 1.030%   | 2.092%   | 2.015%   | 2.022%   |
| 12 | Wages                                    | WAGES    | 0.000%    | 1.440%   | 2.850%   | 3.025%   | 3.100%   |
| 13 | Steam Fuel - (Coal)                      | COAL     | 0.000%    | 0.200%   | 0.474%   | 1.375%   | 1.550%   |
| 14 | Steam Operations                         | SOPS     | 0.000%    | 0.995%   | 2.075%   | 2.000%   | 2.025%   |
| 15 | Steam Maintenance                        | SMN      | 0.000%    | 0.970%   | 2.175%   | 2.050%   | 1.925%   |
| 16 | Nuclear Fuel                             | NFUEL    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 17 | Nuclear Operations                       | NOPS     | 0.000%    | 0.970%   | 2.000%   | 2.000%   | 2.000%   |
| 18 | Nuclear Maintenance                      | NMN      | 0.000%    | 0.697%   | 1.700%   | 1.950%   | 1.825%   |
| 19 | Hydro Operations                         | HOPS     | 0.000%    | 0.698%   | 1.250%   | 1.150%   | 1.375%   |
| 20 | Hydro Maintenance                        | HMN      | 0.000%    | 0.896%   | 1.975%   | 1.875%   | 1.825%   |
| 21 | Other Fuel - (Natural Gas)               | NATGAS   | 0.000%    | 2.685%   | 3.892%   | 2.168%   | 2.416%   |
| 22 | Other Operations                         | OOPS     | 0.000%    | 0.995%   | 1.675%   | 1.650%   | 1.850%   |
| 23 | Other Maintenance                        | OMN      | 0.000%    | 0.797%   | 1.725%   | 1.800%   | 1.825%   |
| 24 | Transmission Operations                  | TOPS     | 0.000%    | 0.946%   | 1.825%   | 1.925%   | 2.000%   |
| 25 | Transmission Maintenances                | TMN      | 0.000%    | 0.722%   | 1.825%   | 1.850%   | 1.725%   |
| 26 | Distribution Operations                  | DOPS     | 0.000%    | 0.970%   | 2.025%   | 2.100%   | 2.100%   |
| 27 | Distributions Maintenances               | DMN      | 0.000%    | 0.797%   | 1.900%   | 1.875%   | 1.800%   |
| 28 | Customers Accounts                       | CACNT    | 0.000%    | 0.970%   | 2.050%   | 2.200%   | 2.200%   |
| 29 | Customers Service                        | CSERV    | 0.000%    | 0.673%   | 1.600%   | 1.900%   | 1.900%   |
| 30 | Customers Sales                          | CSALES   | 0.000%    | 1.020%   | 2.175%   | 2.375%   | 2.300%   |
| 31 | Administrative and General               | A&G      | 0.000%    | 1.489%   | 3.025%   | 3.100%   | 3.075%   |
| 32 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 33 | Purchased Power PF (FY Esc)              | PURCHPF  | 0.000%    | 0.000%   | 0.000%   | 6.500%   | 0.000%   |
| 34 | Purchased Power Slice (FY Esc)           | PURCHSL  | 0.000%    | 0.000%   | 0.000%   | 2.000%   | 2.000%   |
| 35 | Purchased Power Generic #1 (FY Esc)      | PURCHG1  | 0.000%    | 0.979%   | 1.967%   | 1.933%   | 2.000%   |
| 36 | Purchased Power Generic #2 (FY Esc)      | PURCHG2  | 0.000%    | 0.979%   | 1.967%   | 1.933%   | 2.000%   |
| 37 | Purchased Power Generic #3 (FY Esc)      | PURCHG3  | 0.000%    | 0.979%   | 1.967%   | 1.933%   | 2.000%   |
| 38 | Steam O&M                                | SOM      | 0.000%    | 0.970%   | 2.075%   | 1.975%   | 1.925%   |
| 39 | Hydro O&M                                | HOM      | 0.000%    | 0.822%   | 1.625%   | 1.425%   | 1.575%   |
| 40 | Other O&M                                | OOM      | 0.000%    | 0.896%   | 1.700%   | 1.725%   | 1.825%   |
| 41 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 42 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 43 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 44 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 45 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 46 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 47 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 48 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |
| 49 | Blank                                    | ADDER    | 0.000%    | 0.000%   | 0.000%   | 0.000%   | 0.000%   |

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## **APPENDIX F**

### **Residential Exchange Program Average System Cost**

#### **Forecast Contract System Cost, Contract System Load, and ASC FY 2010 - 2015**

Table A: Avista

Table B: Franklin County PUD

Table C: Idaho Power

Table D: NorthWestern Energy

Table E: PacifiCorp

Table F: Portland General Electric

Table G: Puget Sound Energy

Table H: Snohomish County PUD

### **Section 7(b)(2) Rate Test Study and Documentation**

WP-10 Initial Rate Proposal

WP-10-E-BPA-06

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**TABLE A - AVISTA  
Appendix F**

|    | A      | B  | C                  | D              | E              | F              | G              |
|----|--------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | AVISTA | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |        | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |        | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |        | Intangible Plant - Franchises and Consents   | 15,259,132         | 15,259,132     | 15,259,132     | 15,259,132     | 15,259,132     |
| 5  |        | Intangible Plant - Miscellaneous   | 3,057,183          | 3,057,183      | 3,057,183      | 3,057,183      | 3,057,183      |
| 6  |        | <b>Total Intangible Plant</b>  | 18,316,315         | 18,316,315     | 18,316,315     | 18,316,315     | 18,316,315     |
| 7  |        |  |                    |                |                |                |                |
| 8  |        | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |        | Steam Production   | 378,707,227        | 378,707,227    | 378,707,227    | 378,707,227    | 378,707,227    |
| 10 |        | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |        | Hydraulic Production   | 363,035,892        | 363,035,892    | 363,035,892    | 363,035,892    | 363,035,892    |
| 12 |        | Other Production   | 273,034,180        | 273,034,180    | 273,034,180    | 273,034,180    | 273,034,180    |
| 13 |        | <b>Total Production Plant</b>  | 1,014,777,299      | 1,014,777,299  | 1,014,777,299  | 1,014,777,299  | 1,014,777,299  |
| 14 |        |  |                    |                |                |                |                |
| 15 |        | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |        | Transmission Plant   | 443,832,431        | 443,832,431    | 443,832,431    | 443,832,431    | 443,832,431    |
| 17 |        | <b>Total Transmission Plant</b>  | 443,832,431        | 443,832,431    | 443,832,431    | 443,832,431    | 443,832,431    |
| 18 |        |  |                    |                |                |                |                |
| 19 |        | <b>Distribution Plant:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 20 |        | Distribution Plant   | 0                  | 953,315,689    | 973,502,433    | 1,000,372,390  | 1,033,129,441  |
| 21 |        | <b>Total Distribution Plant</b>  | 0                  | 953,315,689    | 973,502,433    | 1,000,372,390  | 1,033,129,441  |
| 22 |        |  |                    |                |                |                |                |
| 23 |        | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |        | Land and Land Rights   | 77,826             | 77,826         | 77,826         | 77,826         | 77,826         |
| 25 |        | Structures and Improvements  | 1,342,867          | 1,342,867      | 1,342,867      | 1,342,867      | 1,342,867      |
| 26 |        | Furniture and Equipment  | 283,658            | 286,015        | 287,614        | 289,741        | 292,335        |
| 27 |        | Transportation Equipment   | 2,842,359          | 2,816,556      | 2,799,678      | 2,777,945      | 2,752,519      |
| 28 |        | Stores Equipment   | 187,753            | 187,753        | 187,753        | 187,753        | 187,753        |
| 29 |        | Tools and Garage Equipment   | 2,055,852          | 2,055,852      | 2,055,852      | 2,055,852      | 2,055,852      |
| 30 |        | Laboratory Equipment   | 1,915,408          | 1,915,408      | 1,915,408      | 1,915,408      | 1,915,408      |
| 31 |        | Power Operated Equipment   | 6,636,541          | 6,576,295      | 6,536,887      | 6,486,142      | 6,426,776      |
| 32 |        | Communication Equipment  | 20,123,666         | 20,123,666     | 20,123,666     | 20,123,666     | 20,123,666     |
| 33 |        | Miscellaneous Equipment  | 2,427              | 2,427          | 2,427          | 2,427          | 2,427          |
| 34 |        | Other Tangible Property  | 0                  | 0              | 0              | 0              | 0              |
| 35 |        | Asset Retirement Costs for General Plant   | 0                  | 0              | 0              | 0              | 0              |
| 36 |        |  |                    |                |                |                |                |
| 37 |        | <b>Total General Plant</b>   | 35,468,357         | 35,384,666     | 35,329,979     | 35,259,627     | 35,177,429     |
| 38 |        |  |                    |                |                |                |                |
| 39 |        | <b>Total Electric Plant In-Service</b>   | 1,512,394,402      | 1,512,310,711  | 1,512,256,023  | 1,512,185,672  | 1,512,103,474  |
| 40 |        | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |        |  |                    |                |                |                |                |

**TABLE A - AVISTA  
Appendix F**

|    | A                           | B  | C                  | D              | E              | F              | G              |
|----|-----------------------------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | AVISTA                      | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 | <b>LESS:</b>                |  |                    |                |                |                |                |
| 43 | <b>Depreciation Reserve</b> |  |                    |                |                |                |                |
| 44 |                             | Steam Production Plant   | 262,012,312        | 279,292,113    | 290,811,980    | 302,331,847    | 313,851,714    |
| 45 |                             | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |                             | Hydraulic Production Plant   | 104,626,560        | 115,955,321    | 123,507,828    | 131,060,335    | 138,612,842    |
| 47 |                             | Other Production Plant   | 82,467,873         | 102,022,350    | 115,058,668    | 128,094,986    | 141,131,304    |
| 48 |                             | Transmission Plant (i)   | 171,315,440        | 186,067,958    | 195,902,970    | 205,737,982    | 215,572,994    |
| 49 |                             | Distribution Plant   | 0                  | 349,338,893    | 369,277,211    | 389,637,729    | 410,560,225    |
| 50 |                             | General Plant  | 25,983,284         | 28,152,725     | 29,569,254     | 30,873,617     | 32,074,999     |
| 51 |                             | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |                             | Amortization of Intangible Plant - Account 302                                     | 3,664,564          | 4,171,223      | 4,508,996      | 4,846,769      | 5,184,542      |
| 53 |                             | Amortization of Intangible Plant - Account 303                                     | 2,292,600          | 3,092,071      | 3,625,053      | 4,158,034      | 4,691,015      |
| 54 |                             | Mining Plant Depreciation  | 0                  | 0              | 0              | 0              | 0              |
| 55 |                             | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |                             | Capital Lease - Common Plant   | 0                  | 0              | 0              | 0              | 0              |
| 57 |                             | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |                             | In-Service: Depreciation of Common Plant (a)                                       | 22,999,019         | 27,657,707     | 30,763,498     | 33,869,290     | 36,975,081     |
| 59 |                             | Amortization of Other Utility Plant (a)  | 0                  | 0              | 0              | 0              | 0              |
| 60 |                             | Amortization of Acquisition Adjustments  | 0                  | 0              | 0              | 0              | 0              |
| 61 |                             |  |                    |                |                |                |                |
| 62 |                             | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |                             |  |                    |                |                |                |                |
| 64 |                             | <b>Total Depreciation and Amortization Reserve</b>                                 | 675,361,652        | 746,411,467    | 793,748,246    | 840,972,859    | 888,094,490    |
| 65 |                             |  |                    |                |                |                |                |
| 66 |                             | <b>Total Net Plant</b>   | 837,032,750        | 765,899,244    | 718,507,777    | 671,212,814    | 624,008,984    |
| 67 |                             | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |



**TABLE A - AVISTA**  
**Appendix F**

|     | A      | B  | C                  | D              | E              | F              | G              |
|-----|--------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | AVISTA | <b>Account Description</b>                                 | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 68  |        |  |                    |                |                |                |                |
| 69  |        | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |                    |                |                |                |                |
| 70  |        |  |                    |                |                |                |                |
| 71  |        | <b>Cash Working Capital (f)</b>                            | 17,115,756         | 17,534,406     | 17,819,365     | 18,106,359     | 18,399,104     |
| 72  |        |  |                    |                |                |                |                |
| 73  |        | <b>Utility Plant</b>                                       | 0                  | 0              | 0              | 0              | 0              |
| 74  |        | (Utility Plant) Held For Future Use                        | 0                  | 0              | 0              | 0              | 0              |
| 75  |        | (Utility Plant) Completed Construction - Not Classified    | 0                  | 0              | 0              | 0              | 0              |
| 76  |        | Nuclear Fuel   | 0                  | 0              | 0              | 0              | 0              |
| 77  |        | Construction Work in Progress (CWIP)                       | 0                  | 0              | 0              | 0              | 0              |
| 78  |        | Common Plant   | 49,904,947         | 49,904,947     | 49,904,947     | 49,904,947     | 49,904,947     |
| 79  |        | Acquisition Adjustments (Electric)                         | 0                  | 0              | 0              | 0              | 0              |
| 80  |        | <b>Total</b>   | 49,904,947         | 49,904,947     | 49,904,947     | 49,904,947     | 49,904,947     |
| 81  |        |  |                    |                |                |                |                |
| 82  |        |  |                    |                |                |                |                |
| 83  |        | Investment in Associated Companies                         | 0                  | 0              | 0              | 0              | 0              |
| 84  |        | Other Investment   | 0                  | 0              | 0              | 0              | 0              |
| 85  |        | Long-Term Portion of Derivative Assets                     | 0                  | 0              | 0              | 0              | 0              |
| 86  |        | Long-Term Portion of Derivative Assets - Hedges            | 0                  | 0              | 0              | 0              | 0              |
| 87  |        | <b>Total</b>   | 0                  | 0              | 0              | 0              | 0              |
| 88  |        |  |                    |                |                |                |                |
| 89  |        |  |                    |                |                |                |                |
| 90  |        | Fuel Stock   | 2,366,409          | 2,359,645      | 2,370,826      | 2,403,423      | 2,440,676      |
| 91  |        | Fuel Stock Expenses Undistributed                          | 0                  | 0              | 0              | 0              | 0              |
| 92  |        | Plant Materials and Operating Supplies                     | 11,280,306         | 11,483,191     | 11,626,170     | 11,730,835     | 11,810,755     |
| 93  |        | Merchandise (Major Only)                                   | 0                  | 0              | 0              | 0              | 0              |
| 94  |        | Other Materials and Supplies (Major only)                  | 0                  | 0              | 0              | 0              | 0              |
| 95  |        | EPA Allowance Inventory                                    | 0                  | 0              | 0              | 0              | 0              |
| 96  |        | EPA Allowances Withheld                                    | 0                  | 0              | 0              | 0              | 0              |
| 97  |        | Stores Expense Undistributed                               | 0                  | 0              | 0              | 0              | 0              |
| 98  |        | Prepayments  | 3,942,466          | 3,893,799      | 3,861,480      | 3,819,285      | 3,769,076      |
| 99  |        | Derivative Instrument Assets                               | 0                  | 0              | 0              | 0              | 0              |
| 100 |        | Less: Long-Term Portion of Derivative Assets               | 0                  | 0              | 0              | 0              | 0              |
| 101 |        | Derivative Instrument Assets - Hedges                      | 0                  | 0              | 0              | 0              | 0              |
| 102 |        | Less: Long-Term Portion of Derivative Assets - Hedges      | 0                  | 0              | 0              | 0              | 0              |
| 103 |        | <b>Total</b>   | 17,589,181         | 17,736,635     | 17,858,476     | 17,953,543     | 18,020,506     |

**TABLE A - AVISTA**  
**Appendix F**

|     | A      | B  | C                  | D                  | E                  | F                  | G                  |
|-----|--------|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | AVISTA | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 104 |        |  |                    |                    |                    |                    |                    |
| 105 |        |  |                    |                    |                    |                    |                    |
| 106 |        | Unamortized Debt Expenses                                | 7,080,344          | 6,993,214          | 6,935,353          | 6,859,809          | 6,769,918          |
| 107 |        | Extraordinary Property Losses                            | 0                  | 0                  | 0                  | 0                  | 0                  |
| 108 |        | Unrecovered Plant and Regulatory Study Costs             | 0                  | 0                  | 0                  | 0                  | 0                  |
| 109 |        | Other Regulatory Assets                                  | 33,691,369         | 33,691,369         | 33,691,369         | 33,691,369         | 33,691,369         |
| 110 |        | Prelim. Survey and Investigation Charges (Electric)      | 0                  | 0                  | 0                  | 0                  | 0                  |
| 111 |        | Preliminary Natural Gas Survey and Investigation Charges | 0                  | 0                  | 0                  | 0                  | 0                  |
| 112 |        | Other Preliminary Survey and Investigation Charges       | 0                  | 0                  | 0                  | 0                  | 0                  |
| 113 |        | Clearing Accounts  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 114 |        | Temporary Facilities                                     | 0                  | 0                  | 0                  | 0                  | 0                  |
| 115 |        | Miscellaneous Deferred Debits                            | 12,910,835         | 12,910,835         | 12,910,835         | 12,910,835         | 12,910,835         |
| 116 |        | Deferred Losses from Disposition of Utility Plant        | 0                  | 0                  | 0                  | 0                  | 0                  |
| 117 |        | Research, Development, and Demonstration Expenditures    | 0                  | 0                  | 0                  | 0                  | 0                  |
| 118 |        | Unamortized Loss on Reacquired Debt                      | 12,823,270         | 12,665,468         | 12,560,675         | 12,423,858         | 12,261,055         |
| 119 |        | Accumulated Deferred Income Taxes                        | 0                  | 0                  | 0                  | 0                  | 0                  |
| 120 |        | <b>Total</b>   | <b>66,505,817</b>  | <b>66,260,886</b>  | <b>66,098,231</b>  | <b>65,885,871</b>  | <b>65,633,178</b>  |
| 121 |        |  |                    |                    |                    |                    |                    |
| 122 |        | <b>Total Assets and Other Debits</b>                     | <b>151,115,701</b> | <b>151,436,873</b> | <b>151,681,019</b> | <b>151,850,719</b> | <b>151,957,734</b> |

**TABLE A - AVISTA  
Appendix F**

|     | A      | B   | C                  | D              | E              | F              | G              |
|-----|--------|---|--------------------|----------------|----------------|----------------|----------------|
| 1   | AVISTA | <b>Account Description</b>  | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 123 |        |   |                    |                |                |                |                |
| 124 |        | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |                    |                |                |                |                |
| 125 |        | <b>CURRENT AND ACCRUED LIABILITIES</b>  |                    |                |                |                |                |
| 126 |        | Derivative Instrument Liabilities   | 0                  | 0              | 0              | 0              | 0              |
| 127 |        | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0                  | 0              | 0              | 0              | 0              |
| 128 |        | Derivative Instrument Liabilities - Hedges                                    | 0                  | 0              | 0              | 0              | 0              |
| 129 |        | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0                  | 0              | 0              | 0              | 0              |
| 130 |        | <b>Total</b>  | 0                  | 0              | 0              | 0              | 0              |
| 131 |        | <b>DEFERRED CREDITS</b>   |                    |                |                |                |                |
| 132 |        | Long-Term Portion of Derivative Instrument Liabilities                        | 0                  | 0              | 0              | 0              | 0              |
| 133 |        | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0                  | 0              | 0              | 0              | 0              |
| 134 |        | Customer Advances for Construction  | 0                  | 0              | 0              | 0              | 0              |
| 135 |        | Other Deferred Credits  | 10,204,102         | 10,204,102     | 10,204,102     | 10,204,102     | 10,204,102     |
| 136 |        | Other Regulatory Liabilities  | 0                  | 0              | 0              | 0              | 0              |
| 137 |        | Accumulated Deferred Investment Tax Credits                                   | 0                  | 0              | 0              | 0              | 0              |
| 138 |        | Deferred Gains from Disposition of Utility Plant                              | 0                  | 0              | 0              | 0              | 0              |
| 139 |        | Unamortized Gain on Reacquired Debt   | 2,157,952          | 2,131,396      | 2,113,761      | 2,090,737      | 2,063,340      |
| 140 |        | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0                  | 0              | 0              | 0              | 0              |
| 141 |        | Accumulated Deferred Income Taxes-Property                                    | 0                  | 0              | 0              | 0              | 0              |
| 142 |        | Accumulated Deferred Income Taxes-Other                                       | 0                  | 0              | 0              | 0              | 0              |
| 143 |        | <b>Total</b>  | 12,362,053         | 12,335,498     | 12,317,863     | 12,294,839     | 12,267,442     |
| 144 |        |   |                    |                |                |                |                |
| 145 |        | <b>Total Liabilities and Other Credits</b>                                    | 12,362,053         | 12,335,498     | 12,317,863     | 12,294,839     | 12,267,442     |
| 146 |        |   |                    |                |                |                |                |
| 147 |        |   |                    |                |                |                |                |
| 148 |        | <b>Total Rate Base</b>  | 975,786,398        | 905,000,619    | 857,870,933    | 810,768,694    | 763,699,276    |
| 149 |        | <i>(Total Net Plant + Debits - Credits)</i>                                   |                    |                |                |                |                |
| 150 |        |   |                    |                |                |                |                |
| 151 |        |   |                    |                |                |                |                |
| 152 |        | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 10.96%             | 10.96%         | 10.96%         | 10.96%         | 10.96%         |
| 153 |        |   |                    |                |                |                |                |
| 154 |        | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 106,967,662        | 99,207,983     | 94,041,532     | 88,878,090     | 83,718,246     |

**TABLE A - AVISTA  
Appendix F**

|     | A      | B  | C                  | D              | E              | F              | G              |
|-----|--------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | AVISTA | <b>Account Description</b>                       | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 155 |        |  |                    |                |                |                |                |
| 156 |        |  |                    |                |                |                |                |
| 157 |        | <u><i>Schedule 3: Expenses</i></u>               |                    |                |                |                |                |
| 158 |        | <b>Account Description</b>                       |                    |                |                |                |                |
| 159 |        |  |                    |                |                |                |                |
| 160 |        |  |                    |                |                |                |                |
| 161 |        | <b>Power Production Expenses:</b>                |                    |                |                |                |                |
| 162 |        | <b>Steam Power Generation</b>                    |                    |                |                |                |                |
| 163 |        | Steam Power - Fuel                               | 28,559,759         | 28,478,117     | 28,613,068     | 29,006,474     | 29,456,063     |
| 164 |        | Steam Power - Operations (Excluding 501 - Fuel)  | 5,587,580          | 5,748,634      | 5,867,918      | 5,985,276      | 6,106,478      |
| 165 |        | Steam Power - Maintenance                        | 9,228,409          | 9,474,951      | 9,681,030      | 9,879,488      | 10,069,667     |
| 166 |        | <b>Nuclear Power Generation</b>                  |                    |                |                |                |                |
| 167 |        | Nuclear - Fuel                                   | 0                  | 0              | 0              | 0              | 0              |
| 168 |        | Nuclear - Operation ( Excluding 518 - Fuel)      | 0                  | 0              | 0              | 0              | 0              |
| 169 |        | Nuclear - Maintenance                            | 0                  | 0              | 0              | 0              | 0              |
| 170 |        | <b>Hydraulic Power Generation</b>                |                    |                |                |                |                |
| 171 |        | Hydraulic - Operation                            | 17,055,676         | 17,455,560     | 17,673,748     | 17,876,990     | 18,122,784     |
| 172 |        | Hydraulic - Maintenance                          | 4,644,324          | 4,755,058      | 4,848,970      | 4,939,887      | 5,030,040      |
| 173 |        | <b>Other Power Generation</b>                    |                    |                |                |                |                |
| 174 |        | Other Power - Fuel                               | 193,926,111        | 207,219,574    | 215,284,712    | 219,952,264    | 225,266,506    |
| 175 |        | Other Power - Operations (Excluding 547 - Fuel)  | 3,375,428          | 3,513,395      | 3,572,244      | 3,631,185      | 3,698,361      |
| 176 |        | Other Power - Maintenance                        | 3,085,204          | 3,153,731      | 3,208,133      | 3,265,879      | 3,325,481      |
| 177 |        | <b>Other Power Supply Expenses</b>               |                    |                |                |                |                |
| 178 |        | Purchased Power (Excluding REP Reversal)         | 239,483,073        | 274,620,376    | 293,253,017    | 317,490,489    | 346,200,640    |
| 179 |        | System Control and Load Dispatching              | 480,570            | 480,570        | 480,570        | 480,570        | 480,570        |
| 180 |        | Other Expenses                                   | 26,956,543         | 26,956,543     | 26,956,543     | 26,956,543     | 26,956,543     |
| 181 |        | BPA REP Reversal                                 | 0                  | 0              | 0              | 0              | 0              |
| 182 |        | Public Purpose Charges (h)                       | 0                  | 0              | 0              | 0              | 0              |
| 183 |        | Production Expense                               | 532,382,677        | 581,856,510    | 609,439,953    | 639,465,045    | 674,713,133    |
| 184 |        |  |                    |                |                |                |                |
| 185 |        | <b>Transmission Expenses: (i)</b>                |                    |                |                |                |                |
| 186 |        | Transmission of Electricity to Others (Wheeling) | 19,385,753         | 19,981,170     | 20,399,274     | 20,810,319     | 21,231,208     |
| 187 |        | Total Operations less Wheeling                   | 6,162,386          | 6,379,454      | 6,495,878      | 6,620,923      | 6,753,342      |
| 188 |        | Total Maintenance                                | 3,081,782          | 3,136,012      | 3,193,244      | 3,252,318      | 3,308,420      |
| 189 |        | <b>Total Transmission Expense</b>                | 28,629,921         | 29,496,636     | 30,088,396     | 30,683,560     | 31,292,970     |
| 190 |        |  |                    |                |                |                |                |
| 191 |        | <b>Distribution Expense:</b>                     |                    |                |                |                |                |
| 192 |        | Total Operations                                 | 0                  | 0              | 0              | 0              | 0              |
| 193 |        | Total Maintenance                                | 0                  | 0              | 0              | 0              | 0              |
| 194 |        | <b>Total Distribution Expense</b>                | 0                  | 0              | 0              | 0              | 0              |

**TABLE A - AVISTA  
Appendix F**

|     | A      | B   | C                  | D              | E              | F              | G              |
|-----|--------|---|--------------------|----------------|----------------|----------------|----------------|
| 1   | AVISTA | <b>Account Description</b>                          | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 195 |        |   |                    |                |                |                |                |
| 196 |        | <b>Customer and Sales Expenses:</b>                 |                    |                |                |                |                |
| 197 |        | Total Customer Accounts                             | 0                  | 0              | 0              | 0              | 0              |
| 198 |        | Customer Service and Information                    | 0                  | 0              | 0              | 0              | 0              |
| 199 |        | Customer assistance expenses (Major only)           | 9,080,121          | 9,281,685      | 9,430,179      | 9,609,352      | 9,791,930      |
| 200 |        | Customer Service and Information                    | 0                  | 0              | 0              | 0              | 0              |
| 201 |        | Total Sales Expense                                 | 0                  | 0              | 0              | 0              | 0              |
| 202 |        | <b>Total Customer and Sales Expenses</b>            | 9,080,121          | 9,281,685      | 9,430,179      | 9,609,352      | 9,791,930      |
| 203 |        |   |                    |                |                |                |                |
| 204 |        | <b>Administration and General Expense:</b>          |                    |                |                |                |                |
| 205 |        | <b>Operation</b>                                    |                    |                |                |                |                |
| 206 |        | Administration and General Salaries                 | 11,566,887         | 12,050,166     | 12,380,445     | 12,718,154     | 13,052,712     |
| 207 |        | Office Supplies & Expenses                          | 2,167,837          | 2,258,411      | 2,320,312      | 2,383,604      | 2,446,306      |
| 208 |        | (Less) Administration Expenses Transferred - Credit | 20,863             | 21,735         | 22,331         | 22,940         | 23,543         |
| 209 |        | Outside Services Employed                           | 6,972,994          | 7,264,335      | 7,463,441      | 7,667,026      | 7,868,711      |
| 210 |        | Property Insurance                                  | 760,522            | 785,797        | 802,869        | 818,742        | 832,859        |
| 211 |        | Injuries and Damages                                | 1,962,682          | 2,044,685      | 2,100,727      | 2,158,030      | 2,214,798      |
| 212 |        | Employee Pensions & Benefits                        | 591,616            | 616,335        | 633,228        | 650,501        | 667,612        |
| 213 |        | Franchise Requirements                              | 0                  | 0              | 0              | 0              | 0              |
| 214 |        | Regulatory Commission Expenses                      | 0                  | 0              | 0              | 0              | 0              |
| 215 |        | (Less) Duplicate Charges - Credit                   | 0                  | 0              | 0              | 0              | 0              |
| 216 |        | General Advertising Expenses                        | 0                  | 0              | 0              | 0              | 0              |
| 217 |        | Miscellaneous General Expenses                      | 0                  | 0              | 0              | 0              | 0              |
| 218 |        | Rents   | 0                  | 0              | 0              | 0              | 0              |
| 219 |        | Transportation Expenses (Non Major)                 | 0                  | 0              | 0              | 0              | 0              |
| 220 |        | <b>Maintenance</b>                                  | 0                  | 0              | 0              | 0              | 0              |
| 221 |        | Maintenance of General Plant                        | 4,800,597          | 4,960,486      | 5,068,494      | 5,169,021      | 5,258,552      |
| 222 |        | <b>Total Administration and General Expenses</b>    | 28,802,271         | 29,958,480     | 30,747,186     | 31,542,138     | 32,318,008     |
| 223 |        |   |                    |                |                |                |                |
| 224 |        | <b>Total Operations and Maintenance</b>             | 598,894,990        | 650,593,312    | 679,705,714    | 711,300,095    | 748,116,040    |

**TABLE A - AVISTA  
Appendix F**

|     | A      | B  | C                  | D                  | E                  | F                  | G                  |
|-----|--------|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | AVISTA | <b>Account Description</b>                                     | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 225 |        |  |                    |                    |                    |                    |                    |
| 226 |        |  |                    |                    |                    |                    |                    |
| 227 |        | <b>Depreciation and Amortization:</b>                          |                    |                    |                    |                    |                    |
| 228 |        | Amortization of Intangible Plant - Account 301                 | 0                  | 0                  | 0                  | 0                  | 0                  |
| 229 |        | Amortization of Intangible Plant - Account 302                 | 337,773            | 337,773            | 337,773            | 337,773            | 337,773            |
| 230 |        | Amortization of Intangible Plant - Account 303                 | 1,311,910          | 1,311,910          | 1,311,910          | 1,311,910          | 1,311,910          |
| 231 |        | Steam Production Plant   | 11,519,867         | 11,519,867         | 11,519,867         | 11,519,867         | 11,519,867         |
| 232 |        | Nuclear Production Plant                                       | 0                  | 0                  | 0                  | 0                  | 0                  |
| 233 |        | Hydraulic Production Plant - Conventional                      | 7,552,507          | 7,552,507          | 7,552,507          | 7,552,507          | 7,552,507          |
| 234 |        | Hydraulic Production Plant - Pumped Storage                    | 0                  | 0                  | 0                  | 0                  | 0                  |
| 235 |        | Other Production Plant   | 13,036,318         | 13,036,318         | 13,036,318         | 13,036,318         | 13,036,318         |
| 236 |        | Transmission Plant (i)   | 9,835,012          | 9,835,012          | 9,835,012          | 9,835,012          | 9,835,012          |
| 237 |        | Distribution Plant   | 0                  | 19,938,318         | 20,360,518         | 20,922,495         | 21,607,600         |
| 238 |        | General Plant  | 1,724,761          | 1,710,164          | 1,707,735          | 1,704,612          | 1,700,969          |
| 239 |        | Common Plant - Electric  | 3,105,791          | 3,105,791          | 3,105,791          | 3,105,791          | 3,105,791          |
| 240 |        | Common Plant - Electric  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 241 |        | Depreciation Expense for Asset Retirement Costs                | 0                  | 0                  | 0                  | 0                  | 0                  |
| 242 |        | Amortization of Limited Term Electric Plant                    | 0                  | 0                  | 0                  | 0                  | 0                  |
| 243 |        | Amortization of Plant Acquisition Adjustments (Electric)       | 0                  | 0                  | 0                  | 0                  | 0                  |
| 244 |        | <b>Total Depreciation and Amortization</b>                     | <b>48,423,939</b>  | <b>48,409,343</b>  | <b>48,406,913</b>  | <b>48,403,791</b>  | <b>48,400,147</b>  |
| 245 |        |  |                    |                    |                    |                    |                    |
| 246 |        |  |                    |                    |                    |                    |                    |
| 247 |        | <b>Total Operating Expenses</b>                                | <b>647,318,929</b> | <b>699,002,654</b> | <b>728,112,627</b> | <b>759,703,886</b> | <b>796,516,187</b> |
| 248 |        | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |                    |                    |                    |                    |                    |

**TABLE A - AVISTA**  
**Appendix F**

|     | A      | B  | C                  | D              | E              | F              | G              |
|-----|--------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | AVISTA | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 249 |        |  |                    |                |                |                |                |
| 250 |        | <i>Schedule 3A Items: Taxes (Including Income Taxes)</i> |                    |                |                |                |                |
| 251 |        | <b>Account Description</b>                               |                    |                |                |                |                |
| 252 |        |  |                    |                |                |                |                |
| 253 |        |  |                    |                |                |                |                |
| 254 |        | <b>FEDERAL</b>   |                    |                |                |                |                |
| 255 |        | Income Tax (Included on Schedule 2)                      | 0                  | 0              | 0              | 0              | 0              |
| 256 |        | Employment Tax   | 0                  | 0              | 0              | 0              | 0              |
| 257 |        | Other Federal Taxes                                      | 0                  | 0              | 0              | 0              | 0              |
| 258 |        | <b>TOTAL FEDERAL</b>                                     | 0                  | 0              | 0              | 0              | 0              |
| 259 |        |  |                    |                |                |                |                |
| 260 |        | <b>STATE AND OTHER</b>                                   |                    |                |                |                |                |
| 261 |        | Property   | 11,599,182         | 11,456,444     | 11,361,654     | 11,237,897     | 11,090,636     |
| 262 |        | Unemployment   | 0                  | 0              | 0              | 0              | 0              |
| 263 |        | State Income, B&O, et.                                   | 0                  | 0              | 0              | 0              | 0              |
| 264 |        | Franchise Fees   | 0                  | 0              | 0              | 0              | 0              |
| 265 |        | Regulatory Commission                                    | 0                  | 0              | 0              | 0              | 0              |
| 266 |        | City/Municipal   | 0                  | 0              | 0              | 0              | 0              |
| 267 |        | Other  | 0                  | 0              | 0              | 0              | 0              |
| 268 |        | <b>TOTAL STATE AND OTHER TAXES</b>                       | 11,599,182         | 11,456,444     | 11,361,654     | 11,237,897     | 11,090,636     |
| 269 |        |  |                    |                |                |                |                |
| 270 |        | <b>TOTAL TAXES</b>                                       | 11,599,182         | 11,456,444     | 11,361,654     | 11,237,897     | 11,090,636     |
| 271 |        |  |                    |                |                |                |                |
| 272 |        |  |                    |                |                |                |                |

**TABLE A - AVISTA  
Appendix F**

|     | A      | B  | C                  | D              | E              | F              | G              |
|-----|--------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | AVISTA | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 273 |        | <u><i>Schedule 3B: Other Included Items</i></u>                                    |                    |                |                |                |                |
| 274 |        | <b>Account Description</b>   |                    |                |                |                |                |
| 275 |        |  |                    |                |                |                |                |
| 276 |        |  |                    |                |                |                |                |
| 277 |        | <b>Other Included Items:</b>   |                    |                |                |                |                |
| 278 |        | Regulatory Credits   | 238,789            | 238,789        | 238,789        | 238,789        | 238,789        |
| 279 |        | (Less) Regulatory Debits   | 337,368            | 337,368        | 337,368        | 337,368        | 337,368        |
| 280 |        | Gain from Disposition of Utility Plant   | 0                  | 0              | 0              | 0              | 0              |
| 281 |        | (Less) Loss from Disposition of Utility Plant                                      | 0                  | 0              | 0              | 0              | 0              |
| 282 |        | Gain from Disposition of Allowances  | 0                  | 0              | 0              | 0              | 0              |
| 283 |        | (Less) Loss from Disposition of Allowances   | 0                  | 0              | 0              | 0              | 0              |
| 284 |        | Miscellaneous Nonoperating Income  | 0                  | 0              | 0              | 0              | 0              |
| 285 |        | <b>Total Other Included Items</b>  | (98,579)           | (98,579)       | (98,579)       | (98,579)       | (98,579)       |
| 286 |        |  |                    |                |                |                |                |
| 287 |        | <b>Sale for Resale:</b>  |                    |                |                |                |                |
| 288 |        | Sales for Resale   | 240,708,192        | 255,448,672    | 261,636,105    | 268,481,181    | 275,490,173    |
| 289 |        | <b>Total Sales for Resale</b>  | 240,708,192        | 255,448,672    | 261,636,105    | 268,481,181    | 275,490,173    |
| 290 |        |  |                    |                |                |                |                |
| 291 |        | <b>Other Revenues:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 292 |        | Forfeited Discounts  | 0                  | 0              | 0              | 0              | 0              |
| 293 |        | Miscellaneous Service Revenues   | 0                  | 0              | 0              | 0              | 0              |
| 294 |        | Sales of Water and Water Power   | 309,017            | 309,017        | 309,017        | 309,017        | 309,017        |
| 295 |        | Rent from Electric Property  | 906,381            | 887,066        | 874,432        | 858,163        | 839,130        |
| 296 |        | Interdepartmental Rents  | 0                  | 0              | 0              | 0              | 0              |
| 297 |        | Other Electric Revenues  | 12,183,659         | 12,183,659     | 12,183,659     | 12,183,659     | 12,183,659     |
| 298 |        | Revenues from Transmission of Electricity of Others (i)                            | 10,470,726         | 10,470,726     | 10,470,726     | 10,470,726     | 10,470,726     |
| 299 |        |  |                    |                |                |                |                |
| 300 |        | <b>Total Other Revenues</b>  | 23,869,783         | 23,850,468     | 23,837,834     | 23,821,564     | 23,802,532     |
| 301 |        |  |                    |                |                |                |                |
| 302 |        | <b>Total Other Included Items</b>  | 264,479,396        | 279,200,561    | 285,375,360    | 292,204,166    | 299,194,125    |
| 303 |        | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |                    |                |                |                |                |



**TABLE A - AVISTA  
Appendix F**

|     | A      | B   | C                  | D                  | E                  | F                  | G                  |
|-----|--------|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | AVISTA | <b>Account Description</b>  | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 304 |        |   |                    |                    |                    |                    |                    |
| 305 |        | <i>Schedule 4: Average System Cost</i>  |                    |                    |                    |                    |                    |
| 306 |        |   |                    |                    |                    |                    |                    |
| 307 |        |   | <b>10/1/2010</b>   | <b>4/1/2012</b>    | <b>4/1/2013</b>    | <b>4/1/2014</b>    | <b>4/1/2015</b>    |
| 308 |        |   |                    |                    |                    |                    |                    |
| 309 |        | <b>Total Operating Expenses</b>   | 647,318,929        | 699,002,654        | 728,112,627        | 759,703,886        | 796,516,187        |
| 310 |        | (From Schedule 3)   |                    |                    |                    |                    |                    |
| 311 |        |   |                    |                    |                    |                    |                    |
| 312 |        | <b>Federal Income Tax Adjusted Return on Rate Base</b>  | 106,967,662        | 99,207,983         | 94,041,532         | 88,878,090         | 83,718,246         |
| 313 |        | (From Schedule 2)   |                    |                    |                    |                    |                    |
| 314 |        |   |                    |                    |                    |                    |                    |
| 315 |        | <b>State and Other Taxes</b>  | 11,599,182         | 11,456,444         | 11,361,654         | 11,237,897         | 11,090,636         |
| 316 |        | (From Schedule 3a)  |                    |                    |                    |                    |                    |
| 317 |        |   |                    |                    |                    |                    |                    |
| 318 |        | <b>Total Other Included Items</b>   | 264,479,396        | 279,200,561        | 285,375,360        | 292,204,166        | 299,194,125        |
| 319 |        | (From Schedule 3b)  |                    |                    |                    |                    |                    |
| 320 |        |   |                    |                    |                    |                    |                    |
| 321 |        | <b>Total Cost</b>   | <b>501,406,377</b> | <b>530,466,520</b> | <b>548,140,453</b> | <b>567,615,707</b> | <b>592,130,944</b> |
| 322 |        | (Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items) |                    |                    |                    |                    |                    |
| 323 |        |   |                    |                    |                    |                    |                    |
| 324 |        |   |                    |                    |                    |                    |                    |
| 325 |        |   |                    |                    |                    |                    |                    |
| 326 |        | <b>Contract System Cost</b>   |                    |                    |                    |                    |                    |
| 327 |        | Production and Transmission   | 501,406,377        | 530,466,520        | 548,140,453        | 567,615,707        | 592,130,944        |
| 328 |        | (Less) New Large Single Load Costs (d)  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 329 |        | <b>Total Contract System Cost</b>   | <b>501,406,377</b> | <b>530,466,520</b> | <b>548,140,453</b> | <b>567,615,707</b> | <b>592,130,944</b> |
| 330 |        |   |                    |                    |                    |                    |                    |
| 331 |        | <b>Contract System Load (MWh)</b>   |                    |                    |                    |                    |                    |
| 332 |        | Total Retail Load   | 9,429,375          | 9,709,299          | 9,890,789          | 10,127,628         | 10,410,835         |
| 333 |        | (Less) New Large Single Load  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 334 |        | Total Retail Load (Net of NLSL) (d)   | 9,429,375          | 9,709,299          | 9,890,789          | 10,127,628         | 10,410,835         |
| 335 |        | Distribution Loss (f)   | 478,577            | 492,784            | 501,996            | 514,016            | 528,390            |
| 336 |        | <b>Total Contract System Load</b>   | <b>9,907,952</b>   | <b>10,202,083</b>  | <b>10,392,785</b>  | <b>10,641,644</b>  | <b>10,939,225</b>  |
| 337 |        |   |                    |                    |                    |                    |                    |
| 338 |        | <b>Average System Cost \$/MWh</b>   | <b>50.61</b>       | <b>52.00</b>       | <b>52.74</b>       | <b>53.34</b>       | <b>54.13</b>       |
| 339 |        |   |                    |                    |                    |                    |                    |

**TABLE B - FRANKLIN  
Appendix F**

|    | A        | B  | C                  | D              | E              | F              | G              |
|----|----------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | FRANKLIN | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |          | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |          | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |          | Intangible Plant - Franchises and Consents   | 0                  | 0              | 0              | 0              | 0              |
| 5  |          | Intangible Plant - Miscellaneous   | 0                  | 0              | 0              | 0              | 0              |
| 6  |          | <b>Total Intangible Plant</b>  | 0                  | 0              | 0              | 0              | 0              |
| 7  |          |  |                    |                |                |                |                |
| 8  |          | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |          | Steam Production   | 0                  | 0              | 0              | 0              | 0              |
| 10 |          | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |          | Hydraulic Production   | 0                  | 0              | 0              | 0              | 0              |
| 12 |          | Other Production   | 18,232,751         | 18,232,751     | 18,232,751     | 18,232,751     | 18,232,751     |
| 13 |          | <b>Total Production Plant</b>  | 18,232,751         | 18,232,751     | 18,232,751     | 18,232,751     | 18,232,751     |
| 14 |          |  |                    |                |                |                |                |
| 15 |          | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |          | Transmission Plant   | 4,077,516          | 4,077,516      | 4,077,516      | 4,077,516      | 4,077,516      |
| 17 |          | <b>Total Transmission Plant</b>  | 4,077,516          | 4,077,516      | 4,077,516      | 4,077,516      | 4,077,516      |
| 18 |          |  |                    |                |                |                |                |
| 19 |          | <b>Distribution Plant:</b>   |                    |                |                |                |                |
| 20 |          | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 21 |          | <b>Total Distribution Plant</b>  | 0                  | 0              | 0              | 0              | 0              |
| 22 |          |  |                    |                |                |                |                |
| 23 |          | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |          | Land and Land Rights   | 24,214             | 24,214         | 24,214         | 24,214         | 24,214         |
| 25 |          | Structures and Improvements  | 802,526            | 802,526        | 802,526        | 802,526        | 802,526        |
| 26 |          | Furniture and Equipment  | 498,516            | 504,370        | 507,967        | 511,689        | 515,538        |
| 27 |          | Transportation Equipment   | 134,081            | 133,567        | 133,265        | 132,962        | 132,659        |
| 28 |          | Stores Equipment   | 3,888              | 3,888          | 3,888          | 3,888          | 3,888          |
| 29 |          | Tools and Garage Equipment   | 141,409            | 141,409        | 141,409        | 141,409        | 141,409        |
| 30 |          | Laboratory Equipment   | 4,819              | 4,819          | 4,819          | 4,819          | 4,819          |
| 31 |          | Power Operated Equipment   | 260                | 259            | 259            | 258            | 257            |
| 32 |          | Communication Equipment  | 1,716,023          | 1,716,023      | 1,716,023      | 1,716,023      | 1,716,023      |
| 33 |          | Miscellaneous Equipment  | 49,147             | 49,147         | 49,147         | 49,147         | 49,147         |
| 34 |          | Other Tangible Property  | 231,532            | 231,532        | 231,532        | 231,532        | 231,532        |
| 35 |          | Asset Retirement Costs for General Plant   | 0                  | 0              | 0              | 0              | 0              |
| 36 |          |  |                    |                |                |                |                |
| 37 |          | <b>Total General Plant</b>   | 3,606,416          | 3,611,755      | 3,615,049      | 3,618,468      | 3,622,014      |
| 38 |          |  |                    |                |                |                |                |
| 39 |          | <b>Total Electric Plant In-Service</b>   | 25,916,683         | 25,922,022     | 25,925,316     | 25,928,735     | 25,932,281     |
| 40 |          | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |          |  |                    |                |                |                |                |

**TABLE B - FRANKLIN  
Appendix F**

|    | A        | B  | C                  | D              | E              | F              | G              |
|----|----------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | FRANKLIN | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 |          | <b>LESS:</b>   |                    |                |                |                |                |
| 43 |          | <b>Depreciation Reserve</b>  |                    |                |                |                |                |
| 44 |          | Steam Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 45 |          | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |          | Hydraulic Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 47 |          | Other Production Plant   | 9,538,897          | 10,898,824     | 11,805,442     | 12,712,060     | 13,618,678     |
| 48 |          | Transmission Plant (i)   | 1,782,020          | 1,930,988      | 2,030,300      | 2,129,612      | 2,228,924      |
| 49 |          | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 50 |          | General Plant  | 1,183,042          | 1,422,111      | 1,579,462      | 1,734,572      | 1,887,413      |
| 51 |          | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |          | Amortization of Intangible Plant - Account 302                                     | 0                  | 0              | 0              | 0              | 0              |
| 53 |          | Amortization of Intangible Plant - Account 303                                     | 0                  | 0              | 0              | 0              | 0              |
| 54 |          | Mining Plant Depreciation  | 0                  | 0              | 0              | 0              | 0              |
| 55 |          | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |          | Capital Lease - Common Plant   | 0                  | 0              | 0              | 0              | 0              |
| 57 |          | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |          | In-Service: Depreciation of Common Plant (a)                                       | 0                  | 0              | 0              | 0              | 0              |
| 59 |          | Amortization of Other Utility Plant (a)  | 0                  | 0              | 0              | 0              | 0              |
| 60 |          | Amortization of Acquisition Adjustments  | 0                  | 0              | 0              | 0              | 0              |
| 61 |          |  |                    |                |                |                |                |
| 62 |          | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |          |  |                    |                |                |                |                |
| 64 |          | <b>Total Depreciation and Amortization Reserve</b>                                 | 12,503,959         | 14,251,923     | 15,415,204     | 16,576,244     | 17,735,014     |
| 65 |          |  |                    |                |                |                |                |
| 66 |          | <b>Total Net Plant</b>   | 13,412,725         | 11,670,100     | 10,510,113     | 9,352,491      | 8,197,266      |
| 67 |          | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |

**TABLE B - FRANKLIN**  
**Appendix F**

|     | A        | B  | C           | D         | E         | F         | G         |
|-----|----------|--|-------------|-----------|-----------|-----------|-----------|
| 1   | FRANKLIN | Account Description  | Rate Period | FY 2012   | FY 2013   | FY 2014   | FY 2015   |
| 68  |          |  |             |           |           |           |           |
| 69  |          | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |           |           |           |           |
| 70  |          |  |             |           |           |           |           |
| 71  |          | <b>Cash Working Capital (f)</b>                            | 1,037,267   | 1,039,972 | 1,041,836 | 1,043,795 | 1,045,789 |
| 72  |          |  |             |           |           |           |           |
| 73  |          | <b>Utility Plant</b>                                       | 0           | 0         | 0         | 0         | 0         |
| 74  |          | (Utility Plant) Held For Future Use                        | 0           | 0         | 0         | 0         | 0         |
| 75  |          | (Utility Plant) Completed Construction - Not Classified    | 0           | 0         | 0         | 0         | 0         |
| 76  |          | Nuclear Fuel   | 0           | 0         | 0         | 0         | 0         |
| 77  |          | Construction Work in Progress (CWIP)                       | 0           | 0         | 0         | 0         | 0         |
| 78  |          | Common Plant   | 0           | 0         | 0         | 0         | 0         |
| 79  |          | Acquisition Adjustments (Electric)                         | 0           | 0         | 0         | 0         | 0         |
| 80  |          | <b>Total</b>   | 0           | 0         | 0         | 0         | 0         |
| 81  |          |  |             |           |           |           |           |
| 82  |          |  |             |           |           |           |           |
| 83  |          | Investment in Associated Companies                         | 0           | 0         | 0         | 0         | 0         |
| 84  |          | Other Investment   | 0           | 0         | 0         | 0         | 0         |
| 85  |          | Long-Term Portion of Derivative Assets                     | 0           | 0         | 0         | 0         | 0         |
| 86  |          | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0         | 0         | 0         | 0         |
| 87  |          | <b>Total</b>   | 0           | 0         | 0         | 0         | 0         |
| 88  |          |  |             |           |           |           |           |
| 89  |          |  |             |           |           |           |           |
| 90  |          | Fuel Stock   | 0           | 0         | 0         | 0         | 0         |
| 91  |          | Fuel Stock Expenses Undistributed                          | 0           | 0         | 0         | 0         | 0         |
| 92  |          | Plant Materials and Operating Supplies                     | 600,350     | 604,522   | 608,554   | 611,973   | 615,286   |
| 93  |          | Merchandise (Major Only)                                   | 0           | 0         | 0         | 0         | 0         |
| 94  |          | Other Materials and Supplies (Major only)                  | 0           | 0         | 0         | 0         | 0         |
| 95  |          | EPA Allowance Inventory                                    | 0           | 0         | 0         | 0         | 0         |
| 96  |          | EPA Allowances Withheld                                    | 0           | 0         | 0         | 0         | 0         |
| 97  |          | Stores Expense Undistributed                               | 0           | 0         | 0         | 0         | 0         |
| 98  |          | Prepayments  | 14,849      | 14,507    | 14,304    | 14,101    | 13,896    |
| 99  |          | Derivative Instrument Assets                               | 0           | 0         | 0         | 0         | 0         |
| 100 |          | Less: Long-Term Portion of Derivative Assets               | 0           | 0         | 0         | 0         | 0         |
| 101 |          | Derivative Instrument Assets - Hedges                      | 0           | 0         | 0         | 0         | 0         |
| 102 |          | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0         | 0         | 0         | 0         |
| 103 |          | <b>Total</b>   | 615,199     | 619,029   | 622,858   | 626,074   | 629,182   |

**TABLE B - FRANKLIN**  
**Appendix F**

|     | A        | B  | C                  | D              | E              | F              | G              |
|-----|----------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | FRANKLIN | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 104 |          |  |                    |                |                |                |                |
| 105 |          |  |                    |                |                |                |                |
| 106 |          | Unamortized Debt Expenses                                | 314,902            | 307,706        | 303,448        | 299,165        | 294,862        |
| 107 |          | Extraordinary Property Losses                            | 0                  | 0              | 0              | 0              | 0              |
| 108 |          | Unrecovered Plant and Regulatory Study Costs             | 0                  | 0              | 0              | 0              | 0              |
| 109 |          | Other Regulatory Assets                                  | 0                  | 0              | 0              | 0              | 0              |
| 110 |          | Prelim. Survey and Investigation Charges (Electric)      | 0                  | 0              | 0              | 0              | 0              |
| 111 |          | Preliminary Natural Gas Survey and Investigation Charges | 0                  | 0              | 0              | 0              | 0              |
| 112 |          | Other Preliminary Survey and Investigation Charges       | 0                  | 0              | 0              | 0              | 0              |
| 113 |          | Clearing Accounts  | 0                  | 0              | 0              | 0              | 0              |
| 114 |          | Temporary Facilities                                     | 0                  | 0              | 0              | 0              | 0              |
| 115 |          | Miscellaneous Deferred Debits                            | 3,392,599          | 3,392,599      | 3,392,599      | 3,392,599      | 3,392,599      |
| 116 |          | Deferred Losses from Disposition of Utility Plant        | 0                  | 0              | 0              | 0              | 0              |
| 117 |          | Research, Development, and Demonstration Expenditures    | 0                  | 0              | 0              | 0              | 0              |
| 118 |          | Unamortized Loss on Reacquired Debt                      | 0                  | 0              | 0              | 0              | 0              |
| 119 |          | Accumulated Deferred Income Taxes                        | 0                  | 0              | 0              | 0              | 0              |
| 120 |          | <b>Total</b>   | 3,707,501          | 3,700,305      | 3,696,047      | 3,691,764      | 3,687,461      |
| 121 |          |  |                    |                |                |                |                |
| 122 |          | <b>Total Assets and Other Debits</b>                     | 5,359,967          | 5,359,307      | 5,360,741      | 5,361,632      | 5,362,431      |

**TABLE B - FRANKLIN  
Appendix F**

|     | A        | B   | C           | D          | E          | F          | G          |
|-----|----------|---|-------------|------------|------------|------------|------------|
| 1   | FRANKLIN | Account Description   | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 123 |          |   |             |            |            |            |            |
| 124 |          | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |             |            |            |            |            |
| 125 |          | <b>CURRENT AND ACCRUED LIABILITIES</b>  |             |            |            |            |            |
| 126 |          | Derivative Instrument Liabilities   | 0           | 0          | 0          | 0          | 0          |
| 127 |          | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0           | 0          | 0          | 0          | 0          |
| 128 |          | Derivative Instrument Liabilities - Hedges                                    | 0           | 0          | 0          | 0          | 0          |
| 129 |          | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0           | 0          | 0          | 0          | 0          |
| 130 |          | <b>Total</b>  | 0           | 0          | 0          | 0          | 0          |
| 131 |          | <b>DEFERRED CREDITS</b>   |             |            |            |            |            |
| 132 |          | Long-Term Portion of Derivative Instrument Liabilities                        | 0           | 0          | 0          | 0          | 0          |
| 133 |          | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0           | 0          | 0          | 0          | 0          |
| 134 |          | Customer Advances for Construction  | 0           | 0          | 0          | 0          | 0          |
| 135 |          | Other Deferred Credits  | 3,106,648   | 3,106,648  | 3,106,648  | 3,106,648  | 3,106,648  |
| 136 |          | Other Regulatory Liabilities  | 0           | 0          | 0          | 0          | 0          |
| 137 |          | Accumulated Deferred Investment Tax Credits                                   | 0           | 0          | 0          | 0          | 0          |
| 138 |          | Deferred Gains from Disposition of Utility Plant                              | 0           | 0          | 0          | 0          | 0          |
| 139 |          | Unamortized Gain on Reacquired Debt   | 0           | 0          | 0          | 0          | 0          |
| 140 |          | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0           | 0          | 0          | 0          | 0          |
| 141 |          | Accumulated Deferred Income Taxes-Property                                    | 0           | 0          | 0          | 0          | 0          |
| 142 |          | Accumulated Deferred Income Taxes-Other                                       | 0           | 0          | 0          | 0          | 0          |
| 143 |          | <b>Total</b>  | 3,106,648   | 3,106,648  | 3,106,648  | 3,106,648  | 3,106,648  |
| 144 |          |   |             |            |            |            |            |
| 145 |          | <b>Total Liabilities and Other Credits</b>                                    | 3,106,648   | 3,106,648  | 3,106,648  | 3,106,648  | 3,106,648  |
| 146 |          |   |             |            |            |            |            |
| 147 |          |   |             |            |            |            |            |
| 148 |          | <b>Total Rate Base</b>  | 15,666,043  | 13,922,758 | 12,764,205 | 11,607,475 | 10,453,050 |
| 149 |          | <i>(Total Net Plant + Debits - Credits)</i>                                   |             |            |            |            |            |
| 150 |          |   |             |            |            |            |            |
| 151 |          |   |             |            |            |            |            |
| 152 |          | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 4.00%       | 4.00%      | 4.00%      | 4.00%      | 4.00%      |
| 153 |          |   |             |            |            |            |            |
| 154 |          | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 626,952     | 557,186    | 510,821    | 464,529    | 418,329    |

**TABLE B - FRANKLIN  
Appendix F**

|     | A        | B  | C           | D          | E          | F          | G          |
|-----|----------|--|-------------|------------|------------|------------|------------|
| 1   | FRANKLIN | Account Description                              | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 155 |          |  |             |            |            |            |            |
| 156 |          |  |             |            |            |            |            |
| 157 |          | <u>Schedule 3: Expenses</u>                      |             |            |            |            |            |
| 158 |          | Account Description                              |             |            |            |            |            |
| 159 |          |  |             |            |            |            |            |
| 160 |          |  |             |            |            |            |            |
| 161 |          | <b>Power Production Expenses:</b>                |             |            |            |            |            |
| 162 |          | <b>Steam Power Generation</b>                    |             |            |            |            |            |
| 163 |          | Steam Power - Fuel                               | 0           | 0          | 0          | 0          | 0          |
| 164 |          | Steam Power - Operations (Excluding 501 - Fuel)  | 0           | 0          | 0          | 0          | 0          |
| 165 |          | Steam Power - Maintenance                        | 0           | 0          | 0          | 0          | 0          |
| 166 |          | <b>Nuclear Power Generation</b>                  |             |            |            |            |            |
| 167 |          | Nuclear - Fuel                                   | 0           | 0          | 0          | 0          | 0          |
| 168 |          | Nuclear - Operation ( Excluding 518 - Fuel)      | 0           | 0          | 0          | 0          | 0          |
| 169 |          | Nuclear - Maintenance                            | 0           | 0          | 0          | 0          | 0          |
| 170 |          | <b>Hydraulic Power Generation</b>                |             |            |            |            |            |
| 171 |          | Hydraulic - Operation                            | 0           | 0          | 0          | 0          | 0          |
| 172 |          | Hydraulic - Maintenance                          | 0           | 0          | 0          | 0          | 0          |
| 173 |          | <b>Other Power Generation</b>                    |             |            |            |            |            |
| 174 |          | Other Power - Fuel                               | 1,655,695   | 1,736,741  | 1,804,336  | 1,843,456  | 1,887,995  |
| 175 |          | Other Power - Operations (Excluding 547 - Fuel)  | 38,528      | 40,103     | 40,774     | 41,447     | 42,214     |
| 176 |          | Other Power - Maintenance                        | 102,844     | 105,128    | 106,942    | 108,867    | 110,854    |
| 177 |          | <b>Other Power Supply Expenses</b>               |             |            |            |            |            |
| 178 |          | Purchased Power (Excluding REP Reversal)         | 50,153,483  | 52,516,567 | 54,728,000 | 57,064,056 | 59,525,586 |
| 179 |          | System Control and Load Dispatching              | 556,503     | 556,503    | 556,503    | 556,503    | 556,503    |
| 180 |          | Other Expenses                                   | 7,068,363   | 7,068,363  | 7,068,363  | 7,068,363  | 7,068,363  |
| 181 |          | BPA REP Reversal                                 | 0           | 0          | 0          | 0          | 0          |
| 182 |          | Public Purpose Charges (h)                       | 0           | 0          | 0          | 0          | 0          |
| 183 |          | Production Expense                               | 59,575,416  | 62,023,405 | 64,304,918 | 66,682,691 | 69,191,515 |
| 184 |          |  |             |            |            |            |            |
| 185 |          | <b>Transmission Expenses: (i)</b>                |             |            |            |            |            |
| 186 |          | Transmission of Electricity to Others (Wheeling) | 0           | 0          | 0          | 0          | 0          |
| 187 |          | Total Operations less Wheeling                   | 16,500      | 17,082     | 17,393     | 17,728     | 18,083     |
| 188 |          | Total Maintenance                                | 0           | 0          | 0          | 0          | 0          |
| 189 |          | <b>Total Transmission Expense</b>                | 16,500      | 17,082     | 17,393     | 17,728     | 18,083     |
| 190 |          |  |             |            |            |            |            |
| 191 |          | <b>Distribution Expense:</b>                     |             |            |            |            |            |
| 192 |          | Total Operations                                 | 0           | 0          | 0          | 0          | 0          |
| 193 |          | Total Maintenance                                | 0           | 0          | 0          | 0          | 0          |
| 194 |          | <b>Total Distribution Expense</b>                | 0           | 0          | 0          | 0          | 0          |

**TABLE B - FRANKLIN**  
**Appendix F**

|     | A        | B   | C                  | D              | E              | F              | G              |
|-----|----------|---|--------------------|----------------|----------------|----------------|----------------|
| 1   | FRANKLIN | <b>Account Description</b>                          | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 195 |          |   |                    |                |                |                |                |
| 196 |          | <b>Customer and Sales Expenses:</b>                 |                    |                |                |                |                |
| 197 |          | Total Customer Accounts                             | 0                  | 0              | 0              | 0              | 0              |
| 198 |          | Customer Service and Information                    | 0                  | 0              | 0              | 0              | 0              |
| 199 |          | Customer assistance expenses (Major only)           | 0                  | 0              | 0              | 0              | 0              |
| 200 |          | Customer Service and Information                    | 0                  | 0              | 0              | 0              | 0              |
| 201 |          | Total Sales Expense                                 | 0                  | 0              | 0              | 0              | 0              |
| 202 |          | <b>Total Customer and Sales Expenses</b>            | 0                  | 0              | 0              | 0              | 0              |
| 203 |          |   |                    |                |                |                |                |
| 204 |          | <b>Administration and General Expense:</b>          |                    |                |                |                |                |
| 205 |          | <b>Operation</b>                                    |                    |                |                |                |                |
| 206 |          | Administration and General Salaries                 | 159,779            | 165,211        | 169,029        | 173,045        | 177,099        |
| 207 |          | Office Supplies & Expenses                          | 31,776             | 32,857         | 33,616         | 34,415         | 35,221         |
| 208 |          | (Less) Administration Expenses Transferred - Credit | 0                  | 0              | 0              | 0              | 0              |
| 209 |          | Outside Services Employed                           | 20,658             | 21,360         | 21,854         | 22,373         | 22,897         |
| 210 |          | Property Insurance                                  | 27,126             | 27,729         | 28,172         | 28,635         | 29,091         |
| 211 |          | Injuries and Damages                                | 732                | 757            | 775            | 793            | 812            |
| 212 |          | Employee Pensions & Benefits                        | 275,328            | 284,688        | 291,266        | 298,187        | 305,173        |
| 213 |          | Franchise Requirements                              | 0                  | 0              | 0              | 0              | 0              |
| 214 |          | Regulatory Commission Expenses                      | 0                  | 0              | 0              | 0              | 0              |
| 215 |          | (Less) Duplicate Charges - Credit                   | 0                  | 0              | 0              | 0              | 0              |
| 216 |          | General Advertising Expenses                        | 0                  | 0              | 0              | 0              | 0              |
| 217 |          | Miscellaneous General Expenses                      | 0                  | 0              | 0              | 0              | 0              |
| 218 |          | Rents   | 0                  | 0              | 0              | 0              | 0              |
| 219 |          | Transportation Expenses (Non Major)                 | 0                  | 0              | 0              | 0              | 0              |
| 220 |          | <b>Maintenance</b>                                  | 0                  | 0              | 0              | 0              | 0              |
| 221 |          | Maintenance of General Plant                        | 0                  | 0              | 0              | 0              | 0              |
| 222 |          | <b>Total Administration and General Expenses</b>    | 515,400            | 532,601        | 544,711        | 557,448        | 570,292        |
| 223 |          |   |                    |                |                |                |                |
| 224 |          | <b>Total Operations and Maintenance</b>             | 60,107,316         | 62,573,087     | 64,867,022     | 67,257,867     | 69,779,890     |



**TABLE B - FRANKLIN**  
**Appendix F**

|     | A        | B  | C                  | D              | E              | F              | G              |
|-----|----------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | FRANKLIN | <b>Account Description</b>                                     | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 225 |          |  |                    |                |                |                |                |
| 226 |          |  |                    |                |                |                |                |
| 227 |          | <b>Depreciation and Amortization:</b>                          |                    |                |                |                |                |
| 228 |          | Amortization of Intangible Plant - Account 301                 | 0                  | 0              | 0              | 0              | 0              |
| 229 |          | Amortization of Intangible Plant - Account 302                 | 0                  | 0              | 0              | 0              | 0              |
| 230 |          | Amortization of Intangible Plant - Account 303                 | 0                  | 0              | 0              | 0              | 0              |
| 231 |          | Steam Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 232 |          | Nuclear Production Plant                                       | 0                  | 0              | 0              | 0              | 0              |
| 233 |          | Hydraulic Production Plant - Conventional                      | 0                  | 0              | 0              | 0              | 0              |
| 234 |          | Hydraulic Production Plant - Pumped Storage                    | 0                  | 0              | 0              | 0              | 0              |
| 235 |          | Other Production Plant   | 906,618            | 906,618        | 906,618        | 906,618        | 906,618        |
| 236 |          | Transmission Plant (i)   | 99,312             | 99,312         | 99,312         | 99,312         | 99,312         |
| 237 |          | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 238 |          | General Plant  | 180,019            | 178,259        | 178,512        | 178,771        | 179,038        |
| 239 |          | Common Plant - Electric  | 0                  | 0              | 0              | 0              | 0              |
| 240 |          | Common Plant - Electric  | 0                  | 0              | 0              | 0              | 0              |
| 241 |          | Depreciation Expense for Asset Retirement Costs                | 0                  | 0              | 0              | 0              | 0              |
| 242 |          | Amortization of Limited Term Electric Plant                    | 0                  | 0              | 0              | 0              | 0              |
| 243 |          | Amortization of Plant Acquisition Adjustments (Electric)       | 0                  | 0              | 0              | 0              | 0              |
| 244 |          | <b>Total Depreciation and Amortization</b>                     | 1,185,949          | 1,184,189      | 1,184,442      | 1,184,701      | 1,184,968      |
| 245 |          |  |                    |                |                |                |                |
| 246 |          |  |                    |                |                |                |                |
| 247 |          | <b>Total Operating Expenses</b>                                | 61,293,266         | 63,757,276     | 66,051,464     | 68,442,569     | 70,964,858     |
| 248 |          | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |                    |                |                |                |                |

**TABLE B - FRANKLIN**  
**Appendix F**

|     | A        | B  | C                  | D              | E              | F              | G              |
|-----|----------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | FRANKLIN | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 249 |          |  |                    |                |                |                |                |
| 250 |          | <u>Schedule 3A Items: Taxes (Including Income Taxes)</u> |                    |                |                |                |                |
| 251 |          | <b>Account Description</b>                               |                    |                |                |                |                |
| 252 |          |  |                    |                |                |                |                |
| 253 |          |  |                    |                |                |                |                |
| 254 |          | <b>FEDERAL</b>   |                    |                |                |                |                |
| 255 |          | Income Tax (Included on Schedule 2)                      | 0                  | 0              | 0              | 0              | 0              |
| 256 |          | Employment Tax   | 47,600             | 49,107         | 50,157         | 51,311         | 52,526         |
| 257 |          | Other Federal Taxes                                      | 0                  | 0              | 0              | 0              | 0              |
| 258 |          | <b>TOTAL FEDERAL</b>                                     | 47,600             | 49,107         | 50,157         | 51,311         | 52,526         |
| 259 |          |  |                    |                |                |                |                |
| 260 |          | <b>STATE AND OTHER</b>                                   |                    |                |                |                |                |
| 261 |          | Property   | 0                  | 0              | 0              | 0              | 0              |
| 262 |          | Unemployment   | 6,176              | 6,372          | 6,508          | 6,658          | 6,815          |
| 263 |          | State Income, B&O, et.                                   | 0                  | 0              | 0              | 0              | 0              |
| 264 |          | Franchise Fees   | 0                  | 0              | 0              | 0              | 0              |
| 265 |          | Regulatory Commission                                    | 0                  | 0              | 0              | 0              | 0              |
| 266 |          | City/Municipal   | 0                  | 0              | 0              | 0              | 0              |
| 267 |          | Other  | 0                  | 0              | 0              | 0              | 0              |
| 268 |          | <b>TOTAL STATE AND OTHER TAXES</b>                       | 6,176              | 6,372          | 6,508          | 6,658          | 6,815          |
| 269 |          |  |                    |                |                |                |                |
| 270 |          | <b>TOTAL TAXES</b>                                       | 53,776             | 55,479         | 56,665         | 57,969         | 59,341         |
| 271 |          |  |                    |                |                |                |                |
| 272 |          |  |                    |                |                |                |                |

**TABLE B - FRANKLIN**  
**Appendix F**

|     | A        | B  | C                  | D              | E              | F              | G              |
|-----|----------|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | FRANKLIN | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 273 |          | <u>Schedule 3B: Other Included Items</u>   |                    |                |                |                |                |
| 274 |          | <b>Account Description</b>   |                    |                |                |                |                |
| 275 |          |  |                    |                |                |                |                |
| 276 |          |  |                    |                |                |                |                |
| 277 |          | <b>Other Included Items:</b>   |                    |                |                |                |                |
| 278 |          | Regulatory Credits   | 0                  | 0              | 0              | 0              | 0              |
| 279 |          | (Less) Regulatory Debits   | 0                  | 0              | 0              | 0              | 0              |
| 280 |          | Gain from Disposition of Utility Plant   | 0                  | 0              | 0              | 0              | 0              |
| 281 |          | (Less) Loss from Disposition of Utility Plant                                      | 0                  | 0              | 0              | 0              | 0              |
| 282 |          | Gain from Disposition of Allowances  | 0                  | 0              | 0              | 0              | 0              |
| 283 |          | (Less) Loss from Disposition of Allowances   | 0                  | 0              | 0              | 0              | 0              |
| 284 |          | Miscellaneous Nonoperating Income  | 0                  | 0              | 0              | 0              | 0              |
| 285 |          | <b>Total Other Included Items</b>  | 0                  | 0              | 0              | 0              | 0              |
| 286 |          |  |                    |                |                |                |                |
| 287 |          | <b>Sale for Resale:</b>  |                    |                |                |                |                |
| 288 |          | Sales for Resale   | 16,981,691         | 18,970,060     | 19,535,171     | 20,242,911     | 20,967,600     |
| 289 |          | <b>Total Sales for Resale</b>  | 16,981,691         | 18,970,060     | 19,535,171     | 20,242,911     | 20,967,600     |
| 290 |          |  |                    |                |                |                |                |
| 291 |          | <b>Other Revenues:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 292 |          | Forfeited Discounts  | 0                  | 0              | 0              | 0              | 0              |
| 293 |          | Miscellaneous Service Revenues   | 0                  | 0              | 0              | 0              | 0              |
| 294 |          | Sales of Water and Water Power   | 0                  | 0              | 0              | 0              | 0              |
| 295 |          | Rent from Electric Property  | 4,094              | 3,984          | 3,920          | 3,855          | 3,790          |
| 296 |          | Interdepartmental Rents  | 0                  | 0              | 0              | 0              | 0              |
| 297 |          | Other Electric Revenues  | 0                  | 0              | 0              | 0              | 0              |
| 298 |          | Revenues from Transmission of Electricity of Others (i)                            | 88                 | 88             | 88             | 88             | 88             |
| 299 |          |  |                    |                |                |                |                |
| 300 |          | <b>Total Other Revenues</b>  | 4,182              | 4,072          | 4,008          | 3,943          | 3,878          |
| 301 |          |  |                    |                |                |                |                |
| 302 |          | <b>Total Other Included Items</b>  | 16,985,873         | 18,974,132     | 19,539,178     | 20,246,854     | 20,971,478     |
| 303 |          | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |                    |                |                |                |                |

**TABLE B - FRANKLIN  
Appendix F**

|     | A        | B   | C                  | D                 | E                 | F                 | G                 |
|-----|----------|---|--------------------|-------------------|-------------------|-------------------|-------------------|
| 1   | FRANKLIN | <b>Account Description</b>  | <b>Rate Period</b> | <b>FY 2012</b>    | <b>FY 2013</b>    | <b>FY 2014</b>    | <b>FY 2015</b>    |
| 304 |          |   |                    |                   |                   |                   |                   |
| 305 |          | <u>Schedule 4: Average System Cost</u>  |                    |                   |                   |                   |                   |
| 306 |          |   |                    |                   |                   |                   |                   |
| 307 |          |   | <b>10/1/2010</b>   | <b>4/1/2012</b>   | <b>4/1/2013</b>   | <b>4/1/2014</b>   | <b>4/1/2015</b>   |
| 308 |          |   |                    |                   |                   |                   |                   |
| 309 |          | <b>Total Operating Expenses</b>   | 61,293,266         | 63,757,276        | 66,051,464        | 68,442,569        | 70,964,858        |
| 310 |          | (From Schedule 3)   |                    |                   |                   |                   |                   |
| 311 |          |   |                    |                   |                   |                   |                   |
| 312 |          | <b>Federal Income Tax Adjusted Return on Rate Base</b>  | 626,952            | 557,186           | 510,821           | 464,529           | 418,329           |
| 313 |          | (From Schedule 2)   |                    |                   |                   |                   |                   |
| 314 |          |   |                    |                   |                   |                   |                   |
| 315 |          | <b>State and Other Taxes</b>  | 53,776             | 55,479            | 56,665            | 57,969            | 59,341            |
| 316 |          | (From Schedule 3a)  |                    |                   |                   |                   |                   |
| 317 |          |   |                    |                   |                   |                   |                   |
| 318 |          | <b>Total Other Included Items</b>   | 16,985,873         | 18,974,132        | 19,539,178        | 20,246,854        | 20,971,478        |
| 319 |          | (From Schedule 3b)  |                    |                   |                   |                   |                   |
| 320 |          |   |                    |                   |                   |                   |                   |
| 321 |          | <b>Total Cost</b>   | <b>44,988,121</b>  | <b>45,395,809</b> | <b>47,079,772</b> | <b>48,718,213</b> | <b>50,471,050</b> |
| 322 |          | (Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items) |                    |                   |                   |                   |                   |
| 323 |          |   |                    |                   |                   |                   |                   |
| 324 |          |   |                    |                   |                   |                   |                   |
| 325 |          |   |                    |                   |                   |                   |                   |
| 326 |          | <b>Contract System Cost</b>   |                    |                   |                   |                   |                   |
| 327 |          | Production and Transmission   | 44,988,121         | 45,395,809        | 47,079,772        | 48,718,213        | 50,471,050        |
| 328 |          | (Less) New Large Single Load Costs (d)  | 0                  | 0                 | 0                 | 0                 | 0                 |
| 329 |          | <b>Total Contract System Cost</b>   | <b>44,988,121</b>  | <b>45,395,809</b> | <b>47,079,772</b> | <b>48,718,213</b> | <b>50,471,050</b> |
| 330 |          |   |                    |                   |                   |                   |                   |
| 331 |          | <b>Contract System Load (MWh)</b>   |                    |                   |                   |                   |                   |
| 332 |          | Total Retail Load   | 1,010,000          | 1,034,000         | 1,049,000         | 1,064,218         | 1,079,656         |
| 333 |          | (Less) New Large Single Load  | 0                  | 0                 | 0                 | 0                 | 0                 |
| 334 |          | Total Retail Load (Net of NLSL) (d)   | 1,010,000          | 1,034,000         | 1,049,000         | 1,064,218         | 1,079,656         |
| 335 |          | Distribution Loss (f)   | 47,226             | 48,349            | 49,050            | 49,762            | 50,483            |
| 336 |          | <b>Total Contract System Load</b>   | <b>1,057,226</b>   | <b>1,082,349</b>  | <b>1,098,050</b>  | <b>1,113,979</b>  | <b>1,130,139</b>  |
| 337 |          |   |                    |                   |                   |                   |                   |
| 338 |          | <b>Average System Cost \$/MWh</b>   | <b>42.55</b>       | <b>41.94</b>      | <b>42.88</b>      | <b>43.73</b>      | <b>44.66</b>      |
| 339 |          |   |                    |                   |                   |                   |                   |

**TABLE C - IDAHO POWER**  
**Appendix F**

|    | A   | B  | C                  | D              | E              | F              | G              |
|----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | IPC | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |     | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |     | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |     | Intangible Plant - Franchises and Consents   | 21,771,624         | 21,771,624     | 21,771,624     | 21,771,624     | 21,771,624     |
| 5  |     | Intangible Plant - Miscellaneous   | 32,551,511         | 32,551,511     | 32,551,511     | 32,551,511     | 32,551,511     |
| 6  |     | <b>Total Intangible Plant</b>  | 54,323,135         | 54,323,135     | 54,323,135     | 54,323,135     | 54,323,135     |
| 7  |     |  |                    |                |                |                |                |
| 8  |     | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |     | Steam Production   | 865,431,711        | 865,431,711    | 865,431,711    | 865,431,711    | 865,431,711    |
| 10 |     | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |     | Hydraulic Production   | 667,750,066        | 667,750,066    | 667,750,066    | 667,750,066    | 667,750,066    |
| 12 |     | Other Production   | 170,760,125        | 170,760,125    | 170,760,125    | 170,760,125    | 170,760,125    |
| 13 |     | <b>Total Production Plant</b>  | 1,703,941,902      | 1,703,941,902  | 1,703,941,902  | 1,703,941,902  | 1,703,941,902  |
| 14 |     |  |                    |                |                |                |                |
| 15 |     | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |     | Transmission Plant   | 684,399,525        | 684,399,525    | 684,399,525    | 684,399,525    | 684,399,525    |
| 17 |     | <b>Total Transmission Plant</b>  | 684,399,525        | 684,399,525    | 684,399,525    | 684,399,525    | 684,399,525    |
| 18 |     |  |                    |                |                |                |                |
| 19 |     | <b>Distribution Plant:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 20 |     | Distribution Plant   | 0                  | 1,292,454,771  | 1,304,479,759  | 1,320,966,324  | 1,336,086,036  |
| 21 |     | <b>Total Distribution Plant</b>  | 0                  | 1,292,454,771  | 1,304,479,759  | 1,320,966,324  | 1,336,086,036  |
| 22 |     |  |                    |                |                |                |                |
| 23 |     | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |     | Land and Land Rights   | 6,055,675          | 6,055,675      | 6,055,675      | 6,055,675      | 6,055,675      |
| 25 |     | Structures and Improvements  | 46,948,487         | 46,948,487     | 46,948,487     | 46,948,487     | 46,948,487     |
| 26 |     | Furniture and Equipment  | 20,284,267         | 20,406,450     | 20,442,230     | 20,491,286     | 20,536,274     |
| 27 |     | Transportation Equipment   | 21,054,112         | 20,849,372     | 20,791,017     | 20,712,147     | 20,640,948     |
| 28 |     | Stores Equipment   | 733,440            | 733,440        | 733,440        | 733,440        | 733,440        |
| 29 |     | Tools and Garage Equipment   | 3,009,862          | 3,009,862      | 3,009,862      | 3,009,862      | 3,009,862      |
| 30 |     | Laboratory Equipment   | 6,983,353          | 6,983,353      | 6,983,353      | 6,983,353      | 6,983,353      |
| 31 |     | Power Operated Equipment   | 3,202,775          | 3,171,630      | 3,162,752      | 3,150,755      | 3,139,924      |
| 32 |     | Communication Equipment  | 17,671,376         | 17,671,376     | 17,671,376     | 17,671,376     | 17,671,376     |
| 33 |     | Miscellaneous Equipment  | 2,065,204          | 2,065,204      | 2,065,204      | 2,065,204      | 2,065,204      |
| 34 |     | Other Tangible Property  | 0                  | 0              | 0              | 0              | 0              |
| 35 |     | Asset Retirement Costs for General Plant   | 0                  | 0              | 0              | 0              | 0              |
| 36 |     |  |                    |                |                |                |                |
| 37 |     | <b>Total General Plant</b>   | 128,008,550        | 127,894,848    | 127,863,396    | 127,821,584    | 127,784,542    |
| 38 |     |  |                    |                |                |                |                |
| 39 |     | <b>Total Electric Plant In-Service</b>   | 2,570,673,111      | 2,570,559,410  | 2,570,527,957  | 2,570,486,145  | 2,570,449,104  |
| 40 |     | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |     |  |                    |                |                |                |                |

**TABLE C - IDAHO POWER**  
**Appendix F**

|    | A                           | B  | C                  | D              | E              | F              | G              |
|----|-----------------------------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | IPC                         | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 | <b>LESS:</b>                |  |                    |                |                |                |                |
| 43 | <b>Depreciation Reserve</b> |  |                    |                |                |                |                |
| 44 |                             | Steam Production Plant   | 499,464,271        | 535,482,691    | 559,494,971    | 583,507,251    | 607,519,531    |
| 45 |                             | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |                             | Hydraulic Production Plant   | 287,003,913        | 306,217,492    | 319,026,545    | 331,835,598    | 344,644,651    |
| 47 |                             | Other Production Plant   | 25,522,252         | 32,809,498     | 37,667,662     | 42,525,826     | 47,383,990     |
| 48 |                             | Transmission Plant (i)   | 258,765,350        | 279,349,523    | 293,072,305    | 306,795,087    | 320,517,869    |
| 49 |                             | Distribution Plant   | 0                  | 554,272,081    | 586,401,858    | 618,830,570    | 651,669,130    |
| 50 |                             | General Plant  | 65,995,247         | 75,459,432     | 82,041,468     | 88,486,557     | 94,939,701     |
| 51 |                             | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |                             | Amortization of Intangible Plant - Account 302                                     | 0                  | 0              | 0              | 0              | 0              |
| 53 |                             | Amortization of Intangible Plant - Account 303                                     | 0                  | 0              | 0              | 0              | 0              |
| 54 |                             | Mining Plant Depreciation  | 0                  | 0              | 0              | 0              | 0              |
| 55 |                             | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |                             | Capital Lease - Common Plant   | 0                  | 0              | 0              | 0              | 0              |
| 57 |                             | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |                             | In-Service: Depreciation of Common Plant (a)                                       | 0                  | 0              | 0              | 0              | 0              |
| 59 |                             | Amortization of Other Utility Plant (a)  | 26,764,500         | 26,764,500     | 26,764,500     | 26,764,500     | 26,764,500     |
| 60 |                             | Amortization of Acquisition Adjustments  | 0                  | 0              | 0              | 0              | 0              |
| 61 |                             |  |                    |                |                |                |                |
| 62 |                             | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |                             |  |                    |                |                |                |                |
| 64 |                             | <b>Total Depreciation and Amortization Reserve</b>                                 | 1,163,515,532      | 1,256,083,135  | 1,318,067,450  | 1,379,914,818  | 1,441,770,241  |
| 65 |                             |  |                    |                |                |                |                |
| 66 |                             | <b>Total Net Plant</b>   | 1,407,157,579      | 1,314,476,275  | 1,252,460,507  | 1,190,571,328  | 1,128,678,863  |
| 67 |                             | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C           | D          | E          | F          | G          |
|-----|-----|--|-------------|------------|------------|------------|------------|
| 1   | IPC | Account Description  | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 68  |     |  |             |            |            |            |            |
| 69  |     | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |            |            |            |            |
| 70  |     |  |             |            |            |            |            |
| 71  |     | <b>Cash Working Capital (f)</b>                            | 8,098,312   | 8,796,706  | 9,302,148  | 9,812,538  | 10,337,388 |
| 72  |     |  |             |            |            |            |            |
| 73  |     | <b>Utility Plant</b>                                       | 0           | 0          | 0          | 0          | 0          |
| 74  |     | (Utility Plant) Held For Future Use                        | 0           | 0          | 0          | 0          | 0          |
| 75  |     | (Utility Plant) Completed Construction - Not Classified    | 0           | 0          | 0          | 0          | 0          |
| 76  |     | Nuclear Fuel   | 0           | 0          | 0          | 0          | 0          |
| 77  |     | Construction Work in Progress (CWIP)                       | 0           | 0          | 0          | 0          | 0          |
| 78  |     | Common Plant   | 0           | 0          | 0          | 0          | 0          |
| 79  |     | Acquisition Adjustments (Electric)                         | 0           | 0          | 0          | 0          | 0          |
| 80  |     | <b>Total</b>   | 0           | 0          | 0          | 0          | 0          |
| 81  |     |  |             |            |            |            |            |
| 82  |     |  |             |            |            |            |            |
| 83  |     | Investment in Associated Companies                         | 55,937,107  | 55,937,107 | 55,937,107 | 55,937,107 | 55,937,107 |
| 84  |     | Other Investment   | 0           | 0          | 0          | 0          | 0          |
| 85  |     | Long-Term Portion of Derivative Assets                     | 0           | 0          | 0          | 0          | 0          |
| 86  |     | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0          | 0          | 0          | 0          |
| 87  |     | <b>Total</b>   | 55,937,107  | 55,937,107 | 55,937,107 | 55,937,107 | 55,937,107 |
| 88  |     |  |             |            |            |            |            |
| 89  |     |  |             |            |            |            |            |
| 90  |     | Fuel Stock   | 18,456,956  | 18,404,194 | 18,491,407 | 18,745,649 | 19,036,199 |
| 91  |     | Fuel Stock Expenses Undistributed                          | 0           | 0          | 0          | 0          | 0          |
| 92  |     | Plant Materials and Operating Supplies                     | 28,799,776  | 29,353,031 | 29,869,657 | 30,336,096 | 30,824,000 |
| 93  |     | Merchandise (Major Only)                                   | 0           | 0          | 0          | 0          | 0          |
| 94  |     | Other Materials and Supplies (Major only)                  | 0           | 0          | 0          | 0          | 0          |
| 95  |     | EPA Allowance Inventory                                    | 0           | 0          | 0          | 0          | 0          |
| 96  |     | EPA Allowances Withheld                                    | 0           | 0          | 0          | 0          | 0          |
| 97  |     | Stores Expense Undistributed                               | 1,321,934   | 1,347,329  | 1,371,042  | 1,392,452  | 1,414,847  |
| 98  |     | Prepayments  | 5,984,315   | 5,917,553  | 5,898,283  | 5,872,068  | 5,848,229  |
| 99  |     | Derivative Instrument Assets                               | 0           | 0          | 0          | 0          | 0          |
| 100 |     | Less: Long-Term Portion of Derivative Assets               | 0           | 0          | 0          | 0          | 0          |
| 101 |     | Derivative Instrument Assets - Hedges                      | 0           | 0          | 0          | 0          | 0          |
| 102 |     | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0          | 0          | 0          | 0          |
| 103 |     | <b>Total</b>   | 54,562,980  | 55,022,107 | 55,630,390 | 56,346,264 | 57,123,275 |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C                  | D                  | E                  | F                  | G                  |
|-----|-----|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | IPC | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 104 |     |  |                    |                    |                    |                    |                    |
| 105 |     |  |                    |                    |                    |                    |                    |
| 106 |     | Unamortized Debt Expenses                                | 8,723,279          | 8,627,306          | 8,599,605          | 8,561,916          | 8,527,645          |
| 107 |     | Extraordinary Property Losses                            | 0                  | 0                  | 0                  | 0                  | 0                  |
| 108 |     | Unrecovered Plant and Regulatory Study Costs             | 0                  | 0                  | 0                  | 0                  | 0                  |
| 109 |     | Other Regulatory Assets                                  | 299,898,409        | 299,898,409        | 299,898,409        | 299,898,409        | 299,898,409        |
| 110 |     | Prelim. Survey and Investigation Charges (Electric)      | 0                  | 0                  | 0                  | 0                  | 0                  |
| 111 |     | Preliminary Natural Gas Survey and Investigation Charges | 0                  | 0                  | 0                  | 0                  | 0                  |
| 112 |     | Other Preliminary Survey and Investigation Charges       | 0                  | 0                  | 0                  | 0                  | 0                  |
| 113 |     | Clearing Accounts  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 114 |     | Temporary Facilities                                     | 0                  | 0                  | 0                  | 0                  | 0                  |
| 115 |     | Miscellaneous Deferred Debits                            | 62,578,950         | 62,578,950         | 62,578,950         | 62,578,950         | 62,578,950         |
| 116 |     | Deferred Losses from Disposition of Utility Plant        | 0                  | 0                  | 0                  | 0                  | 0                  |
| 117 |     | Research, Development, and Demonstration Expenditures    | 0                  | 0                  | 0                  | 0                  | 0                  |
| 118 |     | Unamortized Loss on Reacquired Debt                      | 8,826,420          | 8,729,312          | 8,701,283          | 8,663,149          | 8,628,473          |
| 119 |     | Accumulated Deferred Income Taxes                        | 0                  | 0                  | 0                  | 0                  | 0                  |
| 120 |     | <b>Total</b>   | <b>380,027,058</b> | <b>379,833,977</b> | <b>379,778,247</b> | <b>379,702,424</b> | <b>379,633,477</b> |
| 121 |     |  |                    |                    |                    |                    |                    |
| 122 |     | <b>Total Assets and Other Debits</b>                     | <b>498,625,457</b> | <b>499,589,897</b> | <b>500,647,892</b> | <b>501,798,334</b> | <b>503,031,247</b> |



**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | IPC | Account Description   | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 123 |     |   |               |               |               |               |               |
| 124 |     | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |               |               |               |               |               |
| 125 |     | <b>CURRENT AND ACCRUED LIABILITIES</b>  |               |               |               |               |               |
| 126 |     | Derivative Instrument Liabilities   | 0             | 0             | 0             | 0             | 0             |
| 127 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0             | 0             | 0             | 0             | 0             |
| 128 |     | Derivative Instrument Liabilities - Hedges                                    | 0             | 0             | 0             | 0             | 0             |
| 129 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0             | 0             | 0             | 0             | 0             |
| 130 |     | <b>Total</b>  | 0             | 0             | 0             | 0             | 0             |
| 131 |     | <b>DEFERRED CREDITS</b>   |               |               |               |               |               |
| 132 |     | Long-Term Portion of Derivative Instrument Liabilities                        | 0             | 0             | 0             | 0             | 0             |
| 133 |     | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0             | 0             | 0             | 0             | 0             |
| 134 |     | Customer Advances for Construction  | 0             | 0             | 0             | 0             | 0             |
| 135 |     | Other Deferred Credits  | 19,319,547    | 19,319,547    | 19,319,547    | 19,319,547    | 19,319,547    |
| 136 |     | Other Regulatory Liabilities  | 134,950,648   | 134,950,648   | 134,950,648   | 134,950,648   | 134,950,648   |
| 137 |     | Accumulated Deferred Investment Tax Credits                                   | 0             | 0             | 0             | 0             | 0             |
| 138 |     | Deferred Gains from Disposition of Utility Plant                              | 0             | 0             | 0             | 0             | 0             |
| 139 |     | Unamortized Gain on Reacquired Debt   | 0             | 0             | 0             | 0             | 0             |
| 140 |     | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0             | 0             | 0             | 0             | 0             |
| 141 |     | Accumulated Deferred Income Taxes-Property                                    | 0             | 0             | 0             | 0             | 0             |
| 142 |     | Accumulated Deferred Income Taxes-Other                                       | 0             | 0             | 0             | 0             | 0             |
| 143 |     | <b>Total</b>  | 154,270,196   | 154,270,196   | 154,270,196   | 154,270,196   | 154,270,196   |
| 144 |     |   |               |               |               |               |               |
| 145 |     | <b>Total Liabilities and Other Credits</b>                                    | 154,270,196   | 154,270,196   | 154,270,196   | 154,270,196   | 154,270,196   |
| 146 |     |   |               |               |               |               |               |
| 147 |     |   |               |               |               |               |               |
| 148 |     | <b>Total Rate Base</b>  | 1,751,512,841 | 1,659,795,976 | 1,598,838,203 | 1,538,099,466 | 1,477,439,914 |
| 149 |     | <i>(Total Net Plant + Debits - Credits)</i>                                   |               |               |               |               |               |
| 150 |     |   |               |               |               |               |               |
| 151 |     |   |               |               |               |               |               |
| 152 |     | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 10.95%        | 10.95%        | 10.95%        | 10.95%        | 10.95%        |
| 153 |     |   |               |               |               |               |               |
| 154 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 191,765,596   | 181,723,912   | 175,049,908   | 168,399,885   | 161,758,532   |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C             | D             | E             | F             | G             |
|-----|-----|--|---------------|---------------|---------------|---------------|---------------|
| 1   | IPC | Account Description                              | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 155 |     |  |               |               |               |               |               |
| 156 |     |  |               |               |               |               |               |
| 157 |     | <u>Schedule 3: Expenses</u>                      |               |               |               |               |               |
| 158 |     | Account Description                              |               |               |               |               |               |
| 159 |     |  |               |               |               |               |               |
| 160 |     |  |               |               |               |               |               |
| 161 |     | <b>Power Production Expenses:</b>                |               |               |               |               |               |
| 162 |     | <b>Steam Power Generation</b>                    |               |               |               |               |               |
| 163 |     | Steam Power - Fuel                               | 122,746,777   | 122,395,891   | 122,975,894   | 124,666,711   | 126,598,999   |
| 164 |     | Steam Power - Operations (Excluding 501 - Fuel)  | 21,019,596    | 21,625,459    | 22,074,185    | 22,515,669    | 22,971,609    |
| 165 |     | Steam Power - Maintenance                        | 32,042,281    | 32,898,309    | 33,613,844    | 34,302,916    | 34,963,244    |
| 166 |     | <b>Nuclear Power Generation</b>                  |               |               |               |               |               |
| 167 |     | Nuclear - Fuel                                   | 0             | 0             | 0             | 0             | 0             |
| 168 |     | Nuclear - Operation ( Excluding 518 - Fuel)      | 0             | 0             | 0             | 0             | 0             |
| 169 |     | Nuclear - Maintenance                            | 0             | 0             | 0             | 0             | 0             |
| 170 |     | <b>Hydraulic Power Generation</b>                |               |               |               |               |               |
| 171 |     | Hydraulic - Operation                            | 27,077,007    | 27,711,850    | 28,058,238    | 28,380,897    | 28,771,111    |
| 172 |     | Hydraulic - Maintenance                          | 9,280,161     | 9,501,425     | 9,689,077     | 9,870,746     | 10,050,887    |
| 173 |     | <b>Other Power Generation</b>                    |               |               |               |               |               |
| 174 |     | Other Power - Fuel                               | 28,339,372    | 29,726,575    | 30,883,555    | 31,553,136    | 32,315,488    |
| 175 |     | Other Power - Operations (Excluding 547 - Fuel)  | 1,337,075     | 1,391,726     | 1,415,038     | 1,438,385     | 1,464,995     |
| 176 |     | Other Power - Maintenance                        | 981,453       | 1,003,252     | 1,020,558     | 1,038,928     | 1,057,889     |
| 177 |     | <b>Other Power Supply Expenses</b>               |               |               |               |               |               |
| 178 |     | Purchased Power (Excluding REP Reversal)         | 344,015,861   | 405,052,045   | 425,669,018   | 452,770,287   | 479,809,575   |
| 179 |     | System Control and Load Dispatching              | 77,489        | 77,489        | 77,489        | 77,489        | 77,489        |
| 180 |     | Other Expenses                                   | (118,678,522) | (118,678,522) | (118,678,522) | (118,678,522) | (118,678,522) |
| 181 |     | BPA REP Reversal                                 | 0             | 0             | 0             | 0             | 0             |
| 182 |     | Public Purpose Charges (h)                       | 0             | 0             | 0             | 0             | 0             |
| 183 |     | Production Expense                               | 468,238,549   | 532,705,498   | 556,798,374   | 587,936,642   | 619,402,762   |
| 184 |     |  |               |               |               |               |               |
| 185 |     | <b>Transmission Expenses: (i)</b>                |               |               |               |               |               |
| 186 |     | Transmission of Electricity to Others (Wheeling) | 11,107,188    | 11,448,280    | 11,687,834    | 11,923,343    | 12,164,493    |
| 187 |     | Total Operations less Wheeling                   | 11,029,613    | 11,418,127    | 11,626,507    | 11,850,316    | 12,087,323    |
| 188 |     | Total Maintenance                                | 6,644,271     | 6,761,190     | 6,884,581     | 7,011,943     | 7,132,899     |
| 189 |     | <b>Total Transmission Expense</b>                | 28,781,073    | 29,627,597    | 30,198,922    | 30,785,603    | 31,384,714    |
| 190 |     |  |               |               |               |               |               |
| 191 |     | <b>Distribution Expense:</b>                     |               |               |               |               |               |
| 192 |     | Total Operations                                 | 0             | 0             | 0             | 0             | 0             |
| 193 |     | Total Maintenance                                | 0             | 0             | 0             | 0             | 0             |
| 194 |     | <b>Total Distribution Expense</b>                | 0             | 0             | 0             | 0             | 0             |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B   | C           | D           | E           | F           | G           |
|-----|-----|---|-------------|-------------|-------------|-------------|-------------|
| 1   | IPC | Account Description                                 | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 195 |     |   |             |             |             |             |             |
| 196 |     | <b>Customer and Sales Expenses:</b>                 |             |             |             |             |             |
| 197 |     | Total Customer Accounts                             | 0           | 0           | 0           | 0           | 0           |
| 198 |     | Customer Service and Information                    | 0           | 0           | 0           | 0           | 0           |
| 199 |     | Customer assistance expenses (Major only)           | 10,075,956  | 10,299,626  | 10,464,405  | 10,663,228  | 10,865,830  |
| 200 |     | Customer Service and Information                    | 0           | 0           | 0           | 0           | 0           |
| 201 |     | Total Sales Expense                                 | 0           | 0           | 0           | 0           | 0           |
| 202 |     | <b>Total Customer and Sales Expenses</b>            | 10,075,956  | 10,299,626  | 10,464,405  | 10,663,228  | 10,865,830  |
| 203 |     |   |             |             |             |             |             |
| 204 |     | <b>Administration and General Expense:</b>          |             |             |             |             |             |
| 205 |     | <b>Operation</b>                                    |             |             |             |             |             |
| 206 |     | Administration and General Salaries                 | 28,008,904  | 29,147,969  | 29,984,389  | 30,850,358  | 31,739,443  |
| 207 |     | Office Supplies & Expenses                          | 10,009,160  | 10,416,213  | 10,715,112  | 11,024,572  | 11,342,292  |
| 208 |     | (Less) Administration Expenses Transferred - Credit | 15,589,075  | 16,223,052  | 16,688,582  | 17,170,560  | 17,665,403  |
| 209 |     | Outside Services Employed                           | 6,319,738   | 6,576,749   | 6,765,473   | 6,960,864   | 7,161,472   |
| 210 |     | Property Insurance                                  | 2,360,411   | 2,442,077   | 2,507,871   | 2,574,284   | 2,642,822   |
| 211 |     | Injuries and Damages                                | 3,065,298   | 3,189,958   | 3,281,495   | 3,376,267   | 3,473,569   |
| 212 |     | Employee Pensions & Benefits                        | 15,681,108  | 16,318,827  | 16,787,106  | 17,271,929  | 17,769,694  |
| 213 |     | Franchise Requirements                              | 0           | 0           | 0           | 0           | 0           |
| 214 |     | Regulatory Commission Expenses                      | 0           | 0           | 0           | 0           | 0           |
| 215 |     | (Less) Duplicate Charges - Credit                   | 0           | 0           | 0           | 0           | 0           |
| 216 |     | General Advertising Expenses                        | 380,401     | 397,940     | 409,978     | 422,687     | 435,685     |
| 217 |     | Miscellaneous General Expenses                      | 0           | 0           | 0           | 0           | 0           |
| 218 |     | Rents   | 0           | 0           | 0           | 0           | 0           |
| 219 |     | Transportation Expenses (Non Major)                 | 0           | 0           | 0           | 0           | 0           |
| 220 |     | <b>Maintenance</b>                                  | 0           | 0           | 0           | 0           | 0           |
| 221 |     | Maintenance of General Plant                        | 2,556,981   | 2,648,752   | 2,721,107   | 2,794,565   | 2,870,284   |
| 222 |     | <b>Total Administration and General Expenses</b>    | 52,792,926  | 54,915,433  | 56,483,950  | 58,104,967  | 59,769,858  |
| 223 |     |   |             |             |             |             |             |
| 224 |     | <b>Total Operations and Maintenance</b>             | 559,888,503 | 627,548,154 | 653,945,650 | 687,490,440 | 721,423,164 |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | IPC | Account Description  | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 225 |     |  |             |             |             |             |             |
| 226 |     |  |             |             |             |             |             |
| 227 |     | <b>Depreciation and Amortization:</b>                          |             |             |             |             |             |
| 228 |     | Amortization of Intangible Plant - Account 301                 | 0           | 0           | 0           | 0           | 0           |
| 229 |     | Amortization of Intangible Plant - Account 302                 | 781,058     | 781,058     | 781,058     | 781,058     | 781,058     |
| 230 |     | Amortization of Intangible Plant - Account 303                 | 4,859,199   | 4,859,199   | 4,859,199   | 4,859,199   | 4,859,199   |
| 231 |     | Steam Production Plant   | 24,012,280  | 24,012,280  | 24,012,280  | 24,012,280  | 24,012,280  |
| 232 |     | Nuclear Production Plant                                       | 0           | 0           | 0           | 0           | 0           |
| 233 |     | Hydraulic Production Plant - Conventional                      | 12,809,053  | 12,809,053  | 12,809,053  | 12,809,053  | 12,809,053  |
| 234 |     | Hydraulic Production Plant - Pumped Storage                    | 0           | 0           | 0           | 0           | 0           |
| 235 |     | Other Production Plant   | 4,858,164   | 4,858,164   | 4,858,164   | 4,858,164   | 4,858,164   |
| 236 |     | Transmission Plant (i)   | 13,722,782  | 13,722,782  | 13,722,782  | 13,722,782  | 13,722,782  |
| 237 |     | Distribution Plant   | 0           | 32,129,777  | 32,428,712  | 32,838,560  | 33,214,428  |
| 238 |     | General Plant  | 6,914,184   | 6,870,309   | 6,869,210   | 6,867,766   | 6,866,505   |
| 239 |     | Common Plant - Electric  | 0           | 0           | 0           | 0           | 0           |
| 240 |     | Common Plant - Electric  | 0           | 0           | 0           | 0           | 0           |
| 241 |     | Depreciation Expense for Asset Retirement Costs                | 0           | 0           | 0           | 0           | 0           |
| 242 |     | Amortization of Limited Term Electric Plant                    | 0           | 0           | 0           | 0           | 0           |
| 243 |     | Amortization of Plant Acquisition Adjustments (Electric)       | 0           | 0           | 0           | 0           | 0           |
| 244 |     | <b>Total Depreciation and Amortization</b>                     | 67,956,720  | 67,912,846  | 67,911,746  | 67,910,302  | 67,909,042  |
| 245 |     |  |             |             |             |             |             |
| 246 |     |  |             |             |             |             |             |
| 247 |     | <b>Total Operating Expenses</b>                                | 627,845,223 | 695,461,000 | 721,857,396 | 755,400,742 | 789,332,205 |
| 248 |     | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |             |             |             |             |             |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C                  | D              | E              | F              | G              |
|-----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | IPC | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 249 |     |  |                    |                |                |                |                |
| 250 |     | <u>Schedule 3A Items: Taxes (Including Income Taxes)</u> |                    |                |                |                |                |
| 251 |     | <b>Account Description</b>                               |                    |                |                |                |                |
| 252 |     |  |                    |                |                |                |                |
| 253 |     |  |                    |                |                |                |                |
| 254 |     | <b>FEDERAL</b>   |                    |                |                |                |                |
| 255 |     | Income Tax (Included on Schedule 2)                      | 0                  | 0              | 0              | 0              | 0              |
| 256 |     | Employment Tax   | 70,191             | 72,881         | 74,845         | 76,950         | 79,187         |
| 257 |     | Other Federal Taxes                                      | 0                  | 0              | 0              | 0              | 0              |
| 258 |     | <b>TOTAL FEDERAL</b>                                     | 70,191             | 72,881         | 74,845         | 76,950         | 79,187         |
| 259 |     |  |                    |                |                |                |                |
| 260 |     | <b>STATE AND OTHER</b>                                   |                    |                |                |                |                |
| 261 |     | Property   | 9,070,622          | 8,970,828      | 8,942,023      | 8,902,834      | 8,867,198      |
| 262 |     | Unemployment   | 137,996            | 143,285        | 147,146        | 151,286        | 155,683        |
| 263 |     | State Income, B&O, et.                                   | 0                  | 0              | 0              | 0              | 0              |
| 264 |     | Franchise Fees   | 0                  | 0              | 0              | 0              | 0              |
| 265 |     | Regulatory Commission                                    | 0                  | 0              | 0              | 0              | 0              |
| 266 |     | City/Municipal   | 0                  | 0              | 0              | 0              | 0              |
| 267 |     | Other  | 0                  | 0              | 0              | 0              | 0              |
| 268 |     | <b>TOTAL STATE AND OTHER TAXES</b>                       | 9,208,618          | 9,114,113      | 9,089,169      | 9,054,120      | 9,022,882      |
| 269 |     |  |                    |                |                |                |                |
| 270 |     | <b>TOTAL TAXES</b>                                       | 9,278,808          | 9,186,994      | 9,164,014      | 9,131,070      | 9,102,069      |
| 271 |     |  |                    |                |                |                |                |
| 272 |     |  |                    |                |                |                |                |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C                  | D              | E              | F              | G              |
|-----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | IPC | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 273 |     | <u>Schedule 3B: Other Included Items</u>   |                    |                |                |                |                |
| 274 |     | <b>Account Description</b>   |                    |                |                |                |                |
| 275 |     |  |                    |                |                |                |                |
| 276 |     |  |                    |                |                |                |                |
| 277 |     | <b>Other Included Items:</b>   |                    |                |                |                |                |
| 278 |     | Regulatory Credits   | 0                  | 0              | 0              | 0              | 0              |
| 279 |     | (Less) Regulatory Debits   | 14,110             | 14,110         | 14,110         | 14,110         | 14,110         |
| 280 |     | Gain from Disposition of Utility Plant   | 0                  | 0              | 0              | 0              | 0              |
| 281 |     | (Less) Loss from Disposition of Utility Plant                                      | 0                  | 0              | 0              | 0              | 0              |
| 282 |     | Gain from Disposition of Allowances  | 2,754,122          | 2,754,122      | 2,754,122      | 2,754,122      | 2,754,122      |
| 283 |     | (Less) Loss from Disposition of Allowances   | 0                  | 0              | 0              | 0              | 0              |
| 284 |     | Miscellaneous Nonoperating Income  | 5,481,083          | 5,481,083      | 5,481,083      | 5,481,083      | 5,481,083      |
| 285 |     | <b>Total Other Included Items</b>  | 8,221,095          | 8,221,095      | 8,221,095      | 8,221,095      | 8,221,095      |
| 286 |     |  |                    |                |                |                |                |
| 287 |     | <b>Sale for Resale:</b>  |                    |                |                |                |                |
| 288 |     | Sales for Resale   | 141,300,682        | 156,963,434    | 161,546,016    | 167,225,912    | 173,041,822    |
| 289 |     | <b>Total Sales for Resale</b>  | 141,300,682        | 156,963,434    | 161,546,016    | 167,225,912    | 173,041,822    |
| 290 |     |  |                    |                |                |                |                |
| 291 |     | <b>Other Revenues:</b>   |                    |                |                |                |                |
| 292 |     | Forfeited Discounts  | 0                  | 0              | 0              | 0              | 0              |
| 293 |     | Miscellaneous Service Revenues   | 0                  | 0              | 0              | 0              | 0              |
| 294 |     | Sales of Water and Water Power   | 0                  | 0              | 0              | 0              | 0              |
| 295 |     | Rent from Electric Property  | 6,729,901          | 6,590,107      | 6,550,262      | 6,496,411      | 6,447,797      |
| 296 |     | Interdepartmental Rents  | 0                  | 0              | 0              | 0              | 0              |
| 297 |     | Other Electric Revenues  | 146,421            | 146,421        | 146,421        | 146,421        | 146,421        |
| 298 |     | Revenues from Transmission of Electricity of Others (i)                            | 16,229,091         | 16,229,091     | 16,229,091     | 16,229,091     | 16,229,091     |
| 299 |     |  |                    |                |                |                |                |
| 300 |     | <b>Total Other Revenues</b>  | 23,105,412         | 22,965,618     | 22,925,774     | 22,871,923     | 22,823,309     |
| 301 |     |  |                    |                |                |                |                |
| 302 |     | <b>Total Other Included Items</b>  | 172,627,189        | 188,150,147    | 192,692,885    | 198,318,930    | 204,086,225    |
| 303 |     | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |                    |                |                |                |                |

**TABLE C - IDAHO POWER**  
**Appendix F**

|     | A   | B  | C                  | D                  | E                  | F                  | G                  |
|-----|-----|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | IPC | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 304 |     |  |                    |                    |                    |                    |                    |
| 305 |     | <u><i>Schedule 4: Average System Cost</i></u>  |                    |                    |                    |                    |                    |
| 306 |     |  |                    |                    |                    |                    |                    |
| 307 |     |  | <b>10/1/2010</b>   | <b>4/1/2012</b>    | <b>4/1/2013</b>    | <b>4/1/2014</b>    | <b>4/1/2015</b>    |
| 308 |     |  |                    |                    |                    |                    |                    |
| 309 |     | <b>Total Operating Expenses</b>  | 627,845,223        | 695,461,000        | 721,857,396        | 755,400,742        | 789,332,205        |
| 310 |     | <i>(From Schedule 3)</i>   |                    |                    |                    |                    |                    |
| 311 |     |  |                    |                    |                    |                    |                    |
| 312 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>   | 191,765,596        | 181,723,912        | 175,049,908        | 168,399,885        | 161,758,532        |
| 313 |     | <i>(From Schedule 2)</i>   |                    |                    |                    |                    |                    |
| 314 |     |  |                    |                    |                    |                    |                    |
| 315 |     | <b>State and Other Taxes</b>   | 9,278,808          | 9,186,994          | 9,164,014          | 9,131,070          | 9,102,069          |
| 316 |     | <i>(From Schedule 3a)</i>  |                    |                    |                    |                    |                    |
| 317 |     |  |                    |                    |                    |                    |                    |
| 318 |     | <b>Total Other Included Items</b>  | 172,627,189        | 188,150,147        | 192,692,885        | 198,318,930        | 204,086,225        |
| 319 |     | <i>(From Schedule 3b)</i>  |                    |                    |                    |                    |                    |
| 320 |     |  |                    |                    |                    |                    |                    |
| 321 |     | <b>Total Cost</b>  | <b>656,262,438</b> | <b>698,221,758</b> | <b>713,378,433</b> | <b>734,612,768</b> | <b>756,106,581</b> |
| 322 |     | <i>(Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items)</i> |                    |                    |                    |                    |                    |
| 323 |     |  |                    |                    |                    |                    |                    |
| 324 |     |  |                    |                    |                    |                    |                    |
| 325 |     |  |                    |                    |                    |                    |                    |
| 326 |     | <b>Contract System Cost</b>  |                    |                    |                    |                    |                    |
| 327 |     | Production and Transmission  | 656,262,438        | 698,221,758        | 713,378,433        | 734,612,768        | 756,106,581        |
| 328 |     | (Less) New Large Single Load Costs (d)   | 23,091,072         | 22,886,879         | 22,831,672         | 22,817,441         | 22,827,077         |
| 329 |     | <b>Total Contract System Cost</b>  | <b>633,171,366</b> | <b>675,334,879</b> | <b>690,546,762</b> | <b>711,795,327</b> | <b>733,279,504</b> |
| 330 |     |  |                    |                    |                    |                    |                    |
| 331 |     | <b>Contract System Load (MWh)</b>  |                    |                    |                    |                    |                    |
| 332 |     | Total Retail Load  | 15,451,236         | 15,843,167         | 15,975,336         | 16,152,990         | 16,312,799         |
| 333 |     | (Less) New Large Single Load   | 385,400            | 385,400            | 385,400            | 385,400            | 385,400            |
| 334 |     | Total Retail Load (Net of NLSL) (d)  | 15,065,836         | 15,457,767         | 15,589,936         | 15,767,590         | 15,927,399         |
| 335 |     | Distribution Loss (f)  | 1,066,135          | 1,093,179          | 1,102,298          | 1,114,556          | 1,125,583          |
| 336 |     | <b>Total Contract System Load</b>  | <b>16,131,971</b>  | <b>16,550,946</b>  | <b>16,692,234</b>  | <b>16,882,146</b>  | <b>17,052,982</b>  |
| 337 |     |  |                    |                    |                    |                    |                    |
| 338 |     | <b>Average System Cost \$/MWh</b>  | <b>39.25</b>       | <b>40.80</b>       | <b>41.37</b>       | <b>42.16</b>       | <b>43.00</b>       |
| 339 |     |  |                    |                    |                    |                    |                    |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|    | A  | B  | C                  | D              | E              | F              | G              |
|----|----|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | NW | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |    | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |    | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |    | Intangible Plant - Franchises and Consents   | 469                | 452            | 447            | 442            | 437            |
| 5  |    | Intangible Plant - Miscellaneous   | 1,927,038          | 1,927,038      | 1,927,038      | 1,927,038      | 1,927,038      |
| 6  |    | <b>Total Intangible Plant</b>  | 1,927,507          | 1,927,490      | 1,927,486      | 1,927,480      | 1,927,475      |
| 7  |    |  |                    |                |                |                |                |
| 8  |    | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |    | Steam Production   | 0                  | 0              | 0              | 0              | 0              |
| 10 |    | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |    | Hydraulic Production   | 0                  | 0              | 0              | 0              | 0              |
| 12 |    | Other Production   | 2,646,622          | 2,646,622      | 2,646,622      | 2,646,622      | 2,646,622      |
| 13 |    | <b>Total Production Plant</b>  | 2,646,622          | 2,646,622      | 2,646,622      | 2,646,622      | 2,646,622      |
| 14 |    |  |                    |                |                |                |                |
| 15 |    | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |    | Transmission Plant   | 298,279,309        | 298,279,309    | 298,279,309    | 298,279,309    | 298,279,309    |
| 17 |    | <b>Total Transmission Plant</b>  | 298,279,309        | 298,279,309    | 298,279,309    | 298,279,309    | 298,279,309    |
| 18 |    |  |                    |                |                |                |                |
| 19 |    | <b>Distribution Plant:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 20 |    | Distribution Plant   | 0                  | 1,032,336,870  | 1,047,210,039  | 1,062,604,939  | 1,078,532,204  |
| 21 |    | <b>Total Distribution Plant</b>  | 0                  | 1,032,336,870  | 1,047,210,039  | 1,062,604,939  | 1,078,532,204  |
| 22 |    |  |                    |                |                |                |                |
| 23 |    | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |    | Land and Land Rights   | 94,844             | 94,844         | 94,844         | 94,844         | 94,844         |
| 25 |    | Structures and Improvements  | 1,809,581          | 1,809,581      | 1,809,581      | 1,809,581      | 1,809,581      |
| 26 |    | Furniture and Equipment  | 630,990            | 636,517        | 640,499        | 644,619        | 648,883        |
| 27 |    | Transportation Equipment   | 6,388,045          | 6,387,845      | 6,387,705      | 6,387,563      | 6,387,419      |
| 28 |    | Stores Equipment   | 99,654             | 99,654         | 99,654         | 99,654         | 99,654         |
| 29 |    | Tools and Garage Equipment   | 949,746            | 949,746        | 949,746        | 949,746        | 949,746        |
| 30 |    | Laboratory Equipment   | 738,144            | 738,144        | 738,144        | 738,144        | 738,144        |
| 31 |    | Power Operated Equipment   | 563,748            | 563,731        | 563,718        | 563,706        | 563,693        |
| 32 |    | Communication Equipment  | 4,463,935          | 4,463,935      | 4,463,935      | 4,463,935      | 4,463,935      |
| 33 |    | Miscellaneous Equipment  | 42,780             | 42,780         | 42,780         | 42,780         | 42,780         |
| 34 |    | Other Tangible Property  | 0                  | 0              | 0              | 0              | 0              |
| 35 |    | Asset Retirement Costs for General Plant   | 0                  | 0              | 0              | 0              | 0              |
| 36 |    |  |                    |                |                |                |                |
| 37 |    | <b>Total General Plant</b>   | 15,781,468         | 15,786,778     | 15,790,607     | 15,794,573     | 15,798,681     |
| 38 |    |  |                    |                |                |                |                |
| 39 |    | <b>Total Electric Plant In-Service</b>   | 318,634,907        | 318,640,200    | 318,644,023    | 318,647,985    | 318,652,087    |
| 40 |    | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |    |  |                    |                |                |                |                |



**TABLE D - NORTHWESTERN**  
**Appendix F**

|    | A  | B  | C                  | D              | E              | F              | G              |
|----|----|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | NW | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 |    | <b>LESS:</b>   |                    |                |                |                |                |
| 43 |    | <b>Depreciation Reserve</b>  |                    |                |                |                |                |
| 44 |    | Steam Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 45 |    | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |    | Hydraulic Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 47 |    | Other Production Plant   | 2,349,170          | 2,510,705      | 2,618,395      | 2,726,085      | 2,833,775      |
| 48 |    | Transmission Plant (i)   | 148,672,549        | 160,910,107    | 169,068,478    | 177,226,850    | 185,385,222    |
| 49 |    | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 50 |    | General Plant  | 10,568,316         | 11,596,105     | 12,260,004     | 12,913,806     | 13,557,340     |
| 51 |    | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |    | Amortization of Intangible Plant - Account 302                                     | 0                  | 0              | 0              | 0              | 0              |
| 53 |    | Amortization of Intangible Plant - Account 303                                     | 752,166            | 882,306        | 969,066        | 1,055,825      | 1,142,585      |
| 54 |    | Mining Plant Depreciation  | 0                  | 0              | 0              | 0              | 0              |
| 55 |    | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |    | Capital Lease - Common Plant   | 0                  | 0              | 0              | 0              | 0              |
| 57 |    | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |    | In-Service: Depreciation of Common Plant (a)                                       | 9,246,664          | 10,876,965     | 11,963,832     | 13,050,699     | 14,137,566     |
| 59 |    | Amortization of Other Utility Plant (a)  | 8,670,842          | 9,361,498      | 9,821,935      | 10,282,373     | 10,742,810     |
| 60 |    | Amortization of Acquisition Adjustments  | 3,177,472          | 3,319,843      | 3,414,757      | 3,509,672      | 3,604,586      |
| 61 |    |  |                    |                |                |                |                |
| 62 |    | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |    |  |                    |                |                |                |                |
| 64 |    | <b>Total Depreciation and Amortization Reserve</b>                                 | 183,437,179        | 199,457,528    | 210,116,467    | 220,765,309    | 231,403,883    |
| 65 |    |  |                    |                |                |                |                |
| 66 |    | <b>Total Net Plant</b>   | 135,197,727        | 119,182,672    | 108,527,557    | 97,882,676     | 87,248,204     |
| 67 |    | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B  | C           | D          | E          | F          | G          |
|-----|----|--|-------------|------------|------------|------------|------------|
| 1   | NW | Account Description  | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 68  |    |  |             |            |            |            |            |
| 69  |    | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |            |            |            |            |
| 70  |    |  |             |            |            |            |            |
| 71  |    | <b>Cash Working Capital (f)</b>                            | 4,150,395   | 4,244,842  | 4,307,712  | 4,373,076  | 4,439,686  |
| 72  |    |  |             |            |            |            |            |
| 73  |    | <b>Utility Plant</b>                                       | 0           | 0          | 0          | 0          | 0          |
| 74  |    | (Utility Plant) Held For Future Use                        | 0           | 0          | 0          | 0          | 0          |
| 75  |    | (Utility Plant) Completed Construction - Not Classified    | 0           | 0          | 0          | 0          | 0          |
| 76  |    | Nuclear Fuel   | 0           | 0          | 0          | 0          | 0          |
| 77  |    | Construction Work in Progress (CWIP)                       | 0           | 0          | 0          | 0          | 0          |
| 78  |    | Common Plant   | 13,813,036  | 13,813,036 | 13,813,036 | 13,813,036 | 13,813,036 |
| 79  |    | Acquisition Adjustments (Electric)                         | 3,106,285   | 3,106,285  | 3,106,285  | 3,106,285  | 3,106,285  |
| 80  |    | <b>Total</b>   | 16,919,321  | 16,919,321 | 16,919,321 | 16,919,321 | 16,919,321 |
| 81  |    |  |             |            |            |            |            |
| 82  |    |  |             |            |            |            |            |
| 83  |    | Investment in Associated Companies                         | 0           | 0          | 0          | 0          | 0          |
| 84  |    | Other Investment   | 0           | 0          | 0          | 0          | 0          |
| 85  |    | Long-Term Portion of Derivative Assets                     | 0           | 0          | 0          | 0          | 0          |
| 86  |    | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0          | 0          | 0          | 0          |
| 87  |    | <b>Total</b>   | 0           | 0          | 0          | 0          | 0          |
| 88  |    |  |             |            |            |            |            |
| 89  |    |  |             |            |            |            |            |
| 90  |    | Fuel Stock   | 200,067     | 199,495    | 200,440    | 203,196    | 206,346    |
| 91  |    | Fuel Stock Expenses Undistributed                          | 0           | 0          | 0          | 0          | 0          |
| 92  |    | Plant Materials and Operating Supplies                     | 1,876,394   | 1,904,061  | 1,922,457  | 1,939,052  | 1,955,428  |
| 93  |    | Merchandise (Major Only)                                   | 0           | 0          | 0          | 0          | 0          |
| 94  |    | Other Materials and Supplies (Major only)                  | 0           | 0          | 0          | 0          | 0          |
| 95  |    | EPA Allowance Inventory                                    | 0           | 0          | 0          | 0          | 0          |
| 96  |    | EPA Allowances Withheld                                    | 0           | 0          | 0          | 0          | 0          |
| 97  |    | Stores Expense Undistributed                               | 0           | 0          | 0          | 0          | 0          |
| 98  |    | Prepayments  | 0           | 0          | 0          | 0          | 0          |
| 99  |    | Derivative Instrument Assets                               | 0           | 0          | 0          | 0          | 0          |
| 100 |    | Less: Long-Term Portion of Derivative Assets               | 0           | 0          | 0          | 0          | 0          |
| 101 |    | Derivative Instrument Assets - Hedges                      | 0           | 0          | 0          | 0          | 0          |
| 102 |    | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0          | 0          | 0          | 0          |
| 103 |    | <b>Total</b>   | 2,076,461   | 2,103,556  | 2,122,898  | 2,142,248  | 2,161,774  |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B  | C           | D          | E          | F          | G          |
|-----|----|--|-------------|------------|------------|------------|------------|
| 1   | NW | Account Description                                      | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 104 |    |  |             |            |            |            |            |
| 105 |    |  |             |            |            |            |            |
| 106 |    | Unamortized Debt Expenses                                | 1,517,206   | 1,493,764  | 1,477,325  | 1,460,687  | 1,443,864  |
| 107 |    | Extraordinary Property Losses                            | 0           | 0          | 0          | 0          | 0          |
| 108 |    | Unrecovered Plant and Regulatory Study Costs             | 0           | 0          | 0          | 0          | 0          |
| 109 |    | Other Regulatory Assets                                  | 11,145,017  | 11,145,017 | 11,145,017 | 11,145,017 | 11,145,017 |
| 110 |    | Prelim. Survey and Investigation Charges (Electric)      | 0           | 0          | 0          | 0          | 0          |
| 111 |    | Preliminary Natural Gas Survey and Investigation Charges | 0           | 0          | 0          | 0          | 0          |
| 112 |    | Other Preliminary Survey and Investigation Charges       | 0           | 0          | 0          | 0          | 0          |
| 113 |    | Clearing Accounts  | 0           | 0          | 0          | 0          | 0          |
| 114 |    | Temporary Facilities                                     | 18          | 18         | 17         | 17         | 17         |
| 115 |    | Miscellaneous Deferred Debits                            | 0           | 0          | 0          | 0          | 0          |
| 116 |    | Deferred Losses from Disposition of Utility Plant        | 0           | 0          | 0          | 0          | 0          |
| 117 |    | Research, Development, and Demonstration Expenditures    | 0           | 0          | 0          | 0          | 0          |
| 118 |    | Unamortized Loss on Reacquired Debt                      | 630,750     | 621,004    | 614,170    | 607,253    | 600,259    |
| 119 |    | Accumulated Deferred Income Taxes                        | 0           | 0          | 0          | 0          | 0          |
| 120 |    | <b>Total</b>   | 13,292,990  | 13,259,803 | 13,236,530 | 13,212,974 | 13,189,156 |
| 121 |    |  |             |            |            |            |            |
| 122 |    | <b>Total Assets and Other Debits</b>                     | 36,439,167  | 36,527,522 | 36,586,461 | 36,647,619 | 36,709,938 |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B   | C           | D           | E           | F           | G           |
|-----|----|---|-------------|-------------|-------------|-------------|-------------|
| 1   | NW | Account Description   | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 123 |    |   |             |             |             |             |             |
| 124 |    | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |             |             |             |             |             |
| 125 |    | <b>CURRENT AND ACCRUED LIABILITIES</b>  |             |             |             |             |             |
| 126 |    | Derivative Instrument Liabilities   | 0           | 0           | 0           | 0           | 0           |
| 127 |    | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0           | 0           | 0           | 0           | 0           |
| 128 |    | Derivative Instrument Liabilities - Hedges                                    | 0           | 0           | 0           | 0           | 0           |
| 129 |    | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0           | 0           | 0           | 0           | 0           |
| 130 |    | <b>Total</b>  | 0           | 0           | 0           | 0           | 0           |
| 131 |    | <b>DEFERRED CREDITS</b>   |             |             |             |             |             |
| 132 |    | Long-Term Portion of Derivative Instrument Liabilities                        | 0           | 0           | 0           | 0           | 0           |
| 133 |    | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0           | 0           | 0           | 0           | 0           |
| 134 |    | Customer Advances for Construction  | 0           | 0           | 0           | 0           | 0           |
| 135 |    | Other Deferred Credits  | 3,107,427   | 3,107,427   | 3,107,427   | 3,107,427   | 3,107,427   |
| 136 |    | Other Regulatory Liabilities  | 94,871      | 94,871      | 94,871      | 94,871      | 94,871      |
| 137 |    | Accumulated Deferred Investment Tax Credits                                   | 0           | 0           | 0           | 0           | 0           |
| 138 |    | Deferred Gains from Disposition of Utility Plant                              | 0           | 0           | 0           | 0           | 0           |
| 139 |    | Unamortized Gain on Reacquired Debt   | 0           | 0           | 0           | 0           | 0           |
| 140 |    | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0           | 0           | 0           | 0           | 0           |
| 141 |    | Accumulated Deferred Income Taxes-Property                                    | 0           | 0           | 0           | 0           | 0           |
| 142 |    | Accumulated Deferred Income Taxes-Other                                       | 0           | 0           | 0           | 0           | 0           |
| 143 |    | <b>Total</b>  | 3,202,298   | 3,202,298   | 3,202,298   | 3,202,298   | 3,202,298   |
| 144 |    |   |             |             |             |             |             |
| 145 |    | <b>Total Liabilities and Other Credits</b>                                    | 3,202,298   | 3,202,298   | 3,202,298   | 3,202,298   | 3,202,298   |
| 146 |    |   |             |             |             |             |             |
| 147 |    |   |             |             |             |             |             |
| 148 |    | <b>Total Rate Base</b>  | 168,434,596 | 152,507,896 | 141,911,719 | 131,327,996 | 120,755,843 |
| 149 |    | <i>(Total Net Plant + Debits - Credits)</i>                                   |             |             |             |             |             |
| 150 |    |   |             |             |             |             |             |
| 151 |    |   |             |             |             |             |             |
| 152 |    | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 11.20%      | 11.20%      | 11.20%      | 11.20%      | 11.20%      |
| 153 |    |   |             |             |             |             |             |
| 154 |    | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 18,857,937  | 17,074,784  | 15,888,436  | 14,703,482  | 13,519,824  |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B  | C           | D           | E           | F           | G           |
|-----|----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | NW | Account Description                              | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 155 |    |  |             |             |             |             |             |
| 156 |    |  |             |             |             |             |             |
| 157 |    | <u>Schedule 3: Expenses</u>                      |             |             |             |             |             |
| 158 |    | Account Description                              |             |             |             |             |             |
| 159 |    |  |             |             |             |             |             |
| 160 |    |  |             |             |             |             |             |
| 161 |    | <b>Power Production Expenses:</b>                |             |             |             |             |             |
| 162 |    | <b>Steam Power Generation</b>                    |             |             |             |             |             |
| 163 |    | Steam Power - Fuel                               | 5,584,064   | 5,568,101   | 5,594,487   | 5,671,407   | 5,759,312   |
| 164 |    | Steam Power - Operations (Excluding 501 - Fuel)  | 0           | 0           | 0           | 0           | 0           |
| 165 |    | Steam Power - Maintenance                        | 0           | 0           | 0           | 0           | 0           |
| 166 |    | <b>Nuclear Power Generation</b>                  |             |             |             |             |             |
| 167 |    | Nuclear - Fuel                                   | 0           | 0           | 0           | 0           | 0           |
| 168 |    | Nuclear - Operation ( Excluding 518 - Fuel)      | 0           | 0           | 0           | 0           | 0           |
| 169 |    | Nuclear - Maintenance                            | 0           | 0           | 0           | 0           | 0           |
| 170 |    | <b>Hydraulic Power Generation</b>                |             |             |             |             |             |
| 171 |    | Hydraulic - Operation                            | 0           | 0           | 0           | 0           | 0           |
| 172 |    | Hydraulic - Maintenance                          | 0           | 0           | 0           | 0           | 0           |
| 173 |    | <b>Other Power Generation</b>                    |             |             |             |             |             |
| 174 |    | Other Power - Fuel                               | 168,218     | 176,452     | 183,319     | 187,294     | 191,819     |
| 175 |    | Other Power - Operations (Excluding 547 - Fuel)  | 25,704      | 26,755      | 27,203      | 27,652      | 28,164      |
| 176 |    | Other Power - Maintenance                        | 71,233      | 72,815      | 74,071      | 75,404      | 76,780      |
| 177 |    | <b>Other Power Supply Expenses</b>               |             |             |             |             |             |
| 178 |    | Purchased Power (Excluding REP Reversal)         | 369,176,016 | 399,158,967 | 413,924,209 | 430,227,831 | 447,254,145 |
| 179 |    | System Control and Load Dispatching              | 0           | 0           | 0           | 0           | 0           |
| 180 |    | Other Expenses                                   | 9,879,017   | 9,879,017   | 9,879,017   | 9,879,017   | 9,879,017   |
| 181 |    | BPA REP Reversal                                 | 0           | 0           | 0           | 0           | 0           |
| 182 |    | Public Purpose Charges (h)                       | 0           | 0           | 0           | 0           | 0           |
| 183 |    | Production Expense                               | 384,904,251 | 414,882,107 | 429,682,307 | 446,068,605 | 463,189,237 |
| 184 |    |  |             |             |             |             |             |
| 185 |    | <b>Transmission Expenses: (i)</b>                |             |             |             |             |             |
| 186 |    | Transmission of Electricity to Others (Wheeling) | 5,195,113   | 5,354,650   | 5,466,696   | 5,576,850   | 5,689,641   |
| 187 |    | Total Operations less Wheeling                   | 7,017,183   | 7,264,361   | 7,396,934   | 7,539,325   | 7,690,111   |
| 188 |    | Total Maintenance                                | 3,546,038   | 3,608,437   | 3,674,291   | 3,742,264   | 3,806,818   |
| 189 |    | <b>Total Transmission Expense</b>                | 15,758,334  | 16,227,448  | 16,537,921  | 16,858,438  | 17,186,570  |
| 190 |    |  |             |             |             |             |             |
| 191 |    | <b>Distribution Expense:</b>                     |             |             |             |             |             |
| 192 |    | Total Operations                                 | 0           | 0           | 0           | 0           | 0           |
| 193 |    | Total Maintenance                                | 0           | 0           | 0           | 0           | 0           |
| 194 |    | <b>Total Distribution Expense</b>                | 0           | 0           | 0           | 0           | 0           |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B   | C           | D           | E           | F           | G           |
|-----|----|---|-------------|-------------|-------------|-------------|-------------|
| 1   | NW | Account Description                                 | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 195 |    |   |             |             |             |             |             |
| 196 |    | <b>Customer and Sales Expenses:</b>                 |             |             |             |             |             |
| 197 |    | Total Customer Accounts                             | 0           | 0           | 0           | 0           | 0           |
| 198 |    | Customer Service and Information                    | 0           | 0           | 0           | 0           | 0           |
| 199 |    | Customer assistance expenses (Major only)           | 0           | 0           | 0           | 0           | 0           |
| 200 |    | Customer Service and Information                    | 0           | 0           | 0           | 0           | 0           |
| 201 |    | Total Sales Expense                                 | 0           | 0           | 0           | 0           | 0           |
| 202 |    | <b>Total Customer and Sales Expenses</b>            | 0           | 0           | 0           | 0           | 0           |
| 203 |    |   |             |             |             |             |             |
| 204 |    | <b>Administration and General Expense:</b>          |             |             |             |             |             |
| 205 |    | <b>Operation</b>                                    |             |             |             |             |             |
| 206 |    | Administration and General Salaries                 | 4,341,069   | 4,510,053   | 4,623,962   | 4,743,805   | 4,865,186   |
| 207 |    | Office Supplies & Expenses                          | 961,722     | 999,159     | 1,024,394   | 1,050,945   | 1,077,835   |
| 208 |    | (Less) Administration Expenses Transferred - Credit | 775,938     | 806,143     | 826,504     | 847,925     | 869,621     |
| 209 |    | Outside Services Employed                           | 1,037,361   | 1,077,742   | 1,104,962   | 1,133,600   | 1,162,606   |
| 210 |    | Property Insurance                                  | 120,184     | 123,783     | 126,124     | 128,569     | 130,997     |
| 211 |    | Injuries and Damages                                | 1,201,688   | 1,248,466   | 1,279,998   | 1,313,173   | 1,346,773   |
| 212 |    | Employee Pensions & Benefits                        | (127,728)   | (132,700)   | (136,051)   | (139,577)   | (143,149)   |
| 213 |    | Franchise Requirements                              | 0           | 0           | 0           | 0           | 0           |
| 214 |    | Regulatory Commission Expenses                      | 0           | 0           | 0           | 0           | 0           |
| 215 |    | (Less) Duplicate Charges - Credit                   | 0           | 0           | 0           | 0           | 0           |
| 216 |    | General Advertising Expenses                        | 0           | 0           | 0           | 0           | 0           |
| 217 |    | Miscellaneous General Expenses                      | 0           | 0           | 0           | 0           | 0           |
| 218 |    | Rents   | 0           | 0           | 0           | 0           | 0           |
| 219 |    | Transportation Expenses (Non Major)                 | 0           | 0           | 0           | 0           | 0           |
| 220 |    | <b>Maintenance</b>                                  | 0           | 0           | 0           | 0           | 0           |
| 221 |    | Maintenance of General Plant                        | 710,513     | 732,343     | 746,600     | 761,505     | 776,333     |
| 222 |    | <b>Total Administration and General Expenses</b>    | 7,468,872   | 7,752,704   | 7,943,485   | 8,144,094   | 8,346,960   |
| 223 |    |   |             |             |             |             |             |
| 224 |    | <b>Total Operations and Maintenance</b>             | 408,131,457 | 438,862,259 | 454,163,713 | 471,071,137 | 488,722,768 |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B  | C                  | D                  | E                  | F                  | G                  |
|-----|----|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | NW | <b>Account Description</b>                                     | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 225 |    |  |                    |                    |                    |                    |                    |
| 226 |    |  |                    |                    |                    |                    |                    |
| 227 |    | <b>Depreciation and Amortization:</b>                          |                    |                    |                    |                    |                    |
| 228 |    | Amortization of Intangible Plant - Account 301                 | 0                  | 0                  | 0                  | 0                  | 0                  |
| 229 |    | Amortization of Intangible Plant - Account 302                 | 0                  | 0                  | 0                  | 0                  | 0                  |
| 230 |    | Amortization of Intangible Plant - Account 303                 | 81,945             | 81,945             | 81,945             | 81,945             | 81,945             |
| 231 |    | Steam Production Plant   | 0                  | 0                  | 0                  | 0                  | 0                  |
| 232 |    | Nuclear Production Plant                                       | 0                  | 0                  | 0                  | 0                  | 0                  |
| 233 |    | Hydraulic Production Plant - Conventional                      | 0                  | 0                  | 0                  | 0                  | 0                  |
| 234 |    | Hydraulic Production Plant - Pumped Storage                    | 0                  | 0                  | 0                  | 0                  | 0                  |
| 235 |    | Other Production Plant   | 107,690            | 107,690            | 107,690            | 107,690            | 107,690            |
| 236 |    | Transmission Plant (i)   | 8,158,372          | 8,158,372          | 8,158,372          | 8,158,372          | 8,158,372          |
| 237 |    | Distribution Plant   | 0                  | 0                  | 0                  | 0                  | 0                  |
| 238 |    | General Plant  | 803,565            | 797,659            | 797,990            | 798,330            | 798,679            |
| 239 |    | Common Plant - Electric  | 475,064            | 475,064            | 475,064            | 475,064            | 475,064            |
| 240 |    | Common Plant - Electric  | 611,803            | 611,803            | 611,803            | 611,803            | 611,803            |
| 241 |    | Depreciation Expense for Asset Retirement Costs                | 0                  | 0                  | 0                  | 0                  | 0                  |
| 242 |    | Amortization of Limited Term Electric Plant                    | 479,950            | 479,950            | 479,950            | 479,950            | 479,950            |
| 243 |    | Amortization of Plant Acquisition Adjustments (Electric)       | 94,914             | 94,914             | 94,914             | 94,914             | 94,914             |
| 244 |    | <b>Total Depreciation and Amortization</b>                     | <b>10,813,303</b>  | <b>10,807,397</b>  | <b>10,807,728</b>  | <b>10,808,068</b>  | <b>10,808,416</b>  |
| 245 |    |  |                    |                    |                    |                    |                    |
| 246 |    |  |                    |                    |                    |                    |                    |
| 247 |    | <b>Total Operating Expenses</b>                                | <b>418,944,760</b> | <b>449,669,656</b> | <b>464,971,441</b> | <b>481,879,205</b> | <b>499,531,184</b> |
| 248 |    | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |                    |                    |                    |                    |                    |

**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B  | C                  | D              | E              | F              | G              |
|-----|----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | NW | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 249 |    |  |                    |                |                |                |                |
| 250 |    | <u>Schedule 3A Items: Taxes (Including Income Taxes)</u> |                    |                |                |                |                |
| 251 |    | <b>Account Description</b>                               |                    |                |                |                |                |
| 252 |    |  |                    |                |                |                |                |
| 253 |    |  |                    |                |                |                |                |
| 254 |    | <b>FEDERAL</b>   |                    |                |                |                |                |
| 255 |    | Income Tax (Included on Schedule 2)                      | 0                  | 0              | 0              | 0              | 0              |
| 256 |    | Employment Tax   | 675,862            | 700,592        | 717,067        | 735,116        | 754,109        |
| 257 |    | Other Federal Taxes                                      | 0                  | 0              | 0              | 0              | 0              |
| 258 |    | <b>TOTAL FEDERAL</b>                                     | 675,862            | 700,592        | 717,067        | 735,116        | 754,109        |
| 259 |    |  |                    |                |                |                |                |
| 260 |    | <b>STATE AND OTHER</b>                                   |                    |                |                |                |                |
| 261 |    | Property   | 12,488,439         | 12,295,489     | 12,160,176     | 12,023,222     | 11,884,744     |
| 262 |    | Unemployment   | 4,561              | 4,727          | 4,839          | 4,960          | 5,089          |
| 263 |    | State Income, B&O, et.                                   | 0                  | 0              | 0              | 0              | 0              |
| 264 |    | Franchise Fees   | 0                  | 0              | 0              | 0              | 0              |
| 265 |    | Regulatory Commission                                    | 0                  | 0              | 0              | 0              | 0              |
| 266 |    | City/Municipal   | 0                  | 0              | 0              | 0              | 0              |
| 267 |    | Other  | 0                  | 0              | 0              | 0              | 0              |
| 268 |    | <b>TOTAL STATE AND OTHER TAXES</b>                       | 12,493,000         | 12,300,216     | 12,165,014     | 12,028,182     | 11,889,833     |
| 269 |    |  |                    |                |                |                |                |
| 270 |    | <b>TOTAL TAXES</b>                                       | 13,168,861         | 13,000,808     | 12,882,081     | 12,763,298     | 12,643,941     |
| 271 |    |  |                    |                |                |                |                |
| 272 |    |  |                    |                |                |                |                |



**TABLE D - NORTHWESTERN**  
**Appendix F**

|     | A  | B  | C                  | D              | E              | F              | G              |
|-----|----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | NW | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 273 |    | <u><i>Schedule 3B: Other Included Items</i></u>                                    |                    |                |                |                |                |
| 274 |    | <b>Account Description</b>   |                    |                |                |                |                |
| 275 |    |  |                    |                |                |                |                |
| 276 |    |  |                    |                |                |                |                |
| 277 |    | <b>Other Included Items:</b>   |                    |                |                |                |                |
| 278 |    | Regulatory Credits   | 455,431            | 455,431        | 455,431        | 455,431        | 455,431        |
| 279 |    | (Less) Regulatory Debits   | 3,996,161          | 3,996,161      | 3,996,161      | 3,996,161      | 3,996,161      |
| 280 |    | Gain from Disposition of Utility Plant   | 0                  | 0              | 0              | 0              | 0              |
| 281 |    | (Less) Loss from Disposition of Utility Plant                                      | 0                  | 0              | 0              | 0              | 0              |
| 282 |    | Gain from Disposition of Allowances  | 0                  | 0              | 0              | 0              | 0              |
| 283 |    | (Less) Loss from Disposition of Allowances   | 0                  | 0              | 0              | 0              | 0              |
| 284 |    | Miscellaneous Nonoperating Income  | 0                  | 0              | 0              | 0              | 0              |
| 285 |    | <b>Total Other Included Items</b>  | (3,540,730)        | (3,540,730)    | (3,540,730)    | (3,540,730)    | (3,540,730)    |
| 286 |    |  |                    |                |                |                |                |
| 287 |    | <b>Sale for Resale:</b>  |                    |                |                |                |                |
| 288 |    | Sales for Resale   | 60,831,012         | 67,953,654     | 69,977,966     | 72,513,201     | 75,109,146     |
| 289 |    | <b>Total Sales for Resale</b>  | 60,831,012         | 67,953,654     | 69,977,966     | 72,513,201     | 75,109,146     |
| 290 |    |  |                    |                |                |                |                |
| 291 |    | <b>Other Revenues:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 292 |    | Forfeited Discounts  | 0                  | 0              | 0              | 0              | 0              |
| 293 |    | Miscellaneous Service Revenues   | 0                  | 0              | 0              | 0              | 0              |
| 294 |    | Sales of Water and Water Power   | 0                  | 0              | 0              | 0              | 0              |
| 295 |    | Rent from Electric Property  | 580,911            | 571,896        | 565,574        | 559,176        | 552,707        |
| 296 |    | Interdepartmental Rents  | 0                  | 0              | 0              | 0              | 0              |
| 297 |    | Other Electric Revenues  | (452,406)          | (452,406)      | (452,406)      | (452,406)      | (452,406)      |
| 298 |    | Revenues from Transmission of Electricity of Others (i)                            | 50,430,973         | 50,430,973     | 50,430,973     | 50,430,973     | 50,430,973     |
| 299 |    |  |                    |                |                |                |                |
| 300 |    | <b>Total Other Revenues</b>  | 50,559,478         | 50,550,463     | 50,544,141     | 50,537,743     | 50,531,274     |
| 301 |    |  |                    |                |                |                |                |
| 302 |    | <b>Total Other Included Items</b>  | 107,849,760        | 114,963,387    | 116,981,378    | 119,510,215    | 122,099,691    |
| 303 |    | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |                    |                |                |                |                |

**TABLE D - NORTHWESTERN  
Appendix F**

|     | A  | B  | C                  | D                  | E                  | F                  | G                  |
|-----|----|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | NW | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b>     | <b>FY 2013</b>     | <b>FY 2014</b>     | <b>FY 2015</b>     |
| 304 |    |  |                    |                    |                    |                    |                    |
| 305 |    | <u><i>Schedule 4: Average System Cost</i></u>  |                    |                    |                    |                    |                    |
| 306 |    |  |                    |                    |                    |                    |                    |
| 307 |    |  | <b>10/1/2010</b>   | <b>4/1/2012</b>    | <b>4/1/2013</b>    | <b>4/1/2014</b>    | <b>4/1/2015</b>    |
| 308 |    |  |                    |                    |                    |                    |                    |
| 309 |    | <b>Total Operating Expenses</b>  | 418,944,760        | 449,669,656        | 464,971,441        | 481,879,205        | 499,531,184        |
| 310 |    | <i>(From Schedule 3)</i>   |                    |                    |                    |                    |                    |
| 311 |    |  |                    |                    |                    |                    |                    |
| 312 |    | <b>Federal Income Tax Adjusted Return on Rate Base</b>   | 18,857,937         | 17,074,784         | 15,888,436         | 14,703,482         | 13,519,824         |
| 313 |    | <i>(From Schedule 2)</i>   |                    |                    |                    |                    |                    |
| 314 |    |  |                    |                    |                    |                    |                    |
| 315 |    | <b>State and Other Taxes</b>   | 13,168,861         | 13,000,808         | 12,882,081         | 12,763,298         | 12,643,941         |
| 316 |    | <i>(From Schedule 3a)</i>  |                    |                    |                    |                    |                    |
| 317 |    |  |                    |                    |                    |                    |                    |
| 318 |    | <b>Total Other Included Items</b>  | 107,849,760        | 114,963,387        | 116,981,378        | 119,510,215        | 122,099,691        |
| 319 |    | <i>(From Schedule 3b)</i>  |                    |                    |                    |                    |                    |
| 320 |    |  |                    |                    |                    |                    |                    |
| 321 |    | <b>Total Cost</b>  | <b>343,121,799</b> | <b>364,781,861</b> | <b>376,760,581</b> | <b>389,835,771</b> | <b>403,595,258</b> |
| 322 |    | <i>(Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items)</i> |                    |                    |                    |                    |                    |
| 323 |    |  |                    |                    |                    |                    |                    |
| 324 |    |  |                    |                    |                    |                    |                    |
| 325 |    |  |                    |                    |                    |                    |                    |
| 326 |    | <b>Contract System Cost</b>  |                    |                    |                    |                    |                    |
| 327 |    | Production and Transmission  | 343,121,799        | 364,781,861        | 376,760,581        | 389,835,771        | 403,595,258        |
| 328 |    | (Less) New Large Single Load Costs (d)   | 0                  | 0                  | 0                  | 0                  | 0                  |
| 329 |    | <b>Total Contract System Cost</b>  | <b>343,121,799</b> | <b>364,781,861</b> | <b>376,760,581</b> | <b>389,835,771</b> | <b>403,595,258</b> |
| 330 |    |  |                    |                    |                    |                    |                    |
| 331 |    | <b>Contract System Load (MWh)</b>  |                    |                    |                    |                    |                    |
| 332 |    | Total Retail Load  | 6,022,446          | 6,137,896          | 6,216,581          | 6,296,430          | 6,377,459          |
| 333 |    | (Less) New Large Single Load   | 0                  | 0                  | 0                  | 0                  | 0                  |
| 334 |    | Total Retail Load (Net of NLSL) (d)  | 6,022,446          | 6,137,896          | 6,216,581          | 6,296,430          | 6,377,459          |
| 335 |    | Distribution Loss (f)  | 264,988            | 270,067            | 273,530            | 277,043            | 280,608            |
| 336 |    | <b>Total Contract System Load</b>  | <b>6,287,433</b>   | <b>6,407,964</b>   | <b>6,490,111</b>   | <b>6,573,472</b>   | <b>6,658,067</b>   |
| 337 |    |  |                    |                    |                    |                    |                    |
| 338 |    | <b>Average System Cost \$/MWh</b>  | <b>54.57</b>       | <b>56.93</b>       | <b>58.05</b>       | <b>59.30</b>       | <b>60.62</b>       |
| 339 |    |  |                    |                    |                    |                    |                    |

**TABLE E - PACIFICORP**  
**Appendix F**

|    | A          | B  | C                  | D              | E              | F              | G              |
|----|------------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | <b>PAC</b> | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |            | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |            | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |            | Intangible Plant - Franchises and Consents   | 48,106,078         | 48,106,078     | 48,106,078     | 48,106,078     | 48,106,078     |
| 5  |            | Intangible Plant - Miscellaneous   | 162,594,034        | 162,594,034    | 162,594,034    | 162,594,034    | 162,594,034    |
| 6  |            | <b>Total Intangible Plant</b>  | 210,700,112        | 210,700,112    | 210,700,112    | 210,700,112    | 210,700,112    |
| 7  |            |  |                    |                |                |                |                |
| 8  |            | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |            | Steam Production   | 2,040,634,760      | 2,040,634,760  | 2,040,634,760  | 2,040,634,760  | 2,040,634,760  |
| 10 |            | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |            | Hydraulic Production   | 222,423,378        | 222,423,378    | 222,423,378    | 222,423,378    | 222,423,378    |
| 12 |            | Other Production   | 1,426,124,523      | 1,426,124,523  | 1,426,124,523  | 1,426,124,523  | 1,426,124,523  |
| 13 |            | <b>Total Production Plant</b>  | 3,689,182,661      | 3,689,182,661  | 3,689,182,661  | 3,689,182,661  | 3,689,182,661  |
| 14 |            |  |                    |                |                |                |                |
| 15 |            | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |            | Transmission Plant   | 1,197,843,013      | 1,197,843,013  | 1,197,843,013  | 1,197,843,013  | 1,197,843,013  |
| 17 |            | <b>Total Transmission Plant</b>  | 1,197,843,013      | 1,197,843,013  | 1,197,843,013  | 1,197,843,013  | 1,197,843,013  |
| 18 |            |  |                    |                |                |                |                |
| 19 |            | <b>Distribution Plant:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 20 |            | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 21 |            | <b>Total Distribution Plant</b>  | 0                  | 0              | 0              | 0              | 0              |
| 22 |            |  |                    |                |                |                |                |
| 23 |            | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |            | Land and Land Rights   | 5,056,276          | 5,056,276      | 5,056,276      | 5,056,276      | 5,056,276      |
| 25 |            | Structures and Improvements  | 83,077,653         | 83,077,653     | 83,077,653     | 83,077,653     | 83,077,653     |
| 26 |            | Furniture and Equipment  | 25,396,446         | 25,506,689     | 25,585,137     | 25,747,195     | 25,915,717     |
| 27 |            | Transportation Equipment   | 15,934,536         | 15,848,755     | 15,788,792     | 15,667,669     | 15,545,494     |
| 28 |            | Stores Equipment   | 4,383,108          | 4,383,108      | 4,383,108      | 4,383,108      | 4,383,108      |
| 29 |            | Tools and Garage Equipment   | 21,274,638         | 21,274,638     | 21,274,638     | 21,274,638     | 21,274,638     |
| 30 |            | Laboratory Equipment   | 15,486,363         | 15,486,363     | 15,486,363     | 15,486,363     | 15,486,363     |
| 31 |            | Power Operated Equipment   | 21,513,058         | 21,397,246     | 21,316,291     | 21,152,763     | 20,987,817     |
| 32 |            | Communication Equipment  | 87,913,422         | 87,913,422     | 87,913,422     | 87,913,422     | 87,913,422     |
| 33 |            | Miscellaneous Equipment  | 2,086,741          | 2,086,741      | 2,086,741      | 2,086,741      | 2,086,741      |
| 34 |            | Other Tangible Property  | 211,525,833        | 212,597,469    | 213,360,043    | 214,935,364    | 216,573,523    |
| 35 |            | Asset Retirement Costs for General Plant   | 13,152             | 13,152         | 13,152         | 13,152         | 13,152         |
| 36 |            |  |                    |                |                |                |                |
| 37 |            | <b>Total General Plant</b>   | 493,661,225        | 494,641,512    | 495,341,616    | 496,794,343    | 498,313,904    |
| 38 |            |  |                    |                |                |                |                |
| 39 |            | <b>Total Electric Plant In-Service</b>   | 5,591,387,011      | 5,592,367,297  | 5,593,067,402  | 5,594,520,129  | 5,596,039,690  |
| 40 |            | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |            |  |                    |                |                |                |                |

**TABLE E - PACIFICORP**  
**Appendix F**

|    | A                           | B  | C                  | D              | E              | F              | G              |
|----|-----------------------------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | PAC                         | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 | <b>LESS:</b>                |  |                    |                |                |                |                |
| 43 | <b>Depreciation Reserve</b> |  |                    |                |                |                |                |
| 44 |                             | Steam Production Plant   | 1,199,972,860      | 1,292,032,113  | 1,353,404,949  | 1,414,777,785  | 1,476,150,620  |
| 45 |                             | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |                             | Hydraulic Production Plant   | 111,154,464        | 119,256,200    | 124,657,357    | 130,058,514    | 135,459,671    |
| 47 |                             | Other Production Plant   | 136,167,813        | 202,810,746    | 247,239,369    | 291,667,991    | 336,096,614    |
| 48 |                             | Transmission Plant (i)   | 515,761,382        | 552,105,585    | 576,335,053    | 600,564,522    | 624,793,990    |
| 49 |                             | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 50 |                             | General Plant  | 107,244,054        | 208,054,459    | 221,596,685    | 234,603,212    | 247,576,032    |
| 51 |                             | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |                             | Amortization of Intangible Plant - Account 302                                     | 9,032,792          | 10,545,807     | 11,554,483     | 12,563,159     | 13,571,836     |
| 53 |                             | Amortization of Intangible Plant - Account 303                                     | 137,962,031        | 155,533,542    | 167,247,882    | 178,962,222    | 190,676,563    |
| 54 |                             | Mining Plant Depreciation  | 10,398,961         | 10,398,961     | 10,398,961     | 10,398,961     | 10,398,961     |
| 55 |                             | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |                             | Capital Lease - Common Plant   | 45,435             | 45,435         | 45,435         | 45,435         | 45,435         |
| 57 |                             | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |                             | In-Service: Depreciation of Common Plant (a)                                       | 0                  | 0              | 0              | 0              | 0              |
| 59 |                             | Amortization of Other Utility Plant (a)  | 0                  | 0              | 0              | 0              | 0              |
| 60 |                             | Amortization of Acquisition Adjustments  | 41,850,878         | 45,275,669     | 47,558,863     | 49,842,057     | 52,125,250     |
| 61 |                             |  |                    |                |                |                |                |
| 62 |                             | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |                             |  |                    |                |                |                |                |
| 64 |                             | <b>Total Depreciation and Amortization Reserve</b>                                 | 2,269,590,670      | 2,596,058,517  | 2,760,039,037  | 2,923,483,858  | 3,086,894,973  |
| 65 |                             |  |                    |                |                |                |                |
| 66 |                             | <b>Total Net Plant</b>   | 3,321,796,341      | 2,996,308,780  | 2,833,028,364  | 2,671,036,270  | 2,509,144,717  |
| 67 |                             | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | PAC | Account Description  | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 68  |     |  |             |             |             |             |             |
| 69  |     | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |             |             |             |             |
| 70  |     |  |             |             |             |             |             |
| 71  |     | <b>Cash Working Capital (f)</b>                            | 41,772,797  | 43,005,639  | 43,856,442  | 44,703,346  | 45,563,765  |
| 72  |     |  |             |             |             |             |             |
| 73  |     | <b>Utility Plant</b>                                       | 0           | 0           | 0           | 0           | 0           |
| 74  |     | (Utility Plant) Held For Future Use                        | 0           | 0           | 0           | 0           | 0           |
| 75  |     | (Utility Plant) Completed Construction - Not Classified    | 13,830,234  | 13,760,520  | 13,711,338  | 13,610,844  | 13,507,892  |
| 76  |     | Nuclear Fuel   | 0           | 0           | 0           | 0           | 0           |
| 77  |     | Construction Work in Progress (CWIP)                       | 0           | 0           | 0           | 0           | 0           |
| 78  |     | Common Plant   | 0           | 0           | 0           | 0           | 0           |
| 79  |     | Acquisition Adjustments (Electric)                         | 0           | 0           | 0           | 0           | 0           |
| 80  |     | <b>Total</b>   | 13,830,234  | 13,760,520  | 13,711,338  | 13,610,844  | 13,507,892  |
| 81  |     |  |             |             |             |             |             |
| 82  |     |  |             |             |             |             |             |
| 83  |     | Investment in Associated Companies                         | 0           | 0           | 0           | 0           | 0           |
| 84  |     | Other Investment   | 0           | 0           | 0           | 0           | 0           |
| 85  |     | Long-Term Portion of Derivative Assets                     | 0           | 0           | 0           | 0           | 0           |
| 86  |     | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0           | 0           | 0           | 0           |
| 87  |     | <b>Total</b>   | 0           | 0           | 0           | 0           | 0           |
| 88  |     |  |             |             |             |             |             |
| 89  |     |  |             |             |             |             |             |
| 90  |     | Fuel Stock   | 43,374,549  | 43,250,558  | 43,455,512  | 44,052,989  | 44,735,794  |
| 91  |     | Fuel Stock Expenses Undistributed                          | 0           | 0           | 0           | 0           | 0           |
| 92  |     | Plant Materials and Operating Supplies                     | 48,154,644  | 49,383,243  | 50,236,387  | 50,873,035  | 51,509,356  |
| 93  |     | Merchandise (Major Only)                                   | 0           | 0           | 0           | 0           | 0           |
| 94  |     | Other Materials and Supplies (Major only)                  | 0           | 0           | 0           | 0           | 0           |
| 95  |     | EPA Allowance Inventory                                    | 0           | 0           | 0           | 0           | 0           |
| 96  |     | EPA Allowances Withheld                                    | 0           | 0           | 0           | 0           | 0           |
| 97  |     | Stores Expense Undistributed                               | 0           | 0           | 0           | 0           | 0           |
| 98  |     | Prepayments  | 22,780,246  | 22,665,418  | 22,584,409  | 22,418,881  | 22,249,305  |
| 99  |     | Derivative Instrument Assets                               | 0           | 0           | 0           | 0           | 0           |
| 100 |     | Less: Long-Term Portion of Derivative Assets               | 0           | 0           | 0           | 0           | 0           |
| 101 |     | Derivative Instrument Assets - Hedges                      | 0           | 0           | 0           | 0           | 0           |
| 102 |     | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0           | 0           | 0           | 0           |
| 103 |     | <b>Total</b>   | 114,309,439 | 115,299,219 | 116,276,308 | 117,344,905 | 118,494,455 |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B  | C                  | D                  | E                  | F                  | G                  |
|-----|-----|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | PAC | Account Description                                      | Rate Period        | FY 2012            | FY 2013            | FY 2014            | FY 2015            |
| 104 |     |  |                    |                    |                    |                    |                    |
| 105 |     |  |                    |                    |                    |                    |                    |
| 106 |     | Unamortized Debt Expenses                                | 7,519,413          | 7,778,420          | 7,752,565          | 7,699,723          | 7,645,573          |
| 107 |     | Extraordinary Property Losses                            | 0                  | 0                  | 0                  | 0                  | 0                  |
| 108 |     | Unrecovered Plant and Regulatory Study Costs             | 0                  | 0                  | 0                  | 0                  | 0                  |
| 109 |     | Other Regulatory Assets                                  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 110 |     | Prelim. Survey and Investigation Charges (Electric)      | 0                  | 0                  | 0                  | 0                  | 0                  |
| 111 |     | Preliminary Natural Gas Survey and Investigation Charges | 0                  | 0                  | 0                  | 0                  | 0                  |
| 112 |     | Other Preliminary Survey and Investigation Charges       | 0                  | 0                  | 0                  | 0                  | 0                  |
| 113 |     | Clearing Accounts  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 114 |     | Temporary Facilities                                     | 31,914             | 33,014             | 32,904             | 32,680             | 32,450             |
| 115 |     | Miscellaneous Deferred Debits                            | 0                  | 0                  | 0                  | 0                  | 0                  |
| 116 |     | Deferred Losses from Disposition of Utility Plant        | 0                  | 0                  | 0                  | 0                  | 0                  |
| 117 |     | Research, Development, and Demonstration Expenditures    | 0                  | 0                  | 0                  | 0                  | 0                  |
| 118 |     | Unamortized Loss on Reacquired Debt                      | 5,753,556          | 5,951,738          | 5,931,954          | 5,891,522          | 5,850,089          |
| 119 |     | Accumulated Deferred Income Taxes                        | 0                  | 0                  | 0                  | 0                  | 0                  |
| 120 |     | <b>Total</b>   | <b>13,304,884</b>  | <b>13,763,171</b>  | <b>13,717,423</b>  | <b>13,623,925</b>  | <b>13,528,112</b>  |
| 121 |     |  |                    |                    |                    |                    |                    |
| 122 |     | <b>Total Assets and Other Debits</b>                     | <b>183,217,354</b> | <b>185,828,549</b> | <b>187,561,511</b> | <b>189,283,020</b> | <b>191,094,224</b> |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | PAC | Account Description   | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 123 |     |   |               |               |               |               |               |
| 124 |     | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |               |               |               |               |               |
| 125 |     | <b>CURRENT AND ACCRUED LIABILITIES</b>  |               |               |               |               |               |
| 126 |     | Derivative Instrument Liabilities   | 0             | 0             | 0             | 0             | 0             |
| 127 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0             | 0             | 0             | 0             | 0             |
| 128 |     | Derivative Instrument Liabilities - Hedges                                    | 0             | 0             | 0             | 0             | 0             |
| 129 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0             | 0             | 0             | 0             | 0             |
| 130 |     | <b>Total</b>  | 0             | 0             | 0             | 0             | 0             |
| 131 |     | <b>DEFERRED CREDITS</b>   |               |               |               |               |               |
| 132 |     | Long-Term Portion of Derivative Instrument Liabilities                        | 0             | 0             | 0             | 0             | 0             |
| 133 |     | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0             | 0             | 0             | 0             | 0             |
| 134 |     | Customer Advances for Construction  | 0             | 0             | 0             | 0             | 0             |
| 135 |     | Other Deferred Credits  | 0             | 0             | 0             | 0             | 0             |
| 136 |     | Other Regulatory Liabilities  | 0             | 0             | 0             | 0             | 0             |
| 137 |     | Accumulated Deferred Investment Tax Credits                                   | 0             | 0             | 0             | 0             | 0             |
| 138 |     | Deferred Gains from Disposition of Utility Plant                              | 0             | 0             | 0             | 0             | 0             |
| 139 |     | Unamortized Gain on Reacquired Debt   | 0             | 0             | 0             | 0             | 0             |
| 140 |     | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0             | 0             | 0             | 0             | 0             |
| 141 |     | Accumulated Deferred Income Taxes-Property                                    | 0             | 0             | 0             | 0             | 0             |
| 142 |     | Accumulated Deferred Income Taxes-Other                                       | 0             | 0             | 0             | 0             | 0             |
| 143 |     | <b>Total</b>  | 0             | 0             | 0             | 0             | 0             |
| 144 |     |   |               |               |               |               |               |
| 145 |     | <b>Total Liabilities and Other Credits</b>                                    | 0             | 0             | 0             | 0             | 0             |
| 146 |     |   |               |               |               |               |               |
| 147 |     |   |               |               |               |               |               |
| 148 |     | <b>Total Rate Base</b>  | 3,505,013,695 | 3,182,137,329 | 3,020,589,875 | 2,860,319,290 | 2,700,238,941 |
| 149 |     | <i>(Total Net Plant + Debits - Credits)</i>                                   |               |               |               |               |               |
| 150 |     |   |               |               |               |               |               |
| 151 |     |   |               |               |               |               |               |
| 152 |     | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 10.87%        | 10.87%        | 10.87%        | 10.87%        | 10.87%        |
| 153 |     |   |               |               |               |               |               |
| 154 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 380,900,209   | 345,812,279   | 328,256,439   | 310,839,360   | 293,442,955   |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F             | G             |
|-----|-----|--|-------------|-------------|-------------|---------------|---------------|
| 1   | PAC | Account Description                              | Rate Period | FY 2012     | FY 2013     | FY 2014       | FY 2015       |
| 155 |     |  |             |             |             |               |               |
| 156 |     |  |             |             |             |               |               |
| 157 |     | <u>Schedule 3: Expenses</u>                      |             |             |             |               |               |
| 158 |     | Account Description                              |             |             |             |               |               |
| 159 |     |  |             |             |             |               |               |
| 160 |     |  |             |             |             |               |               |
| 161 |     | <b>Power Production Expenses:</b>                |             |             |             |               |               |
| 162 |     | <b>Steam Power Generation</b>                    |             |             |             |               |               |
| 163 |     | Steam Power - Fuel                               | 256,449,549 | 255,716,457 | 256,928,234 | 260,460,783   | 264,497,829   |
| 164 |     | Steam Power - Operations (Excluding 501 - Fuel)  | 49,346,088  | 50,768,425  | 51,821,865  | 52,858,302    | 53,928,678    |
| 165 |     | Steam Power - Maintenance                        | 75,727,470  | 77,750,575  | 79,441,642  | 81,070,167    | 82,630,760    |
| 166 |     | <b>Nuclear Power Generation</b>                  |             |             |             |               |               |
| 167 |     | Nuclear - Fuel                                   | 0           | 0           | 0           | 0             | 0             |
| 168 |     | Nuclear - Operation ( Excluding 518 - Fuel)      | 0           | 0           | 0           | 0             | 0             |
| 169 |     | Nuclear - Maintenance                            | 0           | 0           | 0           | 0             | 0             |
| 170 |     | <b>Hydraulic Power Generation</b>                |             |             |             |               |               |
| 171 |     | Hydraulic - Operation                            | 12,665,274  | 12,962,222  | 13,124,245  | 13,275,169    | 13,457,691    |
| 172 |     | Hydraulic - Maintenance                          | 2,633,999   | 2,696,800   | 2,750,062   | 2,801,625     | 2,852,755     |
| 173 |     | <b>Other Power Generation</b>                    |             |             |             |               |               |
| 174 |     | Other Power - Fuel                               | 170,533,299 | 178,880,847 | 185,843,021 | 189,872,252   | 194,459,735   |
| 175 |     | Other Power - Operations (Excluding 547 - Fuel)  | 18,666,861  | 19,429,850  | 19,755,298  | 20,081,253    | 20,452,749    |
| 176 |     | Other Power - Maintenance                        | 17,567,844  | 17,958,052  | 18,267,826  | 18,596,647    | 18,936,034    |
| 177 |     | <b>Other Power Supply Expenses</b>               |             |             |             |               |               |
| 178 |     | Purchased Power (Excluding REP Reversal)         | 257,764,764 | 265,680,485 | 272,361,968 | 340,665,453   | 414,897,944   |
| 179 |     | System Control and Load Dispatching              | 1,056,343   | 1,056,343   | 1,056,343   | 1,056,343     | 1,056,343     |
| 180 |     | Other Expenses                                   | 25,120,151  | 25,120,151  | 25,120,151  | 25,120,151    | 25,120,151    |
| 181 |     | BPA REP Reversal                                 | 0           | 0           | 0           | 0             | 0             |
| 182 |     | Public Purpose Charges (h)                       | 27,304,074  | 27,716,026  | 27,992,455  | 28,552,304    | 29,123,350    |
| 183 |     | Production Expense                               | 914,835,717 | 935,736,233 | 954,463,112 | 1,034,410,451 | 1,121,414,021 |
| 184 |     |  |             |             |             |               |               |
| 185 |     | <b>Transmission Expenses: (i)</b>                |             |             |             |               |               |
| 186 |     | Transmission of Electricity to Others (Wheeling) | 47,112,104  | 48,558,874  | 49,574,963  | 50,573,898    | 51,596,755    |
| 187 |     | Total Operations less Wheeling                   | 9,755,067   | 10,098,685  | 10,282,985  | 10,480,932    | 10,690,551    |
| 188 |     | Total Maintenance                                | 11,848,963  | 12,057,469  | 12,277,516  | 12,504,646    | 12,720,350    |
| 189 |     | <b>Total Transmission Expense</b>                | 68,716,134  | 70,715,028  | 72,135,464  | 73,559,476    | 75,007,655    |
| 190 |     |  |             |             |             |               |               |
| 191 |     | <b>Distribution Expense:</b>                     |             |             |             |               |               |
| 192 |     | Total Operations                                 | 0           | 0           | 0           | 0             | 0             |
| 193 |     | Total Maintenance                                | 0           | 0           | 0           | 0             | 0             |
| 194 |     | <b>Total Distribution Expense</b>                | 0           | 0           | 0           | 0             | 0             |



**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | PAC | Account Description                                 | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 195 |     |   |               |               |               |               |               |
| 196 |     | <b>Customer and Sales Expenses:</b>                 |               |               |               |               |               |
| 197 |     | Total Customer Accounts                             | 0             | 0             | 0             | 0             | 0             |
| 198 |     | Customer Service and Information                    | 0             | 0             | 0             | 0             | 0             |
| 199 |     | Customer assistance expenses (Major only)           | 8,062,565     | 8,241,542     | 8,373,394     | 8,532,489     | 8,694,606     |
| 200 |     | Customer Service and Information                    | 0             | 0             | 0             | 0             | 0             |
| 201 |     | Total Sales Expense                                 | 0             | 0             | 0             | 0             | 0             |
| 202 |     | <b>Total Customer and Sales Expenses</b>            | 8,062,565     | 8,241,542     | 8,373,394     | 8,532,489     | 8,694,606     |
| 203 |     |   |               |               |               |               |               |
| 204 |     | <b>Administration and General Expense:</b>          |               |               |               |               |               |
| 205 |     | <b>Operation</b>                                    |               |               |               |               |               |
| 206 |     | Administration and General Salaries                 | 35,540,692    | 37,152,552    | 38,256,911    | 39,401,790    | 40,570,007    |
| 207 |     | Office Supplies & Expenses                          | 2,644,811     | 2,764,760     | 2,846,942     | 2,932,140     | 3,019,075     |
| 208 |     | (Less) Administration Expenses Transferred - Credit | 5,881,612     | 6,148,358     | 6,331,118     | 6,520,583     | 6,713,911     |
| 209 |     | Outside Services Employed                           | 4,632,812     | 4,842,921     | 4,986,877     | 5,136,115     | 5,288,395     |
| 210 |     | Property Insurance                                  | 9,414,825     | 10,188,165    | 10,461,467    | 10,712,257    | 10,964,005    |
| 211 |     | Injuries and Damages                                | 2,528,573     | 2,643,250     | 2,721,820     | 2,803,274     | 2,886,387     |
| 212 |     | Employee Pensions & Benefits                        | 0             | 0             | 0             | 0             | 0             |
| 213 |     | Franchise Requirements                              | 0             | 0             | 0             | 0             | 0             |
| 214 |     | Regulatory Commission Expenses                      | 0             | 0             | 0             | 0             | 0             |
| 215 |     | (Less) Duplicate Charges - Credit                   | 1,826,768     | 1,976,820     | 2,029,849     | 2,078,510     | 2,127,357     |
| 216 |     | General Advertising Expenses                        | 0             | 0             | 0             | 0             | 0             |
| 217 |     | Miscellaneous General Expenses                      | 0             | 0             | 0             | 0             | 0             |
| 218 |     | Rents   | 0             | 0             | 0             | 0             | 0             |
| 219 |     | Transportation Expenses (Non Major)                 | 0             | 0             | 0             | 0             | 0             |
| 220 |     | <b>Maintenance</b>                                  | 0             | 0             | 0             | 0             | 0             |
| 221 |     | Maintenance of General Plant                        | 7,566,314     | 7,879,654     | 8,092,194     | 8,288,659     | 8,486,098     |
| 222 |     | <b>Total Administration and General Expenses</b>    | 54,619,647    | 57,346,124    | 59,005,244    | 60,675,141    | 62,372,699    |
| 223 |     |   |               |               |               |               |               |
| 224 |     | <b>Total Operations and Maintenance</b>             | 1,046,234,063 | 1,072,038,927 | 1,093,977,215 | 1,177,177,557 | 1,267,488,980 |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B  | C             | D             | E             | F             | G             |
|-----|-----|--|---------------|---------------|---------------|---------------|---------------|
| 1   | PAC | Account Description  | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 225 |     |  |               |               |               |               |               |
| 226 |     |  |               |               |               |               |               |
| 227 |     | <b>Depreciation and Amortization:</b>                          |               |               |               |               |               |
| 228 |     | Amortization of Intangible Plant - Account 301                 | 0             | 0             | 0             | 0             | 0             |
| 229 |     | Amortization of Intangible Plant - Account 302                 | 1,037,367     | 1,037,367     | 1,037,367     | 1,037,367     | 1,037,367     |
| 230 |     | Amortization of Intangible Plant - Account 303                 | 11,714,340    | 11,714,340    | 11,714,340    | 11,714,340    | 11,714,340    |
| 231 |     | Steam Production Plant   | 61,372,836    | 61,372,836    | 61,372,836    | 61,372,836    | 61,372,836    |
| 232 |     | Nuclear Production Plant                                       | 0             | 0             | 0             | 0             | 0             |
| 233 |     | Hydraulic Production Plant - Conventional                      | 5,401,157     | 5,401,157     | 5,401,157     | 5,401,157     | 5,401,157     |
| 234 |     | Hydraulic Production Plant - Pumped Storage                    | 0             | 0             | 0             | 0             | 0             |
| 235 |     | Other Production Plant   | 44,428,622    | 44,428,622    | 44,428,622    | 44,428,622    | 44,428,622    |
| 236 |     | Transmission Plant (i)   | 24,229,468    | 24,229,468    | 24,229,468    | 24,229,468    | 24,229,468    |
| 237 |     | Distribution Plant   | 0             | 0             | 0             | 0             | 0             |
| 238 |     | General Plant  | 8,016,594     | 14,022,757    | 14,047,602    | 14,099,042    | 14,152,691    |
| 239 |     | Common Plant - Electric  | 0             | 0             | 0             | 0             | 0             |
| 240 |     | Common Plant - Electric  | 0             | 0             | 0             | 0             | 0             |
| 241 |     | Depreciation Expense for Asset Retirement Costs                | 0             | 0             | 0             | 0             | 0             |
| 242 |     | Amortization of Limited Term Electric Plant                    | 0             | 0             | 0             | 0             | 0             |
| 243 |     | Amortization of Plant Acquisition Adjustments (Electric)       | 2,283,194     | 2,283,194     | 2,283,194     | 2,283,194     | 2,283,194     |
| 244 |     | <b>Total Depreciation and Amortization</b>                     | 158,483,579   | 164,489,742   | 164,514,587   | 164,566,027   | 164,619,676   |
| 245 |     |  |               |               |               |               |               |
| 246 |     |  |               |               |               |               |               |
| 247 |     | <b>Total Operating Expenses</b>                                | 1,204,717,641 | 1,236,528,669 | 1,258,491,802 | 1,341,743,584 | 1,432,108,656 |
| 248 |     | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |               |               |               |               |               |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B  | C           | D          | E          | F          | G          |
|-----|-----|--|-------------|------------|------------|------------|------------|
| 1   | PAC | Account Description                                      | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 249 |     |  |             |            |            |            |            |
| 250 |     | <u>Schedule 3A Items: Taxes (Including Income Taxes)</u> |             |            |            |            |            |
| 251 |     | Account Description                                      |             |            |            |            |            |
| 252 |     |  |             |            |            |            |            |
| 253 |     |  |             |            |            |            |            |
| 254 |     | <b>FEDERAL</b>   |             |            |            |            |            |
| 255 |     | Income Tax (Included on Schedule 2)                      | 0           | 0          | 0          | 0          | 0          |
| 256 |     | Employment Tax   | 14,293,487  | 14,908,135 | 15,325,199 | 15,772,339 | 16,243,911 |
| 257 |     | Other Federal Taxes                                      | 0           | 0          | 0          | 0          | 0          |
| 258 |     | <b>TOTAL FEDERAL</b>                                     | 14,293,487  | 14,908,135 | 15,325,199 | 15,772,339 | 16,243,911 |
| 259 |     |  |             |            |            |            |            |
| 260 |     | <b>STATE AND OTHER</b>                                   |             |            |            |            |            |
| 261 |     | Property   | 24,592,721  | 25,439,818 | 25,355,257 | 25,182,436 | 25,005,334 |
| 262 |     | Unemployment   | 685,570     | 715,051    | 735,055    | 756,502    | 779,120    |
| 263 |     | State Income, B&O, et.                                   | 0           | 0          | 0          | 0          | 0          |
| 264 |     | Franchise Fees   | 0           | 0          | 0          | 0          | 0          |
| 265 |     | Regulatory Commission                                    | 0           | 0          | 0          | 0          | 0          |
| 266 |     | City/Municipal   | 0           | 0          | 0          | 0          | 0          |
| 267 |     | Other  | 0           | 0          | 0          | 0          | 0          |
| 268 |     | <b>TOTAL STATE AND OTHER TAXES</b>                       | 25,278,291  | 26,154,869 | 26,090,312 | 25,938,937 | 25,784,455 |
| 269 |     |  |             |            |            |            |            |
| 270 |     | <b>TOTAL TAXES</b>                                       | 39,571,779  | 41,063,004 | 41,415,512 | 41,711,276 | 42,028,365 |
| 271 |     |  |             |            |            |            |            |
| 272 |     |  |             |            |            |            |            |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | PAC | Account Description  | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 273 |     | <u>Schedule 3B: Other Included Items</u>   |             |             |             |             |             |
| 274 |     | Account Description  |             |             |             |             |             |
| 275 |     |  |             |             |             |             |             |
| 276 |     |  |             |             |             |             |             |
| 277 |     | <b>Other Included Items:</b>   |             |             |             |             |             |
| 278 |     | Regulatory Credits   | 0           | 0           | 0           | 0           | 0           |
| 279 |     | (Less) Regulatory Debits   | 0           | 0           | 0           | 0           | 0           |
| 280 |     | Gain from Disposition of Utility Plant   | 0           | 0           | 0           | 0           | 0           |
| 281 |     | (Less) Loss from Disposition of Utility Plant                                      | 0           | 0           | 0           | 0           | 0           |
| 282 |     | Gain from Disposition of Allowances  | 6,047,872   | 6,047,872   | 6,047,872   | 6,047,872   | 6,047,872   |
| 283 |     | (Less) Loss from Disposition of Allowances   | 0           | 0           | 0           | 0           | 0           |
| 284 |     | Miscellaneous Nonoperating Income  | 0           | 0           | 0           | 0           | 0           |
| 285 |     | <b>Total Other Included Items</b>  | 6,047,872   | 6,047,872   | 6,047,872   | 6,047,872   | 6,047,872   |
| 286 |     |  |             |             |             |             |             |
| 287 |     | <b>Sale for Resale:</b>  |             |             |             |             |             |
| 288 |     | Sales for Resale   | 407,202,338 | 418,893,408 | 411,939,133 | 425,168,793 | 438,715,257 |
| 289 |     | <b>Total Sales for Resale</b>  | 407,202,338 | 418,893,408 | 411,939,133 | 425,168,793 | 438,715,257 |
| 290 |     |  |             |             |             |             |             |
| 291 |     | <b>Other Revenues:</b>   | 0           | 0           | 0           | 0           | 0           |
| 292 |     | Forfeited Discounts  | 0           | 0           | 0           | 0           | 0           |
| 293 |     | Miscellaneous Service Revenues   | 0           | 0           | 0           | 0           | 0           |
| 294 |     | Sales of Water and Water Power   | 44,786      | 44,786      | 44,786      | 44,786      | 44,786      |
| 295 |     | Rent from Electric Property  | 3,226,885   | 3,193,335   | 3,169,883   | 3,122,511   | 3,074,728   |
| 296 |     | Interdepartmental Rents  | 0           | 0           | 0           | 0           | 0           |
| 297 |     | Other Electric Revenues  | 21,136      | 21,136      | 21,136      | 21,136      | 21,136      |
| 298 |     | Revenues from Transmission of Electricity of Others (i)                            | 23,361,647  | 23,361,647  | 23,361,647  | 23,361,647  | 23,361,647  |
| 299 |     |  |             |             |             |             |             |
| 300 |     | <b>Total Other Revenues</b>  | 26,654,454  | 26,620,904  | 26,597,452  | 26,550,080  | 26,502,297  |
| 301 |     |  |             |             |             |             |             |
| 302 |     | <b>Total Other Included Items</b>  | 439,904,664 | 451,562,184 | 444,584,458 | 457,766,745 | 471,265,426 |
| 303 |     | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |             |             |             |             |             |

**TABLE E - PACIFICORP**  
**Appendix F**

|     | A   | B   | C                    | D                    | E                    | F                    | G                    |
|-----|-----|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1   | PAC | Account Description   | Rate Period          | FY 2012              | FY 2013              | FY 2014              | FY 2015              |
| 304 |     |   |                      |                      |                      |                      |                      |
| 305 |     | <u>Schedule 4: Average System Cost</u>  |                      |                      |                      |                      |                      |
| 306 |     |   |                      |                      |                      |                      |                      |
| 307 |     |   | 10/1/2010            | 4/1/2012             | 4/1/2013             | 4/1/2014             | 4/1/2015             |
| 308 |     |   |                      |                      |                      |                      |                      |
| 309 |     | <b>Total Operating Expenses</b>   | 1,204,717,641        | 1,236,528,669        | 1,258,491,802        | 1,341,743,584        | 1,432,108,656        |
| 310 |     | (From Schedule 3)   |                      |                      |                      |                      |                      |
| 311 |     |   |                      |                      |                      |                      |                      |
| 312 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>  | 380,900,209          | 345,812,279          | 328,256,439          | 310,839,360          | 293,442,955          |
| 313 |     | (From Schedule 2)   |                      |                      |                      |                      |                      |
| 314 |     |   |                      |                      |                      |                      |                      |
| 315 |     | <b>State and Other Taxes</b>  | 39,571,779           | 41,063,004           | 41,415,512           | 41,711,276           | 42,028,365           |
| 316 |     | (From Schedule 3a)  |                      |                      |                      |                      |                      |
| 317 |     |   |                      |                      |                      |                      |                      |
| 318 |     | <b>Total Other Included Items</b>   | 439,904,664          | 451,562,184          | 444,584,458          | 457,766,745          | 471,265,426          |
| 319 |     | (From Schedule 3b)  |                      |                      |                      |                      |                      |
| 320 |     |   |                      |                      |                      |                      |                      |
| 321 |     | <b>Total Cost</b>   | <b>1,185,284,965</b> | <b>1,171,841,768</b> | <b>1,183,579,295</b> | <b>1,236,527,476</b> | <b>1,296,314,551</b> |
| 322 |     | (Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items) |                      |                      |                      |                      |                      |
| 323 |     |   |                      |                      |                      |                      |                      |
| 324 |     |   |                      |                      |                      |                      |                      |
| 325 |     |   |                      |                      |                      |                      |                      |
| 326 |     | <b>Contract System Cost</b>   |                      |                      |                      |                      |                      |
| 327 |     | Production and Transmission   | 1,185,284,965        | 1,171,841,768        | 1,183,579,295        | 1,236,527,476        | 1,296,314,551        |
| 328 |     | (Less) New Large Single Load Costs (d)  | 0                    | 0                    | 0                    | 0                    | 0                    |
| 329 |     | <b>Total Contract System Cost</b>   | <b>1,185,284,965</b> | <b>1,171,841,768</b> | <b>1,183,579,295</b> | <b>1,236,527,476</b> | <b>1,296,314,551</b> |
| 330 |     |   |                      |                      |                      |                      |                      |
| 331 |     | <b>Contract System Load (MWh)</b>   |                      |                      |                      |                      |                      |
| 332 |     | Total Retail Load   | 22,317,614           | 22,654,332           | 22,880,278           | 23,337,884           | 23,804,641           |
| 333 |     | (Less) New Large Single Load  | 0                    | 0                    | 0                    | 0                    | 0                    |
| 334 |     | Total Retail Load (Net of NLSL) (d)   | 22,317,614           | 22,654,332           | 22,880,278           | 23,337,884           | 23,804,641           |
| 335 |     | Distribution Loss (f)   | 598,112              | 607,136              | 613,191              | 625,455              | 637,964              |
| 336 |     | <b>Total Contract System Load</b>   | <b>22,915,726</b>    | <b>23,261,468</b>    | <b>23,493,469</b>    | <b>23,963,339</b>    | <b>24,442,606</b>    |
| 337 |     |   |                      |                      |                      |                      |                      |
| 338 |     | <b>Average System Cost \$/MWh</b>   | <b>51.72</b>         | <b>50.38</b>         | <b>50.38</b>         | <b>51.60</b>         | <b>53.04</b>         |
| 339 |     |   |                      |                      |                      |                      |                      |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|    | A          | B  | C                  | D              | E              | F              | G              |
|----|------------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | <b>PGE</b> | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |            | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |            | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |            | Intangible Plant - Franchises and Consents   | 63,106,174         | 63,106,174     | 63,106,174     | 63,106,174     | 63,106,174     |
| 5  |            | Intangible Plant - Miscellaneous   | 44,076,821         | 44,076,821     | 44,076,821     | 44,076,821     | 44,076,821     |
| 6  |            | <b>Total Intangible Plant</b>  | 107,182,995        | 107,182,995    | 107,182,995    | 107,182,995    | 107,182,995    |
| 7  |            |  |                    |                |                |                |                |
| 8  |            | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |            | Steam Production   | 830,266,857        | 830,266,857    | 830,266,857    | 830,266,857    | 830,266,857    |
| 10 |            | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |            | Hydraulic Production   | 352,114,043        | 352,114,043    | 352,114,043    | 352,114,043    | 352,114,043    |
| 12 |            | Other Production   | 1,569,444,272      | 1,569,444,272  | 1,569,444,272  | 1,569,444,272  | 1,569,444,272  |
| 13 |            | <b>Total Production Plant</b>  | 2,751,825,172      | 2,751,825,172  | 2,751,825,172  | 2,751,825,172  | 2,751,825,172  |
| 14 |            |  |                    |                |                |                |                |
| 15 |            | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |            | Transmission Plant   | 328,736,753        | 328,736,753    | 328,736,753    | 328,736,753    | 328,736,753    |
| 17 |            | <b>Total Transmission Plant</b>  | 328,736,753        | 328,736,753    | 328,736,753    | 328,736,753    | 328,736,753    |
| 18 |            |  |                    |                |                |                |                |
| 19 |            | <b>Distribution Plant:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 20 |            | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 21 |            | <b>Total Distribution Plant</b>  | 0                  | 0              | 0              | 0              | 0              |
| 22 |            |  |                    |                |                |                |                |
| 23 |            | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |            | Land and Land Rights   | 2,975,024          | 3,208,797      | 3,208,797      | 3,208,797      | 3,208,797      |
| 25 |            | Structures and Improvements  | 37,139,827         | 40,058,220     | 40,058,220     | 40,058,220     | 40,058,220     |
| 26 |            | Furniture and Equipment  | 19,083,275         | 20,718,360     | 20,826,101     | 20,954,197     | 21,082,649     |
| 27 |            | Transportation Equipment   | 4,891,434          | 5,215,180      | 5,168,916      | 5,115,991      | 5,065,055      |
| 28 |            | Stores Equipment   | 530,806            | 572,516        | 572,516        | 572,516        | 572,516        |
| 29 |            | Tools and Garage Equipment   | 6,571,167          | 7,087,520      | 7,087,520      | 7,087,520      | 7,087,520      |
| 30 |            | Laboratory Equipment   | 6,596,075          | 7,114,385      | 7,114,385      | 7,114,385      | 7,114,385      |
| 31 |            | Power Operated Equipment   | 5,223,470          | 5,569,192      | 5,519,788      | 5,463,270      | 5,408,877      |
| 32 |            | Communication Equipment  | 35,309,053         | 38,083,587     | 38,083,587     | 38,083,587     | 38,083,587     |
| 33 |            | Miscellaneous Equipment  | 129,289            | 139,449        | 139,449        | 139,449        | 139,449        |
| 34 |            | Other Tangible Property  | 0                  | 0              | 0              | 0              | 0              |
| 35 |            | Asset Retirement Costs for General Plant   | 41,385             | 44,637         | 44,637         | 44,637         | 44,637         |
| 36 |            |  |                    |                |                |                |                |
| 37 |            | <b>Total General Plant</b>   | 118,490,805        | 127,811,842    | 127,823,915    | 127,842,567    | 127,865,691    |
| 38 |            |  |                    |                |                |                |                |
| 39 |            | <b>Total Electric Plant In-Service</b>   | 3,306,235,724      | 3,315,556,762  | 3,315,568,835  | 3,315,587,487  | 3,315,610,611  |
| 40 |            | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |            |  |                    |                |                |                |                |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|    | A  | B  | C             | D             | E             | F             | G             |
|----|--|--|---------------|---------------|---------------|---------------|---------------|
| 1  | PGE  | Account Description                            | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 42 | <b>LESS:</b>   |  |               |               |               |               |               |
| 43 | <b>Depreciation Reserve</b>  |  |               |               |               |               |               |
| 44 |  | Steam Production Plant                         | 597,321,045   | 615,895,212   | 628,277,990   | 640,660,768   | 653,043,546   |
| 45 |  | Nuclear Production Plant                       | 0             | 0             | 0             | 0             | 0             |
| 46 |  | Hydraulic Production Plant                     | 142,868,859   | 153,068,480   | 159,868,227   | 166,667,974   | 173,467,721   |
| 47 |  | Other Production Plant                         | 289,577,529   | 379,113,102   | 438,803,484   | 498,493,866   | 558,184,248   |
| 48 |  | Transmission Plant (i)                         | 167,224,784   | 177,423,764   | 184,223,084   | 191,022,404   | 197,821,724   |
| 49 |  | Distribution Plant                             | 0             | 0             | 0             | 0             | 0             |
| 50 |  | General Plant                                  | 66,839,972    | 76,667,060    | 83,023,001    | 89,196,756    | 95,329,195    |
| 51 |  | Amortization of Intangible Plant - Account 301 | 0             | 0             | 0             | 0             | 0             |
| 52 |  | Amortization of Intangible Plant - Account 302 | 6,709,418     | 9,393,185     | 11,182,363    | 12,971,541    | 14,760,719    |
| 53 |  | Amortization of Intangible Plant - Account 303 | 11,305,302    | 13,020,895    | 14,164,623    | 15,308,352    | 16,452,080    |
| 54 |  | Mining Plant Depreciation                      | 0             | 0             | 0             | 0             | 0             |
| 55 |  | Amortization of Plant Held for Future Use      | 0             | 0             | 0             | 0             | 0             |
| 56 |  | Capital Lease - Common Plant                   | 0             | 0             | 0             | 0             | 0             |
| 57 |  | Leasehold Improvements                         | 0             | 0             | 0             | 0             | 0             |
| 58 |  | In-Service: Depreciation of Common Plant (a)   | 0             | 0             | 0             | 0             | 0             |
| 59 |  | Amortization of Other Utility Plant (a)        | 0             | 0             | 0             | 0             | 0             |
| 60 |  | Amortization of Acquisition Adjustments        | 0             | 0             | 0             | 0             | 0             |
| 61 |  |  |               |               |               |               |               |
| 62 |  | Depreciation and Amortization Reserve (Other)  | 0             | 0             | 0             | 0             | 0             |
| 63 |  |  |               |               |               |               |               |
| 64 | <b>Total Depreciation and Amortization Reserve</b>                                 |  | 1,281,846,908 | 1,424,581,696 | 1,519,542,771 | 1,614,321,659 | 1,709,059,231 |
| 65 |  |  |               |               |               |               |               |
| 66 | <b>Total Net Plant</b>   |  | 2,024,388,817 | 1,890,975,066 | 1,796,026,064 | 1,701,265,829 | 1,606,551,380 |
| 67 | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |  |               |               |               |               |               |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B  | C           | D          | E          | F          | G          |
|-----|-----|--|-------------|------------|------------|------------|------------|
| 1   | PGE | Account Description  | Rate Period | FY 2012    | FY 2013    | FY 2014    | FY 2015    |
| 68  |     |  |             |            |            |            |            |
| 69  |     | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |            |            |            |            |
| 70  |     |  |             |            |            |            |            |
| 71  |     | <b>Cash Working Capital (f)</b>                            | 27,110,838  | 27,942,036 | 28,504,058 | 29,067,050 | 29,645,118 |
| 72  |     |  |             |            |            |            |            |
| 73  |     | <b>Utility Plant</b>                                       | 0           | 0          | 0          | 0          | 0          |
| 74  |     | (Utility Plant) Held For Future Use                        | 0           | 0          | 0          | 0          | 0          |
| 75  |     | (Utility Plant) Completed Construction - Not Classified    | 0           | 0          | 0          | 0          | 0          |
| 76  |     | Nuclear Fuel   | 0           | 0          | 0          | 0          | 0          |
| 77  |     | Construction Work in Progress (CWIP)                       | 0           | 0          | 0          | 0          | 0          |
| 78  |     | Common Plant   | 0           | 0          | 0          | 0          | 0          |
| 79  |     | Acquisition Adjustments (Electric)                         | 0           | 0          | 0          | 0          | 0          |
| 80  |     | <b>Total</b>   | 0           | 0          | 0          | 0          | 0          |
| 81  |     |  |             |            |            |            |            |
| 82  |     |  |             |            |            |            |            |
| 83  |     | Investment in Associated Companies                         | 0           | 0          | 0          | 0          | 0          |
| 84  |     | Other Investment   | 0           | 0          | 0          | 0          | 0          |
| 85  |     | Long-Term Portion of Derivative Assets                     | 0           | 0          | 0          | 0          | 0          |
| 86  |     | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0          | 0          | 0          | 0          |
| 87  |     | <b>Total</b>   | 0           | 0          | 0          | 0          | 0          |
| 88  |     |  |             |            |            |            |            |
| 89  |     |  |             |            |            |            |            |
| 90  |     | Fuel Stock   | 30,535,642  | 30,448,353 | 30,592,640 | 31,013,263 | 31,493,957 |
| 91  |     | Fuel Stock Expenses Undistributed                          | 0           | 0          | 0          | 0          | 0          |
| 92  |     | Plant Materials and Operating Supplies                     | 19,449,872  | 19,822,476 | 20,058,566 | 20,250,160 | 20,446,708 |
| 93  |     | Merchandise (Major Only)                                   | 0           | 0          | 0          | 0          | 0          |
| 94  |     | Other Materials and Supplies (Major only)                  | 0           | 0          | 0          | 0          | 0          |
| 95  |     | EPA Allowance Inventory                                    | 360,000     | 360,000    | 360,000    | 360,000    | 360,000    |
| 96  |     | EPA Allowances Withheld                                    | 0           | 0          | 0          | 0          | 0          |
| 97  |     | Stores Expense Undistributed                               | 1,862,945   | 1,898,633  | 1,921,246  | 1,939,598  | 1,958,423  |
| 98  |     | Prepayments  | 15,353,068  | 15,180,994 | 15,046,947 | 14,890,626 | 14,737,096 |
| 99  |     | Derivative Instrument Assets                               | 0           | 0          | 0          | 0          | 0          |
| 100 |     | Less: Long-Term Portion of Derivative Assets               | 0           | 0          | 0          | 0          | 0          |
| 101 |     | Derivative Instrument Assets - Hedges                      | 0           | 0          | 0          | 0          | 0          |
| 102 |     | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0          | 0          | 0          | 0          |
| 103 |     | <b>Total</b>   | 67,561,527  | 67,710,456 | 67,979,400 | 68,453,646 | 68,996,184 |



**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | PGE | Account Description                                      | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 104 |     |  |             |             |             |             |             |
| 105 |     |  |             |             |             |             |             |
| 106 |     | Unamortized Debt Expenses                                | 8,733,642   | 8,630,472   | 8,556,696   | 8,470,619   | 8,386,035   |
| 107 |     | Extraordinary Property Losses                            | 0           | 0           | 0           | 0           | 0           |
| 108 |     | Unrecovered Plant and Regulatory Study Costs             | 0           | 0           | 0           | 0           | 0           |
| 109 |     | Other Regulatory Assets                                  | 120,639,970 | 120,639,970 | 120,639,970 | 120,639,970 | 120,639,970 |
| 110 |     | Prelim. Survey and Investigation Charges (Electric)      | 0           | 0           | 0           | 0           | 0           |
| 111 |     | Preliminary Natural Gas Survey and Investigation Charges | 0           | 0           | 0           | 0           | 0           |
| 112 |     | Other Preliminary Survey and Investigation Charges       | 0           | 0           | 0           | 0           | 0           |
| 113 |     | Clearing Accounts  | 0           | 0           | 0           | 0           | 0           |
| 114 |     | Temporary Facilities                                     | 124,118     | 122,652     | 121,604     | 120,380     | 119,178     |
| 115 |     | Miscellaneous Deferred Debits                            | 5,689,848   | 5,689,848   | 5,689,848   | 5,689,848   | 5,689,848   |
| 116 |     | Deferred Losses from Disposition of Utility Plant        | 0           | 0           | 0           | 0           | 0           |
| 117 |     | Research, Development, and Demonstration Expenditures    | 0           | 0           | 0           | 0           | 0           |
| 118 |     | Unamortized Loss on Reacquired Debt                      | 16,009,066  | 15,819,953  | 15,684,719  | 15,526,936  | 15,371,891  |
| 119 |     | Accumulated Deferred Income Taxes                        | 0           | 0           | 0           | 0           | 0           |
| 120 |     | <b>Total</b>   | 151,196,645 | 150,902,895 | 150,692,836 | 150,447,753 | 150,206,923 |
| 121 |     |  |             |             |             |             |             |
| 122 |     | <b>Total Assets and Other Debits</b>                     | 245,869,010 | 246,555,386 | 247,176,294 | 247,968,449 | 248,848,225 |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | PGE | Account Description   | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 123 |     |   |               |               |               |               |               |
| 124 |     | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |               |               |               |               |               |
| 125 |     | <b>CURRENT AND ACCRUED LIABILITIES</b>  |               |               |               |               |               |
| 126 |     | Derivative Instrument Liabilities   | 0             | 0             | 0             | 0             | 0             |
| 127 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0             | 0             | 0             | 0             | 0             |
| 128 |     | Derivative Instrument Liabilities - Hedges                                    | 0             | 0             | 0             | 0             | 0             |
| 129 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0             | 0             | 0             | 0             | 0             |
| 130 |     | <b>Total</b>  | 0             | 0             | 0             | 0             | 0             |
| 131 |     | <b>DEFERRED CREDITS</b>   |               |               |               |               |               |
| 132 |     | Long-Term Portion of Derivative Instrument Liabilities                        | 0             | 0             | 0             | 0             | 0             |
| 133 |     | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0             | 0             | 0             | 0             | 0             |
| 134 |     | Customer Advances for Construction  | 0             | 0             | 0             | 0             | 0             |
| 135 |     | Other Deferred Credits  | 144,866       | 144,866       | 144,866       | 144,866       | 144,866       |
| 136 |     | Other Regulatory Liabilities  | 40,249,672    | 40,249,672    | 40,249,672    | 40,249,672    | 40,249,672    |
| 137 |     | Accumulated Deferred Investment Tax Credits                                   | 0             | 0             | 0             | 0             | 0             |
| 138 |     | Deferred Gains from Disposition of Utility Plant                              | 0             | 0             | 0             | 0             | 0             |
| 139 |     | Unamortized Gain on Reacquired Debt   | 108,130       | 106,853       | 105,940       | 104,874       | 103,827       |
| 140 |     | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0             | 0             | 0             | 0             | 0             |
| 141 |     | Accumulated Deferred Income Taxes-Property                                    | 0             | 0             | 0             | 0             | 0             |
| 142 |     | Accumulated Deferred Income Taxes-Other                                       | 0             | 0             | 0             | 0             | 0             |
| 143 |     | <b>Total</b>  | 40,502,668    | 40,501,391    | 40,500,477    | 40,499,411    | 40,498,364    |
| 144 |     |   |               |               |               |               |               |
| 145 |     | <b>Total Liabilities and Other Credits</b>                                    | 40,502,668    | 40,501,391    | 40,500,477    | 40,499,411    | 40,498,364    |
| 146 |     |   |               |               |               |               |               |
| 147 |     |   |               |               |               |               |               |
| 148 |     | <b>Total Rate Base</b>  | 2,229,755,159 | 2,097,029,062 | 2,002,701,881 | 1,908,734,866 | 1,814,901,240 |
| 149 |     | <i>(Total Net Plant + Debits - Credits)</i>                                   |               |               |               |               |               |
| 150 |     |   |               |               |               |               |               |
| 151 |     |   |               |               |               |               |               |
| 152 |     | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 11.01%        | 11.01%        | 11.01%        | 11.01%        | 11.01%        |
| 153 |     |   |               |               |               |               |               |
| 154 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 245,478,891   | 230,866,769   | 220,482,072   | 210,137,026   | 199,806,666   |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B  | C             | D             | E             | F             | G             |
|-----|-----|--|---------------|---------------|---------------|---------------|---------------|
| 1   | PGE | Account Description                              | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 155 |     |  |               |               |               |               |               |
| 156 |     |  |               |               |               |               |               |
| 157 |     | <u>Schedule 3: Expenses</u>                      |               |               |               |               |               |
| 158 |     | Account Description                              |               |               |               |               |               |
| 159 |     |  |               |               |               |               |               |
| 160 |     |  |               |               |               |               |               |
| 161 |     | <b>Power Production Expenses:</b>                |               |               |               |               |               |
| 162 |     | <b>Steam Power Generation</b>                    |               |               |               |               |               |
| 163 |     | Steam Power - Fuel                               | 67,662,247    | 67,468,827    | 67,788,545    | 68,720,581    | 69,785,724    |
| 164 |     | Steam Power - Operations (Excluding 501 - Fuel)  | 11,269,981    | 11,594,824    | 11,835,415    | 12,072,123    | 12,316,583    |
| 165 |     | Steam Power - Maintenance                        | 22,122,727    | 22,713,749    | 23,207,771    | 23,683,521    | 24,139,427    |
| 166 |     | <b>Nuclear Power Generation</b>                  |               |               |               |               |               |
| 167 |     | Nuclear - Fuel                                   | 0             | 0             | 0             | 0             | 0             |
| 168 |     | Nuclear - Operation ( Excluding 518 - Fuel)      | 0             | 0             | 0             | 0             | 0             |
| 169 |     | Nuclear - Maintenance                            | 0             | 0             | 0             | 0             | 0             |
| 170 |     | <b>Hydraulic Power Generation</b>                |               |               |               |               |               |
| 171 |     | Hydraulic - Operation                            | 7,230,879     | 7,400,413     | 7,492,915     | 7,579,081     | 7,683,287     |
| 172 |     | Hydraulic - Maintenance                          | 4,576,963     | 4,686,090     | 4,778,640     | 4,868,239     | 4,957,084     |
| 173 |     | <b>Other Power Generation</b>                    |               |               |               |               |               |
| 174 |     | Other Power - Fuel                               | 247,451,629   | 259,564,304   | 269,666,738   | 275,513,337   | 282,169,984   |
| 175 |     | Other Power - Operations (Excluding 547 - Fuel)  | 16,776,856    | 17,449,140    | 17,741,412    | 18,034,138    | 18,367,763    |
| 176 |     | Other Power - Maintenance                        | 10,465,399    | 10,697,851    | 10,882,388    | 11,078,271    | 11,280,448    |
| 177 |     | <b>Other Power Supply Expenses</b>               |               |               |               |               |               |
| 178 |     | Purchased Power (Excluding REP Reversal)         | 995,599,274   | 1,109,092,367 | 1,161,805,198 | 1,226,660,093 | 1,293,854,321 |
| 179 |     | System Control and Load Dispatching              | 2,555,351     | 2,555,351     | 2,555,351     | 2,555,351     | 2,555,351     |
| 180 |     | Other Expenses                                   | 9,565,691     | 9,565,691     | 9,565,691     | 9,565,691     | 9,565,691     |
| 181 |     | BPA REP Reversal                                 | 0             | 0             | 0             | 0             | 0             |
| 182 |     | Public Purpose Charges (h)                       | 48,522,818    | 49,691,168    | 50,590,340    | 51,638,419    | 52,669,316    |
| 183 |     | Production Expense                               | 1,443,799,815 | 1,572,479,775 | 1,637,910,403 | 1,711,968,845 | 1,789,344,980 |
| 184 |     |  |               |               |               |               |               |
| 185 |     | <b>Transmission Expenses: (i)</b>                |               |               |               |               |               |
| 186 |     | Transmission of Electricity to Others (Wheeling) | 69,226,324    | 71,352,202    | 72,845,239    | 74,313,070    | 75,816,051    |
| 187 |     | Total Operations less Wheeling                   | 8,819,449     | 9,130,111     | 9,296,734     | 9,475,695     | 9,665,209     |
| 188 |     | Total Maintenance                                | 4,114,792     | 4,187,199     | 4,263,615     | 4,342,491     | 4,417,398     |
| 189 |     | <b>Total Transmission Expense</b>                | 82,160,565    | 84,669,511    | 86,405,588    | 88,131,256    | 89,898,659    |
| 190 |     |  |               |               |               |               |               |
| 191 |     | <b>Distribution Expense:</b>                     |               |               |               |               |               |
| 192 |     | Total Operations                                 | 0             | 0             | 0             | 0             | 0             |
| 193 |     | Total Maintenance                                | 0             | 0             | 0             | 0             | 0             |
| 194 |     | <b>Total Distribution Expense</b>                | 0             | 0             | 0             | 0             | 0             |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | PGE | Account Description                                 | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 195 |     |   |               |               |               |               |               |
| 196 |     | <b>Customer and Sales Expenses:</b>                 |               |               |               |               |               |
| 197 |     | Total Customer Accounts                             | 0             | 0             | 0             | 0             | 0             |
| 198 |     | Customer Service and Information                    | 0             | 0             | 0             | 0             | 0             |
| 199 |     | Customer assistance expenses (Major only)           | 0             | 0             | 0             | 0             | 0             |
| 200 |     | Customer Service and Information                    | 0             | 0             | 0             | 0             | 0             |
| 201 |     | Total Sales Expense                                 | 0             | 0             | 0             | 0             | 0             |
| 202 |     | <b>Total Customer and Sales Expenses</b>            | 0             | 0             | 0             | 0             | 0             |
| 203 |     |   |               |               |               |               |               |
| 204 |     | <b>Administration and General Expense:</b>          |               |               |               |               |               |
| 205 |     | <b>Operation</b>                                    |               |               |               |               |               |
| 206 |     | Administration and General Salaries                 | 21,488,637    | 22,373,859    | 22,965,943    | 23,576,022    | 24,197,860    |
| 207 |     | Office Supplies & Expenses                          | 9,132,596     | 9,508,813     | 9,760,446     | 10,019,728    | 10,284,007    |
| 208 |     | (Less) Administration Expenses Transferred - Credit | 6,272,216     | 6,530,599     | 6,703,420     | 6,881,493     | 7,062,998     |
| 209 |     | Outside Services Employed                           | 2,248,278     | 2,340,896     | 2,402,843     | 2,466,674     | 2,531,734     |
| 210 |     | Property Insurance                                  | 3,762,341     | 3,889,054     | 3,972,447     | 4,054,393     | 4,137,335     |
| 211 |     | Injuries and Damages                                | 2,295,922     | 2,390,502     | 2,453,762     | 2,518,945     | 2,585,385     |
| 212 |     | Employee Pensions & Benefits                        | 17,674,821    | 18,402,933    | 18,889,934    | 19,391,735    | 19,903,210    |
| 213 |     | Franchise Requirements                              | 0             | 0             | 0             | 0             | 0             |
| 214 |     | Regulatory Commission Expenses                      | 0             | 0             | 0             | 0             | 0             |
| 215 |     | (Less) Duplicate Charges - Credit                   | 1,125,298     | 1,163,277     | 1,188,221     | 1,212,732     | 1,237,541     |
| 216 |     | General Advertising Expenses                        | 0             | 0             | 0             | 0             | 0             |
| 217 |     | Miscellaneous General Expenses                      | 0             | 0             | 0             | 0             | 0             |
| 218 |     | Rents   | 0             | 0             | 0             | 0             | 0             |
| 219 |     | Transportation Expenses (Non Major)                 | 0             | 0             | 0             | 0             | 0             |
| 220 |     | <b>Maintenance</b>                                  | 0             | 0             | 0             | 0             | 0             |
| 221 |     | Maintenance of General Plant                        | 957,214       | 991,484       | 1,013,558     | 1,035,459     | 1,057,662     |
| 222 |     | <b>Total Administration and General Expenses</b>    | 50,162,295    | 52,203,664    | 53,567,293    | 54,968,730    | 56,396,653    |
| 223 |     |   |               |               |               |               |               |
| 224 |     | <b>Total Operations and Maintenance</b>             | 1,576,122,675 | 1,709,352,950 | 1,777,883,284 | 1,855,068,831 | 1,935,640,291 |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B  | C             | D             | E             | F             | G             |
|-----|-----|--|---------------|---------------|---------------|---------------|---------------|
| 1   | PGE | Account Description  | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 225 |     |  |               |               |               |               |               |
| 226 |     |  |               |               |               |               |               |
| 227 |     | <b>Depreciation and Amortization:</b>                          |               |               |               |               |               |
| 228 |     | Amortization of Intangible Plant - Account 301                 | 0             | 0             | 0             | 0             | 0             |
| 229 |     | Amortization of Intangible Plant - Account 302                 | 1,789,178     | 1,789,178     | 1,789,178     | 1,789,178     | 1,789,178     |
| 230 |     | Amortization of Intangible Plant - Account 303                 | 1,143,728     | 1,143,728     | 1,143,728     | 1,143,728     | 1,143,728     |
| 231 |     | Steam Production Plant   | 12,382,778    | 12,382,778    | 12,382,778    | 12,382,778    | 12,382,778    |
| 232 |     | Nuclear Production Plant                                       | 0             | 0             | 0             | 0             | 0             |
| 233 |     | Hydraulic Production Plant - Conventional                      | 6,799,747     | 6,799,747     | 6,799,747     | 6,799,747     | 6,799,747     |
| 234 |     | Hydraulic Production Plant - Pumped Storage                    | 0             | 0             | 0             | 0             | 0             |
| 235 |     | Other Production Plant   | 39,298,678    | 59,690,382    | 59,690,382    | 59,690,382    | 59,690,382    |
| 236 |     | Transmission Plant (i)   | 6,799,320     | 6,799,320     | 6,799,320     | 6,799,320     | 6,799,320     |
| 237 |     | Distribution Plant   | 0             | 0             | 0             | 0             | 0             |
| 238 |     | General Plant  | 7,121,676     | 7,087,645     | 7,096,992     | 7,108,149     | 7,119,378     |
| 239 |     | Common Plant - Electric  | 0             | 0             | 0             | 0             | 0             |
| 240 |     | Common Plant - Electric  | 0             | 0             | 0             | 0             | 0             |
| 241 |     | Depreciation Expense for Asset Retirement Costs                | 19,783        | 19,783        | 19,783        | 19,783        | 19,783        |
| 242 |     | Amortization of Limited Term Electric Plant                    | 0             | 0             | 0             | 0             | 0             |
| 243 |     | Amortization of Plant Acquisition Adjustments (Electric)       | 0             | 0             | 0             | 0             | 0             |
| 244 |     | <b>Total Depreciation and Amortization</b>                     | 75,354,888    | 95,712,562    | 95,721,909    | 95,733,066    | 95,744,294    |
| 245 |     |  |               |               |               |               |               |
| 246 |     |  |               |               |               |               |               |
| 247 |     | <b>Total Operating Expenses</b>                                | 1,651,477,563 | 1,805,065,512 | 1,873,605,193 | 1,950,801,898 | 2,031,384,585 |
| 248 |     | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |               |               |               |               |               |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B  | C                  | D                 | E                 | F                 | G                 |
|-----|-----|--|--------------------|-------------------|-------------------|-------------------|-------------------|
| 1   | PGE | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b>    | <b>FY 2013</b>    | <b>FY 2014</b>    | <b>FY 2015</b>    |
| 249 |     |  |                    |                   |                   |                   |                   |
| 250 |     | <u>Schedule 3A Items: Taxes (Including Income Taxes)</u> |                    |                   |                   |                   |                   |
| 251 |     | <b>Account Description</b>                               |                    |                   |                   |                   |                   |
| 252 |     |  |                    |                   |                   |                   |                   |
| 253 |     |  |                    |                   |                   |                   |                   |
| 254 |     | <b>FEDERAL</b>   |                    |                   |                   |                   |                   |
| 255 |     | Income Tax (Included on Schedule 2)                      | 0                  | 0                 | 0                 | 0                 | 0                 |
| 256 |     | Employment Tax   | 0                  | 0                 | 0                 | 0                 | 0                 |
| 257 |     | Other Federal Taxes                                      | 6,668,419          | 6,637,104         | 6,612,709         | 6,584,260         | 6,556,320         |
| 258 |     | <b>TOTAL FEDERAL</b>                                     | <b>6,668,419</b>   | <b>6,637,104</b>  | <b>6,612,709</b>  | <b>6,584,260</b>  | <b>6,556,320</b>  |
| 259 |     |  |                    |                   |                   |                   |                   |
| 260 |     | <b>STATE AND OTHER</b>                                   |                    |                   |                   |                   |                   |
| 261 |     | Property   | 0                  | 0                 | 0                 | 0                 | 0                 |
| 262 |     | Unemployment   | 21,882,025         | 22,569,678        | 23,014,474        | 23,472,138        | 23,958,128        |
| 263 |     | State Income, B&O, et.                                   | 546,375            | 543,809           | 541,810           | 539,480           | 537,190           |
| 264 |     | Franchise Fees   | 0                  | 0                 | 0                 | 0                 | 0                 |
| 265 |     | Regulatory Commission                                    | 0                  | 0                 | 0                 | 0                 | 0                 |
| 266 |     | City/Municipal   | 0                  | 0                 | 0                 | 0                 | 0                 |
| 267 |     | Other  | 0                  | 0                 | 0                 | 0                 | 0                 |
| 268 |     | <b>TOTAL STATE AND OTHER TAXES</b>                       | <b>22,428,400</b>  | <b>23,113,487</b> | <b>23,556,284</b> | <b>24,011,618</b> | <b>24,495,318</b> |
| 269 |     |  |                    |                   |                   |                   |                   |
| 270 |     | <b>TOTAL TAXES</b>                                       | <b>29,096,820</b>  | <b>29,750,591</b> | <b>30,168,993</b> | <b>30,595,878</b> | <b>31,051,637</b> |
| 271 |     |  |                    |                   |                   |                   |                   |
| 272 |     |  |                    |                   |                   |                   |                   |

**TABLE F - PORTLAND GENERAL ELECTRIC**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | PGE | Account Description  | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 273 |     | <u>Schedule 3B: Other Included Items</u>   |             |             |             |             |             |
| 274 |     | Account Description  |             |             |             |             |             |
| 275 |     |  |             |             |             |             |             |
| 276 |     |  |             |             |             |             |             |
| 277 |     | <b>Other Included Items:</b>   |             |             |             |             |             |
| 278 |     | Regulatory Credits   | 7,364,214   | 7,364,214   | 7,364,214   | 7,364,214   | 7,364,214   |
| 279 |     | (Less) Regulatory Debits   | 0           | 0           | 0           | 0           | 0           |
| 280 |     | Gain from Disposition of Utility Plant   | 4,177,797   | 4,177,797   | 4,177,797   | 4,177,797   | 4,177,797   |
| 281 |     | (Less) Loss from Disposition of Utility Plant                                      | 0           | 0           | 0           | 0           | 0           |
| 282 |     | Gain from Disposition of Allowances  | 0           | 0           | 0           | 0           | 0           |
| 283 |     | (Less) Loss from Disposition of Allowances   | 0           | 0           | 0           | 0           | 0           |
| 284 |     | Miscellaneous Nonoperating Income  | 9,764,919   | 9,764,919   | 9,764,919   | 9,764,919   | 9,764,919   |
| 285 |     | <b>Total Other Included Items</b>  | 21,306,930  | 21,306,930  | 21,306,930  | 21,306,930  | 21,306,930  |
| 286 |     |  |             |             |             |             |             |
| 287 |     | <b>Sale for Resale:</b>  |             |             |             |             |             |
| 288 |     | Sales for Resale   | 661,996,458 | 738,682,742 | 760,600,408 | 787,994,399 | 816,044,380 |
| 289 |     | <b>Total Sales for Resale</b>  | 661,996,458 | 738,682,742 | 760,600,408 | 787,994,399 | 816,044,380 |
| 290 |     |  |             |             |             |             |             |
| 291 |     | <b>Other Revenues:</b>   | 0           | 0           | 0           | 0           | 0           |
| 292 |     | Forfeited Discounts  | 0           | 0           | 0           | 0           | 0           |
| 293 |     | Miscellaneous Service Revenues   | 0           | 0           | 0           | 0           | 0           |
| 294 |     | Sales of Water and Water Power   | (23,300)    | (23,300)    | (23,300)    | (23,300)    | (23,300)    |
| 295 |     | Rent from Electric Property  | 715,235     | 699,093     | 686,773     | 672,679     | 659,115     |
| 296 |     | Interdepartmental Rents  | 0           | 0           | 0           | 0           | 0           |
| 297 |     | Other Electric Revenues  | 52,387,978  | 52,387,978  | 52,387,978  | 52,387,978  | 52,387,978  |
| 298 |     | Revenues from Transmission of Electricity of Others (i)                            | 6,781,356   | 6,781,356   | 6,781,356   | 6,781,356   | 6,781,356   |
| 299 |     |  |             |             |             |             |             |
| 300 |     | <b>Total Other Revenues</b>  | 59,861,269  | 59,845,127  | 59,832,807  | 59,818,713  | 59,805,149  |
| 301 |     |  |             |             |             |             |             |
| 302 |     | <b>Total Other Included Items</b>  | 743,164,656 | 819,834,799 | 841,740,144 | 869,120,042 | 897,156,459 |
| 303 |     | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |             |             |             |             |             |

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**Appendix F**

|     | A   | B   | C                    | D                    | E                    | F                    | G                    |
|-----|-----|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1   | PGE | <b>Account Description</b>  | <b>Rate Period</b>   | <b>FY 2012</b>       | <b>FY 2013</b>       | <b>FY 2014</b>       | <b>FY 2015</b>       |
| 304 |     |   |                      |                      |                      |                      |                      |
| 305 |     | <i><u>Schedule 4: Average System Cost</u></i>   |                      |                      |                      |                      |                      |
| 306 |     |   |                      |                      |                      |                      |                      |
| 307 |     |   | <b>10/1/2010</b>     | <b>4/1/2012</b>      | <b>4/1/2013</b>      | <b>4/1/2014</b>      | <b>4/1/2015</b>      |
| 308 |     |   |                      |                      |                      |                      |                      |
| 309 |     | <b>Total Operating Expenses</b>   | 1,651,477,563        | 1,805,065,512        | 1,873,605,193        | 1,950,801,898        | 2,031,384,585        |
| 310 |     | (From Schedule 3)   |                      |                      |                      |                      |                      |
| 311 |     |   |                      |                      |                      |                      |                      |
| 312 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>  | 245,478,891          | 230,866,769          | 220,482,072          | 210,137,026          | 199,806,666          |
| 313 |     | (From Schedule 2)   |                      |                      |                      |                      |                      |
| 314 |     |   |                      |                      |                      |                      |                      |
| 315 |     | <b>State and Other Taxes</b>  | 29,096,820           | 29,750,591           | 30,168,993           | 30,595,878           | 31,051,637           |
| 316 |     | (From Schedule 3a)  |                      |                      |                      |                      |                      |
| 317 |     |   |                      |                      |                      |                      |                      |
| 318 |     | <b>Total Other Included Items</b>   | 743,164,656          | 819,834,799          | 841,740,144          | 869,120,042          | 897,156,459          |
| 319 |     | (From Schedule 3b)  |                      |                      |                      |                      |                      |
| 320 |     |   |                      |                      |                      |                      |                      |
| 321 |     | <b>Total Cost</b>   | <b>1,182,888,617</b> | <b>1,245,848,073</b> | <b>1,282,516,113</b> | <b>1,322,414,760</b> | <b>1,365,086,430</b> |
| 322 |     | (Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items) |                      |                      |                      |                      |                      |
| 323 |     |   |                      |                      |                      |                      |                      |
| 324 |     |   |                      |                      |                      |                      |                      |
| 325 |     |   |                      |                      |                      |                      |                      |
| 326 |     | <b>Contract System Cost</b>   |                      |                      |                      |                      |                      |
| 327 |     | Production and Transmission   | 1,182,888,617        | 1,245,848,073        | 1,282,516,113        | 1,322,414,760        | 1,365,086,430        |
| 328 |     | (Less) New Large Single Load Costs (d)  | 2,056,367            | 2,062,131            | 2,071,730            | 2,071,599            | 2,074,454            |
| 329 |     | <b>Total Contract System Cost</b>   | <b>1,180,832,250</b> | <b>1,243,785,942</b> | <b>1,280,444,383</b> | <b>1,320,343,161</b> | <b>1,363,011,975</b> |
| 330 |     |   |                      |                      |                      |                      |                      |
| 331 |     | <b>Contract System Load (MWh)</b>   |                      |                      |                      |                      |                      |
| 332 |     | Total Retail Load   | 18,718,899           | 19,169,620           | 19,516,498           | 19,920,821           | 20,318,515           |
| 333 |     | (Less) New Large Single Load  | 31,637               | 31,637               | 31,637               | 31,637               | 31,637               |
| 334 |     | Total Retail Load (Net of NLSL) (d)   | 18,687,262           | 19,137,983           | 19,484,861           | 19,889,184           | 20,286,878           |
| 335 |     | Distribution Loss (f)   | 1,010,757            | 1,035,095            | 1,053,825            | 1,075,657            | 1,097,131            |
| 336 |     | <b>Total Contract System Load</b>   | <b>19,698,019</b>    | <b>20,173,077</b>    | <b>20,538,686</b>    | <b>20,964,841</b>    | <b>21,384,009</b>    |
| 337 |     |   |                      |                      |                      |                      |                      |
| 338 |     | <b>Average System Cost \$/MWh</b>   | <b>59.95</b>         | <b>61.66</b>         | <b>62.34</b>         | <b>62.98</b>         | <b>63.74</b>         |
| 339 |     |   |                      |                      |                      |                      |                      |



**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|    | A   | B  | C                  | D              | E              | F              | G              |
|----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | PSE | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |     | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |     | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |     | Intangible Plant - Franchises and Consents   | 13,401,010         | 13,401,010     | 13,401,010     | 13,401,010     | 13,401,010     |
| 5  |     | Intangible Plant - Miscellaneous   | 7,873,935          | 7,873,935      | 7,873,935      | 7,873,935      | 7,873,935      |
| 6  |     | <b>Total Intangible Plant</b>  | 21,274,944         | 21,274,944     | 21,274,944     | 21,274,944     | 21,274,944     |
| 7  |     |  |                    |                |                |                |                |
| 8  |     | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |     | Steam Production   | 1,003,372,944      | 1,003,372,944  | 1,003,372,944  | 1,003,372,944  | 1,003,372,944  |
| 10 |     | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |     | Hydraulic Production   | 171,404,775        | 171,404,775    | 171,404,775    | 171,404,775    | 171,404,775    |
| 12 |     | Other Production   | 1,299,856,511      | 1,299,856,511  | 1,299,856,511  | 1,299,856,511  | 1,299,856,511  |
| 13 |     | <b>Total Production Plant</b>  | 2,474,634,230      | 2,474,634,230  | 2,474,634,230  | 2,474,634,230  | 2,474,634,230  |
| 14 |     |  |                    |                |                |                |                |
| 15 |     | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |     | Transmission Plant   | 334,956,608        | 334,956,608    | 334,956,608    | 334,956,608    | 334,956,608    |
| 17 |     | <b>Total Transmission Plant</b>  | 334,956,608        | 334,956,608    | 334,956,608    | 334,956,608    | 334,956,608    |
| 18 |     |  |                    |                |                |                |                |
| 19 |     | <b>Distribution Plant:</b>   |                    |                |                |                |                |
| 20 |     | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 21 |     | <b>Total Distribution Plant</b>  | 0                  | 0              | 0              | 0              | 0              |
| 22 |     |  |                    |                |                |                |                |
| 23 |     | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |     | Land and Land Rights   | 3,267,520          | 3,354,509      | 3,354,509      | 3,354,509      | 3,354,509      |
| 25 |     | Structures and Improvements  | 25,255,369         | 25,927,729     | 25,927,729     | 25,927,729     | 25,927,729     |
| 26 |     | Furniture and Equipment  | 8,642,756          | 8,960,166      | 9,016,366      | 9,078,618      | 9,144,843      |
| 27 |     | Transportation Equipment   | 104,239            | 105,851        | 105,134        | 104,368        | 103,583        |
| 28 |     | Stores Equipment   | 528,315            | 542,380        | 542,380        | 542,380        | 542,380        |
| 29 |     | Tools and Garage Equipment   | 2,871,158          | 2,947,595      | 2,947,595      | 2,947,595      | 2,947,595      |
| 30 |     | Laboratory Equipment   | 6,778,418          | 6,958,876      | 6,958,876      | 6,958,876      | 6,958,876      |
| 31 |     | Power Operated Equipment   | 121,345            | 123,221        | 122,387        | 121,495        | 120,581        |
| 32 |     | Communication Equipment  | 20,612,734         | 21,161,497     | 21,161,497     | 21,161,497     | 21,161,497     |
| 33 |     | Miscellaneous Equipment  | 221,740            | 227,643        | 227,643        | 227,643        | 227,643        |
| 34 |     | Other Tangible Property  | 0                  | 0              | 0              | 0              | 0              |
| 35 |     | Asset Retirement Costs for General Plant   | 16,140             | 16,569         | 16,569         | 16,569         | 16,569         |
| 36 |     |  |                    |                |                |                |                |
| 37 |     | <b>Total General Plant</b>   | 68,419,734         | 70,326,038     | 70,380,687     | 70,441,280     | 70,505,806     |
| 38 |     |  |                    |                |                |                |                |
| 39 |     | <b>Total Electric Plant In-Service</b>   | 2,899,285,516      | 2,901,191,820  | 2,901,246,469  | 2,901,307,062  | 2,901,371,588  |
| 40 |     | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |     |  |                    |                |                |                |                |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|    | A                           | B  | C                  | D              | E              | F              | G              |
|----|-----------------------------|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | PSE                         | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 | <b>LESS:</b>                |  |                    |                |                |                |                |
| 43 | <b>Depreciation Reserve</b> |  |                    |                |                |                |                |
| 44 |                             | Steam Production Plant   | 654,863,651        | 691,051,710    | 715,177,083    | 739,302,456    | 763,427,829    |
| 45 |                             | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |                             | Hydraulic Production Plant   | 163,809,584        | 181,233,626    | 192,849,654    | 204,465,682    | 216,081,710    |
| 47 |                             | Other Production Plant   | 305,121,054        | 374,237,644    | 420,315,370    | 466,393,096    | 512,470,823    |
| 48 |                             | Transmission Plant (i)   | 148,758,961        | 160,594,244    | 168,484,433    | 176,374,622    | 184,264,811    |
| 49 |                             | Distribution Plant   |                    |                |                |                |                |
| 50 |                             | General Plant  | 30,764,696         | 33,965,098     | 36,077,962     | 38,140,670     | 40,165,265     |
| 51 |                             | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |                             | Amortization of Intangible Plant - Account 302                                     | 1,300,091          | 1,363,295      | 1,405,432      | 1,447,568      | 1,489,705      |
| 53 |                             | Amortization of Intangible Plant - Account 303                                     | 7,807,624          | 9,569,122      | 10,743,454     | 11,917,786     | 13,092,118     |
| 54 |                             | Mining Plant Depreciation  | 0                  | 0              | 0              | 0              | 0              |
| 55 |                             | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |                             | Capital Lease - Common Plant   | 0                  | 0              | 0              | 0              | 0              |
| 57 |                             | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |                             | In-Service: Depreciation of Common Plant (a)                                       | 38,898,276         | 55,697,797     | 66,897,478     | 78,097,159     | 89,296,840     |
| 59 |                             | Amortization of Other Utility Plant (a)  | 62,834,638         | 63,112,200     | 63,297,241     | 63,482,282     | 63,667,323     |
| 60 |                             | Amortization of Acquisition Adjustments  | 63,631,682         | 77,646,076     | 86,989,005     | 96,331,934     | 105,674,862    |
| 61 |                             |  |                    |                |                |                |                |
| 62 |                             | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |                             |  |                    |                |                |                |                |
| 64 |                             | <b>Total Depreciation and Amortization Reserve</b>                                 | 1,477,790,257      | 1,648,470,813  | 1,762,237,112  | 1,875,953,256  | 1,989,631,287  |
| 65 |                             |  |                    |                |                |                |                |
| 66 |                             | <b>Total Net Plant</b>   | 1,421,495,259      | 1,252,721,007  | 1,139,009,357  | 1,025,353,806  | 911,740,301    |
| 67 |                             | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | PSE | Account Description  | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 68  |     |  |             |             |             |             |             |
| 69  |     | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |             |             |             |             |
| 70  |     |  |             |             |             |             |             |
| 71  |     | <b>Cash Working Capital (f)</b>                            | 35,230,073  | 36,216,851  | 36,901,071  | 37,602,829  | 38,322,822  |
| 72  |     |  |             |             |             |             |             |
| 73  |     | <b>Utility Plant</b>                                       | 0           | 0           | 0           | 0           | 0           |
| 74  |     | (Utility Plant) Held For Future Use                        | 0           | 0           | 0           | 0           | 0           |
| 75  |     | (Utility Plant) Completed Construction - Not Classified    | 39,966,639  | 39,333,443  | 38,936,414  | 38,505,881  | 38,058,204  |
| 76  |     | Nuclear Fuel   | 0           | 0           | 0           | 0           | 0           |
| 77  |     | Construction Work in Progress (CWIP)                       | 0           | 0           | 0           | 0           | 0           |
| 78  |     | Common Plant   | 130,840,659 | 130,840,659 | 130,840,659 | 130,840,659 | 130,840,659 |
| 79  |     | Acquisition Adjustments (Electric)                         | 77,568,769  | 77,568,769  | 77,568,769  | 77,568,769  | 77,568,769  |
| 80  |     | <b>Total</b>   | 248,376,068 | 247,742,872 | 247,345,842 | 246,915,309 | 246,467,632 |
| 81  |     |  |             |             |             |             |             |
| 82  |     |  |             |             |             |             |             |
| 83  |     | Investment in Associated Companies                         | 0           | 0           | 0           | 0           | 0           |
| 84  |     | Other Investment   | 0           | 0           | 0           | 0           | 0           |
| 85  |     | Long-Term Portion of Derivative Assets                     | 0           | 0           | 0           | 0           | 0           |
| 86  |     | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0           | 0           | 0           | 0           |
| 87  |     | <b>Total</b>   | 0           | 0           | 0           | 0           | 0           |
| 88  |     |  |             |             |             |             |             |
| 89  |     |  |             |             |             |             |             |
| 90  |     | Fuel Stock   | 9,280,144   | 9,253,615   | 9,297,466   | 9,425,298   | 9,571,387   |
| 91  |     | Fuel Stock Expenses Undistributed                          | 0           | 0           | 0           | 0           | 0           |
| 92  |     | Plant Materials and Operating Supplies                     | 24,994,982  | 25,354,396  | 25,623,653  | 25,850,931  | 26,067,139  |
| 93  |     | Merchandise (Major Only)                                   | 0           | 0           | 0           | 0           | 0           |
| 94  |     | Other Materials and Supplies (Major only)                  | 0           | 0           | 0           | 0           | 0           |
| 95  |     | EPA Allowance Inventory                                    | 0           | 0           | 0           | 0           | 0           |
| 96  |     | EPA Allowances Withheld                                    | 0           | 0           | 0           | 0           | 0           |
| 97  |     | Stores Expense Undistributed                               | 971,796     | 985,770     | 996,239     | 1,005,075   | 1,013,481   |
| 98  |     | Prepayments  | 6,071,876   | 5,975,679   | 5,915,361   | 5,849,953   | 5,781,940   |
| 99  |     | Derivative Instrument Assets                               | 0           | 0           | 0           | 0           | 0           |
| 100 |     | Less: Long-Term Portion of Derivative Assets               | 0           | 0           | 0           | 0           | 0           |
| 101 |     | Derivative Instrument Assets - Hedges                      | 0           | 0           | 0           | 0           | 0           |
| 102 |     | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0           | 0           | 0           | 0           |
| 103 |     | <b>Total</b>   | 41,318,798  | 41,569,460  | 41,832,718  | 42,131,257  | 42,433,947  |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | PSE | Account Description                                      | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 104 |     |  |             |             |             |             |             |
| 105 |     |  |             |             |             |             |             |
| 106 |     | Unamortized Debt Expenses                                | 7,624,466   | 7,504,210   | 7,428,955   | 7,347,342   | 7,262,470   |
| 107 |     | Extraordinary Property Losses                            | 0           | 0           | 0           | 0           | 0           |
| 108 |     | Unrecovered Plant and Regulatory Study Costs             | 41,854,135  | 41,854,135  | 41,854,135  | 41,854,135  | 41,854,135  |
| 109 |     | Other Regulatory Assets                                  | 217,021,787 | 217,021,787 | 217,021,787 | 217,021,787 | 217,021,787 |
| 110 |     | Prelim. Survey and Investigation Charges (Electric)      | 0           | 0           | 0           | 0           | 0           |
| 111 |     | Preliminary Natural Gas Survey and Investigation Charges | 0           | 0           | 0           | 0           | 0           |
| 112 |     | Other Preliminary Survey and Investigation Charges       | 0           | 0           | 0           | 0           | 0           |
| 113 |     | Clearing Accounts  | 0           | 0           | 0           | 0           | 0           |
| 114 |     | Temporary Facilities                                     | (73,040)    | (71,888)    | (71,167)    | (70,385)    | (69,572)    |
| 115 |     | Miscellaneous Deferred Debits                            | 0           | 0           | 0           | 0           | 0           |
| 116 |     | Deferred Losses from Disposition of Utility Plant        | 0           | 0           | 0           | 0           | 0           |
| 117 |     | Research, Development, and Demonstration Expenditures    | 0           | 0           | 0           | 0           | 0           |
| 118 |     | Unamortized Loss on Reacquired Debt                      | 6,662,191   | 6,557,112   | 6,491,355   | 6,420,042   | 6,345,882   |
| 119 |     | Accumulated Deferred Income Taxes                        | 0           | 0           | 0           | 0           | 0           |
| 120 |     | <b>Total</b>   | 273,089,539 | 272,865,356 | 272,725,065 | 272,572,920 | 272,414,701 |
| 121 |     |  |             |             |             |             |             |
| 122 |     | <b>Total Assets and Other Debits</b>                     | 598,014,477 | 598,394,538 | 598,804,696 | 599,222,315 | 599,639,102 |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | PSE | Account Description   | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 123 |     |   |               |               |               |               |               |
| 124 |     | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |               |               |               |               |               |
| 125 |     | <b>CURRENT AND ACCRUED LIABILITIES</b>  |               |               |               |               |               |
| 126 |     | Derivative Instrument Liabilities   | 0             | 0             | 0             | 0             | 0             |
| 127 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0             | 0             | 0             | 0             | 0             |
| 128 |     | Derivative Instrument Liabilities - Hedges                                    | 0             | 0             | 0             | 0             | 0             |
| 129 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0             | 0             | 0             | 0             | 0             |
| 130 |     | <b>Total</b>  | 0             | 0             | 0             | 0             | 0             |
| 131 |     | <b>DEFERRED CREDITS</b>   |               |               |               |               |               |
| 132 |     | Long-Term Portion of Derivative Instrument Liabilities                        | 0             | 0             | 0             | 0             | 0             |
| 133 |     | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0             | 0             | 0             | 0             | 0             |
| 134 |     | Customer Advances for Construction  | 0             | 0             | 0             | 0             | 0             |
| 135 |     | Other Deferred Credits  | 3,547,878     | 3,547,878     | 3,547,878     | 3,547,878     | 3,547,878     |
| 136 |     | Other Regulatory Liabilities  | 1,898,741     | 1,898,741     | 1,898,741     | 1,898,741     | 1,898,741     |
| 137 |     | Accumulated Deferred Investment Tax Credits                                   | 0             | 0             | 0             | 0             | 0             |
| 138 |     | Deferred Gains from Disposition of Utility Plant                              | 0             | 0             | 0             | 0             | 0             |
| 139 |     | Unamortized Gain on Reacquired Debt   | 112,930       | 111,149       | 110,034       | 108,825       | 107,568       |
| 140 |     | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0             | 0             | 0             | 0             | 0             |
| 141 |     | Accumulated Deferred Income Taxes-Property                                    | 0             | 0             | 0             | 0             | 0             |
| 142 |     | Accumulated Deferred Income Taxes-Other                                       | 0             | 0             | 0             | 0             | 0             |
| 143 |     | <b>Total</b>  | 5,559,549     | 5,557,768     | 5,556,653     | 5,555,444     | 5,554,187     |
| 144 |     |   |               |               |               |               |               |
| 145 |     | <b>Total Liabilities and Other Credits</b>                                    | 5,559,549     | 5,557,768     | 5,556,653     | 5,555,444     | 5,554,187     |
| 146 |     |   |               |               |               |               |               |
| 147 |     |   |               |               |               |               |               |
| 148 |     | <b>Total Rate Base</b>  | 2,013,950,188 | 1,845,557,777 | 1,732,257,400 | 1,619,020,677 | 1,505,825,216 |
| 149 |     | <i>(Total Net Plant + Debits - Credits)</i>                                   |               |               |               |               |               |
| 150 |     |   |               |               |               |               |               |
| 151 |     |   |               |               |               |               |               |
| 152 |     | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 10.77%        | 10.77%        | 10.77%        | 10.77%        | 10.77%        |
| 153 |     |   |               |               |               |               |               |
| 154 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 216,874,550   | 198,741,019   | 186,540,137   | 174,346,110   | 162,156,526   |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C             | D             | E             | F             | G             |
|-----|-----|--|---------------|---------------|---------------|---------------|---------------|
| 1   | PSE | Account Description                              | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 155 |     |  |               |               |               |               |               |
| 156 |     |  |               |               |               |               |               |
| 157 |     | <u>Schedule 3: Expenses</u>                      |               |               |               |               |               |
| 158 |     | Account Description                              |               |               |               |               |               |
| 159 |     |  |               |               |               |               |               |
| 160 |     |  |               |               |               |               |               |
| 161 |     | <b>Power Production Expenses:</b>                |               |               |               |               |               |
| 162 |     | <b>Steam Power Generation</b>                    |               |               |               |               |               |
| 163 |     | Steam Power - Fuel                               | 62,752,429    | 62,573,044    | 62,869,562    | 63,733,966    | 64,721,819    |
| 164 |     | Steam Power - Operations (Excluding 501 - Fuel)  | 15,573,518    | 16,022,405    | 16,354,868    | 16,681,966    | 17,019,774    |
| 165 |     | Steam Power - Maintenance                        | 20,397,058    | 20,941,977    | 21,397,463    | 21,836,103    | 22,256,446    |
| 166 |     | <b>Nuclear Power Generation</b>                  |               |               |               |               |               |
| 167 |     | Nuclear - Fuel                                   | 0             | 0             | 0             | 0             | 0             |
| 168 |     | Nuclear - Operation ( Excluding 518 - Fuel)      | 0             | 0             | 0             | 0             | 0             |
| 169 |     | Nuclear - Maintenance                            | 0             | 0             | 0             | 0             | 0             |
| 170 |     | <b>Hydraulic Power Generation</b>                |               |               |               |               |               |
| 171 |     | Hydraulic - Operation                            | 5,712,495     | 5,846,429     | 5,919,507     | 5,987,579     | 6,069,904     |
| 172 |     | Hydraulic - Maintenance                          | 6,033,685     | 6,177,544     | 6,299,550     | 6,417,666     | 6,534,788     |
| 173 |     | <b>Other Power Generation</b>                    |               |               |               |               |               |
| 174 |     | Other Power - Fuel                               | 138,361,372   | 145,134,116   | 150,782,842   | 154,051,939   | 157,773,971   |
| 175 |     | Other Power - Operations (Excluding 547 - Fuel)  | 22,010,878    | 22,910,550    | 23,294,299    | 23,678,646    | 24,116,693    |
| 176 |     | Other Power - Maintenance                        | 31,124,710    | 31,814,524    | 32,363,321    | 32,945,861    | 33,547,120    |
| 177 |     | <b>Other Power Supply Expenses</b>               |               |               |               |               |               |
| 178 |     | Purchased Power (Excluding REP Reversal)         | 984,963,518   | 1,077,413,497 | 1,130,522,015 | 1,192,096,247 | 1,257,771,331 |
| 179 |     | System Control and Load Dispatching              | 873,300       | 873,300       | 873,300       | 873,300       | 873,300       |
| 180 |     | Other Expenses                                   | 10,722,472    | 10,722,472    | 10,722,472    | 10,722,472    | 10,722,472    |
| 181 |     | BPA REP Reversal                                 | 0             | 0             | 0             | 0             | 0             |
| 182 |     | Public Purpose Charges (h)                       | 0             | 0             | 0             | 0             | 0             |
| 183 |     | Production Expense                               | 1,298,525,435 | 1,400,429,857 | 1,461,399,201 | 1,529,025,746 | 1,601,407,618 |
| 184 |     |  |               |               |               |               |               |
| 185 |     | <b>Transmission Expenses: (i)</b>                |               |               |               |               |               |
| 186 |     | Transmission of Electricity to Others (Wheeling) | 94,032,430    | 96,920,375    | 98,948,423    | 100,942,233   | 102,983,789   |
| 187 |     | Total Operations less Wheeling                   | 3,311,976     | 3,428,639     | 3,491,211     | 3,558,416     | 3,629,585     |
| 188 |     | Total Maintenance                                | 4,343,425     | 4,419,856     | 4,500,518     | 4,583,776     | 4,662,846     |
| 189 |     | <b>Total Transmission Expense</b>                | 101,687,831   | 104,768,869   | 106,940,152   | 109,084,426   | 111,276,219   |
| 190 |     |  |               |               |               |               |               |
| 191 |     | <b>Distribution Expense:</b>                     |               |               |               |               |               |
| 192 |     | Total Operations                                 | 0             | 0             | 0             | 0             | 0             |
| 193 |     | Total Maintenance                                | 0             | 0             | 0             | 0             | 0             |
| 194 |     | <b>Total Distribution Expense</b>                | 0             | 0             | 0             | 0             | 0             |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B   | C             | D             | E             | F             | G             |
|-----|-----|---|---------------|---------------|---------------|---------------|---------------|
| 1   | PSE | Account Description                                 | Rate Period   | FY 2012       | FY 2013       | FY 2014       | FY 2015       |
| 195 |     |   |               |               |               |               |               |
| 196 |     | <b>Customer and Sales Expenses:</b>                 |               |               |               |               |               |
| 197 |     | Total Customer Accounts                             | 0             | 0             | 0             | 0             | 0             |
| 198 |     | Customer Service and Information                    | 0             | 0             | 0             | 0             | 0             |
| 199 |     | Customer assistance expenses (Major only)           | 40,224,200    | 41,117,113    | 41,774,927    | 42,568,650    | 43,377,455    |
| 200 |     | Customer Service and Information                    | 0             | 0             | 0             | 0             | 0             |
| 201 |     | Total Sales Expense                                 | 0             | 0             | 0             | 0             | 0             |
| 202 |     | <b>Total Customer and Sales Expenses</b>            | 40,224,200    | 41,117,113    | 41,774,927    | 42,568,650    | 43,377,455    |
| 203 |     |   |               |               |               |               |               |
| 204 |     | <b>Administration and General Expense:</b>          |               |               |               |               |               |
| 205 |     | <b>Operation</b>                                    |               |               |               |               |               |
| 206 |     | Administration and General Salaries                 | 7,315,428     | 7,605,599     | 7,805,226     | 8,013,153     | 8,223,079     |
| 207 |     | Office Supplies & Expenses                          | 4,944,409     | 5,140,532     | 5,275,457     | 5,415,993     | 5,557,879     |
| 208 |     | (Less) Administration Expenses Transferred - Credit | 51,446        | 53,487        | 54,891        | 56,353        | 57,830        |
| 209 |     | Outside Services Employed                           | 3,367,562     | 3,501,139     | 3,593,034     | 3,688,751     | 3,785,388     |
| 210 |     | Property Insurance                                  | 1,668,497     | 1,717,878     | 1,752,095     | 1,786,565     | 1,820,230     |
| 211 |     | Injuries and Damages                                | 1,907,708     | 1,983,378     | 2,035,437     | 2,089,660     | 2,144,404     |
| 212 |     | Employee Pensions & Benefits                        | 6,682,351     | 6,947,411     | 7,129,762     | 7,319,695     | 7,511,454     |
| 213 |     | Franchise Requirements                              | 0             | 0             | 0             | 0             | 0             |
| 214 |     | Regulatory Commission Expenses                      | 0             | 0             | 0             | 0             | 0             |
| 215 |     | (Less) Duplicate Charges - Credit                   | 0             | 0             | 0             | 0             | 0             |
| 216 |     | General Advertising Expenses                        | 0             | 0             | 0             | 0             | 0             |
| 217 |     | Miscellaneous General Expenses                      | 0             | 0             | 0             | 0             | 0             |
| 218 |     | Rents   | 0             | 0             | 0             | 0             | 0             |
| 219 |     | Transportation Expenses (Non Major)                 | 0             | 0             | 0             | 0             | 0             |
| 220 |     | <b>Maintenance</b>                                  | 0             | 0             | 0             | 0             | 0             |
| 221 |     | Maintenance of General Plant                        | 1,645,927     | 1,697,171     | 1,732,589     | 1,768,500     | 1,803,804     |
| 222 |     | <b>Total Administration and General Expenses</b>    | 27,480,435    | 28,539,621    | 29,268,709    | 30,025,965    | 30,788,409    |
| 223 |     |   |               |               |               |               |               |
| 224 |     | <b>Total Operations and Maintenance</b>             | 1,467,917,901 | 1,574,855,461 | 1,639,382,988 | 1,710,704,787 | 1,786,849,700 |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C                    | D                    | E                    | F                    | G                    |
|-----|-----|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1   | PSE | <b>Account Description</b>                                     | <b>Rate Period</b>   | <b>FY 2012</b>       | <b>FY 2013</b>       | <b>FY 2014</b>       | <b>FY 2015</b>       |
| 225 |     |  |                      |                      |                      |                      |                      |
| 226 |     |  |                      |                      |                      |                      |                      |
| 227 |     | <b>Depreciation and Amortization:</b>                          |                      |                      |                      |                      |                      |
| 228 |     | Amortization of Intangible Plant - Account 301                 | 0                    | 0                    | 0                    | 0                    | 0                    |
| 229 |     | Amortization of Intangible Plant - Account 302                 | 58,078               | 58,078               | 58,078               | 58,078               | 58,078               |
| 230 |     | Amortization of Intangible Plant - Account 303                 | 945,357              | 945,357              | 945,357              | 945,357              | 945,357              |
| 231 |     | Steam Production Plant   | 24,125,373           | 24,125,373           | 24,125,373           | 24,125,373           | 24,125,373           |
| 232 |     | Nuclear Production Plant                                       | 0                    | 0                    | 0                    | 0                    | 0                    |
| 233 |     | Hydraulic Production Plant - Conventional                      | 11,616,028           | 11,616,028           | 11,616,028           | 11,616,028           | 11,616,028           |
| 234 |     | Hydraulic Production Plant - Pumped Storage                    | 0                    | 0                    | 0                    | 0                    | 0                    |
| 235 |     | Other Production Plant   | 36,669,171           | 46,077,726           | 46,077,726           | 46,077,726           | 46,077,726           |
| 236 |     | Transmission Plant (i)   | 7,890,189            | 7,890,189            | 7,890,189            | 7,890,189            | 7,890,189            |
| 237 |     | Distribution Plant   | 0                    | 0                    | 0                    | 0                    | 0                    |
| 238 |     | General Plant  | 2,467,907            | 2,452,446            | 2,455,983            | 2,459,867            | 2,463,962            |
| 239 |     | Common Plant - Electric  | 1,932,193            | 1,932,193            | 1,932,193            | 1,932,193            | 1,932,193            |
| 240 |     | Common Plant - Electric  | 10,059,558           | 10,059,558           | 10,059,558           | 10,059,558           | 10,059,558           |
| 241 |     | Depreciation Expense for Asset Retirement Costs                | (50,562)             | (50,562)             | (50,562)             | (50,562)             | (50,562)             |
| 242 |     | Amortization of Limited Term Electric Plant                    | 424,390              | 424,390              | 424,390              | 424,390              | 424,390              |
| 243 |     | Amortization of Plant Acquisition Adjustments (Electric)       | 5,861,545            | 5,861,545            | 5,861,545            | 5,861,545            | 5,861,545            |
| 244 |     | <b>Total Depreciation and Amortization</b>                     | <b>101,999,227</b>   | <b>111,392,322</b>   | <b>111,395,858</b>   | <b>111,399,742</b>   | <b>111,403,837</b>   |
| 245 |     |  |                      |                      |                      |                      |                      |
| 246 |     |  |                      |                      |                      |                      |                      |
| 247 |     | <b>Total Operating Expenses</b>                                | <b>1,569,917,128</b> | <b>1,686,247,782</b> | <b>1,750,778,846</b> | <b>1,822,104,529</b> | <b>1,898,253,538</b> |
| 248 |     | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |                      |                      |                      |                      |                      |



**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C                  | D              | E              | F              | G              |
|-----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | PSE | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 249 |     |  |                    |                |                |                |                |
| 250 |     | <u>Schedule 3A Items: Taxes (Including Income Taxes)</u> |                    |                |                |                |                |
| 251 |     | <b>Account Description</b>                               |                    |                |                |                |                |
| 252 |     |  |                    |                |                |                |                |
| 253 |     |  |                    |                |                |                |                |
| 254 |     | <b>FEDERAL</b>   |                    |                |                |                |                |
| 255 |     | Income Tax (Included on Schedule 2)                      | 0                  | 0              | 0              | 0              | 0              |
| 256 |     | Employment Tax   | 2,481,659          | 2,574,294      | 2,637,374      | 2,705,663      | 2,777,218      |
| 257 |     | Other Federal Taxes                                      | 0                  | 0              | 0              | 0              | 0              |
| 258 |     | <b>TOTAL FEDERAL</b>                                     | 2,481,659          | 2,574,294      | 2,637,374      | 2,705,663      | 2,777,218      |
| 259 |     |  |                    |                |                |                |                |
| 260 |     | <b>STATE AND OTHER</b>                                   |                    |                |                |                |                |
| 261 |     | Property   | 17,642,806         | 17,364,536     | 17,190,398     | 17,001,547     | 16,805,156     |
| 262 |     | Unemployment   | 0                  | 0              | 0              | 0              | 0              |
| 263 |     | State Income, B&O, et.                                   | 0                  | 0              | 0              | 0              | 0              |
| 264 |     | Franchise Fees   | 0                  | 0              | 0              | 0              | 0              |
| 265 |     | Regulatory Commission                                    | 0                  | 0              | 0              | 0              | 0              |
| 266 |     | City/Municipal   | 0                  | 0              | 0              | 0              | 0              |
| 267 |     | Other  | 0                  | 0              | 0              | 0              | 0              |
| 268 |     | <b>TOTAL STATE AND OTHER TAXES</b>                       | 17,642,806         | 17,364,536     | 17,190,398     | 17,001,547     | 16,805,156     |
| 269 |     |  |                    |                |                |                |                |
| 270 |     | <b>TOTAL TAXES</b>                                       | 20,124,465         | 19,938,830     | 19,827,772     | 19,707,210     | 19,582,374     |
| 271 |     |  |                    |                |                |                |                |
| 272 |     |  |                    |                |                |                |                |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C                  | D              | E              | F              | G              |
|-----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | PSE | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 273 |     | <u>Schedule 3B: Other Included Items</u>   |                    |                |                |                |                |
| 274 |     | <b>Account Description</b>   |                    |                |                |                |                |
| 275 |     |  |                    |                |                |                |                |
| 276 |     |  |                    |                |                |                |                |
| 277 |     | <b>Other Included Items:</b>   |                    |                |                |                |                |
| 278 |     | Regulatory Credits   | 10,843,497         | 10,843,497     | 10,843,497     | 10,843,497     | 10,843,497     |
| 279 |     | (Less) Regulatory Debits   | 0                  | 0              | 0              | 0              | 0              |
| 280 |     | Gain from Disposition of Utility Plant   | 1,125,593          | 1,125,593      | 1,125,593      | 1,125,593      | 1,125,593      |
| 281 |     | (Less) Loss from Disposition of Utility Plant                                      | 272,877            | 272,877        | 272,877        | 272,877        | 272,877        |
| 282 |     | Gain from Disposition of Allowances  | 422,124            | 422,124        | 422,124        | 422,124        | 422,124        |
| 283 |     | (Less) Loss from Disposition of Allowances   | 0                  | 0              | 0              | 0              | 0              |
| 284 |     | Miscellaneous Nonoperating Income  | 7,377,701          | 7,377,701      | 7,377,701      | 7,377,701      | 7,377,701      |
| 285 |     | <b>Total Other Included Items</b>  | 19,496,037         | 19,496,037     | 19,496,037     | 19,496,037     | 19,496,037     |
| 286 |     |  |                    |                |                |                |                |
| 287 |     | <b>Sale for Resale:</b>  |                    |                |                |                |                |
| 288 |     | Sales for Resale   | 214,212,348        | 239,260,021    | 246,383,859    | 255,303,404    | 264,436,542    |
| 289 |     | <b>Total Sales for Resale</b>  | 214,212,348        | 239,260,021    | 246,383,859    | 255,303,404    | 264,436,542    |
| 290 |     |  |                    |                |                |                |                |
| 291 |     | <b>Other Revenues:</b>   | 0                  | 0              | 0              | 0              | 0              |
| 292 |     | Forfeited Discounts  | 0                  | 0              | 0              | 0              | 0              |
| 293 |     | Miscellaneous Service Revenues   | 0                  | 0              | 0              | 0              | 0              |
| 294 |     | Sales of Water and Water Power   | 0                  | 0              | 0              | 0              | 0              |
| 295 |     | Rent from Electric Property  | 1,087,152          | 1,058,295      | 1,040,519      | 1,021,513      | 1,002,042      |
| 296 |     | Interdepartmental Rents  | 0                  | 0              | 0              | 0              | 0              |
| 297 |     | Other Electric Revenues  | 2,154,048          | 2,154,048      | 2,154,048      | 2,154,048      | 2,154,048      |
| 298 |     | Revenues from Transmission of Electricity of Others (i)                            | 9,079,888          | 9,079,888      | 9,079,888      | 9,079,888      | 9,079,888      |
| 299 |     |  |                    |                |                |                |                |
| 300 |     | <b>Total Other Revenues</b>  | 12,321,087         | 12,292,230     | 12,274,454     | 12,255,448     | 12,235,977     |
| 301 |     |  |                    |                |                |                |                |
| 302 |     | <b>Total Other Included Items</b>  | 246,029,472        | 271,048,288    | 278,154,350    | 287,054,890    | 296,168,556    |
| 303 |     | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |                    |                |                |                |                |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix F**

|     | A   | B  | C                    | D                    | E                    | F                    | G                    |
|-----|-----|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1   | PSE | <b>Account Description</b>   | <b>Rate Period</b>   | <b>FY 2012</b>       | <b>FY 2013</b>       | <b>FY 2014</b>       | <b>FY 2015</b>       |
| 304 |     |  |                      |                      |                      |                      |                      |
| 305 |     | <u><i>Schedule 4: Average System Cost</i></u>  |                      |                      |                      |                      |                      |
| 306 |     |  |                      |                      |                      |                      |                      |
| 307 |     |  | <b>10/1/2010</b>     | <b>4/1/2012</b>      | <b>4/1/2013</b>      | <b>4/1/2014</b>      | <b>4/1/2015</b>      |
| 308 |     |  |                      |                      |                      |                      |                      |
| 309 |     | <b>Total Operating Expenses</b>  | 1,569,917,128        | 1,686,247,782        | 1,750,778,846        | 1,822,104,529        | 1,898,253,538        |
| 310 |     | <i>(From Schedule 3)</i>   |                      |                      |                      |                      |                      |
| 311 |     |  |                      |                      |                      |                      |                      |
| 312 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>   | 216,874,550          | 198,741,019          | 186,540,137          | 174,346,110          | 162,156,526          |
| 313 |     | <i>(From Schedule 2)</i>   |                      |                      |                      |                      |                      |
| 314 |     |  |                      |                      |                      |                      |                      |
| 315 |     | <b>State and Other Taxes</b>   | 20,124,465           | 19,938,830           | 19,827,772           | 19,707,210           | 19,582,374           |
| 316 |     | <i>(From Schedule 3a)</i>  |                      |                      |                      |                      |                      |
| 317 |     |  |                      |                      |                      |                      |                      |
| 318 |     | <b>Total Other Included Items</b>  | 246,029,472          | 271,048,288          | 278,154,350          | 287,054,890          | 296,168,556          |
| 319 |     | <i>(From Schedule 3b)</i>  |                      |                      |                      |                      |                      |
| 320 |     |  |                      |                      |                      |                      |                      |
| 321 |     | <b>Total Cost</b>  | <b>1,560,886,670</b> | <b>1,633,879,342</b> | <b>1,678,992,404</b> | <b>1,729,102,958</b> | <b>1,783,823,881</b> |
| 322 |     | <i>(Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items)</i> |                      |                      |                      |                      |                      |
| 323 |     |  |                      |                      |                      |                      |                      |
| 324 |     |  |                      |                      |                      |                      |                      |
| 325 |     |  |                      |                      |                      |                      |                      |
| 326 |     | <b>Contract System Cost</b>  |                      |                      |                      |                      |                      |
| 327 |     | Production and Transmission  | 1,560,886,670        | 1,633,879,342        | 1,678,992,404        | 1,729,102,958        | 1,783,823,881        |
| 328 |     | (Less) New Large Single Load Costs (d)   | 0                    | 0                    | 0                    | 0                    | 0                    |
| 329 |     | <b>Total Contract System Cost</b>  | <b>1,560,886,670</b> | <b>1,633,879,342</b> | <b>1,678,992,404</b> | <b>1,729,102,958</b> | <b>1,783,823,881</b> |
| 330 |     |  |                      |                      |                      |                      |                      |
| 331 |     | <b>Contract System Load (MWh)</b>  |                      |                      |                      |                      |                      |
| 332 |     | Total Retail Load  | 23,006,422           | 23,630,599           | 24,025,137           | 24,453,594           | 24,900,675           |
| 333 |     | (Less) New Large Single Load   | 0                    | 0                    | 0                    | 0                    | 0                    |
| 334 |     | Total Retail Load (Net of NLSL) (d)  | 23,006,422           | 23,630,599           | 24,025,137           | 24,453,594           | 24,900,675           |
| 335 |     | Distribution Loss (f)  | 1,161,824            | 1,193,345            | 1,213,269            | 1,234,907            | 1,257,484            |
| 336 |     | <b>Total Contract System Load</b>  | <b>24,168,246</b>    | <b>24,823,945</b>    | <b>25,238,407</b>    | <b>25,688,501</b>    | <b>26,158,159</b>    |
| 337 |     |  |                      |                      |                      |                      |                      |
| 338 |     | <b>Average System Cost \$/MWh</b>  | <b>64.58</b>         | <b>65.82</b>         | <b>66.53</b>         | <b>67.31</b>         | <b>68.19</b>         |
| 339 |     |  |                      |                      |                      |                      |                      |

**TABLE H - SNOHOMISH  
Appendix F**

|    | A   | B  | C                  | D              | E              | F              | G              |
|----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | SNO | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 2  |     | <b>Intangible Plant:</b>   |                    |                |                |                |                |
| 3  |     | Intangible Plant - Organization  | 0                  | 0              | 0              | 0              | 0              |
| 4  |     | Intangible Plant - Franchises and Consents   | 1,089              | 1,088          | 1,081          | 1,075          | 1,068          |
| 5  |     | Intangible Plant - Miscellaneous   | 19,692,096         | 19,692,096     | 19,692,096     | 19,692,096     | 19,692,096     |
| 6  |     | <b>Total Intangible Plant</b>  | 19,693,185         | 19,693,185     | 19,693,178     | 19,693,171     | 19,693,164     |
| 7  |     |  |                    |                |                |                |                |
| 8  |     | <b>Production Plant:</b>   |                    |                |                |                |                |
| 9  |     | Steam Production   | 133,715,155        | 133,715,155    | 133,715,155    | 133,715,155    | 133,715,155    |
| 10 |     | Nuclear Production   | 0                  | 0              | 0              | 0              | 0              |
| 11 |     | Hydraulic Production   | 237,176,577        | 237,176,577    | 237,176,577    | 237,176,577    | 237,176,577    |
| 12 |     | Other Production   | 0                  | 0              | 0              | 0              | 0              |
| 13 |     | <b>Total Production Plant</b>  | 370,891,732        | 370,891,732    | 370,891,732    | 370,891,732    | 370,891,732    |
| 14 |     |  |                    |                |                |                |                |
| 15 |     | <b>Transmission Plant: (i)</b>   |                    |                |                |                |                |
| 16 |     | Transmission Plant   | 93,329,902         | 93,329,902     | 93,329,902     | 93,329,902     | 93,329,902     |
| 17 |     | <b>Total Transmission Plant</b>  | 93,329,902         | 93,329,902     | 93,329,902     | 93,329,902     | 93,329,902     |
| 18 |     |  |                    |                |                |                |                |
| 19 |     | <b>Distribution Plant:</b>   |                    | 0              | 0              | 0              | 0              |
| 20 |     | Distribution Plant   | 0                  | 819,221,455    | 827,549,070    | 835,529,000    | 843,945,893    |
| 21 |     | <b>Total Distribution Plant</b>  | 0                  | 819,221,455    | 827,549,070    | 835,529,000    | 843,945,893    |
| 22 |     |  |                    |                |                |                |                |
| 23 |     | <b>General Plant:</b>  |                    |                |                |                |                |
| 24 |     | Land and Land Rights   | 1,089,549          | 1,115,269      | 1,115,269      | 1,115,269      | 1,115,269      |
| 25 |     | Structures and Improvements  | 22,836,104         | 23,375,172     | 23,375,172     | 23,375,172     | 23,375,172     |
| 26 |     | Furniture and Equipment  | 1,569,300          | 1,612,560      | 1,615,347      | 1,618,019      | 1,620,836      |
| 27 |     | Transportation Equipment   | 2,403,635          | 2,445,698      | 2,439,307      | 2,433,290      | 2,427,055      |
| 28 |     | Stores Equipment   | 330,510            | 338,312        | 338,312        | 338,312        | 338,312        |
| 29 |     | Tools and Garage Equipment   | 689,928            | 706,215        | 706,215        | 706,215        | 706,215        |
| 30 |     | Laboratory Equipment   | 849,157            | 869,202        | 869,202        | 869,202        | 869,202        |
| 31 |     | Power Operated Equipment   | 97,784             | 99,495         | 99,235         | 98,990         | 98,736         |
| 32 |     | Communication Equipment  | 12,294,915         | 12,585,149     | 12,585,149     | 12,585,149     | 12,585,149     |
| 33 |     | Miscellaneous Equipment  | 24,467             | 25,044         | 25,044         | 25,044         | 25,044         |
| 34 |     | Other Tangible Property  | 0                  | 0              | 0              | 0              | 0              |
| 35 |     | Asset Retirement Costs for General Plant   | 0                  | 0              | 0              | 0              | 0              |
| 36 |     |  |                    |                |                |                |                |
| 37 |     | <b>Total General Plant</b>   | 42,185,348         | 43,172,115     | 43,168,252     | 43,164,661     | 43,160,990     |
| 38 |     |  |                    |                |                |                |                |
| 39 |     | <b>Total Electric Plant In-Service</b>   | 526,100,167        | 527,086,934    | 527,083,063    | 527,079,466    | 527,075,788    |
| 40 |     | <i>(Total Intangible + Total Production + Total Transmission + Total Distribution + Total General)</i> |                    |                |                |                |                |
| 41 |     |  |                    |                |                |                |                |

**TABLE H - SNOHOMISH  
Appendix F**

|    | A   | B  | C                  | D              | E              | F              | G              |
|----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1  | SNO | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 42 |     | <b>LESS:</b>   |                    |                |                |                |                |
| 43 |     | <b>Depreciation Reserve</b>  |                    |                |                |                |                |
| 44 |     | Steam Production Plant   | 160,671,695        | 173,561,961    | 182,155,472    | 190,748,983    | 199,342,495    |
| 45 |     | Nuclear Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 46 |     | Hydraulic Production Plant   | 0                  | 1,325,914      | 2,209,856      | 3,093,798      | 3,977,741      |
| 47 |     | Other Production Plant   | 0                  | 0              | 0              | 0              | 0              |
| 48 |     | Transmission Plant (i)   | 32,992,764         | 36,615,866     | 39,031,267     | 41,446,668     | 43,862,069     |
| 49 |     | Distribution Plant   | 0                  | 0              | 0              | 0              | 0              |
| 50 |     | General Plant  | 28,352,694         | 30,655,189     | 32,267,224     | 33,879,776     | 35,472,066     |
| 51 |     | Amortization of Intangible Plant - Account 301                                     | 0                  | 0              | 0              | 0              | 0              |
| 52 |     | Amortization of Intangible Plant - Account 302                                     | 0                  | 0              | 0              | 0              | 0              |
| 53 |     | Amortization of Intangible Plant - Account 303                                     | 16,196,362         | 18,386,924     | 19,847,298     | 21,307,672     | 22,768,046     |
| 54 |     | Mining Plant Depreciation  | 0                  | 0              | 0              | 0              | 0              |
| 55 |     | Amortization of Plant Held for Future Use  | 0                  | 0              | 0              | 0              | 0              |
| 56 |     | Capital Lease - Common Plant   | 0                  | 0              | 0              | 0              | 0              |
| 57 |     | Leasehold Improvements   | 0                  | 0              | 0              | 0              | 0              |
| 58 |     | In-Service: Depreciation of Common Plant (a)                                       | 0                  | 0              | 0              | 0              | 0              |
| 59 |     | Amortization of Other Utility Plant (a)  | 0                  | 0              | 0              | 0              | 0              |
| 60 |     | Amortization of Acquisition Adjustments  | 0                  | 0              | 0              | 0              | 0              |
| 61 |     |  | 0                  |                |                |                |                |
| 62 |     | <b>Depreciation and Amortization Reserve (Other)</b>                               | 0                  | 0              | 0              | 0              | 0              |
| 63 |     |  |                    |                |                |                |                |
| 64 |     | <b>Total Depreciation and Amortization Reserve</b>                                 | 238,213,516        | 260,545,853    | 275,511,117    | 290,476,898    | 305,422,416    |
| 65 |     |  |                    |                |                |                |                |
| 66 |     | <b>Total Net Plant</b>   | 287,886,652        | 266,541,081    | 251,571,946    | 236,602,568    | 221,653,372    |
| 67 |     | <b>(Total Electric Plant In-Service) - (Total Depreciation &amp; Amortization)</b> |                    |                |                |                |                |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B  | C           | D         | E         | F         | G         |
|-----|-----|--|-------------|-----------|-----------|-----------|-----------|
| 1   | SNO | Account Description  | Rate Period | FY 2012   | FY 2013   | FY 2014   | FY 2015   |
| 68  |     |  |             |           |           |           |           |
| 69  |     | <b>Assets and Other Debits (Comparative Balance Sheet)</b> |             |           |           |           |           |
| 70  |     |  |             |           |           |           |           |
| 71  |     | <b>Cash Working Capital (f)</b>                            | 6,779,862   | 6,963,621 | 7,094,501 | 7,225,111 | 7,358,611 |
| 72  |     |  |             |           |           |           |           |
| 73  |     | <b>Utility Plant</b>                                       | 0           | 0         | 0         | 0         | 0         |
| 74  |     | (Utility Plant) Held For Future Use                        | 0           | 0         | 0         | 0         | 0         |
| 75  |     | (Utility Plant) Completed Construction - Not Classified    | 0           | 0         | 0         | 0         | 0         |
| 76  |     | Nuclear Fuel   | 0           | 0         | 0         | 0         | 0         |
| 77  |     | Construction Work in Progress (CWIP)                       | 0           | 0         | 0         | 0         | 0         |
| 78  |     | Common Plant   | 0           | 0         | 0         | 0         | 0         |
| 79  |     | Acquisition Adjustments (Electric)                         | 0           | 0         | 0         | 0         | 0         |
| 80  |     | <b>Total</b>   | 0           | 0         | 0         | 0         | 0         |
| 81  |     |  |             |           |           |           |           |
| 82  |     |  |             |           |           |           |           |
| 83  |     | Investment in Associated Companies                         | 0           | 0         | 0         | 0         | 0         |
| 84  |     | Other Investment   | 0           | 0         | 0         | 0         | 0         |
| 85  |     | Long-Term Portion of Derivative Assets                     | 0           | 0         | 0         | 0         | 0         |
| 86  |     | Long-Term Portion of Derivative Assets - Hedges            | 0           | 0         | 0         | 0         | 0         |
| 87  |     | <b>Total</b>   | 0           | 0         | 0         | 0         | 0         |
| 88  |     |  |             |           |           |           |           |
| 89  |     |  |             |           |           |           |           |
| 90  |     | Fuel Stock   | 0           | 0         | 0         | 0         | 0         |
| 91  |     | Fuel Stock Expenses Undistributed                          | 0           | 0         | 0         | 0         | 0         |
| 92  |     | Plant Materials and Operating Supplies                     | 4,425,412   | 4,495,337 | 4,559,815 | 4,623,136 | 4,686,291 |
| 93  |     | Merchandise (Major Only)                                   | 0           | 0         | 0         | 0         | 0         |
| 94  |     | Other Materials and Supplies (Major only)                  | 0           | 0         | 0         | 0         | 0         |
| 95  |     | EPA Allowance Inventory                                    | 0           | 0         | 0         | 0         | 0         |
| 96  |     | EPA Allowances Withheld                                    | 0           | 0         | 0         | 0         | 0         |
| 97  |     | Stores Expense Undistributed                               | (77,211)    | (78,431)  | (79,556)  | (80,661)  | (81,763)  |
| 98  |     | Prepayments  | 264,163     | 260,343   | 258,664   | 257,076   | 255,422   |
| 99  |     | Derivative Instrument Assets                               | 0           | 0         | 0         | 0         | 0         |
| 100 |     | Less: Long-Term Portion of Derivative Assets               | 0           | 0         | 0         | 0         | 0         |
| 101 |     | Derivative Instrument Assets - Hedges                      | 0           | 0         | 0         | 0         | 0         |
| 102 |     | Less: Long-Term Portion of Derivative Assets - Hedges      | 0           | 0         | 0         | 0         | 0         |
| 103 |     | <b>Total</b>   | 4,612,365   | 4,677,248 | 4,738,923 | 4,799,551 | 4,859,951 |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B  | C                  | D                 | E                 | F                 | G                 |
|-----|-----|--|--------------------|-------------------|-------------------|-------------------|-------------------|
| 1   | SNO | <b>Account Description</b>                               | <b>Rate Period</b> | <b>FY 2012</b>    | <b>FY 2013</b>    | <b>FY 2014</b>    | <b>FY 2015</b>    |
| 104 |     |  |                    |                   |                   |                   |                   |
| 105 |     |  |                    |                   |                   |                   |                   |
| 106 |     | Unamortized Debt Expenses                                | 2,374,997          | 2,341,282         | 2,326,808         | 2,313,105         | 2,298,827         |
| 107 |     | Extraordinary Property Losses                            | 0                  | 0                 | 0                 | 0                 | 0                 |
| 108 |     | Unrecovered Plant and Regulatory Study Costs             | 0                  | 0                 | 0                 | 0                 | 0                 |
| 109 |     | Other Regulatory Assets                                  | 0                  | 0                 | 0                 | 0                 | 0                 |
| 110 |     | Prelim. Survey and Investigation Charges (Electric)      | 0                  | 0                 | 0                 | 0                 | 0                 |
| 111 |     | Preliminary Natural Gas Survey and Investigation Charges | 0                  | 0                 | 0                 | 0                 | 0                 |
| 112 |     | Other Preliminary Survey and Investigation Charges       | 0                  | 0                 | 0                 | 0                 | 0                 |
| 113 |     | Clearing Accounts  | 0                  | 0                 | 0                 | 0                 | 0                 |
| 114 |     | Temporary Facilities                                     | 0                  | 0                 | 0                 | 0                 | 0                 |
| 115 |     | Miscellaneous Deferred Debits                            | 16,522,224         | 16,522,224        | 16,522,224        | 16,522,224        | 16,522,224        |
| 116 |     | Deferred Losses from Disposition of Utility Plant        | 0                  | 0                 | 0                 | 0                 | 0                 |
| 117 |     | Research, Development, and Demonstration Expenditures    | 0                  | 0                 | 0                 | 0                 | 0                 |
| 118 |     | Unamortized Loss on Reacquired Debt                      | 11,059,028         | 10,902,036        | 10,834,639        | 10,770,834        | 10,704,346        |
| 119 |     | Accumulated Deferred Income Taxes                        | 0                  | 0                 | 0                 | 0                 | 0                 |
| 120 |     | <b>Total</b>   | <b>29,956,249</b>  | <b>29,765,542</b> | <b>29,683,670</b> | <b>29,606,163</b> | <b>29,525,396</b> |
| 121 |     |  |                    |                   |                   |                   |                   |
| 122 |     | <b>Total Assets and Other Debits</b>                     | <b>41,348,476</b>  | <b>41,406,411</b> | <b>41,517,094</b> | <b>41,630,825</b> | <b>41,743,958</b> |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B   | C           | D           | E           | F           | G           |
|-----|-----|---|-------------|-------------|-------------|-------------|-------------|
| 1   | SNO | Account Description   | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 123 |     | <b>Liabilities and Other Credits (Comparative Balance Sheet)</b>              |             |             |             |             |             |
| 124 |     | <b>CURRENT AND ACCRUED LIABILITIES</b>  |             |             |             |             |             |
| 125 |     | Derivative Instrument Liabilities   | 0           | 0           | 0           | 0           | 0           |
| 126 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities</i>          | 0           | 0           | 0           | 0           | 0           |
| 127 |     | Derivative Instrument Liabilities - Hedges                                    | 0           | 0           | 0           | 0           | 0           |
| 128 |     | <i>(less) Long-Term Portion of Derivative Instrument Liabilities - Hedges</i> | 0           | 0           | 0           | 0           | 0           |
| 129 |     | <b>Total</b>  | 0           | 0           | 0           | 0           | 0           |
| 130 |     | <b>DEFERRED CREDITS</b>   |             |             |             |             |             |
| 131 |     | Long-Term Portion of Derivative Instrument Liabilities                        | 0           | 0           | 0           | 0           | 0           |
| 132 |     | Long-Term Portion of Derivative Instrument Liabilities - Hedges               | 0           | 0           | 0           | 0           | 0           |
| 133 |     | Customer Advances for Construction  | 0           | 0           | 0           | 0           | 0           |
| 134 |     | Other Deferred Credits  | 6,752,685   | 6,752,685   | 6,752,685   | 6,752,685   | 6,752,685   |
| 135 |     | Other Regulatory Liabilities  | 0           | 0           | 0           | 0           | 0           |
| 136 |     | Accumulated Deferred Investment Tax Credits                                   | 0           | 0           | 0           | 0           | 0           |
| 137 |     | Deferred Gains from Disposition of Utility Plant                              | 0           | 0           | 0           | 0           | 0           |
| 138 |     | Unamortized Gain on Reacquired Debt   | 0           | 0           | 0           | 0           | 0           |
| 139 |     | Accumulated Deferred Income Taxes-Accel. Amort.                               | 0           | 0           | 0           | 0           | 0           |
| 140 |     | Accumulated Deferred Income Taxes-Property                                    | 0           | 0           | 0           | 0           | 0           |
| 141 |     | Accumulated Deferred Income Taxes-Other                                       | 0           | 0           | 0           | 0           | 0           |
| 142 |     | <b>Total</b>  | 6,752,685   | 6,752,685   | 6,752,685   | 6,752,685   | 6,752,685   |
| 143 |     | <b>Total Liabilities and Other Credits</b>                                    | 6,752,685   | 6,752,685   | 6,752,685   | 6,752,685   | 6,752,685   |
| 144 |     |   |             |             |             |             |             |
| 145 |     | <b>Total Rate Base</b>  | 322,482,443 | 301,194,807 | 286,336,355 | 271,480,709 | 256,644,644 |
| 146 |     | <i>(Total Net Plant + Debits - Credits)</i>                                   |             |             |             |             |             |
| 147 |     |   |             |             |             |             |             |
| 148 |     | <b>Federal Income Tax Adjusted Weighted Cost of Capital</b>                   | 5.27%       | 5.27%       | 5.27%       | 5.27%       | 5.27%       |
| 149 |     |   |             |             |             |             |             |
| 150 |     |   |             |             |             |             |             |
| 151 |     |   |             |             |             |             |             |
| 152 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>                        | 16,994,825  | 15,872,966  | 15,089,926  | 14,307,033  | 13,525,173  |
| 153 |     |   |             |             |             |             |             |
| 154 |     |   |             |             |             |             |             |



**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | SNO | Account Description                              | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 155 |     |  |             |             |             |             |             |
| 156 |     |  |             |             |             |             |             |
| 157 |     | <u>Schedule 3: Expenses</u>                      |             |             |             |             |             |
| 158 |     | Account Description                              |             |             |             |             |             |
| 159 |     |  |             |             |             |             |             |
| 160 |     |  |             |             |             |             |             |
| 161 |     | <b>Power Production Expenses:</b>                |             |             |             |             |             |
| 162 |     | <b>Steam Power Generation</b>                    |             |             |             |             |             |
| 163 |     | Steam Power - Fuel                               | 1,333,519   | 1,329,707   | 1,336,008   | 1,354,377   | 1,375,370   |
| 164 |     | Steam Power - Operations (Excluding 501 - Fuel)  | 0           | 0           | 0           | 0           | 0           |
| 165 |     | Steam Power - Maintenance                        | 0           | 0           | 0           | 0           | 0           |
| 166 |     | <b>Nuclear Power Generation</b>                  |             |             |             |             |             |
| 167 |     | Nuclear - Fuel                                   | 0           | 0           | 0           | 0           | 0           |
| 168 |     | Nuclear - Operation ( Excluding 518 - Fuel)      | 0           | 0           | 0           | 0           | 0           |
| 169 |     | Nuclear - Maintenance                            | 0           | 0           | 0           | 0           | 0           |
| 170 |     | <b>Hydraulic Power Generation</b>                |             |             |             |             |             |
| 171 |     | Hydraulic - Operation                            | 1,085,643   | 1,110,796   | 1,124,680   | 1,137,614   | 1,153,255   |
| 172 |     | Hydraulic - Maintenance                          | 1,180,931   | 1,209,087   | 1,232,967   | 1,256,085   | 1,279,008   |
| 173 |     | <b>Other Power Generation</b>                    |             |             |             |             |             |
| 174 |     | Other Power - Fuel                               | 0           | 0           | 0           | 0           | 0           |
| 175 |     | Other Power - Operations (Excluding 547 - Fuel)  | 0           | 0           | 0           | 0           | 0           |
| 176 |     | Other Power - Maintenance                        | 0           | 0           | 0           | 0           | 0           |
| 177 |     | <b>Other Power Supply Expenses</b>               |             |             |             |             |             |
| 178 |     | Purchased Power (Excluding REP Reversal)         | 312,018,163 | 340,759,644 | 353,235,418 | 366,048,486 | 379,524,945 |
| 179 |     | System Control and Load Dispatching              | 0           | 0           | 0           | 0           | 0           |
| 180 |     | Other Expenses                                   | 6,628,227   | 6,628,227   | 6,628,227   | 6,628,227   | 6,628,227   |
| 181 |     | BPA REP Reversal                                 | 0           | 0           | 0           | 0           | 0           |
| 182 |     | Public Purpose Charges (h)                       | 12,173,715  | 12,423,529  | 12,536,322  | 12,642,286  | 12,751,915  |
| 183 |     | <b>Total Production Expense</b>                  | 334,420,197 | 363,460,990 | 376,093,622 | 389,067,075 | 402,712,720 |
| 184 |     |  |             |             |             |             |             |
| 185 |     | <b>Transmission Expenses: (i)</b>                |             |             |             |             |             |
| 186 |     | Transmission of Electricity to Others (Wheeling) | 37,567,085  | 38,720,775  | 39,531,003  | 40,327,552  | 41,143,176  |
| 187 |     | Total Operations less Wheeling                   | 131,455     | 136,085     | 138,569     | 141,236     | 144,061     |
| 188 |     | Total Maintenance                                | 0           | 0           | 0           | 0           | 0           |
| 189 |     | <b>Total Transmission Expense</b>                | 37,698,540  | 38,856,860  | 39,669,571  | 40,468,788  | 41,287,237  |
| 190 |     |  |             |             |             |             |             |
| 191 |     | <b>Distribution Expense:</b>                     |             |             |             |             |             |
| 192 |     | Total Operations                                 | 0           | 0           | 0           | 0           | 0           |
| 193 |     | Total Maintenance                                | 0           | 0           | 0           | 0           | 0           |
| 194 |     | <b>Total Distribution Expense</b>                | 0           | 0           | 0           | 0           | 0           |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B   | C           | D           | E           | F           | G           |
|-----|-----|---|-------------|-------------|-------------|-------------|-------------|
| 1   | SNO | Account Description                                 | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 195 |     |   |             |             |             |             |             |
| 196 |     | <b>Customer and Sales Expenses:</b>                 |             |             |             |             |             |
| 197 |     | Total Customer Accounts                             | 0           | 0           | 0           | 0           | 0           |
| 198 |     | Customer Service and Information                    | 0           | 0           | 0           | 0           | 0           |
| 199 |     | Customer assistance expenses (Major only)           | 0           | 0           | 0           | 0           | 0           |
| 200 |     | Customer Service and Information                    | 0           | 0           | 0           | 0           | 0           |
| 201 |     | Total Sales Expense                                 | 0           | 0           | 0           | 0           | 0           |
| 202 |     | <b>Total Customer and Sales Expenses</b>            | 0           | 0           | 0           | 0           | 0           |
| 203 |     |   |             |             |             |             |             |
| 204 |     | <b>Administration and General Expense:</b>          |             |             |             |             |             |
| 205 |     | <b>Operation</b>                                    |             |             |             |             |             |
| 206 |     | Administration and General Salaries                 | 3,106,635   | 3,215,258   | 3,296,854   | 3,383,774   | 3,471,418   |
| 207 |     | Office Supplies & Expenses                          | 1,307,754   | 1,353,480   | 1,387,828   | 1,424,418   | 1,461,312   |
| 208 |     | (Less) Administration Expenses Transferred - Credit | 1,455,868   | 1,506,773   | 1,545,011   | 1,585,745   | 1,626,818   |
| 209 |     | Outside Services Employed                           | 1,415,943   | 1,465,451   | 1,502,641   | 1,542,258   | 1,582,204   |
| 210 |     | Property Insurance                                  | 222,997     | 229,967     | 235,459     | 241,329     | 247,214     |
| 211 |     | Injuries and Damages                                | 417,205     | 431,793     | 442,751     | 454,424     | 466,194     |
| 212 |     | Employee Pensions & Benefits                        | 521,048     | 539,266     | 552,951     | 567,530     | 582,229     |
| 213 |     | Franchise Requirements                              | 0           | 0           | 0           | 0           | 0           |
| 214 |     | Regulatory Commission Expenses                      | 0           | 0           | 0           | 0           | 0           |
| 215 |     | (Less) Duplicate Charges - Credit                   | 0           | 0           | 0           | 0           | 0           |
| 216 |     | General Advertising Expenses                        | 0           | 0           | 0           | 0           | 0           |
| 217 |     | Miscellaneous General Expenses                      | 0           | 0           | 0           | 0           | 0           |
| 218 |     | Rents   | 0           | 0           | 0           | 0           | 0           |
| 219 |     | Transportation Expenses (Non Major)                 | 0           | 0           | 0           | 0           | 0           |
| 220 |     | <b>Maintenance</b>                                  | 0           | 0           | 0           | 0           | 0           |
| 221 |     | Maintenance of General Plant                        | 2,109,845   | 2,175,560   | 2,227,086   | 2,282,191   | 2,337,407   |
| 222 |     | <b>Total Administration and General Expenses</b>    | 7,645,558   | 7,904,002   | 8,100,559   | 8,310,177   | 8,521,162   |
| 223 |     |   |             |             |             |             |             |
| 224 |     | <b>Total Operations and Maintenance</b>             | 379,764,295 | 410,221,852 | 423,863,752 | 437,846,040 | 452,521,118 |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B  | C           | D           | E           | F           | G           |
|-----|-----|--|-------------|-------------|-------------|-------------|-------------|
| 1   | SNO | Account Description  | Rate Period | FY 2012     | FY 2013     | FY 2014     | FY 2015     |
| 225 |     |  |             |             |             |             |             |
| 226 |     |  |             |             |             |             |             |
| 227 |     | <b>Depreciation and Amortization:</b>                          |             |             |             |             |             |
| 228 |     | Amortization of Intangible Plant - Account 301                 | 0           | 0           | 0           | 0           | 0           |
| 229 |     | Amortization of Intangible Plant - Account 302                 | 0           | 0           | 0           | 0           | 0           |
| 230 |     | Amortization of Intangible Plant - Account 303                 | 1,460,374   | 1,460,374   | 1,460,374   | 1,460,374   | 1,460,374   |
| 231 |     | Steam Production Plant   | 8,593,511   | 8,593,511   | 8,593,511   | 8,593,511   | 8,593,511   |
| 232 |     | Nuclear Production Plant                                       | 0           | 0           | 0           | 0           | 0           |
| 233 |     | Hydraulic Production Plant - Conventional                      | 0           | 883,942     | 883,942     | 883,942     | 883,942     |
| 234 |     | Hydraulic Production Plant - Pumped Storage                    | 0           | 0           | 0           | 0           | 0           |
| 235 |     | Other Production Plant   | 0           | 0           | 0           | 0           | 0           |
| 236 |     | Transmission Plant (i)   | 2,415,401   | 2,415,401   | 2,415,401   | 2,415,401   | 2,415,401   |
| 237 |     | Distribution Plant   | 0           | 0           | 0           | 0           | 0           |
| 238 |     | General Plant  | 1,837,470   | 1,824,308   | 1,824,680   | 1,825,036   | 1,825,409   |
| 239 |     | Common Plant - Electric  | 0           | 0           | 0           | 0           | 0           |
| 240 |     | Common Plant - Electric  | 0           | 0           | 0           | 0           | 0           |
| 241 |     | Depreciation Expense for Asset Retirement Costs                | 0           | 0           | 0           | 0           | 0           |
| 242 |     | Amortization of Limited Term Electric Plant                    | 0           | 0           | 0           | 0           | 0           |
| 243 |     | Amortization of Plant Acquisition Adjustments (Electric)       | 0           | 0           | 0           | 0           | 0           |
| 244 |     | <b>Total Depreciation and Amortization</b>                     | 14,306,756  | 15,177,536  | 15,177,909  | 15,178,265  | 15,178,638  |
| 245 |     |  |             |             |             |             |             |
| 246 |     |  |             |             |             |             |             |
| 247 |     | <b>Total Operating Expenses</b>                                | 394,071,052 | 425,399,388 | 439,041,661 | 453,024,305 | 467,699,756 |
| 248 |     | <i>(Total O&amp;M - Total Depreciation &amp; Amortization)</i> |             |             |             |             |             |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B   | C                  | D              | E              | F              | G              |
|-----|-----|---|--------------------|----------------|----------------|----------------|----------------|
| 1   | SNO | <b>Account Description</b>                                      | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 249 |     |   |                    |                |                |                |                |
| 250 |     | <u><i>Schedule 3A Items: Taxes (Including Income Taxes)</i></u> |                    |                |                |                |                |
| 251 |     | <b>Account Description</b>                                      |                    |                |                |                |                |
| 252 |     |   |                    |                |                |                |                |
| 253 |     |   |                    |                |                |                |                |
| 254 |     | <b>FEDERAL</b>  |                    |                |                |                |                |
| 255 |     | Income Tax (Included on Schedule 2)                             | 0                  | 0              | 0              | 0              | 0              |
| 256 |     | Employment Tax  | 126,519            | 130,648        | 133,736        | 137,162        | 140,749        |
| 257 |     | Other Federal Taxes   | 0                  | 0              | 0              | 0              | 0              |
| 258 |     | <b>TOTAL FEDERAL</b>  | 126,519            | 130,648        | 133,736        | 137,162        | 140,749        |
| 259 |     |   |                    |                |                |                |                |
| 260 |     | <b>STATE AND OTHER</b>  |                    |                |                |                |                |
| 261 |     | Property  | 50,937             | 50,214         | 49,903         | 49,609         | 49,303         |
| 262 |     | Unemployment  | 10,321             | 10,658         | 10,910         | 11,189         | 11,482         |
| 263 |     | State Income, B&O, et.  | 0                  | 0              | 0              | 0              | 0              |
| 264 |     | Franchise Fees  | 0                  | 0              | 0              | 0              | 0              |
| 265 |     | Regulatory Commission   | 0                  | 0              | 0              | 0              | 0              |
| 266 |     | City/Municipal  | 0                  | 0              | 0              | 0              | 0              |
| 267 |     | Other   | 0                  | 0              | 0              | 0              | 0              |
| 268 |     | <b>TOTAL STATE AND OTHER TAXES</b>                              | 61,258             | 60,872         | 60,813         | 60,799         | 60,785         |
| 269 |     |   |                    |                |                |                |                |
| 270 |     | <b>TOTAL TAXES</b>  | 187,777            | 191,520        | 194,549        | 197,961        | 201,534        |
| 271 |     |   |                    |                |                |                |                |
| 272 |     |   |                    |                |                |                |                |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B  | C                  | D              | E              | F              | G              |
|-----|-----|--|--------------------|----------------|----------------|----------------|----------------|
| 1   | SNO | <b>Account Description</b>   | <b>Rate Period</b> | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
| 273 |     | <u><i>Schedule 3B: Other Included Items</i></u>                                    |                    |                |                |                |                |
| 274 |     | <b>Account Description</b>   |                    |                |                |                |                |
| 275 |     |  |                    |                |                |                |                |
| 276 |     |  |                    |                |                |                |                |
| 277 |     | <b>Other Included Items:</b>   |                    |                |                |                |                |
| 278 |     | Regulatory Credits   | 0                  | 0              | 0              | 0              | 0              |
| 279 |     | (Less) Regulatory Debits   | 0                  | 0              | 0              | 0              | 0              |
| 280 |     | Gain from Disposition of Utility Plant   | 0                  | 0              | 0              | 0              | 0              |
| 281 |     | (Less) Loss from Disposition of Utility Plant                                      | 0                  | 0              | 0              | 0              | 0              |
| 282 |     | Gain from Disposition of Allowances  | 0                  | 0              | 0              | 0              | 0              |
| 283 |     | (Less) Loss from Disposition of Allowances   | 0                  | 0              | 0              | 0              | 0              |
| 284 |     | Miscellaneous Nonoperating Income  | 0                  | 0              | 0              | 0              | 0              |
| 285 |     | <b>Total Other Included Items</b>  | 0                  | 0              | 0              | 0              | 0              |
| 286 |     |  |                    |                |                |                |                |
| 287 |     | <b>Sale for Resale:</b>  |                    |                |                |                |                |
| 288 |     | Sales for Resale   | 65,199,332         | 72,833,457     | 75,003,137     | 77,720,429     | 80,502,791     |
| 289 |     | <b>Total Sales for Resale</b>  | 65,199,332         | 72,833,457     | 75,003,137     | 77,720,429     | 80,502,791     |
| 290 |     |  |                    |                |                |                |                |
| 291 |     | <b>Other Revenues:</b>   |                    | 0              | 0              | 0              | 0              |
| 292 |     | Forfeited Discounts  | 0                  | 0              | 0              | 0              | 0              |
| 293 |     | Miscellaneous Service Revenues   | 0                  | 0              | 0              | 0              | 0              |
| 294 |     | Sales of Water and Water Power   | 0                  | 0              | 0              | 0              | 0              |
| 295 |     | Rent from Electric Property  | 204,305            | 200,149        | 198,339        | 196,635        | 194,869        |
| 296 |     | Interdepartmental Rents  | 0                  | 0              | 0              | 0              | 0              |
| 297 |     | Other Electric Revenues  | 444,034            | 444,034        | 444,034        | 444,034        | 444,034        |
| 298 |     | Revenues from Transmission of Electricity of Others (i)                            | 9,028,943          | 9,028,943      | 9,028,943      | 9,028,943      | 9,028,943      |
| 299 |     |  | 0                  |                |                |                |                |
| 300 |     | <b>Total Other Revenues</b>  | 9,677,282          | 9,673,126      | 9,671,316      | 9,669,612      | 9,667,846      |
| 301 |     |  |                    |                |                |                |                |
| 302 |     | <b>Total Other Included Items</b>  | 74,876,614         | 82,506,583     | 84,674,453     | 87,390,041     | 90,170,637     |
| 303 |     | <i>(Total Disposition of Plant + Total Sales for Resale + Total Other Revenue)</i> |                    |                |                |                |                |

**TABLE H - SNOHOMISH  
Appendix F**

|     | A   | B   | C                  | D                  | E                  | F                  | G                  |
|-----|-----|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1   | SNO | Account Description   | Rate Period        | FY 2012            | FY 2013            | FY 2014            | FY 2015            |
| 304 |     |   |                    |                    |                    |                    |                    |
| 305 |     | <u>Schedule 4: Average System Cost</u>  |                    |                    |                    |                    |                    |
| 306 |     |   |                    |                    |                    |                    |                    |
| 307 |     |   | <b>10/1/2010</b>   | <b>4/1/2012</b>    | <b>4/1/2013</b>    | <b>4/1/2014</b>    | <b>4/1/2015</b>    |
| 308 |     |   |                    |                    |                    |                    |                    |
| 309 |     | <b>Total Operating Expenses</b>   | 394,071,052        | 425,399,388        | 439,041,661        | 453,024,305        | 467,699,756        |
| 310 |     | (From Schedule 3)   |                    |                    |                    |                    |                    |
| 311 |     |   |                    |                    |                    |                    |                    |
| 312 |     | <b>Federal Income Tax Adjusted Return on Rate Base</b>  | 16,994,825         | 15,872,966         | 15,089,926         | 14,307,033         | 13,525,173         |
| 313 |     | (From Schedule 2)   |                    |                    |                    |                    |                    |
| 314 |     |   |                    |                    |                    |                    |                    |
| 315 |     | <b>State and Other Taxes</b>  | 187,777            | 191,520            | 194,549            | 197,961            | 201,534            |
| 316 |     | (From Schedule 3a)  |                    |                    |                    |                    |                    |
| 317 |     |   |                    |                    |                    |                    |                    |
| 318 |     | <b>Total Other Included Items</b>   | 74,876,614         | 82,506,583         | 84,674,453         | 87,390,041         | 90,170,637         |
| 319 |     | (From Schedule 3b)  |                    |                    |                    |                    |                    |
| 320 |     |   |                    |                    |                    |                    |                    |
| 321 |     | <b>Total Cost</b>   | <b>336,377,039</b> | <b>358,957,291</b> | <b>369,651,684</b> | <b>380,139,259</b> | <b>391,255,827</b> |
| 322 |     | (Total Operating Expenses + Return on Rate Base + State and Other Taxes - Total Other Included Items) |                    |                    |                    |                    |                    |
| 323 |     |   |                    |                    |                    |                    |                    |
| 324 |     |   |                    |                    |                    |                    |                    |
| 325 |     |   |                    |                    |                    |                    |                    |
| 326 |     | <b>Contract System Cost</b>   |                    |                    |                    |                    |                    |
| 327 |     | Production and Transmission   | 336,377,039        | 358,957,291        | 369,651,684        | 380,139,259        | 391,255,827        |
| 328 |     | (Less) New Large Single Load Costs (d)  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 329 |     | <b>Total Contract System Cost</b>   | <b>336,377,039</b> | <b>358,957,291</b> | <b>369,651,684</b> | <b>380,139,259</b> | <b>391,255,827</b> |
| 330 |     |   |                    |                    |                    |                    |                    |
| 331 |     | <b>Contract System Load (MWh)</b>   |                    |                    |                    |                    |                    |
| 332 |     | Total Retail Load   | 7,049,119          | 7,193,772          | 7,259,084          | 7,320,442          | 7,383,922          |
| 333 |     | (Less) New Large Single Load  | 0                  | 0                  | 0                  | 0                  | 0                  |
| 334 |     | Total Retail Load (Net of NLSL) (d)   | 7,049,119          | 7,193,772          | 7,259,084          | 7,320,442          | 7,383,922          |
| 335 |     | Distribution Loss (f)   | 352,456            | 359,689            | 362,954            | 366,022            | 369,196            |
| 336 |     | <b>Total Contract System Load</b>   | <b>7,401,574</b>   | <b>7,553,461</b>   | <b>7,622,038</b>   | <b>7,686,464</b>   | <b>7,753,118</b>   |
| 337 |     |   |                    |                    |                    |                    |                    |
| 338 |     | <b>Average System Cost \$/MWh</b>   | <b>45.45</b>       | <b>47.52</b>       | <b>48.50</b>       | <b>49.46</b>       | <b>50.46</b>       |
| 339 |     |   |                    |                    |                    |                    |                    |

## **APPENDIX G**

### **Residential Exchange Program Average System Cost**

#### **Purchase Power and Sales for Resale**

Table A: Avista

Table B: Franklin County PUD

Table C: Idaho Power

Table D: NorthWestern Energy

Table E: PacifiCorp

Table F: Portland General Electric

Table G: Puget Sound Energy

Table H: Snohomish County PUD

### **Section 7(b)(2) Rate Test Study and Documentation**

WP-10 Initial Rate Proposal

WP-10-E-BPA-06

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**TABLE A - AVISTA  
Appendix G**

|    | C  | D                         | E                     | F                     | G                     | H                     |
|----|--|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b><u>Avista Utilities</u></b>   | <b><u>Rate Period</u></b> | <b><u>2012</u></b>    | <b><u>2013</u></b>    | <b><u>2014</u></b>    | <b><u>2015</u></b>    |
| 4  |  |                           |                       |                       |                       |                       |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.00000</b>            | <b>1.01030</b>        | <b>1.02092</b>        | <b>1.02015</b>        | <b>1.02022</b>        |
| 6  |  |                           |                       |                       |                       |                       |
| 7  |  |                           |                       |                       |                       |                       |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 239,483,073</b>     | <b>\$ 274,620,376</b> | <b>\$ 293,253,017</b> | <b>\$ 317,490,489</b> | <b>\$ 346,200,640</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 240,708,192</b>     | <b>\$ 255,448,672</b> | <b>\$ 261,636,105</b> | <b>\$ 268,481,181</b> | <b>\$ 275,490,173</b> |
| 10 |  |                           |                       |                       |                       |                       |
| 11 |  |                           |                       |                       |                       |                       |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                           |                       |                       |                       |                       |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 2,900,972                 | 2,900,972             | 2,900,972             | 2,900,972             | 2,900,972             |
| 14 | New Resource LT & IT Purchased Power (MWh)   |                           |                       |                       |                       |                       |
| 15 | LT & IT Terminated Contracts (MWh)   |                           |                       |                       |                       |                       |
| 16 |  |                           |                       |                       |                       |                       |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>2,900,972</b>          | <b>2,900,972</b>      | <b>2,900,972</b>      | <b>2,900,972</b>      | <b>2,900,972</b>      |
| 18 |  |                           |                       |                       |                       |                       |
| 19 |  |                           |                       |                       |                       |                       |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | 770,428.00                | 770,428.00            | 770,428.00            | 770,428.00            | 770,428.00            |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | 1,423,334.00              | -                     | -                     | -                     | -                     |
| 22 | LT & IT Terminated Contracts (MWh)   | -                         | -                     | -                     | -                     | -                     |
| 23 |  |                           |                       |                       |                       |                       |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>2,193,762</b>          | <b>2,193,762</b>      | <b>2,193,762</b>      | <b>2,193,762</b>      | <b>2,193,762</b>      |
| 25 |  |                           |                       |                       |                       |                       |
| 26 |  |                           |                       |                       |                       |                       |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                           |                       |                       |                       |                       |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 91,493,181             | \$ 94,302,854         | \$ 96,276,130         | \$ 98,216,094         | \$ 100,202,514        |
| 29 | New Resource LT Purchases, Market (\$)   | \$ 22,489,466             | \$ 23,180,571         | \$ 23,665,622         | \$ 24,142,484         | \$ 24,630,766         |
| 30 | Contract Terminations, Market (\$)   | \$ -                      | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 31 |  |                           |                       |                       |                       |                       |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 113,982,647</b>     | <b>\$ 117,483,425</b> | <b>\$ 119,941,752</b> | <b>\$ 122,358,578</b> | <b>\$ 124,833,280</b> |
| 33 |  |                           |                       |                       |                       |                       |
| 34 |  |                           |                       |                       |                       |                       |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ 53,922,485             | \$ 55,578,395         | \$ 56,741,367         | \$ 57,884,705         | \$ 59,055,423         |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ 101,738,105            | \$ 104,864,535        | \$ 107,058,814        | \$ 109,216,049        | \$ 111,424,942        |
| 37 | <b>Total LT &amp; IT Sales for Resale \$</b>   | <b>\$ 155,660,590</b>     | <b>\$ 160,442,930</b> | <b>\$ 163,800,181</b> | <b>\$ 167,100,754</b> | <b>\$ 170,480,365</b> |
| 38 |  |                           |                       |                       |                       |                       |
| 39 |  |                           |                       |                       |                       |                       |

**TABLE A - AVISTA  
Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>Avista Utilities</b>  | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                       |                       |                       |                       |                       |
| 41 | Base Period ST Purchased Power (MWh)   | 1,860,562             | 1,860,562             | 1,860,562             | 1,860,562             | 1,860,562             |
| 42 | Cumulative CSL Load Growth (MWh)   | 530,262               | 824,393               | 1,015,094             | 1,263,954             | 1,561,535             |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>2,390,824</b>      | <b>2,684,955</b>      | <b>2,875,656</b>      | <b>3,124,516</b>      | <b>3,422,097</b>      |
| 44 |  |                       |                       |                       |                       |                       |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 711,667               | 711,667               | 0                     | 0                     | 0                     |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 711,667               | 711,667               | 0                     | 0                     | 0                     |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 0                     | 0                     | 0                     | 0                     | 0                     |
| 48 | Cumulative Net New Resources (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>2,390,824</b>      | <b>2,684,955</b>      | <b>2,875,656</b>      | <b>3,124,516</b>      | <b>3,422,097</b>      |
| 50 |  |                       |                       |                       |                       |                       |
| 51 |  |                       |                       |                       |                       |                       |
| 52 | New ST Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 53 | Base ST Sales for Resale (MWh)   | 1,765,675             | 1,765,675             | 1,765,675             | 1,765,675             | 1,765,675             |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>1,765,675</b>      | <b>1,765,675</b>      | <b>1,765,675</b>      | <b>1,765,675</b>      | <b>1,765,675</b>      |
| 55 |  |                       |                       |                       |                       |                       |
| 56 |  |                       |                       |                       |                       |                       |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 58 | Total ST Purchases (MWh)   | 2,390,824             | 2,684,955             | 2,875,656             | 3,124,516             | 3,422,097             |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 52.49              | \$ 58.52              | \$ 60.27              | \$ 62.45              | \$ 64.69              |
| 60 |  |                       |                       |                       |                       |                       |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 125,500,426</b> | <b>\$ 157,136,951</b> | <b>\$ 173,311,264</b> | <b>\$ 195,131,911</b> | <b>\$ 221,367,361</b> |
| 62 |  |                       |                       |                       |                       |                       |
| 63 | Total ST Sales for Resale (MWh)  | 1,765,675             | 1,765,675             | 1,765,675             | 1,765,675             | 1,765,675             |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 48.17              | \$ 53.81              | \$ 55.41              | \$ 57.42              | \$ 59.47              |
| 65 |  |                       |                       |                       |                       |                       |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 85,047,603</b>  | <b>\$ 95,005,742</b>  | <b>\$ 97,835,925</b>  | <b>\$ 101,380,427</b> | <b>\$ 105,009,807</b> |
| 67 |  |                       |                       |                       |                       |                       |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>4.20%</b>          |                       |                       |                       |                       |
| 69 |  |                       |                       |                       |                       |                       |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |                       |
| 71 | Purchase Prices (\$/MWh)   | 58.52                 | 60.27                 | 62.45                 | 64.69                 |                       |
| 72 | Mid-Point Price (\$/MWh)   | 56.17                 | 57.84                 | 59.93                 | 62.08                 |                       |
| 73 | Sales Prices (\$/MWh)  | 53.81                 | 55.41                 | 57.42                 | 59.47                 |                       |
| 74 |  |                       |                       |                       |                       |                       |
| 75 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                       |                       |                       |                       |                       |
| 76 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                       |                       |                       |                       |                       |
| 77 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                       |                       |                       |                       |                       |
| 78 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                       |                       |                       |                       |                       |

**TABLE B - FRANKLIN  
Appendix G**

|    | C  | D                    | E                    | F                    | G                    | H                    |
|----|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| 3  | <b>PUD No. 1 of Franklin County</b>  | <b>Rate Period</b>   | <b>2012</b>          | <b>2013</b>          | <b>2014</b>          | <b>2015</b>          |
| 4  |  |                      |                      |                      |                      |                      |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.00000</b>       | <b>1.01030</b>       | <b>1.02092</b>       | <b>1.02015</b>       | <b>1.02022</b>       |
| 6  |  |                      |                      |                      |                      |                      |
| 7  |  |                      |                      |                      |                      |                      |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 50,153,483</b> | <b>\$ 52,516,567</b> | <b>\$ 54,728,000</b> | <b>\$ 57,064,056</b> | <b>\$ 59,525,586</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 16,981,691</b> | <b>\$ 18,970,060</b> | <b>\$ 19,535,171</b> | <b>\$ 20,242,911</b> | <b>\$ 20,967,600</b> |
| 10 |  |                      |                      |                      |                      |                      |
| 11 |  |                      |                      |                      |                      |                      |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                      |                      |                      |                      |                      |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 1,131,609            | 1,131,609            | 1,131,609            | 1,131,609            | 1,131,609            |
| 14 | New Resource LT & IT Purchased Power (MWh)   | 129,479              |                      |                      |                      |                      |
| 15 | LT & IT Terminated Contracts (MWh)   |                      |                      |                      |                      |                      |
| 16 |  |                      |                      |                      |                      |                      |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>1,261,088</b>     | <b>1,261,088</b>     | <b>1,261,088</b>     | <b>1,261,088</b>     | <b>1,261,088</b>     |
| 18 |  |                      |                      |                      |                      |                      |
| 19 |  |                      |                      |                      |                      |                      |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | -                    | -                    | -                    | -                    | -                    |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                    | -                    | -                    | -                    | -                    |
| 22 | LT & IT Terminated Contracts (MWh)   | -                    | -                    | -                    | -                    | -                    |
| 23 |  |                      |                      |                      |                      |                      |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>-</b>             | <b>-</b>             | <b>-</b>             | <b>-</b>             | <b>-</b>             |
| 25 |  |                      |                      |                      |                      |                      |
| 26 |  |                      |                      |                      |                      |                      |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                      |                      |                      |                      |                      |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 44,684,787        | \$ 46,057,016        | \$ 47,020,754        | \$ 47,968,222        | \$ 48,938,379        |
| 29 | New Resource LT Purchases, Market (\$)   | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 |
| 30 | Contract Terminations, Market (\$)   | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 |
| 31 |  |                      |                      |                      |                      |                      |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 44,684,787</b> | <b>\$ 46,057,016</b> | <b>\$ 47,020,754</b> | <b>\$ 47,968,222</b> | <b>\$ 48,938,379</b> |
| 33 |  |                      |                      |                      |                      |                      |
| 34 |  |                      |                      |                      |                      |                      |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 |
| 37 | <b>Total LT &amp; IT Sales for Resale (\$)</b>   | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          |
| 38 |  |                      |                      |                      |                      |                      |
| 39 |  |                      |                      |                      |                      |                      |

**TABLE B - FRANKLIN  
Appendix G**

|    | C  | D                    | E                    | F                    | G                    | H                    |
|----|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| 3  | <b>PUD No. 1 of Franklin County</b>  | <b>Rate Period</b>   | <b>2012</b>          | <b>2013</b>          | <b>2014</b>          | <b>2015</b>          |
| 4  |  |                      |                      |                      |                      |                      |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                      |                      |                      |                      |                      |
| 41 | Base Period ST Purchased Power (MWh)   | 82,227               | 82,227               | 82,227               | 82,227               | 82,227               |
| 42 | Cumulative CSL Load Growth (MWh)   | 129,479              | 154,601              | 170,302              | 186,232              | 202,392              |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>211,706</b>       | <b>236,828</b>       | <b>252,529</b>       | <b>268,459</b>       | <b>284,619</b>       |
| 44 |  |                      |                      |                      |                      |                      |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 118,488              | 19,365               | 0                    | 0                    | 0                    |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                    | 0                    | 0                    | 0                    | 0                    |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 118,488              | 19,365               | 0                    | 0                    | 0                    |
| 48 | Cumulative Net New Resources (MWh)   | 118,488              | 137,853              | 137,853              | 137,853              | 137,853              |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>93,218</b>        | <b>98,975</b>        | <b>114,677</b>       | <b>130,606</b>       | <b>146,766</b>       |
| 50 |  |                      |                      |                      |                      |                      |
| 51 |  |                      |                      |                      |                      |                      |
| 52 | New ST Sales for Resale (MWh)  | -                    | -                    | -                    | -                    | -                    |
| 53 | Base ST Sales for Resale (MWh)   | 271,537              | 271,537              | 271,537              | 271,537              | 271,537              |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>271,537</b>       | <b>271,537</b>       | <b>271,537</b>       | <b>271,537</b>       | <b>271,537</b>       |
| 55 |  |                      |                      |                      |                      |                      |
| 56 |  |                      |                      |                      |                      |                      |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                      |                      |                      |                      |                      |
| 58 | Total ST Purchases (MWh)   | 93,218               | 98,975               | 114,677              | 130,606              | 146,766              |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 58.67             | \$ 65.26             | \$ 67.21             | \$ 69.64             | \$ 72.14             |
| 60 |  |                      |                      |                      |                      |                      |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 5,468,696</b>  | <b>\$ 6,459,550</b>  | <b>\$ 7,707,245</b>  | <b>\$ 9,095,833</b>  | <b>\$ 10,587,207</b> |
| 62 |  |                      |                      |                      |                      |                      |
| 63 | Total ST Sales for Resale (MWh)  | 271,537              | 271,537              | 271,537              | 271,537              | 271,537              |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 62.54             | \$ 69.86             | \$ 71.94             | \$ 74.55             | \$ 77.22             |
| 65 |  |                      |                      |                      |                      |                      |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 16,981,691</b> | <b>\$ 18,970,060</b> | <b>\$ 19,535,171</b> | <b>\$ 20,242,911</b> | <b>\$ 20,967,600</b> |
| 67 |  |                      |                      |                      |                      |                      |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>-3.40%</b>        |                      |                      |                      |                      |
| 69 |  |                      |                      |                      |                      |                      |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>          | <b>2013</b>          | <b>2014</b>          | <b>2015</b>          |                      |
| 71 | <b>Purchase Prices (\$/MWh)</b>  | <b>65.26</b>         | <b>67.21</b>         | <b>69.64</b>         | <b>72.14</b>         |                      |
| 72 | <b>Mid-Point Price (\$/MWh)</b>  | <b>67.56</b>         | <b>69.58</b>         | <b>72.10</b>         | <b>74.68</b>         |                      |
| 73 | <b>Sales Prices (\$/MWh)</b>   | <b>69.86</b>         | <b>71.94</b>         | <b>74.55</b>         | <b>77.22</b>         |                      |
| 74 |  |                      |                      |                      |                      |                      |
| 75 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                      |                      |                      |                      |                      |
| 76 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                      |                      |                      |                      |                      |
| 77 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                      |                      |                      |                      |                      |
| 78 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                      |                      |                      |                      |                      |

**TABLE C - IDAHO POWER**  
**Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>IDAHO POWER COMPANY</b>   | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.01010</b>        | <b>1.01030</b>        | <b>1.02092</b>        | <b>1.02015</b>        | <b>1.02022</b>        |
| 6  |  |                       |                       |                       |                       |                       |
| 7  |  |                       |                       |                       |                       |                       |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 344,015,861</b> | <b>\$ 405,052,045</b> | <b>\$ 425,669,018</b> | <b>\$ 452,770,287</b> | <b>\$ 479,809,575</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 141,300,682</b> | <b>\$ 156,963,434</b> | <b>\$ 161,546,016</b> | <b>\$ 167,225,912</b> | <b>\$ 173,041,822</b> |
| 10 |  |                       |                       |                       |                       |                       |
| 11 |  |                       |                       |                       |                       |                       |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                       |                       |                       |                       |                       |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 925,369               | 925,369               | 925,369               | 925,369               | 925,369               |
| 14 | New Resource LT & IT Purchased Power (MWh)   |                       |                       |                       |                       |                       |
| 15 | LT & IT Terminated Contracts (MWh)   |                       |                       |                       |                       |                       |
| 16 |  |                       |                       |                       |                       |                       |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>925,369</b>        | <b>925,369</b>        | <b>925,369</b>        | <b>925,369</b>        | <b>925,369</b>        |
| 18 |  |                       |                       |                       |                       |                       |
| 19 |  |                       |                       |                       |                       |                       |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | 126,314.00            | 126,314.00            | 126,314.00            | 126,314.00            | 126,314.00            |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 22 | LT & IT Terminated Contracts (MWh)   | -                     | -                     | -                     | -                     | -                     |
| 23 |  |                       |                       |                       |                       |                       |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>126,314</b>        | <b>126,314</b>        | <b>126,314</b>        | <b>126,314</b>        | <b>126,314</b>        |
| 25 |  |                       |                       |                       |                       |                       |
| 26 |  |                       |                       |                       |                       |                       |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 54,844,275         | \$ 56,528,493         | \$ 57,711,345         | \$ 58,874,229         | \$ 60,064,959         |
| 29 | New Resource LT Purchases, Market (\$)   | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 30 | Contract Terminations, Market (\$)   | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 31 |  |                       |                       |                       |                       |                       |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 54,844,275</b>  | <b>\$ 56,528,493</b>  | <b>\$ 57,711,345</b>  | <b>\$ 58,874,229</b>  | <b>\$ 60,064,959</b>  |
| 33 |  |                       |                       |                       |                       |                       |
| 34 |  |                       |                       |                       |                       |                       |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ 10,210,758         | \$ 10,524,321         | \$ 10,744,542         | \$ 10,961,044         | \$ 11,182,731         |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 37 | <b>Total LT &amp; IT Sales for Resale \$</b>   | <b>\$ 10,210,758</b>  | <b>\$ 10,524,321</b>  | <b>\$ 10,744,542</b>  | <b>\$ 10,961,044</b>  | <b>\$ 11,182,731</b>  |
| 38 |  |                       |                       |                       |                       |                       |
| 39 |  |                       |                       |                       |                       |                       |

**TABLE C - IDAHO POWER**  
**Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>IDAHO POWER COMPANY</b>   | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                       |                       |                       |                       |                       |
| 41 | Base Period ST Purchased Power (MWh)   | 4,270,595             | 4,270,595             | 4,270,595             | 4,270,595             | 4,270,595             |
| 42 | Cumulative CSL Load Growth (MWh)   | 972,160               | 1,391,135             | 1,532,423             | 1,722,335             | 1,893,171             |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>5,242,755</b>      | <b>5,661,730</b>      | <b>5,803,018</b>      | <b>5,992,930</b>      | <b>6,163,766</b>      |
| 44 |  |                       |                       |                       |                       |                       |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 59,568                | 0                     | 0                     | 0                     | 0                     |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 59,568                |                       |                       |                       |                       |
| 48 | Cumulative Net New Resources (MWh)   | 59,568                | 59,568                | 59,568                | 59,568                | 59,568                |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>5,183,187</b>      | <b>5,602,162</b>      | <b>5,743,450</b>      | <b>5,933,362</b>      | <b>6,104,198</b>      |
| 50 |  |                       |                       |                       |                       |                       |
| 51 |  |                       |                       |                       |                       |                       |
| 52 | New ST Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 53 | Base ST Sales for Resale (MWh)   | 2,617,333             | 2,617,333             | 2,617,333             | 2,617,333             | 2,617,333             |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>2,617,333</b>      | <b>2,617,333</b>      | <b>2,617,333</b>      | <b>2,617,333</b>      | <b>2,617,333</b>      |
| 55 |  |                       |                       |                       |                       |                       |
| 56 |  |                       |                       |                       |                       |                       |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 58 | Total ST Purchases (MWh)   | 5,183,187             | 5,602,162             | 5,743,450             | 5,933,362             | 6,104,198             |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 55.79              | \$ 62.21              | \$ 64.07              | \$ 66.39              | \$ 68.76              |
| 60 |  |                       |                       |                       |                       |                       |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 289,171,586</b> | <b>\$ 348,523,552</b> | <b>\$ 367,957,673</b> | <b>\$ 393,896,058</b> | <b>\$ 419,744,616</b> |
| 62 |  |                       |                       |                       |                       |                       |
| 63 | Total ST Sales for Resale (MWh)  | 2,617,333             | 2,617,333             | 2,617,333             | 2,617,333             | 2,617,333             |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 50.09              | \$ 55.95              | \$ 57.62              | \$ 59.70              | \$ 61.84              |
| 65 |  |                       |                       |                       |                       |                       |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 131,089,923</b> | <b>\$ 146,439,113</b> | <b>\$ 150,801,474</b> | <b>\$ 156,264,868</b> | <b>\$ 161,859,091</b> |
| 67 |  |                       |                       |                       |                       |                       |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>5.30%</b>          |                       |                       |                       |                       |
| 69 |  |                       |                       |                       |                       |                       |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |                       |
| 71 | Purchase Prices (\$/MWh)   | 62.21                 | 64.07                 | 66.39                 | 68.76                 |                       |
| 72 | Mid-Point Price (\$/MWh)   | 59.08                 | 60.84                 | 63.05                 | 65.30                 |                       |
| 73 | Sales Prices (\$/MWh)  | 55.95                 | 57.62                 | 59.70                 | 61.84                 |                       |
| 74 |  |                       |                       |                       |                       |                       |
| 75 |  |                       |                       |                       |                       |                       |
| 76 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                       |                       |                       |                       |                       |
| 77 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                       |                       |                       |                       |                       |
| 78 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                       |                       |                       |                       |                       |
| 79 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                       |                       |                       |                       |                       |

**TABLE D - NORTHWESTERN  
Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>NorthWestern Energy</b>   | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.01010</b>        | <b>1.01030</b>        | <b>1.02092</b>        | <b>1.02015</b>        | <b>1.02022</b>        |
| 6  |  |                       |                       |                       |                       |                       |
| 7  |  |                       |                       |                       |                       |                       |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 369,176,016</b> | <b>\$ 399,158,967</b> | <b>\$ 413,924,209</b> | <b>\$ 430,227,831</b> | <b>\$ 447,254,145</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 60,831,012</b>  | <b>\$ 67,953,654</b>  | <b>\$ 69,977,966</b>  | <b>\$ 72,513,201</b>  | <b>\$ 75,109,146</b>  |
| 10 |  |                       |                       |                       |                       |                       |
| 11 |  |                       |                       |                       |                       |                       |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                       |                       |                       |                       |                       |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 5,154,333             | 5,154,333             | 5,154,333             | 5,154,333             | 5,154,333             |
| 14 | New Resource LT & IT Purchased Power (MWh)   |                       |                       |                       |                       |                       |
| 15 | LT & IT Terminated Contracts (MWh)   |                       |                       |                       |                       |                       |
| 16 |  |                       |                       |                       |                       |                       |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>5,154,333</b>      | <b>5,154,333</b>      | <b>5,154,333</b>      | <b>5,154,333</b>      | <b>5,154,333</b>      |
| 18 |  |                       |                       |                       |                       |                       |
| 19 |  |                       |                       |                       |                       |                       |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | -                     | -                     | -                     | -                     | -                     |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 22 | LT & IT Terminated Contracts (MWh)   | -                     | -                     | -                     | -                     | -                     |
| 23 |  |                       |                       |                       |                       |                       |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>-</b>              | <b>-</b>              | <b>-</b>              | <b>-</b>              | <b>-</b>              |
| 25 |  |                       |                       |                       |                       |                       |
| 26 |  |                       |                       |                       |                       |                       |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 234,567,907        | \$ 241,771,274        | \$ 246,830,311        | \$ 251,803,941        | \$ 256,896,674        |
| 29 | New Resource LT Purchases, Market (\$)   | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 30 | Contract Terminations, Market (\$)   | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 31 |  |                       |                       |                       |                       |                       |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 234,567,907</b> | <b>\$ 241,771,274</b> | <b>\$ 246,830,311</b> | <b>\$ 251,803,941</b> | <b>\$ 256,896,674</b> |
| 33 |  |                       |                       |                       |                       |                       |
| 34 |  |                       |                       |                       |                       |                       |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 37 | <b>Total LT &amp; IT Sales for Resale (\$)</b>   | <b>\$ -</b>           | <b>\$ -</b>           | <b>\$ -</b>           | <b>\$ -</b>           | <b>\$ -</b>           |
| 38 |  |                       |                       |                       |                       |                       |
| 39 |  |                       |                       |                       |                       |                       |

**TABLE D - NORTHWESTERN**  
**Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>NorthWestern Energy</b>   | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                       |                       |                       |                       |                       |
| 41 | Base Period ST Purchased Power (MWh)   | 2,366,997             | 2,366,997             | 2,366,997             | 2,366,997             | 2,366,997             |
| 42 | Cumulative CSL Load Growth (MWh)   | 165,907               | 286,437               | 368,584               | 451,946               | 536,541               |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>2,532,904</b>      | <b>2,653,434</b>      | <b>2,735,581</b>      | <b>2,818,943</b>      | <b>2,903,538</b>      |
| 44 |  |                       |                       |                       |                       |                       |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 0                     |                       |                       |                       |                       |
| 48 | Cumulative Net New Resources (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>2,532,904</b>      | <b>2,653,434</b>      | <b>2,735,581</b>      | <b>2,818,943</b>      | <b>2,903,538</b>      |
| 50 |  |                       |                       |                       |                       |                       |
| 51 |  |                       |                       |                       |                       |                       |
| 52 | New ST Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 53 | Base ST Sales for Resale (MWh)   | 1,444,555             | 1,444,555             | 1,444,555             | 1,444,555             | 1,444,555             |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>1,444,555</b>      | <b>1,444,555</b>      | <b>1,444,555</b>      | <b>1,444,555</b>      | <b>1,444,555</b>      |
| 55 |  |                       |                       |                       |                       |                       |
| 56 |  |                       |                       |                       |                       |                       |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 58 | Total ST Purchases (MWh)   | 2,532,904             | 2,653,434             | 2,735,581             | 2,818,943             | 2,903,538             |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 53.14              | \$ 59.31              | \$ 61.08              | \$ 63.29              | \$ 65.56              |
| 60 |  |                       |                       |                       |                       |                       |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 134,608,109</b> | <b>\$ 157,387,693</b> | <b>\$ 167,093,898</b> | <b>\$ 178,423,890</b> | <b>\$ 190,357,471</b> |
| 62 |  |                       |                       |                       |                       |                       |
| 63 | Total ST Sales for Resale (MWh)  | 1,444,555             | 1,444,555             | 1,444,555             | 1,444,555             | 1,444,555             |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 42.11              | \$ 47.04              | \$ 48.44              | \$ 50.20              | \$ 51.99              |
| 65 |  |                       |                       |                       |                       |                       |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 60,831,012</b>  | <b>\$ 67,953,654</b>  | <b>\$ 69,977,966</b>  | <b>\$ 72,513,201</b>  | <b>\$ 75,109,146</b>  |
| 67 |  |                       |                       |                       |                       |                       |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>11.54%</b>         |                       |                       |                       |                       |
| 69 |  |                       |                       |                       |                       |                       |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |                       |
| 71 | <b>Purchase Prices (\$/MWh)</b>  | <b>59.31</b>          | <b>61.08</b>          | <b>63.29</b>          | <b>65.56</b>          |                       |
| 72 | <b>Mid-Point Price (\$/MWh)</b>  | <b>53.18</b>          | <b>54.76</b>          | <b>56.75</b>          | <b>58.78</b>          |                       |
| 73 | <b>Sales Prices (\$/MWh)</b>   | <b>47.04</b>          | <b>48.44</b>          | <b>50.20</b>          | <b>51.99</b>          |                       |
| 74 |  |                       |                       |                       |                       |                       |
| 75 |  |                       |                       |                       |                       |                       |
| 76 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                       |                       |                       |                       |                       |
| 77 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                       |                       |                       |                       |                       |
| 78 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                       |                       |                       |                       |                       |
| 79 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                       |                       |                       |                       |                       |



**TABLE E - PAC  
Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>PacifiCorp</b>  | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.01010</b>        | <b>1.01030</b>        | <b>1.02092</b>        | <b>1.02015</b>        | <b>1.02022</b>        |
| 6  |  |                       |                       |                       |                       |                       |
| 7  |  |                       |                       |                       |                       |                       |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 257,764,764</b> | <b>\$ 265,680,485</b> | <b>\$ 272,361,968</b> | <b>\$ 340,665,453</b> | <b>\$ 414,897,944</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 407,202,338</b> | <b>\$ 418,893,408</b> | <b>\$ 411,939,133</b> | <b>\$ 425,168,793</b> | <b>\$ 438,715,257</b> |
| 10 |  |                       |                       |                       |                       |                       |
| 11 |  |                       |                       |                       |                       |                       |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                       |                       |                       |                       |                       |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 4,881,360             | 4,881,360             | 4,881,360             | 4,881,360             | 4,881,360             |
| 14 | New Resource LT & IT Purchased Power (MWh)   |                       |                       |                       |                       |                       |
| 15 | LT & IT Terminated Contracts (MWh)   |                       |                       |                       |                       |                       |
| 16 |  |                       |                       |                       |                       |                       |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>4,881,360</b>      | <b>4,881,360</b>      | <b>4,881,360</b>      | <b>4,881,360</b>      | <b>4,881,360</b>      |
| 18 |  |                       |                       |                       |                       |                       |
| 19 |  |                       |                       |                       |                       |                       |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | 1,987,006.16          | 1,987,006.16          | 1,987,006.16          | 1,987,006.16          | 1,987,006.16          |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 22 | LT & IT Terminated Contracts (MWh)   | -                     | -                     | -                     | -                     | -                     |
| 23 |  |                       |                       |                       |                       |                       |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>1,987,006</b>      | <b>1,987,006</b>      | <b>1,987,006</b>      | <b>1,987,006</b>      | <b>1,987,006</b>      |
| 25 |  |                       |                       |                       |                       |                       |
| 26 |  |                       |                       |                       |                       |                       |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 257,764,764        | \$ 265,680,485        | \$ 271,239,820        | \$ 276,705,301        | \$ 282,301,664        |
| 29 | New Resource LT Purchases, Market (\$)   | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 30 | Contract Terminations, Market (\$)   | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 31 |  |                       |                       |                       |                       |                       |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 257,764,764</b> | <b>\$ 265,680,485</b> | <b>\$ 271,239,820</b> | <b>\$ 276,705,301</b> | <b>\$ 282,301,664</b> |
| 33 |  |                       |                       |                       |                       |                       |
| 34 |  |                       |                       |                       |                       |                       |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ 100,150,215        | \$ 103,225,737        | \$ 105,385,724        | \$ 107,509,246        | \$ 109,683,619        |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                  | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 37 | <b>Total LT &amp; IT Sales for Resale \$</b>   | <b>\$ 100,150,215</b> | <b>\$ 103,225,737</b> | <b>\$ 105,385,724</b> | <b>\$ 107,509,246</b> | <b>\$ 109,683,619</b> |
| 38 |  |                       |                       |                       |                       |                       |
| 39 |  |                       |                       |                       |                       |                       |

**TABLE E - PAC  
Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>PacifiCorp</b>  | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                       |                       |                       |                       |                       |
| 41 | Base Period ST Purchased Power (MWh)   | 602,534               | 602,534               | 602,534               | 602,534               | 602,534               |
| 42 | Cumulative CSL Load Growth (MWh)   | 863,260               | 1,209,002             | 1,441,003             | 1,910,872             | 2,390,139             |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>1,465,794</b>      | <b>1,811,536</b>      | <b>2,043,537</b>      | <b>2,513,407</b>      | <b>2,992,673</b>      |
| 44 |  |                       |                       |                       |                       |                       |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 2,034,837             | 0                     | 0                     | 0                     | 0                     |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 2,034,837             | 0                     | 0                     | 0                     | 0                     |
| 48 | Cumulative Net New Resources (MWh)   | 2,034,837             | 2,034,837             | 2,034,837             | 2,034,837             | 2,034,837             |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>-</b>              | <b>-</b>              | <b>8,700</b>          | <b>478,570</b>        | <b>957,837</b>        |
| 50 |  |                       |                       |                       |                       |                       |
| 51 |  |                       |                       |                       |                       |                       |
| 52 | New ST Sales for Resale (MWh)  | 569,043               | 223,301               | -                     | -                     | -                     |
| 53 | Base ST Sales for Resale (MWh)   | 4,153,012             | 3,919,927             | 3,696,626             | 3,696,626             | 3,696,626             |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>4,722,055</b>      | <b>4,143,228</b>      | <b>3,696,626</b>      | <b>3,696,626</b>      | <b>3,696,626</b>      |
| 55 |  |                       |                       |                       |                       |                       |
| 56 |  |                       |                       |                       |                       |                       |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 58 | Total ST Purchases (MWh)   | -                     | -                     | 8,700                 | 478,570               | 957,837               |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 112.12             | \$ 125.24             | \$ 128.98             | \$ 133.65             | \$ 138.43             |
| 60 |  |                       |                       |                       |                       |                       |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ -</b>           | <b>\$ -</b>           | <b>\$ 1,122,148</b>   | <b>\$ 63,960,152</b>  | <b>\$ 132,596,280</b> |
| 62 |  |                       |                       |                       |                       |                       |
| 63 | Total ST Sales for Resale (MWh)  | 4,265,669             | 3,919,927             | 3,696,626             | 3,696,626             | 3,696,626             |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 71.98              | \$ 80.53              | \$ 82.93              | \$ 85.93              | \$ 89.01              |
| 65 |  |                       |                       |                       |                       |                       |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 307,052,124</b> | <b>\$ 315,667,672</b> | <b>\$ 306,553,410</b> | <b>\$ 317,659,547</b> | <b>\$ 329,031,638</b> |
| 67 |  |                       |                       |                       |                       |                       |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>21.73%</b>         |                       |                       |                       |                       |
| 69 |  |                       |                       |                       |                       |                       |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |                       |
| 71 | Purchase Prices (\$/MWh)   | 125.24                | 128.98                | 133.65                | 138.43                |                       |
| 72 | Mid-Point Price (\$/MWh)   | 102.89                | 105.95                | 109.79                | 113.72                |                       |
| 73 | Sales Prices (\$/MWh)  | 80.53                 | 82.93                 | 85.93                 | 89.01                 |                       |
| 74 |  |                       |                       |                       |                       |                       |
| 75 |  |                       |                       |                       |                       |                       |
| 76 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                       |                       |                       |                       |                       |
| 77 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                       |                       |                       |                       |                       |
| 78 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                       |                       |                       |                       |                       |
| 79 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                       |                       |                       |                       |                       |

**TABLE F - PGE  
Appendix G**

|    | C  | D                     | E                       | F                       | G                       | H                       |
|----|--|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 3  | <b>Portland General Electric</b>   | <b>Rate Period</b>    | <b>2012</b>             | <b>2013</b>             | <b>2014</b>             | <b>2015</b>             |
| 4  |  |                       |                         |                         |                         |                         |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.00000</b>        | <b>1.01030</b>          | <b>1.02092</b>          | <b>1.02015</b>          | <b>1.02022</b>          |
| 6  |  |                       |                         |                         |                         |                         |
| 7  |  |                       |                         |                         |                         |                         |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 995,599,274</b> | <b>\$ 1,109,092,367</b> | <b>\$ 1,161,805,198</b> | <b>\$ 1,226,660,093</b> | <b>\$ 1,293,854,321</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 661,996,458</b> | <b>\$ 738,682,742</b>   | <b>\$ 760,600,408</b>   | <b>\$ 787,994,399</b>   | <b>\$ 816,044,380</b>   |
| 10 |  |                       |                         |                         |                         |                         |
| 11 |  |                       |                         |                         |                         |                         |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                       |                         |                         |                         |                         |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 5,421,414             | 5,421,414               | 5,421,414               | 5,421,414               | 5,421,414               |
| 14 | New Resource LT & IT Purchased Power (MWh)   |                       |                         |                         |                         |                         |
| 15 | LT & IT Terminated Contracts (MWh)   |                       |                         |                         |                         |                         |
| 16 |  |                       |                         |                         |                         |                         |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>5,421,414</b>      | <b>5,421,414</b>        | <b>5,421,414</b>        | <b>5,421,414</b>        | <b>5,421,414</b>        |
| 18 |  |                       |                         |                         |                         |                         |
| 19 |  |                       |                         |                         |                         |                         |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | 83,050.00             | 83,050.00               | 83,050.00               | 83,050.00               | 83,050.00               |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                     | -                       | -                       | -                       | -                       |
| 22 | LT & IT Terminated Contracts (MWh)   | -                     | -                       | -                       | -                       | -                       |
| 23 |  |                       |                         |                         |                         |                         |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>83,050</b>         | <b>83,050</b>           | <b>83,050</b>           | <b>83,050</b>           | <b>83,050</b>           |
| 25 |  |                       |                         |                         |                         |                         |
| 26 |  |                       |                         |                         |                         |                         |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                       |                         |                         |                         |                         |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 169,692,290        | \$ 174,903,386          | \$ 178,563,220          | \$ 182,161,268          | \$ 185,845,478          |
| 29 | New Resource LT Purchases, Market (\$)   | \$ -                  | \$ -                    | \$ -                    | \$ -                    | \$ -                    |
| 30 | Contract Terminations, Market (\$)   | \$ -                  | \$ -                    | \$ -                    | \$ -                    | \$ -                    |
| 31 |  |                       |                         |                         |                         |                         |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 169,692,290</b> | <b>\$ 174,903,386</b>   | <b>\$ 178,563,220</b>   | <b>\$ 182,161,268</b>   | <b>\$ 185,845,478</b>   |
| 33 |  |                       |                         |                         |                         |                         |
| 34 |  |                       |                         |                         |                         |                         |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ 9,565,002          | \$ 9,858,735            | \$ 10,065,028           | \$ 10,267,838           | \$ 10,475,505           |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                  | \$ -                    | \$ -                    | \$ -                    | \$ -                    |
| 37 | <b>Total LT &amp; IT Sales for Resale \$</b>   | <b>\$ 9,565,002</b>   | <b>\$ 9,858,735</b>     | <b>\$ 10,065,028</b>    | <b>\$ 10,267,838</b>    | <b>\$ 10,475,505</b>    |
| 38 |  |                       |                         |                         |                         |                         |
| 39 |  |                       |                         |                         |                         |                         |

**TABLE F - PGE  
Appendix G**

|    | C  | D                     | E                     | F                     | G                       | H                       |
|----|--|-----------------------|-----------------------|-----------------------|-------------------------|-------------------------|
| 3  | <b>Portland General Electric</b>   | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>             | <b>2015</b>             |
| 4  |  |                       |                       |                       |                         |                         |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                       |                       |                       |                         |                         |
| 41 | Base Period ST Purchased Power (MWh)   | 15,769,455            | 15,769,455            | 15,769,455            | 15,769,455              | 15,769,455              |
| 42 | Cumulative CSL Load Growth (MWh)   | 1,325,039             | 1,800,097             | 2,165,706             | 2,591,861               | 3,011,029               |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>17,094,494</b>     | <b>17,569,552</b>     | <b>17,935,161</b>     | <b>18,361,316</b>       | <b>18,780,484</b>       |
| 44 |  |                       |                       |                       |                         |                         |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 736,272               | 261,298               | 0                     | 0                       | 0                       |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                     | 0                     | 0                     | 0                       | 0                       |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 736,272               | 261,298               | 0                     | 0                       | 0                       |
| 48 | Cumulative Net New Resources (MWh)   | 736,272               | 997,569               | 997,569               | 997,569                 | 997,569                 |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>16,358,223</b>     | <b>16,571,983</b>     | <b>16,937,592</b>     | <b>17,363,747</b>       | <b>17,782,915</b>       |
| 50 |  |                       |                       |                       |                         |                         |
| 51 |  |                       |                       |                       |                         |                         |
| 52 | New ST Sales for Resale (MWh)  | -                     | -                     | -                     | -                       | -                       |
| 53 | Base ST Sales for Resale (MWh)   | 12,928,925            | 12,928,925            | 12,928,925            | 12,928,925              | 12,928,925              |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>12,928,925</b>     | <b>12,928,925</b>     | <b>12,928,925</b>     | <b>12,928,925</b>       | <b>12,928,925</b>       |
| 55 |  |                       |                       |                       |                         |                         |
| 56 |  |                       |                       |                       |                         |                         |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                       |                       |                       |                         |                         |
| 58 | Total ST Purchases (MWh)   | 16,358,223            | 16,571,983            | 16,937,592            | 17,363,747              | 17,782,915              |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 50.49              | \$ 56.37              | \$ 58.05              | \$ 60.15                | \$ 62.31                |
| 60 |  |                       |                       |                       |                         |                         |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 825,906,984</b> | <b>\$ 934,188,981</b> | <b>\$ 983,241,978</b> | <b>\$ 1,044,498,825</b> | <b>\$ 1,108,008,842</b> |
| 62 |  |                       |                       |                       |                         |                         |
| 63 | Total ST Sales for Resale (MWh)  | 12,928,925            | 12,928,925            | 12,928,925            | 12,928,925              | 12,928,925              |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 50.46              | \$ 56.37              | \$ 58.05              | \$ 60.15                | \$ 62.31                |
| 65 |  |                       |                       |                       |                         |                         |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 652,431,456</b> | <b>\$ 728,824,008</b> | <b>\$ 750,535,380</b> | <b>\$ 777,726,561</b>   | <b>\$ 805,568,875</b>   |
| 67 |  |                       |                       |                       |                         |                         |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>0.00%</b>          |                       |                       |                         |                         |
| 69 |  |                       |                       |                       |                         |                         |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>             |                         |
| 71 | Purchase Prices (\$/MWh)   | 56.37                 | 58.05                 | 60.15                 | 62.31                   |                         |
| 72 | Mid-Point Price (\$/MWh)   | 56.37                 | 58.05                 | 60.15                 | 62.31                   |                         |
| 73 | Sales Prices (\$/MWh)  | 56.37                 | 58.05                 | 60.15                 | 62.31                   |                         |
| 74 |  |                       |                       |                       |                         |                         |
| 75 |  |                       |                       |                       |                         |                         |
| 76 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                       |                       |                       |                         |                         |
| 77 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                       |                       |                       |                         |                         |
| 78 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                       |                       |                       |                         |                         |
| 79 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                       |                       |                       |                         |                         |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix G**

|    | C  | D                     | E                       | F                       | G                       | H                       |
|----|--|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 3  | <b>Puget Sound Energy, Inc.</b>  | <b>Rate Period</b>    | <b>2012</b>             | <b>2013</b>             | <b>2014</b>             | <b>2015</b>             |
| 4  |  |                       |                         |                         |                         |                         |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.00000</b>        | <b>1.01030</b>          | <b>1.02092</b>          | <b>1.02015</b>          | <b>1.02022</b>          |
| 6  |  |                       |                         |                         |                         |                         |
| 7  |  |                       |                         |                         |                         |                         |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 984,963,518</b> | <b>\$ 1,077,413,497</b> | <b>\$ 1,130,522,015</b> | <b>\$ 1,192,096,247</b> | <b>\$ 1,257,771,331</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 214,212,348</b> | <b>\$ 239,260,021</b>   | <b>\$ 246,383,859</b>   | <b>\$ 255,303,404</b>   | <b>\$ 264,436,542</b>   |
| 10 |  |                       |                         |                         |                         |                         |
| 11 |  |                       |                         |                         |                         |                         |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                       |                         |                         |                         |                         |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 9,353,824             | 9,353,824               | 9,353,824               | 9,353,824               | 9,353,824               |
| 14 | New Resource LT & IT Purchased Power (MWh)   | 518,592               |                         |                         |                         |                         |
| 15 | LT & IT Terminated Contracts (MWh)   |                       |                         |                         |                         |                         |
| 16 |  |                       |                         |                         |                         |                         |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>9,872,416</b>      | <b>9,872,416</b>        | <b>9,872,416</b>        | <b>9,872,416</b>        | <b>9,872,416</b>        |
| 18 |  |                       |                         |                         |                         |                         |
| 19 |  |                       |                         |                         |                         |                         |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | 7,810.00              | 7,810.00                | 7,810.00                | 7,810.00                | 7,810.00                |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                     | -                       | -                       | -                       | -                       |
| 22 | LT & IT Terminated Contracts (MWh)   | -                     | -                       | -                       | -                       | -                       |
| 23 |  |                       |                         |                         |                         |                         |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>7,810</b>          | <b>7,810</b>            | <b>7,810</b>            | <b>7,810</b>            | <b>7,810</b>            |
| 25 |  |                       |                         |                         |                         |                         |
| 26 |  |                       |                         |                         |                         |                         |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                       |                         |                         |                         |                         |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 414,421,162        | \$ 427,147,660          | \$ 436,085,677          | \$ 444,872,802          | \$ 453,870,351          |
| 29 | New Resource LT Purchases, Market (\$)   | \$ 41,992,987         | \$ 43,283,439           | \$ 44,189,140           | \$ 45,079,551           | \$ 45,991,285           |
| 30 | Contract Terminations, Market (\$)   | \$ -                  | \$ -                    | \$ -                    | \$ -                    | \$ -                    |
| 31 |  |                       |                         |                         |                         |                         |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 456,414,150</b> | <b>\$ 470,431,099</b>   | <b>\$ 480,274,817</b>   | <b>\$ 489,952,353</b>   | <b>\$ 499,861,636</b>   |
| 33 |  |                       |                         |                         |                         |                         |
| 34 |  |                       |                         |                         |                         |                         |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ 396,370            | \$ 408,543              | \$ 417,091              | \$ 425,496              | \$ 434,101              |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                  | \$ -                    | \$ -                    | \$ -                    | \$ -                    |
| 37 | <b>Total LT &amp; IT Sales for Resale (\$)</b>   | <b>\$ 396,370</b>     | <b>\$ 408,543</b>       | <b>\$ 417,091</b>       | <b>\$ 425,496</b>       | <b>\$ 434,101</b>       |
| 38 |  |                       |                         |                         |                         |                         |
| 39 |  |                       |                         |                         |                         |                         |

**TABLE G - PUGET SOUND ENERGY**  
**Appendix G**

|    | C  | D                     | E                     | F                     | G                     | H                     |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b>Puget Sound Energy, Inc.</b>  | <b>Rate Period</b>    | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |
| 4  |  |                       |                       |                       |                       |                       |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                       |                       |                       |                       |                       |
| 41 | Base Period ST Purchased Power (MWh)   | 9,619,746             | 9,619,746             | 9,619,746             | 9,619,746             | 9,619,746             |
| 42 | Cumulative CSL Load Growth (MWh)   | 1,449,569             | 2,105,268             | 2,519,730             | 2,969,824             | 3,439,482             |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>11,069,315</b>     | <b>11,725,014</b>     | <b>12,139,476</b>     | <b>12,589,570</b>     | <b>13,059,228</b>     |
| 44 |  |                       |                       |                       |                       |                       |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 1,074,481             | 363,239               | 0                     | 0                     | 0                     |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                     | 0                     | 0                     | 0                     | 0                     |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 1,074,481             | 363,239               | 0                     | 0                     | 0                     |
| 48 | Cumulative Net New Resources (MWh)   | 1,074,481             | 1,437,719             | 1,437,719             | 1,437,719             | 1,437,719             |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>9,994,834</b>      | <b>10,287,294</b>     | <b>10,701,756</b>     | <b>11,151,850</b>     | <b>11,621,509</b>     |
| 50 |  |                       |                       |                       |                       |                       |
| 51 |  |                       |                       |                       |                       |                       |
| 52 | New ST Sales for Resale (MWh)  | -                     | -                     | -                     | -                     | -                     |
| 53 | Base ST Sales for Resale (MWh)   | 4,422,562             | 4,422,562             | 4,422,562             | 4,422,562             | 4,422,562             |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>4,422,562</b>      | <b>4,422,562</b>      | <b>4,422,562</b>      | <b>4,422,562</b>      | <b>4,422,562</b>      |
| 55 |  |                       |                       |                       |                       |                       |
| 56 |  |                       |                       |                       |                       |                       |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                       |                       |                       |                       |                       |
| 58 | Total ST Purchases (MWh)   | 9,994,834             | 10,287,294            | 10,701,756            | 11,151,850            | 11,621,509            |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 52.88              | \$ 59.00              | \$ 60.76              | \$ 62.96              | \$ 65.22              |
| 60 |  |                       |                       |                       |                       |                       |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 528,549,368</b> | <b>\$ 606,982,398</b> | <b>\$ 650,247,198</b> | <b>\$ 702,143,894</b> | <b>\$ 757,909,696</b> |
| 62 |  |                       |                       |                       |                       |                       |
| 63 | Total ST Sales for Resale (MWh)  | 4,422,562             | 4,422,562             | 4,422,562             | 4,422,562             | 4,422,562             |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 48.35              | \$ 54.01              | \$ 55.62              | \$ 57.63              | \$ 59.69              |
| 65 |  |                       |                       |                       |                       |                       |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 213,815,978</b> | <b>\$ 238,851,478</b> | <b>\$ 245,966,767</b> | <b>\$ 254,877,909</b> | <b>\$ 264,002,441</b> |
| 67 |  |                       |                       |                       |                       |                       |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>4.42%</b>          |                       |                       |                       |                       |
| 69 |  |                       |                       |                       |                       |                       |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015</b>           |                       |
| 71 | Purchase Prices (\$/MWh)   | 59.00                 | 60.76                 | 62.96                 | 65.22                 |                       |
| 72 | Mid-Point Price (\$/MWh)   | 56.51                 | 58.19                 | 60.30                 | 62.46                 |                       |
| 73 | Sales Prices (\$/MWh)  | 54.01                 | 55.62                 | 57.63                 | 59.69                 |                       |
| 74 |  |                       |                       |                       |                       |                       |
| 75 |  |                       |                       |                       |                       |                       |
| 76 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                       |                       |                       |                       |                       |
| 77 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                       |                       |                       |                       |                       |
| 78 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                       |                       |                       |                       |                       |
| 79 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                       |                       |                       |                       |                       |

**TABLE H - SNOHOMISH  
Appendix G**

|    | C  | D                         | E                     | F                     | G                     | H                     |
|----|--|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3  | <b><u>Snohomish PUD</u></b>  | <b><u>Rate Period</u></b> | <b><u>2012</u></b>    | <b><u>2013</u></b>    | <b><u>2014</u></b>    | <b><u>2015</u></b>    |
| 4  |  |                           |                       |                       |                       |                       |
| 5  | <b>Inflation Factor Date-to-Date</b>   | <b>1.00000</b>            | <b>1.01030</b>        | <b>1.02092</b>        | <b>1.02015</b>        | <b>1.02022</b>        |
| 6  |  |                           |                       |                       |                       |                       |
| 7  |  |                           |                       |                       |                       |                       |
| 8  | <b>Total Purchased Power (\$)</b>  | <b>\$ 312,018,163</b>     | <b>\$ 340,759,644</b> | <b>\$ 353,235,418</b> | <b>\$ 366,048,486</b> | <b>\$ 379,524,945</b> |
| 9  | <b>Total Sale for Resale Credit (\$)</b>   | <b>\$ 65,199,332</b>      | <b>\$ 72,833,457</b>  | <b>\$ 75,003,137</b>  | <b>\$ 77,720,429</b>  | <b>\$ 80,502,791</b>  |
| 10 |  |                           |                       |                       |                       |                       |
| 11 |  |                           |                       |                       |                       |                       |
| 12 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER MWh and LT &amp; IT Sales for Resale MWh</b> |                           |                       |                       |                       |                       |
| 13 | Base Period LT & IT Purchased Power (MWh)  | 7,693,114                 | 7,693,114             | 7,693,114             | 7,693,114             | 7,693,114             |
| 14 | New Resource LT & IT Purchased Power (MWh)   | 666,025                   |                       |                       |                       |                       |
| 15 | LT & IT Terminated Contracts (MWh)   | (219,600)                 |                       |                       |                       |                       |
| 16 |  |                           |                       |                       |                       |                       |
| 17 | <b>Total LT &amp; IT Purchased Power (MWh)</b>   | <b>8,139,539</b>          | <b>8,139,539</b>      | <b>8,139,539</b>      | <b>8,139,539</b>      | <b>8,139,539</b>      |
| 18 |  |                           |                       |                       |                       |                       |
| 19 |  |                           |                       |                       |                       |                       |
| 20 | Base Period LT & IT Sales for Resale (MWh)   | -                         | -                     | -                     | -                     | -                     |
| 21 | New Resource LT & IT Sales for Resale (MWh)  | -                         | -                     | -                     | -                     | -                     |
| 22 | LT & IT Terminated Contracts (MWh)   | -                         | -                     | -                     | -                     | -                     |
| 23 |  |                           |                       |                       |                       |                       |
| 24 | <b>Total LT &amp; IT Sales for Resale (MWh)</b>  | <b>-</b>                  | <b>-</b>              | <b>-</b>              | <b>-</b>              | <b>-</b>              |
| 25 |  |                           |                       |                       |                       |                       |
| 26 |  |                           |                       |                       |                       |                       |
| 27 | <b>CALCULATION OF LT &amp; IT PURCHASED POWER \$ and LT &amp; IT Sales for Resale \$</b>   |                           |                       |                       |                       |                       |
| 28 | Base Case LT & IT Purchased Power, Market (\$)   | \$ 244,476,410            | \$ 251,984,059        | \$ 257,256,797        | \$ 262,440,521        | \$ 267,748,378        |
| 29 | New Resource LT Purchases, Market (\$)   | \$ 56,289,904             | \$ 58,019,703         | \$ 59,233,759         | \$ 60,427,319         | \$ 61,649,461         |
| 30 | Contract Terminations, Market (\$)   | \$ (22,995,000)           | \$ (22,995,000)       | \$ (22,995,000)       | \$ (22,995,000)       | \$ (22,995,000)       |
| 31 |  |                           |                       |                       |                       |                       |
| 32 | <b>Total LT &amp; IT Purchases, Market (\$)</b>  | <b>\$ 277,771,314</b>     | <b>\$ 287,008,762</b> | <b>\$ 293,495,556</b> | <b>\$ 299,872,839</b> | <b>\$ 306,402,839</b> |
| 33 |  |                           |                       |                       |                       |                       |
| 34 |  |                           |                       |                       |                       |                       |
| 35 | Base Case LT & IT Sales for Resale (\$)  | \$ -                      | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 36 | New Resource Total Firm Sales for Resale (\$)  | \$ -                      | \$ -                  | \$ -                  | \$ -                  | \$ -                  |
| 37 | <b>Total LT &amp; IT Sales for Resale \$</b>   | <b>\$ -</b>               | <b>\$ -</b>           | <b>\$ -</b>           | <b>\$ -</b>           | <b>\$ -</b>           |
| 38 |  |                           |                       |                       |                       |                       |
| 39 |  |                           |                       |                       |                       |                       |

**TABLE H - SNOHOMISH  
Appendix G**

|    | C  | D                         | E                    | F                    | G                    | H                    |
|----|--|---------------------------|----------------------|----------------------|----------------------|----------------------|
| 3  | <b><u>Snohomish PUD</u></b>  | <b><u>Rate Period</u></b> | <b><u>2012</u></b>   | <b><u>2013</u></b>   | <b><u>2014</u></b>   | <b><u>2015</u></b>   |
| 4  |  |                           |                      |                      |                      |                      |
| 40 | <b>CALCULATION OF ST PURCHASED POWER MWh and ST Sales for Resale MWh</b>   |                           |                      |                      |                      |                      |
| 41 | Base Period ST Purchased Power (MWh)   | 889,352                   | 889,352              | 889,352              | 889,352              | 889,352              |
| 42 | Cumulative CSL Load Growth (MWh)   | 288,201                   | 440,087              | 508,665              | 573,091              | 639,745              |
| 43 | <b>Base Short Term Purchases Plus Load Growth (MWh)</b>  | <b>1,177,553</b>          | <b>1,329,439</b>     | <b>1,398,017</b>     | <b>1,462,443</b>     | <b>1,529,097</b>     |
| 44 |  |                           |                      |                      |                      |                      |
| 45 | 1/ & 2/ New Resource Total Annual Generation (MWh)   | 565,175                   | (100,850)            | 0                    | 0                    | 0                    |
| 46 | 3/ & 4/ New Resource Total Firm Sales for Resale (MWh)   | 0                         | 0                    | 0                    | 0                    | 0                    |
| 47 | New Resource Less Firm Sales for Resale (MWh)  | 565,175                   | (100,850)            | 0                    | 0                    | 0                    |
| 48 | Cumulative Net New Resources (MWh)   | 565,175                   | 464,325              | 464,325              | 464,325              | 464,325              |
| 49 | <b>Total ST Purchases (MWh)</b>  | <b>612,378</b>            | <b>865,114</b>       | <b>933,692</b>       | <b>998,117</b>       | <b>1,064,771</b>     |
| 50 |  |                           |                      |                      |                      |                      |
| 51 |  |                           |                      |                      |                      |                      |
| 52 | New ST Sales for Resale (MWh)  | -                         | -                    | -                    | -                    | -                    |
| 53 | Base ST Sales for Resale (MWh)   | 1,480,494                 | 1,480,494            | 1,480,494            | 1,480,494            | 1,480,494            |
| 54 | <b>Total ST Sales for Resale (MWh)</b>   | <b>1,480,494</b>          | <b>1,480,494</b>     | <b>1,480,494</b>     | <b>1,480,494</b>     | <b>1,480,494</b>     |
| 55 |  |                           |                      |                      |                      |                      |
| 56 |  |                           |                      |                      |                      |                      |
| 57 | <b>CALCULATION OF ST PURCHASED POWER \$ and ST Sales for Resale \$</b>   |                           |                      |                      |                      |                      |
| 58 | Total ST Purchases (MWh)   | 612,378                   | 865,114              | 933,692              | 998,117              | 1,064,771            |
| 59 | ST Purchase Power Price (\$/MWh)   | \$ 55.92                  | \$ 62.13             | \$ 63.98             | \$ 66.30             | \$ 68.67             |
| 60 |  |                           |                      |                      |                      |                      |
| 61 | <b>Total ST Purchases (\$)</b>   | <b>\$ 34,246,849</b>      | <b>\$ 53,750,883</b> | <b>\$ 59,739,862</b> | <b>\$ 66,175,647</b> | <b>\$ 73,122,106</b> |
| 62 |  |                           |                      |                      |                      |                      |
| 63 | Total ST Sales for Resale (MWh)  | 1,480,494                 | 1,480,494            | 1,480,494            | 1,480,494            | 1,480,494            |
| 64 | ST Sales Power Price (\$/MWh)  | \$ 44.04                  | \$ 49.20             | \$ 50.66             | \$ 52.50             | \$ 54.38             |
| 65 |  |                           |                      |                      |                      |                      |
| 66 | <b>Total ST Sales for Resale (\$)</b>  | <b>\$ 65,199,332</b>      | <b>\$ 72,833,457</b> | <b>\$ 75,003,137</b> | <b>\$ 77,720,429</b> | <b>\$ 80,502,791</b> |
| 67 |  |                           |                      |                      |                      |                      |
| 68 | <b>Price Spread (Plus/Minus, %)</b>  | <b>11.62%</b>             |                      |                      |                      |                      |
| 69 |  |                           |                      |                      |                      |                      |
| 70 | <b>Fiscal Year Purchase/Sales Prices</b>   | <b>2012</b>               | <b>2013</b>          | <b>2014</b>          | <b>2015</b>          |                      |
| 71 | <b>Purchase Prices (\$/MWh)</b>  | <b>62.13</b>              | <b>63.98</b>         | <b>66.30</b>         | <b>68.67</b>         |                      |
| 72 | <b>Mid-Point Price (\$/MWh)</b>  | <b>55.66</b>              | <b>57.32</b>         | <b>59.40</b>         | <b>61.52</b>         |                      |
| 73 | <b>Sales Prices (\$/MWh)</b>   | <b>49.20</b>              | <b>50.66</b>         | <b>52.50</b>         | <b>54.38</b>         |                      |
| 74 |  |                           |                      |                      |                      |                      |
| 75 |  |                           |                      |                      |                      |                      |
| 76 | 1/ Rate Period Total new resource MWhs equals sum of all new resources MWhs prior to start of rate period plus 1/2 new resource MWhs during rate period                                      |                           |                      |                      |                      |                      |
| 77 | 2/ FY 2012 new resource MWhs equals 1/2 new resource MWhs added during rate period   |                           |                      |                      |                      |                      |
| 78 | 3/ Rate Period Total Sales for Resale MWh equals sum of all new resources sales for resale MWhs prior to start of rate period plus 1/2 new resource sales for resale MWhs during rate period |                           |                      |                      |                      |                      |
| 79 | 4/ FY 2012 Sales for Resale MWh equals 1/2 of new resource sales for resale MWhs added during rate period  |                           |                      |                      |                      |                      |



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