

April 2, 2007

***VIA HAND DELIVERY AND
ELECTRONIC FILING***

Oregon Public Utility Commission
550 Capitol Street NE, Suite 215
Salem, OR 97310-2551

Attn: Vikie Bailey Goggins

Re: Advice No. 07-011, PacifiCorp's 2008 Transition Adjustment Mechanism (TAM)

Enclosed for filing is PacifiCorp's 2008 Transition Adjustment Mechanism. This filing is in compliance with Commission Order No. 05-1050 in Docket UE 170. The testimony and exhibits contained in this filing address the OAR Division 22 requirements for filing tariffs or schedules that change rates. A signed original letter and five (5) copies will be provided.

PacifiCorp waives paper service in this docket and requests that communications on this filing be addressed to:

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825 NE Multnomah Street, Ste 2000
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Additionally, PacifiCorp respectfully requests that all data requests regarding this matter be addressed to:

By email (preferred)

datarequest@pacificorp.com

By regular mail

Data Requests Response Center
PacifiCorp
825 NE Multnomah, Suite 2000
Portland, OR 97232

By facsimile

(503) 813-6060

PacifiCorp
Advice No. 07-011
April 2, 2007
Page 2

A copy of this filing has been served on all parties to PacifiCorp's last general rate case, UE 179, as indicated on the attached certificate of service.

Very truly yours,

Handwritten signature of Andrea L. Kelly in cursive script, followed by a period.

Andrea L. Kelly
Vice President, Regulation

Enclosures
cc: UE 179 Service List

I hereby certify that on this 2nd day of April, 2007, I caused to be served, via E-Mail and Overnight Delivery (to those parties who have not waived paper service), a true and correct copy of PacifiCorp's 2008 Transition Adjustment Mechanism Advice No. 07-011 to the following:

| | |
|---|--|
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| | |
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Peggy Ryan
Supervisor Regulatory Administration

**BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON**

PACIFICORP

2008 TRANSITION ADJUSTMENT MECHANISM (TAM)

Direct Testimony and Exhibits

April 2007

Case UE-
Exhibit PPL/100
Witness: Andrea L. Kelly

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Direct Testimony of Andrea L. Kelly

POLICY

April 2007

1 **Q. Please state your name, business address and present position with**
2 **PacifiCorp, dba Pacific Power & Light Company (the Company).**

3 A. My name is Andrea L. Kelly. My business address is 825 NE Multnomah St.,
4 Suite 2000, Portland, OR 97232. I am employed by PacifiCorp as Vice President
5 of Regulation.

6 **Qualifications**

7 **Q. Briefly describe your education and business experience.**

8 A. I hold a Bachelor's degree in Economics from the University of Vermont and an
9 MBA in Environmental and Natural Resource Management from the University
10 of Washington. After graduate school, I joined the Staff of the Washington
11 Utilities and Transportation Commission. In 1995, I became employed by
12 PacifiCorp as a Senior Pricing Analyst in the Regulation Department and
13 advanced through positions of increasing responsibility. From 1999 to 2005, I led
14 major strategic projects at PacifiCorp including the Multi-State Process (MSP)
15 and the regulatory approvals for the MidAmerican-PacifiCorp transaction. In
16 March 2006, I was appointed Vice President of Regulation.

17 **Q. Have you appeared as a witness in previous regulatory proceedings?**

18 A. Yes. I have appeared as a witness on behalf of PacifiCorp in the states of Oregon,
19 Idaho, Utah, Washington and Wyoming. In addition, I sponsored testimony in
20 various proceedings as a member of the Washington Commission Staff.

21 **Purpose of Testimony**

22 **Q. What is the purpose of your testimony in this proceeding?**

23 A. The purpose of my testimony is to present an overview of PacifiCorp's 2008

1 Transition Adjustment Mechanism (TAM) filing and net power costs update.

2 Specifically, my testimony:

- 3 • Summarizes the purpose and contents of the filing,
- 4 • Explains how the filing comports with previous Commission orders and
5 the all-party stipulation in PacifiCorp's most recent general rate case,
6 Docket UE 179,
- 7 • Describes, at a high level, the calculation of the Transition Adjustment
8 and the amount of the change in net power costs for the forecast test
9 period, calendar year 2008, on an Oregon-allocated basis,
- 10 • Explains the updated allocation factors used to determine Oregon's
11 allocated share, and
- 12 • Introduces the Company's other witnesses.

13 **Summary of PacifiCorp's 2008 TAM Filing**

14 **Q. Why is the Company making this filing?**

15 A. The Commission's final order, Order No. 05-1050, in Docket UE 170 adopted
16 PacifiCorp's permanent TAM. PacifiCorp's approved TAM uses PacifiCorp's
17 GRID model to set the Transition Adjustment for direct access through an annual
18 power cost filing and a series of updates to reset rates. Pursuant to the
19 Commission's order in UE 170, the Company's annual power cost filing is due
20 each April. The Company is submitting the current filing in compliance with that
21 order.

22 **Q. How does this filing comport with previous Commission orders?**

23 A. PacifiCorp's TAM, as adopted by the Commission, requires PacifiCorp's annual

1 TAM filing and net power cost update to include testimony and exhibits
2 providing PacifiCorp's estimated net power costs, the Transition Adjustment
3 calculation, and GRID model updates. Specifically, the net power cost estimate
4 incorporates the following updates: (1) forward price curve; (2) forecast loads;
5 (3) normalized hydro generation; (4) forecast fuel prices; (5) contract updates; (6)
6 heat rates, planned outages, and de-rates; (7) wheeling expenses; (8) new resource
7 acquisitions; and (9) state allocation factors. Additionally, the testimony must
8 include an explanation of the primary drivers of variations in net power costs
9 since the last approved filing, a comparison of existing and estimated customer
10 rates, and a review of PacifiCorp's compliance with prior Commission orders.
11 Each of these elements is included in this filing, or in the case of the actual
12 Transition Adjustment calculation, will be filed when the information is available.

13 **Q. Does this filing comply with the settlement in the Company's most recent**
14 **general rate case?**

15 A. Yes. The stipulation agreed upon by the parties in Docket UE 179 and approved
16 by the Commission in Order No. 06-530 included agreement to an Oregon-
17 allocated cap on the net power cost update of \$10 million for the 2007 TAM. It
18 did not cap or otherwise alter the calculation of the Transition Adjustment or net
19 power cost update for years subsequent to 2007. In addition, while the settlement
20 included a general rate case stay-out through September 2007, it specifically
21 excluded the Company's 2007 filing for its 2008 TAM from this stay-out.

1 **Schedule of Filings**

2 **Q. Please describe the schedule of PacifiCorp filings for the Transition**

3 **Adjustment in this case.**

4 A. As adopted in Order 05-1050, the Company's annual Transition Adjustment filing
5 and net power cost update includes additional filings in July, October and
6 November. Mr. Widmer's testimony describes the items that will be addressed in
7 the additional filings. The Company expects that the exact dates for these filings,
8 as well as other procedural milestones, will be determined by the Commission at
9 the scheduling hearing in this proceeding.

10 **2008 TAM Calculation and Net Power Cost Update**

11 **Q. Please summarize briefly PacifiCorp's Transition Adjustment calculation.**

12 A. At the highest level, PacifiCorp's TAM is the difference between the weighted
13 market value of the energy previously used to serve Direct Access customers and
14 the cost of service rate under the customers' specific, energy-only tariff
15 schedules. To determine the value of the energy previously used to serve
16 departing customers, PacifiCorp runs two studies using its GRID model for each
17 customer class. The base study optimizes PacifiCorp's system with the full
18 expected load for the next calendar year. The second study re-optimizes the
19 system with a 25 MW reduction in Oregon load. PacifiCorp then compares the
20 two studies to determine the weighted market value of the energy associated with
21 departing Direct Access load. Any variance greater than \$250,000 between the
22 assumed 25 MW and the actual amount of Direct Access participation is captured
23 through a balancing account.

1 **Q. What is the estimated amount of the increase in net power costs upon which**
2 **the Transition Adjustment will be based for calendar year 2008?**

3 A. On an Oregon-allocated basis, the Company's forecasted normalized net power
4 costs for calendar year 2008 are approximately \$253 million. This is
5 approximately \$36 million higher than the net power costs in Oregon rates for
6 2007. As explained in Ms. Ridenour's testimony, this would result in an overall
7 increase to net rates of approximately 3.9 percent.

8 **Update of Inter-jurisdictional Allocation Factors**

9 **Q. Has the Company used updated Oregon allocation factors in its TAM filing?**

10 A. Yes. The estimate of net power costs reflects changes in the Company's retail
11 loads and resources. Given these changes, it is necessary to update inter-
12 jurisdictional allocation factors in order to properly allocate system-wide net
13 power costs.

14 **Q. What is the effect of updating the allocation factors in connection with this**
15 **filing?**

16 A. The use of updated allocation factors significantly reduces the level of the power
17 cost increase allocated to Oregon. Without this update to the allocation factors,
18 Oregon's TAM increase for 2008 would be approximately \$9 million higher.

19 **Q. Please describe Exhibit PPL/101.**

20 A. Exhibit PPL/101 is a table titled "Allocated NPC to Oregon for TAM." The table
21 shows: (1) total Company net power costs by account for sales for resale,
22 purchased power, wheeling expense and fuel expense for UE 179 and for calendar
23 year 2008; (2) the allocation factors used in UE 179 and the updated allocation

1 factors for calendar year 2008; and (3) the Oregon-allocated net power costs for
2 each account category based on the allocation factors used in UE 179 and the
3 factors for calendar year 2008.

4 **Introduction of Witnesses**

5 **Q. Please list the Company witnesses and provide a brief explanation of the**
6 **witnesses' testimony.**

7 A. The other Company witnesses filing direct testimony are:

8 **Mark T. Widmer**, Director, Net Power Costs, presents the Company's proposed
9 2008 TAM net power costs. He describes the primary drivers of variations in net
10 power costs since UE 179, the general operation of the GRID model, and the
11 updates to the model included in GRID version 6.1. Mr. Widmer also sponsors
12 the model outputs.

13 **Judith M. Ridenour**, Senior Analyst, Pricing & Cost of Service, presents the
14 Company's proposed prices and tariffs and provides a comparison of existing and
15 estimated customer rates.

16 **Q. Does this conclude your direct testimony?**

17 A. Yes.

Case UE-
Exhibit PPL/101
Witness: Andrea L. Kelly

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Andrea L. Kelly
ALLOCATED NPC TO OREGON FOR TAM

April 2007

Allocated NPC to Oregon for TAM

| | ACCOUNT | TOTAL COMPANY | | | FACTOR | | OREGON | |
|----------------------------------|---------|----------------------|----------------------|-------|---------|---------|--------------------------------|--------------------|
| | | UE-179 | CY 2008 | | UE-179 | CY 2008 | UE-179 | CY 2008 |
| Sales for Resale | | | | | | | | |
| Existing Firm PPL | 447 | 23,123,175 | 23,110,642 | SG | 26.628% | 25.977% | 6,157,211 | 6,003,550 |
| Existing Firm UPL | 447 | 26,117,156 | 26,154,379 | SG | 26.628% | 25.977% | 6,954,444 | 6,794,234 |
| Post-Merger Firm | 447 | 1,094,616,116 | 1,318,759,054 | SG | 26.628% | 25.977% | 291,473,037 | 342,579,648 |
| Non-Firm | 447 | - | - | SE | 26.173% | 25.465% | - | - |
| Total Sales for Resale | | 1,143,856,447 | 1,368,024,075 | | | | 304,584,692 | 355,377,432 |
| Purchased Power | | | | | | | | |
| Existing Firm Demand PPL | 555 | 63,649,124 | 76,033,224 | SG | 26.628% | 25.977% | 16,948,411 | 19,751,474 |
| Existing Firm Demand UPL | 555 | 47,595,741 | 49,730,218 | SG | 26.628% | 25.977% | 12,673,736 | 12,918,630 |
| Existing Firm Energy | 555 | 78,021,182 | 83,752,187 | SE | 26.173% | 25.465% | 20,420,221 | 21,327,820 |
| Post-merger Firm | 555 | 947,713,159 | 1,074,187,128 | SG | 26.628% | 25.977% | 252,355,897 | 279,046,159 |
| Secondary Purchases | 555 | - | - | SE | 26.173% | 25.465% | - | - |
| Seasonal Contracts | 555 | 44,235,280 | 9,221,790 | SSGC | 23.825% | 23.563% | 10,539,251 | 2,172,918 |
| Total Purchased Power | | 1,181,214,486 | 1,292,924,547 | | | | 312,937,516 | 335,217,001 |
| Wheeling Expense | | | | | | | | |
| Existing Firm PPL | 565 | 42,039,735 | 34,426,827 | SG | 26.628% | 25.977% | 11,194,289 | 8,943,203 |
| Existing Firm UPL | 565 | 198,710 | 157,430 | SG | 26.628% | 25.977% | 52,912 | 40,896 |
| Post-merger Firm | 565 | 48,368,652 | 72,828,352 | SG | 26.628% | 25.977% | 12,879,545 | 18,918,931 |
| Non-Firm | 565 | 446,477 | 307,719 | SE | 26.173% | 25.465% | 116,855 | 78,362 |
| Total Wheeling Expense | | 91,053,574 | 107,720,328 | | | | 24,243,602 | 27,981,392 |
| Fuel Expense | | | | | | | | |
| Fuel Consumed - Coal | 501 | 447,180,849 | 489,930,407 | SE | 26.173% | 25.465% | 117,039,135 | 124,762,683 |
| Fuel Consumed - Gas | 501 | 10,766,277 | 23,414,773 | SE | 26.173% | 25.465% | 2,817,821 | 5,962,663 |
| Steam from Other Sources | 503 | 4,879,874 | 4,429,953 | SE | 26.173% | 25.465% | 1,277,193 | 1,128,105 |
| Natural Gas Consumed | 547 | 165,059,567 | 371,316,268 | SE | 26.173% | 25.465% | 43,200,484 | 94,557,131 |
| Simple Cycle Combustion Turbines | 547 | 34,791,053 | 28,436,425 | SSECT | 25.738% | 23.496% | 8,954,668 | 6,681,432 |
| Cholla / APS Exchange | 501 | 48,262,912 | 52,849,931 | SSECH | 26.731% | 23.496% | 12,901,207 | 12,417,638 |
| Total Fuel Expense | | 710,940,533 | 970,377,757 | | | | 186,190,508 | 245,509,651 |
| Impact of Cap in UE-179 | | (4,952,146) | | /1 | 26.400% | | (1,307,380) | |
| Net Power Cost | | 834,400,000 | 1,002,998,558 | | | | 217,479,553 | 253,330,612 |
| | | | | | | | Difference from UE-179: | 35,851,059 |

Note:

/1 weighted 50%SG / 50%SE: (26.628% + 26.173%)/2

Case UE-
Exhibit PPL/200
Witness: Mark T. Widmer

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Direct Testimony of Mark T. Widmer

NET POWER COSTS

April 2007

1 **Q. Please state your name, business address and present position with**
2 **PacifiCorp, dba Pacific Power and Light Company (the Company).**

3 A. My name is Mark T. Widmer, my business address is 825 NE Multnomah St.,
4 Suite 600, Portland, Oregon 97232, and my present title is Director, Net Power
5 Costs.

6 **Qualifications**

7 **Q. Briefly describe your education and business experience.**

8 A. I received an undergraduate degree in Business Administration from Oregon State
9 University. I have worked for PacifiCorp since 1980 and have held various
10 positions in the power supply and regulatory areas. I was promoted to my present
11 position in September 2004.

12 **Q. Please describe your current duties.**

13 A. I am responsible for the coordination and preparation of net power cost and
14 related analyses used in retail price filings. In addition, I represent PacifiCorp on
15 power resource and other various issues with intervenor and regulatory groups in
16 the six state regulatory commissions which have jurisdiction over PacifiCorp.

17 **Summary of Testimony**

18 **Q. Will you please summarize your testimony?**

19 A. I present the Company's proposed 2008 Transition Adjustment Mechanism
20 (TAM) net power costs. In addition, my testimony:

- 21 • Describes the primary drivers of the increase in the Company's net power
22 costs.
23 • Describes the Generation and Regulation Initiatives Decision Tools (GRID)

1 model and the updates to it used to calculate the net power costs in this filing.
2 • Sponsors as an exhibit the GRID model Net Power Cost report that supports
3 this filing.

4 **Net Power Cost Results and Primary Cost Drivers**

5 **Q. What are the forecasted normalized system-wide net power costs for the test**
6 **period?**

7 A. The Company's total forecasted normalized system-wide net power costs for the
8 test period (12 months ended December 31, 2008) are approximately \$1.002
9 billion.

10 **Q. How do the 2008 system-wide net power costs compare with the level**
11 **currently included in rates?**

12 A. The Company's 2008 system-wide net power costs are approximately \$168
13 million higher than the \$834 million included in current rates through the 2007
14 TAM.

15 **Q. What are the primary drivers of the increase in net power costs?**

16 A. The five primary drivers of the cost increases are higher coal prices, higher gas
17 costs, the expiration of the 2007 TAM cap, expiring purchase power contracts and
18 system load growth.

19 **Q. Please explain PacifiCorp's coal fuel price increases.**

20 A. The coal price increases at our generation facilities are being driven by a variety
21 of factors, including normal increases in contract price indices and the impact of
22 contract re-openers, market price increases for Powder River Basin coal, the
23 acquisition of higher-priced compliance coal necessary to meet environmental

1 standards, and increases in union labor costs.

2 **Q. Have coal costs been increasing throughout the electric utility industry?**

3 A. Yes. The *Fall 2006 Long-Term Outlook For Coal and Competing Fuels* report
4 from Energy Ventures Analysis found:

5 On the supply side, there has been a step increase in production costs.
6 Declining productivity is responsible for much of the increase. Declining
7 productivity has been caused by such factors as the high market price,
8 deteriorating reserve conditions, and the introduction of new,
9 inexperienced workers. Other factors have also contributed to higher
10 costs such as higher labor costs, higher supply costs, and higher costs for
11 safety compliance, bonding, permitting, mineral and insurance. While
12 some of these factors are expected to moderate with a return to market
13 equilibrium, the stark reality is that the floor in coal prices has
14 substantially increased.

15
16 **Q. Please explain the sources of the increase in PacifiCorp's gas costs.**

17 A. Gas prices have generally trended sharply upward over the last several years, but
18 they remain volatile, with price spikes and price softening. This makes hedging
19 to manage extreme gas price changes an important risk mitigation tool.
20 PacifiCorp's gas costs reflect market prices, plus cost increases or decreases to
21 reflect PacifiCorp's hedged position. In PacifiCorp's 2007 TAM, PacifiCorp's
22 hedged position decreased its gas costs; PacifiCorp's 2008 TAM reflects gas costs
23 that are somewhat higher because of PacifiCorp's hedged position. PacifiCorp's
24 gas costs for 2007 were hedged before Hurricane Katrina-related market price
25 increases; PacifiCorp's 2008 natural gas costs were hedged after the market
26 volatility caused by Hurricane Katrina.

1 **Q. How was the level of net power costs for 2007 impacted by the \$10 million**
2 **cap on the 2007 TAM increase?**

3 A. Absent the cap, which applied only to the 2007 TAM, total system net power
4 costs for 2007 would have been approximately \$40 million higher based upon the
5 updates contained in PacifiCorp's final 2007 TAM filing. Thus, when comparing
6 the magnitude of the 2008 net power cost forecast of \$1.002 billion with the 2007
7 TAM of \$834.4 million, it is important to keep in mind the additional \$40 million
8 of 2007 net power costs that were not recovered through the 2007 TAM.

9 **Q. Why do expiring purchase power contracts increase net power costs?**

10 A. The Company's purchase power contracts generally reflect wholesale electric
11 market prices at the time they were executed. As wholesale electric market prices
12 increase, the cost of replacement power increases when a contract expires.
13 PacifiCorp's 2008 TAM reflects the impact of the expiration of various contracts,
14 including the 400 MW TransAlta contract, and the increased costs of replacement
15 power associated with these expiring contracts.

16 **Q. How does increased demand impact the Company's 2008 power costs?**

17 A. This filing reflects an increase of 2.8 percent over loads currently reflected in
18 rates. As explained by Ms. Kelly, however, the impact of load growth on this
19 filing is mitigated by application of updated allocation factors which reduce
20 Oregon's proportionate share of system power costs.

1 **Q. Are the cost increases in PacifiCorp's 2008 TAM partially offset by the**
2 **inclusion of the relatively low variable costs from a new thermal plant**
3 **expected to be in service during the test period?**

4 A. Yes. The 2008 net power costs reflect the addition of the 525 MW Lakeside
5 combined cycle combustion turbine ("CCCT") facility which is expected to be
6 fully in service by the end of June 2007. The capital costs of this facility were not
7 included in the Company's last general rate case because it was not in service at
8 the start of the rate period. Therefore, Oregon customers will only pay the
9 relatively low variable costs associated with this resource until the capital costs of
10 the resource are included in rates in the Company's next general rate case.

11 **Q. Are the cost increases in PacifiCorp's 2008 TAM partially offset by the**
12 **inclusion of the variable costs from renewable energy facilities expected to be**
13 **in service during the test period?**

14 A. Yes. The net power costs include forecasted kWh output of 56 MW Goodnoe
15 West and 56 MW Goodnoe East wind generation facilities located in Oregon,
16 which will be in service December 2007, and the 140 MW Marengo wind
17 generation facility located in Washington, which is presently expected to be in
18 service July 2007. The net power costs also continue to include the forecasted
19 output of the 100 MW Leaning Juniper wind facility that came on line in Fall
20 2006. Because PacifiCorp owns the wind facilities, the variable cost of the kWh
21 included in the net power costs is zero. Thus, customers will be receiving the
22 benefits of these zero cost kWhs via the TAM. If additional renewable resources
23 are acquired and expected to be in-service prior to the start of the test year, the

1 Company will update its net power costs estimates to include these resources as
2 contemplated by the TAM methodology.

3 **Q. Are customers paying any of the capacity or fixed costs of the 877 MW from**
4 **these new thermal and renewable energy facilities?**

5 A. No, the capacity and fixed costs of ownership of these facilities have not yet been
6 included in rates and are not currently being recovered through the TAM or other
7 adjustment mechanism. This creates a mismatch of costs and benefits.

8 **Q. Please describe the process for updating net power cost estimates in the**
9 **remainder of this proceeding.**

10 A. At the end of July, the Company will file to update net power costs to reflect:
11 (1) the current forward price curve, (2) new contracts and/or updates for
12 wholesale sales, purchases, fuel and wheeling expenses. In October, prior to the
13 posting of indicative prices, the Company will update net power costs to reflect
14 changes to Commission-ordered net power costs, the current forward price curve,
15 new contracts and/or updates for wholesale sales, purchases, fuel and wheeling
16 expenses through September 15. In November, just prior to the direct access open
17 enrollment window, the Company will produce a final GRID study incorporating
18 its most recent forward price curve. This final GRID study will establish the
19 Transition Adjustment and total Company net power costs for calendar year 2008.

20 **Determination of Net Power Costs Using GRID Version 6.1**

21 **Q. Please explain net power costs.**

22 A. Net power costs are defined as the sum of fuel expenses, wholesale purchase
23 power expenses and wheeling expenses, less wholesale sales revenue.

1 **Q. Please explain how the Company calculates net power costs.**

2 A. Net power costs are calculated for a future test period based on projected data
3 using the GRID model. For each hour in the forecast period the model simulates
4 the operation of the power supply portion of the Company under a variety of
5 stream flow conditions. The results obtained from the various stream flow
6 conditions are averaged and the appropriate cost data is applied to determine an
7 expected net power cost under normal stream flow and weather conditions for the
8 forecast period.

9 **Q. Is the Company's general approach to the calculation of net power costs
10 using the GRID model the same in this case as in previous cases?**

11 A. Yes. The Company has used the GRID model in its last several rate case filings
12 in Oregon. My testimony in the Company's last general rate case, Oregon Docket
13 UE 179, includes an extensive explanation of the GRID model, the inputs used to
14 develop net power costs and the model output. Because none of this general
15 background on the GRID has changed since UE 179, instead of including GRID
16 background testimony in this case, I will refer parties who are interested in this
17 background to my previous testimony in UE 179.

18 **Q. Is the Company using an updated version of the GRID model as compared to
19 Oregon Docket UE 179?**

20 A. Yes. In advance of this filing, the Company notified the Industrial Customers of
21 Northwest Utilities, Citizens' Utility Board and Staff of its intention to use GRID
22 version 6.1 for its 2008 TAM filing. No party objected to its use for the initial
23 filing; however, parties reserved the right to review the updated version to ensure

1 that the changes are consistent with the intent of the TAM.

2 **Q. Please generally describe the improvements in the GRID model reflected in**
3 **version 6.1.**

4 A. GRID Release 6.1 provides greater precision in commitment logic, enhanced heat
5 rate data series functionality and enhanced functionality for greater analyst
6 efficiency. On balance, these improvements result in a slight decrease to the
7 Company's net power costs. The Company provided a detailed description of the
8 code changes to Oregon stakeholders when GRID Release 6.1 was placed into
9 production.

10 **Q. Please explain these three changes to the GRID model in more detail,**
11 **including whether they impact net power costs.**

12 A. The first is a change in commitment logic, so that if the marginal unit's reference
13 market is illiquid, the model does not calculate a reserve credit. This change has
14 only a minimal impact on power costs.

15 The second change replaces the Thermal Heat Rate data series with a Heat
16 Rate Coefficient data series. The model calculates the heat rate curve within the
17 model. The new data series is a timed attribute data series. This allows the
18 analyst to change Huntington Unit 2's curve to reflect the impact of the new
19 scrubber without maintaining two different data series. Again, the change has
20 only minimal impact on power costs.

21 The third change generally improves the functionality of the model by
22 enhancing security for projects with "locked" scenarios, providing an MMBtu
23 report and providing financial reports with finer granularity in LTC cost

1 reporting. These model changes have no impact on net power costs.

2 **GRID Model Inputs**

3 **Q. What inputs were updated for this filing?**

4 A. The net system load, wholesale sales and purchase power expenses, wheeling
5 expenses, market prices for natural gas and electricity, fuel expenses, hydro
6 generation, thermal heat rates, thermal planned maintenance and outages inputs
7 were updated for this filing.

8 **GRID Model Outputs**

9 **Q. What reports does the GRID model produce?**

10 A. The major output from the GRID model is the Net Power Cost report. This is
11 attached to my testimony as Exhibit PPL/201. Additional data with more detailed
12 analyses are also available in hourly, daily, monthly and annual formats by heavy
13 load hours and light load hours.

14 **Q. Please describe Exhibit PPL/202.**

15 A. This Exhibit is a schedule of the Company's major sources of energy supply by
16 major source of supply, expressed in average megawatts owned and contracted for
17 by the Company to meet system load requirements, for the test period. The total
18 shown on line 11 represents the total future usage of resources during the forecast
19 period to serve system load. Line 12 consists of wholesale sales made to
20 neighboring utilities within the Pacific Northwest, the Pacific Southwest, and the
21 Desert Southwest as calculated from the production cost model study. Line 13
22 represents the Company's total system load net of special sales.

1 **Q. Please describe Exhibit PPL/203.**

2 A. This Exhibit lists the major sources of future peak generation capability for the
3 Company's winter and summer peak loads and the Company's energy load for the
4 test period.

5 **Q. Do you believe that the GRID model appropriately reflects the Company's**
6 **forecasted net power costs over the test period?**

7 A. Yes. The GRID model appropriately simulates the operation of the Company's
8 system over a variety of stream flow and market conditions consistent with the
9 Company's operation of its system including operating constraints and
10 requirements.

11 **Q. Does this conclude your direct testimony?**

12 A. Yes.

Case UE-
Exhibit PPL/201
Witness: Mark T. Widmer

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Mark T. Widmer

NET POWER COST ANALYSIS

April 2007

Oregon TAM 2007Mar20

Net Power Cost Analysis

PacifiCorp
Generic Study
Period Ending Dec 2008

| | 01/08-12/08 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
|---------------------------------------|---------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Special Sales For Resale | | | | | | | | | | | | | |
| Long Term Firm Sales | 10,108,841 | 852,956 | 825,480 | 850,177 | 837,080 | 842,389 | 828,085 | 853,119 | 849,740 | 836,872 | 846,784 | 832,648 | 853,512 |
| Black Hills | 1,551,918 | 195,753 | 142,002 | 167,537 | 111,620 | 110,231 | 83,386 | 61,011 | 71,919 | 94,591 | 123,665 | 187,057 | 203,145 |
| BPA Wind | 26,154,379 | 2,051,058 | 1,960,567 | 2,051,058 | 2,095,484 | 2,298,400 | 2,261,666 | 2,216,509 | 2,244,177 | 2,182,342 | 2,215,460 | 2,452,748 | 2,124,910 |
| LADWP (IPP Layoff) | 62,650,632 | 5,411,748 | 5,163,488 | 5,272,899 | 5,000,681 | 5,118,113 | 5,000,660 | 5,411,748 | 5,411,748 | 5,286,288 | 5,160,823 | 5,000,660 | 5,411,748 |
| PSCO | 13,621,434 | 1,215,000 | 1,106,400 | 1,098,602 | 967,044 | 1,005,836 | 1,023,165 | 1,284,912 | 1,349,676 | 1,228,823 | 1,061,315 | 1,079,468 | 1,201,294 |
| Salt River Project | 33,881,068 | 3,083,126 | 2,960,481 | 2,951,047 | 2,599,401 | 2,513,927 | 2,429,018 | 2,730,914 | 2,872,428 | 2,847,270 | 2,803,876 | 2,916,455 | 3,083,126 |
| Sierra Pac 2 | 13,001,801 | 1,850,000 | 1,613,200 | 1,529,100 | 1,593,000 | 1,593,000 | 1,420,800 | 1,420,800 | 1,628,000 | 1,565,100 | 913,900 | 1,454,100 | 2,027,600 |
| SMUD | 9,780,072 | 603,875 | 582,275 | 603,875 | 593,075 | 603,875 | 948,920 | 1,811,625 | 1,425,145 | 806,982 | 603,875 | 593,075 | 603,875 |
| UMPA II | | | | | | | | | | | | | |
| Total Long Term Firm Sales | 170,750,143 | 15,263,516 | 14,353,903 | 13,524,335 | 12,194,364 | 12,482,871 | 12,574,900 | 15,790,637 | 15,852,833 | 14,847,668 | 13,829,697 | 14,516,209 | 15,509,210 |
| Short Term Firm Sales | | | | | | | | | | | | | |
| Four Corners | 243,791,300 | 38,772,250 | 36,617,450 | 39,463,850 | 16,268,700 | 16,526,550 | 15,940,500 | 16,745,700 | 16,745,700 | 16,179,000 | 10,568,700 | 9,660,600 | 10,302,300 |
| Mid Columbia | 500,910,348 | 59,559,922 | 55,920,854 | 59,559,922 | 29,920,340 | 31,001,630 | 30,017,200 | 33,518,420 | 33,518,420 | 42,834,800 | 42,683,130 | 40,685,940 | 41,688,770 |
| Palo Verde | 8,746,100 | 1,583,800 | 1,532,500 | 1,593,800 | - | - | - | 1,353,000 | 1,353,000 | 1,320,000 | - | - | - |
| SP15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SIF Index Trades | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Short Term Firm Sales | 753,447,748 | 99,925,972 | 94,070,804 | 100,617,572 | 46,189,040 | 47,528,180 | 45,957,700 | 51,617,120 | 51,617,120 | 60,333,800 | 53,251,830 | 50,346,540 | 51,992,070 |
| System Balancing Sales | | | | | | | | | | | | | |
| COB | 138,165,648 | 15,271,060 | 14,403,121 | 13,947,390 | 11,469,076 | 11,376,729 | 8,308,026 | 5,272,052 | 5,308,919 | 10,184,466 | 12,376,830 | 12,816,882 | 17,430,198 |
| Four Corners | 279,107,729 | 38,370,996 | 22,886,212 | 21,195,018 | 14,776,890 | 16,094,430 | 15,584,205 | 17,771,938 | 26,438,310 | 24,590,654 | 23,640,802 | 25,841,444 | 31,916,830 |
| Mid Columbia | 25,144,711 | 255,454 | 231,460 | 143,808 | 3,075,598 | 2,489,750 | 2,256,273 | 3,353,744 | 2,348,699 | 8,073,572 | 559,475 | 1,063,620 | 1,293,258 |
| Palo Verde | 1,192,203 | - | - | - | - | - | - | 754,602 | 437,601 | - | - | - | - |
| SP15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trapped Energy | 215,892 | - | - | 211,008 | - | - | 488 | 3,818 | 577 | - | - | - | - |
| Total System Balancing Sales | 443,826,183 | 53,897,510 | 37,520,793 | 35,497,225 | 29,321,564 | 29,960,909 | 26,148,991 | 27,156,154 | 34,535,005 | 42,848,692 | 36,577,107 | 39,721,946 | 50,640,286 |
| Total Special Sales For Resale | 1,388,024,075 | 169,086,999 | 145,945,500 | 149,639,132 | 87,704,968 | 89,981,959 | 84,681,592 | 94,563,912 | 102,004,958 | 118,030,160 | 103,658,635 | 104,584,695 | 118,141,566 |

Oregon TAM 2007Mar20

Net Power Cost Analysis

| | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
|--|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PacificCorp | | | | | | | | | | | | |
| Generic Study | | | | | | | | | | | | |
| Period Ending Dec 2008 | | | | | | | | | | | | |
| 81/08-12/08 | | | | | | | | | | | | |
| Purchased Power & Net Interchange | | | | | | | | | | | | |
| Long Term Firm Purchases | | | | | | | | | | | | |
| AMP Resources (Cove Fort) | | | | | | | | | | | | |
| AFS Supplemental | | | | | | | | | | | | |
| Combine Hills | | | | | | | | | | | | |
| Constellation p257677 | | | | | | | | | | | | |
| Constellation p257678 | | | | | | | | | | | | |
| Constellation p266849 | | | | | | | | | | | | |
| Desseret Purchase | | | | | | | | | | | | |
| Douglas PUD Settlement | | | | | | | | | | | | |
| Gemstate | | | | | | | | | | | | |
| Grant County Pacific Camas | | | | | | | | | | | | |
| Grant County 10 aMW purchase | | | | | | | | | | | | |
| Ideho Power RTSA Purchase | | | | | | | | | | | | |
| IPP Purchase | | | | | | | | | | | | |
| Kennecott Generation Incentive | | | | | | | | | | | | |
| MagCorp | | | | | | | | | | | | |
| MagCorp Reserves | | | | | | | | | | | | |
| Morgan Stanley p189046 | | | | | | | | | | | | |
| Morgan Stanley p244840 | | | | | | | | | | | | |
| Morgan Stanley p244841 | | | | | | | | | | | | |
| Nebu Heat Rate Option | | | | | | | | | | | | |
| Nucor | | | | | | | | | | | | |
| P4 Production | | | | | | | | | | | | |
| PGE Cove | | | | | | | | | | | | |
| Rock River | | | | | | | | | | | | |
| Roseburg Forest Products | | | | | | | | | | | | |
| Roseburg Forest Products CA | | | | | | | | | | | | |
| Small Purchases east | | | | | | | | | | | | |
| Small Purchases west | | | | | | | | | | | | |
| Tri-State Purchase | | | | | | | | | | | | |
| UBS p268848 | | | | | | | | | | | | |
| Wolfmeir Creek | | | | | | | | | | | | |
| DSM (Load Curtailment) | | | | | | | | | | | | |
| Sub Total Long Term Firm Purchase: | 307,759,851 | 24,390,536 | 23,693,927 | 22,005,976 | 21,111,582 | 22,876,451 | 33,771,231 | 35,751,872 | 26,759,491 | 23,978,013 | 23,658,970 | 24,163,509 |
| Qualifying Facilities | | | | | | | | | | | | |
| QF California | 4,352,670 | 432,591 | 506,706 | 608,594 | 725,534 | 722,484 | 583,950 | 94,370 | 77,397 | 68,378 | 98,505 | 227,005 |
| QF Idaho | 3,952,954 | 279,491 | 343,845 | 314,565 | 452,241 | 462,241 | 486,545 | 289,732 | 279,672 | 297,114 | 283,368 | 281,025 |
| QF Oregon | 13,635,431 | 1,374,972 | 1,340,802 | 1,408,859 | 1,560,068 | 1,463,415 | 1,142,239 | 852,147 | 800,205 | 787,757 | 905,837 | 1,228,427 |
| QF Utah | 982,329 | 84,111 | 87,393 | 87,393 | 85,080 | 83,619 | 79,834 | 76,617 | 76,347 | 86,211 | 81,336 | 81,336 |
| QF Washington | 2,191,966 | 153,782 | 147,080 | 147,022 | 157,634 | 202,374 | 219,890 | 233,951 | 217,733 | 174,688 | 150,833 | 139,667 |
| QF Wyoming | 672,773 | 13,390 | 13,022 | 11,980 | 36,355 | 102,736 | 104,229 | 110,422 | 99,276 | 44,802 | 13,222 | 13,195 |
| Biomass | 26,524,302 | 2,242,223 | 2,178,494 | 2,242,223 | 2,242,223 | 2,178,494 | 2,242,223 | 2,242,223 | 2,178,494 | 2,242,223 | 2,178,494 | 2,242,223 |
| Douglas County Forest Products | 618,772 | 132,623 | 75,788 | 83,169 | 83,169 | 83,169 | 83,169 | 83,169 | 83,169 | 83,169 | 83,169 | 83,169 |
| Evergreen BioPower QF | 3,456,709 | 301,622 | 284,645 | 308,389 | 293,677 | 236,319 | 295,757 | 301,622 | 297,114 | 2,210,560 | 3,278,215 | 4,804,380 |
| ExxonMobil QF | 5,161,385 | 5,161,385 | 4,419,909 | 3,398,220 | 1,840,860 | 1,531,152 | 1,635,993 | 1,925,221 | 650,575 | 626,984 | 992,377 | 1,127,544 |
| Mountain Wind 1 QF | 6,035,967 | | | | 452,015 | 395,972 | 344,285 | 1,107,004 | 834,534 | 1,274,741 | 1,452,746 | 1,452,746 |
| Pioneer Ridge QF | 10,382,319 | 1,075,008 | 656,515 | 823,983 | 850,143 | 641,319 | 822,588 | 1,316,872 | 973,038 | 614,254 | 1,030,613 | 1,030,613 |
| Schwendman QF | 3,396,132 | 256,297 | 209,124 | 402,875 | 347,135 | 376,672 | 293,993 | 289,398 | 250,411 | 195,120 | 283,690 | 286,002 |
| Simplot Phosphates | 3,770,428 | 308,369 | 291,662 | 308,369 | 300,016 | 328,607 | 319,600 | 328,607 | 319,600 | 328,607 | 300,016 | 300,016 |
| Spanish Fork Wind 2 QF | 2,154,674 | | | | | | | | | | | |
| Summyside | 32,004,666 | 2,644,807 | 2,530,967 | 1,847,924 | 2,587,887 | 2,644,807 | 2,587,887 | 2,960,734 | 2,890,943 | 2,490,943 | 2,890,943 | 2,960,734 |
| US Magnesium QF | 10,632,746 | 948,436 | 863,602 | 857,576 | 754,842 | 754,842 | 798,717 | 1,053,531 | 959,005 | 828,458 | 842,649 | 937,735 |
| Total Qualifying Facilities | 166,586,966 | 15,409,105 | 13,802,617 | 12,849,040 | 12,593,955 | 12,292,715 | 11,986,963 | 13,739,145 | 15,494,692 | 12,506,759 | 14,856,389 | 17,624,237 |
| Mid-Columbia Contracts | | | | | | | | | | | | |
| Cenarian - Rocky Reach | 3,921,090 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 | 326,758 |
| Douglas - Wells | 2,305,544 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 | 190,839 |
| Grant Displacement | 12,230,076 | 882,053 | 847,234 | 849,414 | 1,150,074 | 1,213,686 | 994,796 | 1,178,745 | 969,286 | 1,001,007 | 1,048,145 | 1,134,428 |
| Grant Reasonable | (7,716,523) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) | (643,044) |
| Grant Meaningful Priority | 17,851,093 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 | 1,487,591 |
| Grant Surplus | 490,606 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 | 40,884 |
| Grant - Wanapum | 10,694,434 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 | 907,870 |
| Total Mid-Columbia Contracts | 39,976,320 | 3,192,951 | 3,158,131 | 3,160,312 | 3,460,972 | 3,524,593 | 3,305,694 | 3,489,643 | 3,280,105 | 3,315,773 | 3,363,911 | 3,449,194 |
| Total Long Term Firm Purchases | 514,323,137 | 42,992,592 | 40,654,675 | 38,015,328 | 37,166,509 | 38,693,750 | 40,890,947 | 50,999,019 | 54,526,669 | 43,466,893 | 41,879,270 | 45,236,941 |

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PacificCorp
Generic Study
Period Ending Dec 2008

| | 01/08-12/08 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
|--|---------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|------------|-------------|
| Net Power Cost Analysis | | | | | | | | | | | | | |
| Storage & Exchange | - | - | - | - | - | - | - | - | - | - | - | - | - |
| APGI/Coloockum Capacity Exchai | - | - | - | - | - | - | - | - | - | - | - | - | - |
| APS Exchange | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Black Hills CTs | 1,803,226 | 95,478 | 83,823 | 266,511 | 408,454 | 301,205 | 99,609 | 94,115 | 94,193 | 106,507 | 76,508 | 77,669 | 99,154 |
| BPA Exchange | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BPA FC II Storage Agreement | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BPA FC IV Storage Agreement | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BPA Peaking | 54,303,000 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 | 4,525,250 |
| BPA So. Idaho Exchange | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cowlitz Swift | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EWFB FC I Storage Agreement | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PSCO Exchange | 900,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 |
| PSCO FC III Storage Agreement | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Redding Exchange | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SCL State Line Storage Agreem' | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Storage & Exchange | 57,006,226 | 4,695,728 | 4,694,073 | 4,866,761 | 5,008,704 | 4,901,455 | 4,699,859 | 4,694,365 | 4,694,443 | 4,706,757 | 4,676,758 | 4,677,919 | 4,699,404 |
| Short Term Firm Purchases | | | | | | | | | | | | | |
| Four Corners | 4,243,200 | - | - | - | - | - | - | 2,121,600 | 2,121,600 | - | - | - | - |
| Mid Columbia | 123,698,300 | 6,829,550 | 6,448,750 | 8,202,350 | 10,971,700 | 11,208,550 | 10,823,000 | 21,394,400 | 21,394,400 | 20,674,000 | 1,972,200 | 1,839,600 | 1,939,800 |
| Palo Verde | 210,974,868 | 28,355,852 | 26,743,864 | 28,355,852 | 10,660,800 | 8,504,300 | 8,259,500 | 13,667,000 | 13,667,000 | 13,283,500 | 19,930,650 | 19,511,700 | 20,035,650 |
| SP15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| STF Index Trades | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Short Term Firm Purchases | 338,916,368 | 35,185,402 | 33,192,614 | 36,558,202 | 21,632,500 | 19,712,850 | 19,081,500 | 37,183,000 | 37,183,000 | 33,957,500 | 21,902,850 | 21,351,300 | 21,975,650 |
| System Balancing Purchases | | | | | | | | | | | | | |
| COB | 9,525,425 | 115,891 | 313,990 | 499,473 | 50,514 | 36,896 | 781,361 | 2,777,345 | 2,897,165 | 868,276 | 200,729 | 571,984 | 411,811 |
| Four Corners | 2,665,265 | - | 762,360 | 337,464 | 68,137 | 115,050 | 13,494 | 424,766 | 38,419 | 202,100 | 383,174 | 167,683 | 152,617 |
| Mid Columbia | 142,096,461 | 22,395,248 | 18,351,128 | 20,198,158 | 3,172,355 | 3,019,497 | 5,295,775 | 9,991,946 | 14,191,360 | 3,575,834 | 15,667,183 | 12,024,224 | 14,213,753 |
| Palo Verde | 219,274,999 | 24,741,744 | 23,378,096 | 22,341,620 | 9,593,311 | 15,538,613 | 16,754,878 | 15,197,731 | 16,085,294 | 25,199,984 | 18,237,560 | 15,127,164 | 17,079,004 |
| SP15 | 8,668,915 | 1,627,067 | 1,519,807 | 1,441,111 | - | - | 1,289,170 | 1,453,755 | 1,453,755 | 1,338,005 | - | - | - |
| Emergency Purchases | 447,732 | - | 12,158 | 365,074 | - | - | 69,492 | - | - | - | 1,029 | - | - |
| Total System Balancing Purchases | 382,678,817 | 48,879,950 | 44,337,529 | 45,182,900 | 12,884,317 | 18,710,056 | 22,845,508 | 29,750,450 | 34,665,993 | 31,184,200 | 34,489,675 | 27,891,055 | 31,857,184 |
| Total Purchased Power & Net I | 1,292,924,547 | 131,753,672 | 122,868,891 | 124,623,190 | 76,692,030 | 82,018,111 | 87,517,813 | 122,626,834 | 131,070,105 | 113,315,350 | 100,869,827 | 95,799,544 | 103,769,179 |

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| | Net Power Cost Analysis | | | | | | | | | | | | |
|---|-------------------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|------------|------------|
| | 01/08-12/08 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
| PacificCorp | | | | | | | | | | | | | |
| Generic Study | | | | | | | | | | | | | |
| Period Ending Dec 2008 | | | | | | | | | | | | | |
| Wheeling & U. of F. Expense | | | | | | | | | | | | | |
| Firm Wheeling | 107,412,608 | 9,311,540 | 8,947,771 | 9,159,852 | 9,459,107 | 9,010,901 | 8,571,118 | 9,057,666 | 8,821,273 | 8,427,965 | 8,621,359 | 8,994,500 | 9,029,557 |
| ST Firm & Non-Firm | 307,719 | 9,321 | 3,702 | 5,107 | 25,083 | 28,131 | 31,451 | 42,419 | 29,686 | 32,632 | 44,765 | 31,237 | 24,185 |
| Total Wheeling & U. of F. Expe | 107,720,328 | 9,320,860 | 8,951,473 | 9,164,959 | 9,484,191 | 9,039,032 | 8,602,569 | 9,100,085 | 8,850,959 | 8,460,597 | 8,666,123 | 9,025,738 | 9,053,742 |
| Coal Fuel Burn Expense | | | | | | | | | | | | | |
| Carbon | 13,403,317 | 959,088 | 1,176,605 | 1,282,843 | 1,032,243 | 1,098,980 | 1,127,758 | 1,268,103 | 1,185,270 | 1,188,298 | 827,113 | 1,202,947 | 1,054,071 |
| Cholla | 52,849,931 | 4,713,117 | 2,986,593 | 4,997,428 | 4,218,762 | 3,953,084 | 4,079,869 | 4,610,503 | 4,722,329 | 4,603,575 | 4,780,873 | 4,642,411 | 4,541,387 |
| Colstrip | 10,335,718 | 927,850 | 873,384 | 936,820 | 890,886 | 855,198 | 855,198 | 890,080 | 927,388 | 893,862 | 741,839 | 667,200 | 953,067 |
| Craig | 17,719,425 | 1,510,409 | 1,322,771 | 928,518 | 1,522,771 | 1,583,084 | 1,428,741 | 1,607,776 | 1,529,863 | 1,551,281 | 1,599,337 | 1,538,367 | 1,586,613 |
| Dave Johnston | 47,312,051 | 4,187,698 | 4,027,638 | 3,960,095 | 4,101,390 | 3,906,785 | 3,911,893 | 3,999,698 | 4,146,707 | 3,446,707 | 3,154,909 | 4,191,879 | 4,285,402 |
| Hayden | 8,542,296 | 731,293 | 608,206 | 845,331 | 689,886 | 688,653 | 684,822 | 771,849 | 734,543 | 746,877 | 758,553 | 710,311 | 751,171 |
| Hunter | 103,133,875 | 8,963,390 | 6,867,461 | 9,047,214 | 7,940,031 | 8,084,943 | 8,261,917 | 9,142,576 | 8,509,537 | 8,611,971 | 8,709,233 | 8,809,328 | 9,186,273 |
| Huntington | 79,755,197 | 7,100,535 | 6,143,557 | 7,195,383 | 6,796,562 | 7,067,802 | 7,017,895 | 7,171,483 | 6,782,482 | 5,313,475 | 5,943,535 | 6,130,472 | 7,122,018 |
| Jim Bridger | 121,337,254 | 10,702,212 | 9,827,468 | 9,152,966 | 7,788,062 | 9,160,789 | 10,571,061 | 10,538,618 | 10,787,848 | 10,756,208 | 10,759,083 | 10,809,055 | 10,683,875 |
| Naughton | 70,069,220 | 5,836,617 | 6,216,182 | 4,132,140 | 5,238,254 | 5,789,557 | 5,915,795 | 6,236,203 | 6,303,056 | 6,039,873 | 6,396,010 | 5,841,949 | 6,123,604 |
| Wyodak | 18,322,055 | 1,610,896 | 1,520,467 | 1,556,677 | 1,546,936 | 1,585,089 | 1,520,919 | 1,587,268 | 1,545,897 | 1,605,782 | 1,292,521 | 1,241,119 | 1,708,484 |
| Total Coal Fuel Burn Expense | 542,780,339 | 47,243,106 | 41,181,285 | 44,035,414 | 41,765,580 | 44,906,909 | 45,385,868 | 47,824,158 | 47,136,190 | 44,557,910 | 44,962,947 | 45,785,008 | 47,985,964 |
| Gas Fuel Burn Expense | | | | | | | | | | | | | |
| Current Creek | 127,792,086 | 11,808,077 | 12,241,391 | 11,524,617 | 9,105,270 | 7,719,287 | 7,703,051 | 10,557,432 | 13,005,945 | 11,153,998 | 8,843,770 | 11,423,409 | 12,705,849 |
| Gadsby | 20,577,489 | 206,239 | 138,040 | 40,828 | 505,013 | 1,551,047 | 2,012,989 | 4,536,901 | 4,537,304 | 4,300,100 | 1,888,622 | 561,011 | 804,408 |
| Gadsby CT | 15,766,422 | 882,304 | 574,041 | 321,987 | 505,013 | 1,289,037 | 1,475,073 | 1,914,281 | 2,042,417 | 1,832,448 | 1,830,160 | 1,410,921 | 1,740,730 |
| Hemiston | 57,172,934 | 4,754,561 | 4,666,589 | 2,938,513 | 4,525,789 | 4,790,521 | 4,760,798 | 4,985,537 | 4,903,521 | 4,971,783 | 5,156,285 | 5,453,174 | 5,360,085 |
| Lake side | 136,080,810 | 14,737,218 | 11,833,078 | 11,790,801 | 9,179,800 | 8,676,150 | 8,221,327 | 10,560,633 | 13,074,175 | 12,002,696 | 8,314,684 | 12,725,971 | 14,970,276 |
| Little Mountain | 9,830,063 | 1,350,554 | 1,257,097 | 1,200,441 | 1,053,052 | 971,871 | 137,200 | 137,200 | 151,454 | - | 1,152,811 | 1,180,108 | 1,375,476 |
| West Valley | 8,875,023 | 2,084,259 | 1,613,806 | 1,041,446 | 1,781,225 | 2,454,286 | - | - | - | - | - | - | - |
| Total Gas Fuel Burn Expense | 376,194,836 | 35,823,211 | 32,322,043 | 28,858,643 | 26,144,149 | 27,402,199 | 24,173,237 | 32,691,983 | 37,620,616 | 34,261,025 | 27,186,331 | 32,754,595 | 36,956,804 |
| Mark to Market | | | | | | | | | | | | | |
| Gas Swaps | 33,758,417 | 3,229,146 | 1,700,908 | 2,418,310 | 3,366,210 | 4,690,393 | 4,475,280 | 3,653,505 | 3,374,505 | 2,444,130 | 2,886,100 | 1,432,200 | 87,730 |
| Pipeline Reservation Fees | 13,214,212 | 1,105,279 | 1,088,899 | 1,105,279 | 1,097,089 | 1,105,279 | 1,097,089 | 1,105,279 | 1,105,279 | 1,097,089 | 1,105,279 | 1,097,089 | 1,105,279 |
| Total Gas Fuel Burn Expense | 423,167,465 | 40,157,636 | 35,111,850 | 32,382,232 | 30,607,448 | 33,197,871 | 29,745,607 | 37,450,767 | 42,100,400 | 37,802,244 | 31,177,711 | 35,283,885 | 38,149,813 |
| Other Generation | | | | | | | | | | | | | |
| Blundell | 4,429,953 | 361,517 | 347,532 | 382,471 | 374,972 | 386,948 | 368,629 | 388,323 | 389,081 | 319,935 | 360,925 | 374,366 | 375,255 |
| Foots Creek I | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Goodhoe | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Leaning Juniper 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Marengo | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Other Generation | 4,429,953 | 361,517 | 347,532 | 382,471 | 374,972 | 386,948 | 368,629 | 388,323 | 389,081 | 319,935 | 360,925 | 374,366 | 375,255 |
| Net Power Cost | 1,002,998,558 | 59,748,783 | 62,515,532 | 60,948,135 | 71,219,254 | 79,566,912 | 86,938,894 | 122,826,255 | 127,541,778 | 86,425,875 | 82,378,898 | 81,683,845 | 81,202,387 |
| Net Power Cost/Net System Load | 17.29 | 11.83 | 13.70 | 13.17 | 16.41 | 17.35 | 18.12 | 22.60 | 24.35 | 16.71 | 17.94 | 16.79 | 15.34 |

Oregon TAM 2007Mar20

Net Power Cost Analysis
MWh

PacificCorp
Generic Study
Period Ending Dec 2008

| | 01/08-12/08 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
|--|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Adjustments to Load | | | | | | | | | | | | | |
| Endiger Loss Placement | (0) | 0 | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | 0 | 0 |
| DSM Idaho Irrigation | 0 | 7,480 | - | - | - | - | 3,740 | 3,400 | 3,740 | 3,740 | - | - | 7,480 |
| MagCorp Curtailment | 29,580 | - | - | - | - | - | 14,271 | 14,271 | 18,425 | 12,127 | - | - | - |
| Monsanto Curtailment | 53,600 | (4,890) | (5,584) | (5,753) | (7,776) | (6,854) | (6,341) | (6,309) | (7,097) | (5,947) | (6,631) | (6,067) | (4,614) |
| Station Service | (73,653) | | | | | | | | | | | | |
| Total Adjustments to Load | 9,527 | 2,790 | (5,594) | (5,753) | (7,776) | (6,499) | 5,841 | 11,362 | 15,088 | 9,920 | (6,631) | (6,067) | 2,866 |
| System Load | 58,016,416 | 5,052,123 | 4,558,850 | 4,820,825 | 4,333,306 | 4,578,369 | 4,802,885 | 5,446,561 | 5,251,877 | 4,830,195 | 4,585,683 | 4,860,073 | 5,295,569 |
| Net System Load | 58,006,889 | 5,049,333 | 4,564,444 | 4,826,578 | 4,341,082 | 4,584,868 | 4,797,044 | 5,435,299 | 5,236,809 | 4,820,275 | 4,592,314 | 4,866,140 | 5,292,703 |
| Special Sales For Resale | | | | | | | | | | | | | |
| Long Term Firm Sales | | | | | | | | | | | | | |
| Black Hills | 363,989 | 31,294 | 28,791 | 31,040 | 29,848 | 30,331 | 29,028 | 31,308 | 31,001 | 29,829 | 30,731 | 29,444 | 31,344 |
| BPA Wind | 39,946 | 3,039 | 3,655 | 4,312 | 2,873 | 2,837 | 2,146 | 1,570 | 1,851 | 2,435 | 3,183 | 4,815 | 5,229 |
| LADWP (IPP Layoff) | 539,064 | 42,855 | 38,707 | 42,855 | 42,583 | 48,023 | 45,960 | 46,312 | 46,880 | 44,348 | 46,290 | 48,843 | 44,388 |
| PSCO | 832,969 | 81,780 | 78,535 | 78,847 | 73,094 | 73,576 | 73,094 | 81,780 | 81,780 | 78,129 | 76,478 | 73,094 | 81,780 |
| Salt River Project | 219,800 | 18,600 | 17,400 | 18,600 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 |
| Sierra Pac 2 | 461,175 | 44,825 | 41,700 | 41,475 | 32,850 | 31,050 | 28,025 | 36,225 | 39,600 | 39,000 | 40,350 | 40,650 | 44,625 |
| SMUD | 351,400 | 50,000 | 43,600 | 14,300 | 38,400 | 38,400 | 38,400 | 38,400 | 44,000 | 42,300 | 24,700 | 39,300 | 54,800 |
| UMPA II | 224,328 | 13,938 | 13,938 | 13,938 | 13,468 | 13,938 | 21,580 | 41,813 | 32,883 | 18,343 | 13,938 | 13,488 | 13,938 |
| Total Long Term Firm Sales | 3,132,472 | 288,130 | 263,426 | 245,368 | 212,736 | 220,355 | 218,834 | 286,008 | 286,614 | 273,384 | 254,270 | 268,634 | 294,714 |
| Short Term Firm Sales | | | | | | | | | | | | | |
| Four Corners | 3,810,600 | 525,800 | 495,400 | 536,200 | 361,600 | 368,800 | 356,000 | 244,000 | 244,000 | 236,000 | 153,000 | 140,400 | 149,400 |
| Mid Columbia | 8,160,200 | 882,400 | 825,200 | 882,400 | 568,800 | 594,000 | 576,000 | 543,000 | 543,000 | 684,000 | 708,000 | 680,400 | 693,000 |
| Palo Verde | 134,800 | 20,800 | 20,800 | 20,800 | - | - | - | 24,600 | 24,600 | 24,000 | - | - | - |
| SP15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| STF Index Trades | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Short Term Firm Sales | 12,105,600 | 1,429,000 | 1,340,600 | 1,439,400 | 930,400 | 962,800 | 932,000 | 811,600 | 811,600 | 924,000 | 861,000 | 820,800 | 842,400 |
| System Balancing Sales | | | | | | | | | | | | | |
| COB | 2,085,843 | 202,742 | 199,540 | 210,535 | 195,356 | 227,815 | 173,527 | 78,312 | 71,126 | 136,508 | 185,019 | 181,946 | 223,417 |
| Four Corners | 3,983,537 | 530,108 | 327,551 | 330,662 | 250,112 | 261,566 | 249,908 | 214,814 | 315,281 | 307,715 | 357,255 | 395,043 | 443,512 |
| Mid Columbia | 459,656 | 3,280 | 3,432 | 2,188 | 65,039 | 56,903 | 62,822 | 70,519 | 40,202 | 111,475 | 9,743 | 15,583 | 18,459 |
| Palo Verde | 12,450 | - | - | - | - | - | - | 7,800 | 4,650 | - | - | - | - |
| SP15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trapped Energy | 5,422 | - | - | 5,422 | - | - | 22 | 108 | 15 | - | - | - | - |
| Total System Balancing Sales | 6,546,908 | 736,131 | 530,523 | 548,663 | 510,507 | 546,284 | 486,279 | 371,553 | 431,285 | 555,688 | 552,017 | 592,582 | 685,387 |
| Total Special Sales For Resale | 21,784,980 | 2,453,261 | 2,134,549 | 2,233,430 | 1,653,642 | 1,729,439 | 1,637,113 | 1,479,161 | 1,539,499 | 1,753,082 | 1,667,288 | 1,662,016 | 1,822,501 |
| Total Requirements | 79,791,869 | 7,502,594 | 6,898,993 | 6,860,008 | 5,994,724 | 6,314,307 | 6,434,157 | 6,914,460 | 6,776,308 | 6,373,357 | 6,259,602 | 6,548,156 | 7,115,204 |
| Purchased Power & Net Interchange | | | | | | | | | | | | | |
| Long Term Firm Purchases | 176,108 | - | - | - | - | - | 20,990 | 24,228 | 24,446 | 24,500 | 26,332 | 26,887 | 28,726 |
| AMP Resources (Cove Fort) | 228,650 | 7,950 | 13,950 | 24,150 | 23,100 | 33,450 | 23,250 | 21,500 | 18,050 | 15,250 | 21,050 | 16,600 | 10,350 |
| APS Supplemental | 115,366 | 11,382 | 10,648 | 11,382 | 10,104 | 10,441 | 7,249 | 7,491 | 7,491 | 7,249 | 10,441 | 10,104 | 11,382 |
| Combine Hills | 78,400 | - | - | - | - | - | 16,800 | 20,800 | 20,800 | 20,000 | - | - | - |
| Constellation p257677 | 16,800 | - | - | - | - | - | - | 17,600 | 16,800 | - | - | - | - |
| Constellation p257678 | 34,400 | - | - | - | - | - | 69,192 | 69,192 | 69,192 | 66,960 | 69,192 | 66,960 | 69,192 |
| Constellation p258849 | 816,912 | 69,192 | 64,728 | 69,192 | 66,960 | 69,192 | 66,960 | 69,192 | 69,192 | 66,960 | 69,192 | 66,960 | 69,192 |
| Deseret Purchase | 68,877 | 3,490 | 3,499 | 4,586 | 6,323 | 9,687 | 6,242 | 8,083 | 6,242 | 3,712 | 4,546 | 4,166 | 4,276 |
| Douglas PUD Settlement | 37,448 | - | - | - | - | - | 10,146 | 13,379 | 12,456 | - | - | - | - |
| Gemstate | 131,482 | 11,136 | 10,418 | 11,136 | 10,777 | 11,136 | 10,146 | 11,136 | 11,136 | 10,777 | 11,136 | 10,777 | 11,136 |
| Georgia-Pacific Games | 87,634 | 6,400 | 4,892 | 5,824 | 7,410 | 9,346 | 9,986 | 10,290 | 9,560 | 7,098 | 5,904 | 4,734 | 6,090 |
| Grant County 10 aMW purchase | 37,151 | 3,594 | 3,671 | 3,780 | 1,248 | 1,222 | 2,839 | 4,513 | 3,948 | 3,808 | 3,189 | 2,990 | 3,448 |
| Idaho Power RTSA Purchase | 539,064 | 42,855 | 38,707 | 42,855 | 42,583 | 48,023 | 45,960 | 46,312 | 46,880 | 44,348 | 46,290 | 48,843 | 44,388 |
| IPP Purchase | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MagCorp Reserves | 246,400 | 20,800 | 20,800 | 20,800 | 20,800 | 20,800 | 20,000 | 20,800 | 20,800 | 20,000 | 21,600 | 19,200 | 20,800 |
| Morgan Stanley p189046 | 62,400 | - | - | - | - | - | - | 31,200 | 31,200 | - | - | - | - |
| Morgan Stanley p244840 | 20,800 | - | - | - | - | - | - | 10,400 | 10,400 | - | - | - | - |
| Morgan Stanley p244841 | 107,877 | 39,193 | 34,804 | 33,880 | - | - | - | - | - | - | - | - | - |
| Nebo Heat Rate Option | - | - | - | - | - | - | - | - | - | - | - | - | - |

Oregon TAM 2007Mar20

PacifiCorp
Generic Study
Period Ending Dec 2008

Net Power Cost Analysis

| | 01/08-12/08 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Total Short Term Firm Purchases | 5,627,000 | 519,200 | 487,600 | 540,000 | 454,800 | 429,400 | 416,000 | 579,800 | 579,800 | 542,000 | 360,000 | 355,200 | 363,200 |
| System Balancing Purchases | | | | | | | | | | | | | |
| COB | 147,111 | 1,685 | 5,191 | 8,549 | 988 | 1,107 | 22,825 | 39,924 | 36,784 | 11,743 | 3,258 | 9,021 | 6,026 |
| Four Corners | 51,042 | - | 15,000 | 7,317 | 1,581 | 2,827 | 162 | 6,206 | 418 | 4,262 | 7,357 | 3,159 | 2,751 |
| Mid Columbia | 2,222,667 | 322,942 | 276,644 | 331,611 | 69,621 | 81,514 | 127,127 | 145,550 | 181,968 | 54,826 | 251,132 | 185,210 | 194,520 |
| Palo Verde | 3,590,053 | 372,134 | 367,369 | 379,373 | 186,632 | 278,647 | 301,809 | 242,619 | 238,250 | 370,032 | 326,420 | 258,825 | 267,945 |
| SP15 | 134,800 | 20,800 | 20,000 | 20,800 | - | - | - | 24,600 | 24,600 | 24,000 | - | - | - |
| Emergency Purchases | 5,794 | - | 138 | 4,398 | - | - | - | 1,240 | - | - | 18 | - | - |
| Total System Balancing Purchases | 6,151,467 | 717,561 | 684,343 | 752,048 | 259,832 | 364,095 | 451,923 | 460,140 | 482,020 | 464,863 | 588,185 | 456,216 | 471,242 |
| Total Purchased Power & Net I | 21,347,245 | 2,236,248 | 2,005,250 | 1,967,615 | 1,478,752 | 1,485,453 | 1,663,440 | 1,907,193 | 1,781,669 | 1,590,574 | 1,697,973 | 1,673,647 | 1,859,431 |

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Net Power Cost Analysis

PacifiCorp
Generic Study
Period Ending Dec 2008

| | 01/08-12/08 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
|-------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Coal Generation | | | | | | | | | | | | | |
| Carbon | 1,059,721 | 74,092 | 93,628 | 102,339 | 80,582 | 86,176 | 88,965 | 100,895 | 93,596 | 95,065 | 65,872 | 95,770 | 82,740 |
| Cholla | 2,722,761 | 243,071 | 154,312 | 258,264 | 216,882 | 201,778 | 209,285 | 237,626 | 243,487 | 237,608 | 246,820 | 239,665 | 233,964 |
| Colstrip | 1,152,656 | 103,629 | 97,477 | 104,710 | 99,368 | 109,547 | 84,809 | 98,822 | 103,556 | 77,721 | 82,340 | 74,140 | 106,536 |
| Craig | 1,259,689 | 107,277 | 94,373 | 66,151 | 108,224 | 112,477 | 101,242 | 114,292 | 108,480 | 110,329 | 113,740 | 109,382 | 112,722 |
| Dave Johnston | 5,833,010 | 516,514 | 496,845 | 487,396 | 506,437 | 480,415 | 481,858 | 492,523 | 510,254 | 425,114 | 389,492 | 517,204 | 528,921 |
| Hayden | 525,205 | 44,711 | 25,757 | 52,734 | 42,068 | 42,482 | 42,432 | 47,523 | 45,010 | 46,043 | 46,690 | 43,822 | 46,132 |
| Hunter | 8,392,075 | 729,957 | 559,471 | 737,342 | 643,060 | 740,121 | 670,297 | 745,440 | 690,351 | 700,933 | 707,755 | 717,801 | 749,549 |
| Huntington | 6,684,658 | 595,262 | 514,147 | 603,252 | 569,598 | 592,471 | 588,336 | 601,323 | 565,643 | 446,466 | 497,688 | 513,476 | 566,996 |
| Jim Bridger | 10,194,083 | 899,110 | 808,225 | 767,609 | 654,061 | 767,930 | 889,357 | 884,385 | 906,831 | 905,984 | 903,990 | 910,899 | 897,702 |
| Naughton | 4,753,027 | 394,399 | 423,311 | 279,832 | 355,479 | 391,384 | 400,939 | 423,674 | 427,940 | 410,187 | 435,043 | 395,331 | 415,507 |
| Wyodak | 2,179,201 | 191,568 | 180,954 | 184,577 | 183,845 | 188,244 | 180,489 | 188,525 | 183,166 | 191,435 | 154,165 | 148,058 | 204,154 |
| Total Coal Generation | 44,755,086 | 3,899,590 | 3,448,501 | 3,644,207 | 3,459,604 | 3,713,023 | 3,748,008 | 3,935,065 | 3,878,334 | 3,646,886 | 3,643,594 | 3,765,348 | 3,974,924 |
| Gas Generation | | | | | | | | | | | | | |
| Current Creek | 2,534,233 | 220,242 | 223,925 | 224,437 | 197,500 | 167,073 | 166,079 | 217,636 | 266,966 | 225,674 | 178,280 | 217,755 | 226,698 |
| Gadsby | 257,293 | 2,293 | 1,554 | 480 | - | 19,867 | 24,302 | 58,349 | 57,677 | 54,053 | 22,965 | 6,793 | 8,960 |
| Gadsby CT | 177,893 | 8,689 | 6,091 | 3,547 | 5,720 | 14,329 | 21,909 | 23,578 | 23,578 | 21,690 | 21,307 | 15,743 | 17,945 |
| Henniston | 1,806,492 | 150,326 | 148,019 | 81,118 | 142,919 | 152,079 | 151,222 | 160,665 | 152,412 | 160,896 | 168,381 | 171,477 | 166,979 |
| Lake side | 2,742,952 | 279,606 | 223,394 | 235,472 | 200,885 | 192,435 | 179,487 | 218,716 | 269,594 | 248,895 | 171,377 | 249,211 | 273,890 |
| Little Mountain | 85,390 | 11,158 | 10,358 | 10,416 | 10,018 | 9,348 | - | 1,233 | 1,333 | - | 10,415 | 10,078 | 11,023 |
| West Valley | 107,007 | 22,263 | 19,899 | 12,683 | 22,315 | 30,847 | - | - | - | - | - | - | - |
| Total Gas Generation | 7,711,249 | 694,577 | 632,239 | 568,152 | 579,357 | 585,978 | 540,433 | 678,508 | 771,529 | 711,209 | 572,725 | 671,057 | 705,485 |
| Hydro Generation | | | | | | | | | | | | | |
| West Hydro | 4,038,325 | 531,402 | 481,666 | 486,996 | 312,623 | 341,824 | 303,930 | 211,660 | 180,894 | 277,452 | 192,559 | 286,488 | 430,832 |
| East Hydro | 490,845 | 37,430 | 33,676 | 44,133 | 49,324 | 54,555 | 47,047 | 47,870 | 44,503 | 34,960 | 29,898 | 31,262 | 35,986 |
| Total Hydro Generation | 4,529,170 | 568,832 | 515,342 | 531,129 | 361,947 | 396,379 | 350,977 | 259,530 | 225,397 | 312,412 | 222,456 | 317,750 | 466,818 |
| Other Generation | | | | | | | | | | | | | |
| Blundell | 285,285 | 23,281 | 22,381 | 24,631 | 24,148 | 24,919 | 23,739 | 25,008 | 25,056 | 20,604 | 23,243 | 24,109 | 24,166 |
| Footo Creek 1 | 104,608 | 13,195 | 9,572 | 11,293 | 7,524 | 7,430 | 5,621 | 4,112 | 4,848 | 6,376 | 8,336 | 12,609 | 13,693 |
| Goodnoe | 342,919 | 19,866 | 21,984 | 31,894 | 31,865 | 33,015 | 36,608 | 38,061 | 31,996 | 24,718 | 27,967 | 25,395 | 19,689 |
| Leaning Juniper 1 | 296,590 | 16,092 | 12,976 | 24,115 | 20,561 | 35,071 | 31,722 | 35,688 | 31,427 | 28,160 | 26,371 | 16,597 | 17,821 |
| Marengo | 419,713 | 30,901 | 32,548 | 57,033 | 30,965 | 33,037 | 33,608 | 31,295 | 28,051 | 32,418 | 37,036 | 41,644 | 33,176 |
| Total Other Generation | 1,449,114 | 103,346 | 99,460 | 148,905 | 115,063 | 133,472 | 131,298 | 134,164 | 119,378 | 112,276 | 122,852 | 120,353 | 108,546 |
| Total Resources | 79,791,864 | 7,502,593 | 6,698,992 | 6,860,008 | 5,994,723 | 6,314,305 | 6,434,156 | 6,914,460 | 6,776,308 | 6,373,357 | 6,259,602 | 6,548,155 | 7,115,204 |

Case UE-
Exhibit PPL/202
Witness: Mark T. Widmer

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Mark T. Widmer
NORMALIZED SOURCES OF ENERGY

April 2007

Exhibit PPL/202

PacifiCorp
Normalized Sources of Energy
12 Months Ending December 2008

Unit - Average Megawatts

| Line No. | Description | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 | Line No. |
|----------------------------------|---|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|
| Company Owned Generation | | | | | | | | | | | | | | |
| 1 | Hydro | 765 | 741 | 714 | 503 | 533 | 487 | 349 | 303 | 434 | 299 | 441 | 627 | 1 |
| 2 | Thermal (1) | 6,221 | 5,907 | 5,710 | 5,658 | 5,827 | 6,004 | 6,250 | 6,298 | 6,096 | 5,713 | 6,210 | 6,338 | 2 |
| 3 | Wind | 108 | 111 | 167 | 126 | 146 | 149 | 147 | 127 | 127 | 134 | 134 | 113 | 3 |
| 4 | Total Company Owned Generation | 7,093 | 6,759 | 6,591 | 6,287 | 6,505 | 6,641 | 6,745 | 6,728 | 6,658 | 6,146 | 6,785 | 7,079 | 4 |
| Purchased & Exchanges | | | | | | | | | | | | | | |
| 5 | Long Term Firm | 859 | 860 | 734 | 802 | 826 | 875 | 966 | 1,005 | 880 | 849 | 928 | 926 | 5 |
| 6 | Mid Columbia | 268 | 230 | 201 | 234 | 162 | 265 | 252 | 200 | 162 | 180 | 205 | 229 | 6 |
| 7 | Exchanges | 202 | 91 | (42) | 11 | (161) | (50) | (67) | (252) | (246) | (37) | 50 | 208 | 7 |
| 8 | Short Term Firm Purchases | 698 | 701 | 726 | 632 | 577 | 578 | 779 | 779 | 753 | 484 | 493 | 488 | 8 |
| 9 | System Balancing | 964 | 983 | 1,011 | 359 | 489 | 628 | 618 | 648 | 646 | 791 | 634 | 633 | 9 |
| 10 | Total Purchased Power and Exchange | 2,991 | 2,866 | 2,630 | 2,039 | 1,982 | 2,295 | 2,548 | 2,380 | 2,194 | 2,267 | 2,310 | 2,484 | 10 |
| 11 | Total Resources | 10,084 | 9,625 | 9,220 | 8,326 | 8,487 | 8,936 | 9,294 | 9,108 | 8,852 | 8,413 | 9,095 | 9,563 | 11 |
| 12 | Special Sales | 3,297 | 3,067 | 3,002 | 2,297 | 2,325 | 2,274 | 1,988 | 2,069 | 2,435 | 2,241 | 2,336 | 2,450 | 12 |
| 13 | System Net of Special Sales | 6,787 | 6,558 | 6,219 | 6,029 | 6,162 | 6,663 | 7,306 | 7,039 | 6,417 | 6,172 | 6,759 | 7,114 | 13 |

Notes:
(1) Includes GP Camas Co-generation

Case UE-
Exhibit PPL/203
Witness: Mark T. Widmer

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Mark T. Widmer
NORMALIZED SOURCES OF PEAK CAPACITY

April 2007

PacifiCorp
Normalized Sources of Peak Capacity
12 Months Ending December 2008

Exhibit PPL/203

| Line No. | Description | Winter Peak December MW | % of Total Capacity | Summer Peak July MW | % of Total Capacity | Annual Energy GWH | % of Total Requirement | Line No. |
|---|--|----------------------------|------------------------|------------------------|------------------------|----------------------|---------------------------|-------------|
| <u>Company Owned Generation</u> | | | | | | | | |
| 1 | Hydro | 1,012 | 9.26% | 1,084 | 10.39% | 4,529 | 5.68% | 1 |
| 2 | Thermal (1) (2) | 6,364 | 58.23% | 6,327 | 60.67% | 52,883 | 66.28% | 2 |
| 3 | Wind | 74 | 0.68% | 72 | 0.69% | 1,164 | 1.46% | 3 |
| 4 | <u>Total Company Owned Generation</u> | 7,450 | 68.17% | 7,482 | 71.75% | 58,576 | 73.41% | 4 |
| <u>Purchased & Exchanges</u> | | | | | | | | |
| 5 | Long Term Firm | 930 | 8.51% | 1,175 | 11.27% | 7,695 | 9.64% | 5 |
| 6 | Mid Columbia | 476 | 4.36% | 476 | 4.56% | 1,959 | 2.46% | 6 |
| 7 | Exchanges | 1,017 | 9.31% | 113 | 1.09% | (217) | -0.27% | 7 |
| 8 | Short Term Firm Purchases | 400 | 3.66% | 625 | 5.99% | 5,627 | 7.05% | 8 |
| 9 | System Balancing | 654 | 5.99% | 556 | 5.33% | 6,151 | 7.71% | 9 |
| 10 | <u>Total Purchased Power and Exchange</u> | 3,478 | 31.83% | 2,946 | 28.25% | 21,216 | 26.59% | 10 |
| 11 | <u>Total Resources</u> | 10,928 | 100.00% | 10,428 | 100.00% | 79,792 | 100.00% | 11 |
| 12 | <u>Special Sales</u> | 2,709 | | 1,534 | | 21,785 | | 12 |
| 13 | <u>System Net of Special Sales</u> | 8,219 | | 8,894 | | 58,007 | | 13 |

Notes:

- (1) Includes GP Camas Co-generation
- (2) After Derates, Maintenance and Reserves

Case UE-
Exhibit PPL/300
Witness: Judith M. Ridenour

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Direct Testimony of Judith M. Ridenour

PRICING & TARIFFS

April 2007

1 **Q. Please state your name, business address and present position with**
2 **PacifiCorp, dba Pacific Power & Light Company (the Company).**

3 A. My name is Judith M. Ridenour. My business address is 825 NE Multnomah St.,
4 Suite 2000, Portland, Oregon 97232. My present position is Senior Analyst,
5 Pricing & Cost of Service, in the Regulation Department.

6 **Q. Briefly describe your educational and professional background.**

7 A. I hold a Bachelor of Arts degree in Mathematics from Reed College. I joined the
8 Company in the Regulation Department in October 2000. I assumed my present
9 responsibilities in May 2001.

10 **Q. Please describe your current duties.**

11 A. I am responsible for the preparation of rate design used in retail price filings and
12 related analyses. Since 2001, with levels of increasing responsibility, I have
13 analyzed and implemented rate design proposals throughout the Company's six
14 state service territory, including those contained in the Company's last Oregon
15 General Rate Case, Docket UE-179.

16 **Purpose of Testimony**

17 **Q. What are your responsibilities in this proceeding?**

18 A. I will present the Company's proposed prices and proposed tariffs. I will also
19 provide a comparison of existing and estimated customer rates.

20 **Price Change and Tariffs**

21 **Q. How does the Company propose to collect the price change from customers?**

22 A. Consistent with past TAM filings and with OAR 860-038-0200 Unbundling, the
23 Company proposes to spread the revenue change to customer classes by a uniform

1 percentage change to the present generation-related revenues being collected
2 through Schedule 200, Cost-Based Supply Service. The revenue change will be
3 applied on a cents per kilowatt-hour basis through revised Schedule 200 rates.

4 **Q. Have you prepared an exhibit showing the calculation of the proposed rate**
5 **changes?**

6 A. Yes. Exhibit PPL/301 shows the calculation of the proposed change to Schedule
7 200 rates. Columns 1 and 2 list the Delivery Service schedules receiving Cost-
8 Based Supply Service on Schedule 200. Column 3 shows the forecast kilowatt-
9 hours from UE-179 upon which present rates are based. Column 4 shows the
10 present Schedule 200 Cost-Based Supply Service revenues as approved in the
11 Company's last TAM filing effective January 1, 2007; column 4 excludes
12 Delivery Service revenues. Column 5 calculates the revenue change by Delivery
13 Service schedule. Column 6 translates the revenue change into a cents per
14 kilowatt-hour change which will be added to present Schedule 200 rates.

15 **Q. Please describe Exhibit PPL/302.**

16 A. Exhibit PPL/302 contains the revised Schedule 200, Cost-Based Supply Service.
17 The cents per kilowatt-hour rates shown in Exhibit PPL/301 have been added to
18 the present rates for each Delivery Service schedule listed in Schedule 200. For
19 Delivery Service schedules with multiple rate blocks on Schedule 200, the rate
20 increase applies equally to each block.

21 **Q. Is the Company proposing changes to its one-year option Transition**
22 **Adjustment tariff (Schedule 294) at this time?**

23 A. No. As indicated in Ms. Kelly's testimony, the Transition Adjustment will be

1 established in November, just prior to the open enrollment window. The
2 Company will file changes to Schedule 294, Transition Adjustment, once the
3 2008 rates have been posted and are known.

4 **Comparison of Existing and Estimated Customer Rates**

5 **Q. What are the overall estimated effects of the changes proposed in this filing?**

6 A. The overall estimated increase to rates is 3.9 percent on a net basis. Exhibit
7 PPL/303 shows the estimated effect of the Company's proposed prices by
8 Delivery Service schedule both base and net of applicable adjustment schedules.
9 The net rates in Columns 7 and 10 exclude effects of the Low Income Bill
10 Payment Assistance Charge (Schedule 91), the BPA Energy Discount (Schedule
11 98), and the Public Purpose Charge (Schedule 290).

12 **Q. Have you prepared an exhibit which shows a comparison of existing and**
13 **estimated customer rates?**

14 A. Yes. Exhibit PPL/304 contains monthly billing comparisons for various size
15 customers on each of the main residential, commercial and industrial Delivery
16 Service schedules. Each bill impact is shown in both dollars and percentages.
17 These bill comparisons include the effects of all adjustment schedules including
18 Low Income Bill Payment Assistance Charge (Schedule 91) and the Public
19 Purpose Charge (Schedule 290). The effects of the BPA Energy Discount
20 (Schedule 98) are included only in the bill comparisons for Residential Schedule
21 4 and Irrigation Schedule 41 as the majority of customers on those schedules
22 qualify for the BPA credit while the majority of customers on the general service
23 schedules do not.

1 **Q. What is the estimated monthly impact to an average size residential**
2 **customer using 1,000 kilowatt-hours?**

3 A. The estimated monthly impact to a residential customer using 1,000 kilowatt-
4 hours is \$2.81.

5 **Q. Does this conclude your direct testimony?**

6 A. Yes.

Case UE-
Exhibit PPL/301
Witness: Judith M. Ridenour

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Judith M. Ridenour
DEVELOPMENT OF TAM ADJUSTMENT FOR JANUARY 1, 2008

April 2007

**PACIFIC POWER & LIGHT COMPANY
DEVELOPMENT OF TAM ADJUSTMENT FOR JANUARY 1, 2008
FORECAST 12 MONTHS ENDED DECEMBER 31, 2007**

| Line No. | Description (1) | Sch No. (2) | kWh (3) | Sch 200 Present Revenue (4) | Proposed TAM Adjustment | |
|---|---|----------------|----------------|--------------------------------|-------------------------|------------------|
| | | | | | Revenue (5) | Cents/kWh (6) |
| <u>Residential</u> | | | | | | |
| 1 | Residential | 4 | 5,423,447,855 | \$211,209,746 | \$14,779,907 | 0.273 |
| 2 | Total Residential | | 5,423,447,855 | \$211,209,746 | \$14,779,907 | (6)/(3) |
| <u>Commercial & Industrial</u> | | | | | | |
| 3 | Gen. Svc. < 31 kW | 23 | 1,156,146,030 | \$46,183,677 | \$3,231,813 | 0.280 |
| 4 | Gen. Svc. 31 - 200 kW | 28 | 2,076,346,691 | \$81,166,615 | \$5,679,828 | 0.274 |
| 5 | Gen. Svc. 201 - 999 kW | 30 | 1,332,132,861 | \$50,603,643 | \$3,541,111 | 0.266 |
| 6 | Large General Service >= 1,000 kW | 48 | 3,116,065,292 | \$110,824,805 | \$7,755,231 | 0.249 |
| 7 | Partial Req. Svc. >= 1,000 kW | 47 | 208,767,290 | \$7,313,641 | \$511,790 | 0.249 |
| 8 | Agricultural Pumping Service | 41 | 108,189,038 | \$4,217,123 | \$295,103 | 0.273 |
| 9 | Total Commercial & Industrial | | 7,997,647,202 | \$300,309,504 | \$21,014,876 | |
| <u>Lighting</u> | | | | | | |
| 10 | Outdoor Area Lighting Service | 15 | 11,554,534 | \$247,829 | \$17,342 | 0.150 |
| 11 | Street Lighting Service | 50 | 11,406,000 | \$203,462 | \$14,238 | 0.125 |
| 12 | Street Lighting Service HPS | 51 | 15,574,917 | \$438,584 | \$30,691 | 0.197 |
| 13 | Street Lighting Service | 52 | 1,827,840 | \$39,447 | \$2,760 | 0.151 |
| 14 | Street Lighting Service | 53 | 8,459,069 | \$77,992 | \$5,458 | 0.065 |
| 15 | Recreational Field Lighting | 54 | 836,416 | \$13,274 | \$929 | 0.111 |
| 16 | Total Public Street Lighting | | 49,658,776 | \$1,020,588 | \$71,418 | |
| 17 | Total Sales to Ultimate Consumers | | 13,470,753,833 | \$512,539,838 | \$35,866,201 | |
| 18 | Employee Discount | | | (\$216,385) | (\$15,142) | |
| 19 | Total Sales with Employee Discount | | 13,470,753,833 | \$512,323,453 | \$35,851,059 | |

Case UE-
Exhibit PPL/302
Witness: Judith M. Ridenour

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Judith M. Ridenour
SCHEDULE 200 PROPOSED TARIFF CHANGES

April 2007

PACIFIC POWER & LIGHT COMPANY
COST-BASED
SUPPLY SERVICE

OREGON
SCHEDULE 200
Page 1

Available

In all territory served by the Company in the State of Oregon.

Applicable

To Residential Consumers and Nonresidential Consumers who have elected to take this service or who have elected to take service under Schedules 212 or 213. This service may be taken only in conjunction with the applicable Delivery Service Schedule. Also applicable to Nonresidential Consumers who, based on the announcement date defined in OAR 860-038-270, do not elect to receive standard offer service under Schedule 220 or direct access service under the applicable tariff. In addition, applicable to some Large Nonresidential Consumers on Schedule 400 whose special contracts require prices under the Company's previously applicable Schedule 48T. For Consumers on Schedule 400 who were served on previously applicable Schedule 48T prices under their special contract, this service, in conjunction with Delivery Service Schedule 48, supersedes previous Schedule 48T.

Nonresidential Consumers who had chosen either service under Schedule 220 or who chose to receive direct access service under the applicable tariff may qualify to return to service under this Schedule after meeting the Returning Service Requirements and making a Returning Service Payment as specified in this Schedule.

Energy Charge

The Monthly Billing shall be the Energy Charge.

| | <u>Delivery Service Schedule No.</u> | | <u>Delivery Voltage</u> | | |
|---|--------------------------------------|--------------|-------------------------|---------|--------------|
| | | | Secondary | Primary | Transmission |
| 4 | Per kWh | 0 - 500 kWh | 3.557¢ | | |
| | | 501-1000 kWh | 4.209¢ | | |
| | | > 1000 kWh | 5.185¢ | | |
| For Schedule 4, the kilowatt-hour blocks listed above are based on an average month of approximately 30.42 days. Residential kilowatt-hour blocks shall be prorated to the nearest whole kilowatt-hour based upon the number of whole days in the billing period (see Rule 10 for details). | | | | | |
| 23 | First 3,000 kWh, per kWh | | 4.538¢ | 4.422¢ | |
| | All additional kWh, per kWh | | 3.379¢ | 3.295¢ | |
| 28 | First 20,000 kWh, per kWh | | 4.217¢ | 4.139¢ | |
| | All additional kWh, per kWh | | 4.104¢ | 4.029¢ | |
| 30 | First 20,000 kWh, per kWh | | 4.586¢ | 4.495¢ | |
| | All additional kWh, per kWh | | 3.981¢ | 3.891¢ | |
| 41 | Winter, first 100 kWh/kW, per kWh | | 6.070¢ | 5.912¢ | |
| | Winter, all additional kWh, per kWh | | 4.147¢ | 4.042¢ | |

(I)

(I)

(continued)

| | | |
|------------|---|---|
| Issued: | April 2, 2007 | P.U.C. OR No. 35 |
| Effective: | With service rendered on and after January 1, 2008 | Twelfth Revision of Sheet No. 200-1 Canceling Eleventh Revision of Sheet No. 200-1 |

Issued By

Andrea L. Kelly, Vice President, Regulation

PACIFIC POWER & LIGHT COMPANY
COST-BASED
SUPPLY SERVICE

OREGON
SCHEDULE 200
Page 2

Energy Charge (continued)

| | <u>Delivery Service Schedule No.</u> | <u>Delivery Voltage</u> | | | |
|--|--------------------------------------|--|----------------|---------------------|--------|
| | | <u>Secondary</u> | <u>Primary</u> | <u>Transmission</u> | |
| | 41 | Summer, all kWh, per kWh | 4.147¢ | 4.042¢ | |
| | | For Schedule 41, Winter is defined as service rendered from December 1 through March 31, Summer is defined as service rendered April 1 through November 30. | | | |
| | 47/48 | Per kWh On-Peak | 4.008¢ | 3.829¢ | 3.662¢ |
| | | Per kWh, Off-Peak | 3.908¢ | 3.729¢ | 3.562¢ |
| | | For Schedule 47 and Schedule 48, On-Peak hours are from 6:00 a.m. to 10:00 p.m. Monday through Saturday excluding NERC holidays. Off-Peak hours are remaining hours. | | | |

Due to the expansions of Daylight Saving Time (DST) as adopted under Section 110 of the U.S. Energy Policy Act of 2005, the time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April and for the period between the last Sunday in October and the first Sunday in November.

| | | | | |
|----|---|------------------------------|---------------------------|----------------------------------|
| 52 | For dusk to dawn operation, per kWh | 2.309¢ | | |
| | For dusk to midnight operation, per kWh | 2.309¢ | | |
| 54 | Per kWh | 1.698¢ | | |
| 15 | <u>Type of Luminaire</u> | <u>Nominal Rating</u> | <u>Monthly kWh</u> | <u>Rate Per Luminaire</u> |
| | Mercury Vapor | 7,000 | 76 | \$1.74 |
| | Mercury Vapor | 21,000 | 172 | \$3.95 |
| | Mercury Vapor | 55,000 | 412 | \$9.46 |
| | High Pressure Sodium | 5,800 | 31 | \$0.71 |
| | High Pressure Sodium | 22,000 | 85 | \$1.95 |
| | High Pressure Sodium | 50,000 | 176 | \$4.04 |

50 **A. Company-owned Overhead System**
Street lights supported on distribution type wood poles: Mercury Vapor Lamps.

| <u>Nominal Lumen Rating</u> | <u>7,000</u> (Monthly 76 kWh) | <u>21,000</u> (Monthly 172 kWh) | <u>55,000</u> (Monthly 412 kWh) |
|-----------------------------|----------------------------------|------------------------------------|------------------------------------|
| Horizontal, per lamp | \$1.45 | \$3.28 | \$7.87 |
| Vertical, per lamp | \$1.45 | \$3.28 | |

Street lights supported on distribution type metal poles: Mercury Vapor Lamps.

| <u>Nominal Lumen Rating</u> | <u>7,000</u> (Monthly 76 kWh) | <u>21,000</u> (Monthly 172 kWh) | <u>55,000</u> (Monthly 412 kWh) |
|--|----------------------------------|------------------------------------|------------------------------------|
| On 26-foot poles, horizontal, per lamp | \$1.45 | | |
| On 26-foot poles, vertical, per lamp | \$1.45 | | |
| On 30-foot poles, horizontal, per lamp | | \$3.28 | |
| On 30-foot poles, vertical, per lamp | | \$3.28 | |
| On 33-foot poles, horizontal, per lamp | | | \$7.87 |

(continued)

| | | |
|------------|--|---|
| Issued: | April 2, 2007 | P.U.C. OR No. 35 |
| Effective: | With service rendered on and after January 1, 2008 | Twelfth Revision of Sheet No. 200-2 Canceling Eleventh Revision of Sheet No. 200-2 |

Issued By
Andrea L. Kelly, Vice President, Regulation

PACIFIC POWER & LIGHT COMPANY
COST-BASED
SUPPLY SERVICE

OREGON
SCHEDULE 200
Page 3

Energy Charge (continued)

Delivery Service Schedule No.

B. Company-owned Underground System

| <u>Nominal Lumen Rating</u> | <u>7,000</u> | <u>21,000</u> | <u>55,000</u> |
|--|---------------------|----------------------|----------------------|
| | (Monthly 76 kWh) | (Monthly 172 kWh) | (Monthly 412 kWh) |
| On 26-foot poles, horizontal, per lamp | \$1.45 | | |
| On 26-foot poles, vertical, per lamp | \$1.45 | | |
| On 30-foot poles, horizontal, per lamp | | \$3.28 | |
| On 30-foot poles, vertical, per lamp | | \$3.28 | |
| On 33-foot poles, horizontal, per lamp | | | \$7.87 |

| 51 | <u>Types of Luminaire</u> | <u>Nominal rating</u> | <u>Monthly kWh</u> | <u>Rate Per Luminaire</u> |
|----|----------------------------------|------------------------------|---------------------------|----------------------------------|
| | High Pressure Sodium | 5,800 | 31 | \$0.93 |
| | High Pressure Sodium | 9,500 | 44 | \$1.33 |
| | High Pressure Sodium | 16,000 | 64 | \$1.93 |
| | High Pressure Sodium | 22,000 | 85 | \$2.56 |
| | High Pressure Sodium | 27,500 | 115 | \$3.46 |
| | High Pressure Sodium | 50,000 | 176 | \$5.30 |
| | Metal Halide | 9,000 | 39 | \$1.18 |
| | Metal Halide | 12,000 | 68 | \$2.05 |
| | Metal Halide | 19,500 | 94 | \$2.83 |
| | Metal Halide | 32,000 | 149 | \$4.49 |

| 53 | <u>Types of Luminaire</u> | <u>Nominal rating</u> | <u>Monthly kWh</u> | <u>Rate Per Luminaire</u> |
|----|----------------------------------|------------------------------|---------------------------|----------------------------------|
| | High Pressure Sodium | 5,800 | 31 | \$0.31 |
| | High Pressure Sodium | 9,500 | 44 | \$0.43 |
| | High Pressure Sodium | 16,000 | 64 | \$0.63 |
| | High Pressure Sodium | 22,000 | 85 | \$0.84 |
| | High Pressure Sodium | 27,500 | 115 | \$1.14 |
| | High Pressure Sodium | 50,000 | 176 | \$1.74 |
| | Metal Halide | 9,000 | 39 | \$0.38 |
| | Metal Halide | 12,000 | 68 | \$0.67 |
| | Metal Halide | 19,500 | 94 | \$0.93 |
| | Metal Halide | 32,000 | 149 | \$1.47 |
| | Metal Halide | 107,800 | 354 | \$3.49 |

Non-Listed Luminaire, per kWh 0.987¢

(continued)

| | | |
|------------|---|---|
| Issued: | April 2, 2007 | P.U.C. OR No. 35 |
| Effective: | With service rendered on and after January 1, 2008 | Eleventh Revision of Sheet No. 200-3 Canceling Tenth Revision of Sheet No. 200-3 |

Issued By
Andrea L. Kelly, Vice President, Regulation

Case UE-
Exhibit PPL/303
Witness: Judith M. Ridenour

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Judith M. Ridenour
ESTIMATED EFFECTS OF PROPOSED PRICE CHANGE TO SCHEDULE 200

April 2007

PACIFIC POWER & LIGHT COMPANY
ESTIMATED EFFECT OF PROPOSED PRICE CHANGE TO SCHEDULE 200
ON REVENUES FROM ELECTRIC SALES TO ULTIMATE CONSUMERS
DISTRIBUTED BY RATE SCHEDULES IN OREGON
FORECAST 12 MONTHS ENDED DECEMBER 31, 2007

| Line No. | Description | Sch No. | No. of Cust | MWh | Present Revenues (\$000) | | | Proposed Revenues (\$000) | | | Change | | | Line No. |
|------------------------------------|--|---------|-------------|------------|--------------------------|---------------------|-----------|---------------------------|---------------------|-----------|------------|----------------|-----------|----------|
| | | | | | Base Rates | Adders ¹ | Net Rates | Base Rates | Adders ¹ | Net Rates | Base Rates | % ² | Net Rates | |
| (2) | (1) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | |
| Residential | | | | | | | | | | | | | | |
| 1 | Residential | 4 | 467,946 | 5,423,448 | \$443,679 | \$6,617 | \$450,296 | \$458,459 | \$6,617 | \$465,076 | 3.3% | \$14,780 | 3.3% | |
| 2 | Total Residential | | 467,946 | 5,423,448 | \$443,679 | \$6,617 | \$450,296 | \$458,459 | \$6,617 | \$465,076 | 3.3% | \$14,780 | 3.3% | |
| Commercial & Industrial | | | | | | | | | | | | | | |
| 3 | Gen. Svc. < 31 kW | 23 | 70,185 | 1,156,146 | \$95,208 | (\$5,434) | \$89,774 | \$98,440 | (\$5,434) | \$93,006 | 3.4% | \$3,232 | 3.6% | |
| 4 | Gen. Svc. 31 - 200 kW | 28 | 9,623 | 2,076,347 | \$117,957 | \$11,794 | \$129,751 | \$123,637 | \$11,794 | \$135,430 | 4.8% | \$5,680 | 4.4% | |
| 5 | Gen. Svc. 201 - 999 kW | 30 | 797 | 1,332,133 | \$70,564 | \$4,463 | \$75,027 | \$74,105 | \$4,463 | \$78,568 | 5.0% | \$3,541 | 4.7% | |
| 6 | Large General Service >= 1,000 kW | 48 | 222 | 3,116,066 | \$139,791 | (\$340) | \$139,451 | \$147,546 | (\$340) | \$147,206 | 5.5% | \$7,755 | 5.5% | |
| 7 | Partial Req. Svc. >= 1,000 kW | 47 | 8 | 208,767 | \$9,912 | (\$32) | \$9,880 | \$10,424 | (\$32) | \$10,392 | 5.5% | \$512 | 5.5% | |
| 8 | Agricultural Pumping Service | 41 | 6,240 | 108,189 | \$11,092 | (\$2,600) | \$8,492 | \$11,387 | (\$2,600) | \$8,787 | 2.7% | \$295 | 3.5% | |
| 9 | Agricultural Pumping - Other | 33 | 2,117 | 106,792 | \$1,543 | \$0 | \$1,543 | \$1,543 | \$0 | \$1,543 | 0.0% | \$0 | 0.0% | |
| 10 | Total Commercial & Industrial | | 89,192 | 8,104,440 | \$446,067 | \$7,850 | \$453,917 | \$467,082 | \$7,850 | \$474,932 | 4.7% | \$21,015 | 4.6% | |
| Lighting | | | | | | | | | | | | | | |
| 11 | Outdoor Area Lighting Service | 15 | 7,718 | 11,556 | \$1,404 | \$125 | \$1,529 | \$1,421 | \$125 | \$1,546 | 1.2% | \$17 | 1.1% | |
| 12 | Street Lighting Service | 50 | 317 | 11,406 | \$1,213 | \$113 | \$1,326 | \$1,227 | \$113 | \$1,340 | 1.2% | \$14 | 1.1% | |
| 13 | Street Lighting Service HPS | 51 | 660 | 15,575 | \$2,663 | \$235 | \$2,898 | \$2,694 | \$235 | \$2,928 | 1.2% | \$31 | 1.1% | |
| 14 | Street Lighting Service | 52 | 112 | 1,828 | \$2,177 | \$18 | \$2,195 | \$2,200 | \$18 | \$2,218 | 1.3% | \$3 | 1.2% | |
| 15 | Street Lighting Service | 53 | 229 | 8,459 | \$525 | \$56 | \$581 | \$530 | \$56 | \$586 | 1.0% | \$5 | 0.9% | |
| 16 | Recreational Field Lighting | 54 | 98 | 836 | \$69 | \$5 | \$74 | \$70 | \$5 | \$75 | 1.4% | \$1 | 1.3% | |
| 17 | Total Public Street Lighting | | 9,134 | 49,660 | \$6,091 | \$551 | \$6,642 | \$6,162 | \$551 | \$6,714 | 1.2% | \$71 | 1.1% | |
| 18 | Total Sales to Ultimate Consumers | | 566,272 | 13,577,548 | \$895,837 | \$15,018 | \$910,855 | \$931,703 | \$15,018 | \$946,722 | 4.0% | \$35,866 | 3.9% | |
| 19 | Employee Discount | | | 21,641 | (\$438) | (\$5) | (\$443) | (\$453) | (\$5) | (\$458) | | (\$15) | | |
| 20 | Total Sales with Employee Discount | | 566,272 | 13,577,548 | \$895,399 | \$15,013 | \$910,412 | \$931,250 | \$15,013 | \$946,264 | 4.0% | \$35,851 | 3.9% | |
| 21 | AGA Revenue | | | | \$1,554 | | \$1,554 | \$1,554 | | \$1,554 | | \$0 | | |
| 22 | Total Sales with Employee Discount and AGA | | 566,272 | 13,577,548 | \$896,953 | \$15,013 | \$911,966 | \$932,804 | \$15,013 | \$947,818 | 4.0% | \$35,851 | 3.9% | |

¹ Excludes effects of the BPA Energy Discount (Schedule 98), Low Income Bill Payment Assistance Charge (Schedule 91) and Public Purpose Charge (Schedule 290).

² Percentages shown for Schedules 48 and 47 reflect the combined rate change for both schedules

Case UE-
Exhibit PPL/304
Witness: Judith M. Ridenour

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

PACIFICORP

Exhibit Accompanying Direct Testimony of Judith M. Ridenour
MONTHLY BILLING COMPARISONS

April 2007

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 4 + Supply Service Schedule 200
Residential Service

| kWh | Monthly Billing* | | Difference | Percent Difference |
|-------|------------------|----------------|------------|--------------------|
| | Present Price | Proposed Price | | |
| 100 | \$13.82 | \$14.10 | \$0.28 | 2.03% |
| 200 | \$19.59 | \$20.16 | \$0.57 | 2.91% |
| 300 | \$25.36 | \$26.19 | \$0.83 | 3.27% |
| 400 | \$31.12 | \$32.25 | \$1.13 | 3.63% |
| 500 | \$36.89 | \$38.29 | \$1.40 | 3.80% |
| 600 | \$44.12 | \$45.81 | \$1.69 | 3.83% |
| 700 | \$51.35 | \$53.31 | \$1.96 | 3.82% |
| 800 | \$58.57 | \$60.82 | \$2.25 | 3.84% |
| 900 | \$65.79 | \$68.32 | \$2.53 | 3.85% |
| 1,000 | \$73.02 | \$75.83 | \$2.81 | 3.85% |
| 1,100 | \$81.25 | \$84.35 | \$3.10 | 3.82% |
| 1,200 | \$89.49 | \$92.86 | \$3.37 | 3.77% |
| 1,300 | \$97.72 | \$101.37 | \$3.65 | 3.74% |
| 1,400 | \$105.94 | \$109.88 | \$3.94 | 3.72% |
| 1,500 | \$114.18 | \$118.39 | \$4.21 | 3.69% |
| 1,600 | \$122.42 | \$126.92 | \$4.50 | 3.68% |
| 2,000 | \$155.33 | \$160.95 | \$5.62 | 3.62% |
| 3,000 | \$237.64 | \$246.08 | \$8.44 | 3.55% |
| 4,000 | \$319.96 | \$331.20 | \$11.24 | 3.51% |
| 5,000 | \$402.27 | \$416.33 | \$14.06 | 3.50% |

* Net rate including Schedules 91 and 299 and BPA Energy Discount.

Note: Assumed average billing cycle length of 30.42 days.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 23 + Supply Service Schedule 200
General Service - Secondary Delivery Voltage

| kW Load Size | kWh | Monthly Billing* | | | | | | Percent Difference | |
|-----------------|--------|------------------|-------------|----------------|-------------|--|--|--------------------|-------------|
| | | Present Price | | Proposed Price | | | | Single Phase | Three Phase |
| | | Single Phase | Three Phase | Single Phase | Three Phase | | | | |
| 5 | 500 | \$50 | \$58 | \$52 | \$60 | | | 2.87% | 2.46% |
| | 750 | \$67 | \$75 | \$69 | \$77 | | | 3.22% | 2.88% |
| | 1,000 | \$84 | \$92 | \$87 | \$95 | | | 3.45% | 3.14% |
| | 1,500 | \$117 | \$126 | \$122 | \$130 | | | 3.68% | 3.44% |
| 10 | 1,000 | \$84 | \$92 | \$87 | \$95 | | | 3.45% | 3.14% |
| | 2,000 | \$151 | \$159 | \$157 | \$165 | | | 3.82% | 3.62% |
| | 3,000 | \$218 | \$227 | \$227 | \$235 | | | 3.96% | 3.82% |
| | 4,000 | \$274 | \$282 | \$285 | \$293 | | | 4.22% | 4.10% |
| 20 | 4,000 | \$299 | \$307 | \$310 | \$318 | | | 3.86% | 3.76% |
| | 6,000 | \$409 | \$417 | \$427 | \$435 | | | 4.23% | 4.15% |
| | 8,000 | \$520 | \$528 | \$543 | \$551 | | | 4.44% | 4.37% |
| | 10,000 | \$630 | \$639 | \$659 | \$667 | | | 4.57% | 4.52% |
| 30 | 9,000 | \$625 | \$633 | \$651 | \$659 | | | 4.15% | 4.10% |
| | 12,000 | \$791 | \$799 | \$826 | \$834 | | | 4.37% | 4.33% |
| | 15,000 | \$957 | \$965 | \$1,000 | \$1,009 | | | 4.52% | 4.48% |
| | 18,000 | \$1,123 | \$1,131 | \$1,175 | \$1,183 | | | 4.62% | 4.59% |
| 31 | 9,300 | \$647 | \$655 | \$674 | \$682 | | | 4.15% | 4.09% |
| | 12,400 | \$818 | \$827 | \$854 | \$862 | | | 4.37% | 4.33% |
| | 15,500 | \$990 | \$998 | \$1,034 | \$1,043 | | | 4.52% | 4.48% |
| | 18,600 | \$1,161 | \$1,169 | \$1,215 | \$1,223 | | | 4.62% | 4.59% |

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 23 + Supply Service Schedule 200
General Service - Primary Delivery Voltage

| kW Load Size | kWh | Monthly Billing* | | | | Percent Difference | |
|-----------------|--------|------------------|-------------|----------------|-------------|-----------------------|-------------|
| | | Present Price | | Proposed Price | | Single Phase | Three Phase |
| | | Single Phase | Three Phase | Single Phase | Three Phase | | |
| 5 | 500 | \$49 | \$57 | \$51 | \$59 | 2.92% | 2.51% |
| | 750 | \$66 | \$74 | \$68 | \$76 | 3.31% | 2.93% |
| | 1,000 | \$82 | \$90 | \$85 | \$93 | 3.52% | 3.21% |
| | 1,500 | \$115 | \$123 | \$119 | \$127 | 3.78% | 3.53% |
| 10 | 1,000 | \$82 | \$90 | \$85 | \$93 | 3.52% | 3.21% |
| | 2,000 | \$147 | \$155 | \$153 | \$161 | 3.91% | 3.71% |
| | 3,000 | \$212 | \$221 | \$221 | \$229 | 4.07% | 3.92% |
| | 4,000 | \$266 | \$274 | \$278 | \$286 | 4.34% | 4.20% |
| 20 | 4,000 | \$291 | \$299 | \$302 | \$310 | 3.97% | 3.86% |
| | 6,000 | \$398 | \$406 | \$415 | \$423 | 4.35% | 4.26% |
| | 8,000 | \$505 | \$513 | \$528 | \$536 | 4.57% | 4.49% |
| | 10,000 | \$612 | \$621 | \$641 | \$649 | 4.71% | 4.65% |
| 30 | 9,000 | \$608 | \$616 | \$634 | \$642 | 4.27% | 4.21% |
| | 12,000 | \$769 | \$777 | \$803 | \$812 | 4.50% | 4.45% |
| | 15,000 | \$930 | \$938 | \$973 | \$981 | 4.65% | 4.61% |
| | 18,000 | \$1,091 | \$1,099 | \$1,143 | \$1,151 | 4.76% | 4.72% |

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 28 + Supply Service Schedule 200
Large General Service - Secondary Delivery Voltage

| kW Load Size | kWh | Monthly Billing* | | Percent Difference |
|-----------------|---------|------------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 15 | 4,500 | \$300 | \$325 | 8.35% |
| | 7,500 | \$448 | \$482 | 7.48% |
| | 10,500 | \$597 | \$639 | 7.04% |
| 31 | 9,300 | \$607 | \$633 | 4.33% |
| | 15,500 | \$913 | \$957 | 4.79% |
| | 21,700 | \$1,218 | \$1,279 | 5.03% |
| 40 | 12,000 | \$779 | \$813 | 4.35% |
| | 20,000 | \$1,175 | \$1,231 | 4.80% |
| | 28,000 | \$1,561 | \$1,640 | 5.06% |
| 60 | 18,000 | \$1,164 | \$1,215 | 4.36% |
| | 30,000 | \$1,746 | \$1,830 | 4.85% |
| | 42,000 | \$2,325 | \$2,444 | 5.10% |
| 80 | 24,000 | \$1,540 | \$1,607 | 4.40% |
| | 40,000 | \$2,312 | \$2,425 | 4.88% |
| | 56,000 | \$3,085 | \$3,243 | 5.12% |
| 100 | 30,000 | \$1,913 | \$1,998 | 4.43% |
| | 50,000 | \$2,879 | \$3,020 | 4.90% |
| | 70,000 | \$3,845 | \$4,042 | 5.14% |
| 200 | 60,000 | \$3,760 | \$3,929 | 4.50% |
| | 100,000 | \$5,691 | \$5,974 | 4.96% |
| | 140,000 | \$7,623 | \$8,018 | 5.18% |

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 28 + Supply Service Schedule 200
Large General Service - Primary Delivery Voltage

| kW Load Size | kWh | Monthly Billing* | | Percent Difference |
|-----------------|---------|------------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 15 | 4,500 | \$303 | \$315 | 4.20% |
| | 7,500 | \$442 | \$463 | 4.79% |
| | 10,500 | \$581 | \$611 | 5.10% |
| 31 | 9,300 | \$608 | \$634 | 4.32% |
| | 15,500 | \$896 | \$940 | 4.88% |
| | 21,700 | \$1,182 | \$1,243 | 5.18% |
| 40 | 12,000 | \$780 | \$814 | 4.34% |
| | 20,000 | \$1,151 | \$1,208 | 4.90% |
| | 28,000 | \$1,514 | \$1,593 | 5.22% |
| 60 | 18,000 | \$1,164 | \$1,215 | 4.36% |
| | 30,000 | \$1,710 | \$1,795 | 4.95% |
| | 42,000 | \$2,254 | \$2,372 | 5.26% |
| 80 | 24,000 | \$1,538 | \$1,606 | 4.40% |
| | 40,000 | \$2,263 | \$2,376 | 4.99% |
| | 56,000 | \$2,988 | \$3,146 | 5.29% |
| 100 | 30,000 | \$1,910 | \$1,995 | 4.43% |
| | 50,000 | \$2,816 | \$2,957 | 5.01% |
| | 70,000 | \$3,722 | \$3,920 | 5.31% |
| 200 | 60,000 | \$3,736 | \$3,905 | 4.53% |
| | 100,000 | \$5,548 | \$5,830 | 5.09% |
| | 140,000 | \$7,360 | \$7,755 | 5.37% |

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 30 + Supply Service Schedule 200
Large General Service - Secondary Delivery Voltage

| kW Load Size | kWh | Monthly Billing* | | Percent Difference |
|-----------------|---------|------------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 100 | 30,000 | \$2,113 | \$2,195 | 3.89% |
| | 50,000 | \$2,954 | \$3,091 | 4.64% |
| | 70,000 | \$3,795 | \$3,987 | 5.05% |
| 200 | 60,000 | \$3,773 | \$3,938 | 4.36% |
| | 100,000 | \$5,455 | \$5,729 | 5.02% |
| | 140,000 | \$7,137 | \$7,520 | 5.37% |
| 300 | 90,000 | \$5,546 | \$5,793 | 4.45% |
| | 150,000 | \$8,069 | \$8,480 | 5.09% |
| | 210,000 | \$10,592 | \$11,167 | 5.43% |
| 400 | 120,000 | \$7,257 | \$7,586 | 4.53% |
| | 200,000 | \$10,620 | \$11,168 | 5.16% |
| | 280,000 | \$13,984 | \$14,751 | 5.49% |
| 500 | 150,000 | \$8,973 | \$9,384 | 4.58% |
| | 250,000 | \$13,178 | \$13,863 | 5.20% |
| | 350,000 | \$17,382 | \$18,341 | 5.52% |
| 600 | 180,000 | \$10,690 | \$11,183 | 4.61% |
| | 300,000 | \$15,735 | \$16,557 | 5.22% |
| | 420,000 | \$20,781 | \$21,932 | 5.54% |
| 800 | 240,000 | \$14,123 | \$14,781 | 4.66% |
| | 400,000 | \$20,850 | \$21,946 | 5.26% |
| | 560,000 | \$27,578 | \$29,112 | 5.56% |
| 1000 | 300,000 | \$17,556 | \$18,378 | 4.68% |
| | 500,000 | \$25,965 | \$27,335 | 5.28% |
| | 700,000 | \$34,374 | \$36,292 | 5.58% |

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 30 + Supply Service Schedule 200
Large General Service - Primary Delivery Voltage

| kW Load Size | kWh | Monthly Billing* | | Percent Difference |
|-----------------|---------|------------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 100 | 30,000 | \$2,066 | \$2,148 | 3.98% |
| | 50,000 | \$2,888 | \$3,025 | 4.74% |
| | 70,000 | \$3,711 | \$3,902 | 5.17% |
| 200 | 60,000 | \$3,689 | \$3,853 | 4.46% |
| | 100,000 | \$5,333 | \$5,607 | 5.14% |
| | 140,000 | \$6,977 | \$7,361 | 5.50% |
| 300 | 90,000 | \$5,420 | \$5,666 | 4.55% |
| | 150,000 | \$7,886 | \$8,297 | 5.21% |
| | 210,000 | \$10,353 | \$10,928 | 5.56% |
| 400 | 120,000 | \$7,109 | \$7,438 | 4.62% |
| | 200,000 | \$10,398 | \$10,946 | 5.27% |
| | 280,000 | \$13,686 | \$14,453 | 5.61% |
| 500 | 150,000 | \$8,788 | \$9,199 | 4.68% |
| | 250,000 | \$12,899 | \$13,584 | 5.31% |
| | 350,000 | \$17,010 | \$17,969 | 5.64% |
| 600 | 180,000 | \$10,468 | \$10,961 | 4.71% |
| | 300,000 | \$15,400 | \$16,222 | 5.34% |
| | 420,000 | \$20,333 | \$21,484 | 5.66% |
| 800 | 240,000 | \$13,826 | \$14,484 | 4.76% |
| | 400,000 | \$20,403 | \$21,499 | 5.37% |
| | 560,000 | \$26,980 | \$28,515 | 5.69% |
| 1000 | 300,000 | \$17,184 | \$18,006 | 4.78% |
| | 500,000 | \$25,406 | \$26,776 | 5.39% |
| | 700,000 | \$33,628 | \$35,545 | 5.70% |

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Billing Comparison
Delivery Service Schedule 41 + Supply Service Schedule 200
Agricultural Pumping - Secondary Delivery Voltage

| kW Load Size | kWh | Present Price* | | | Proposed Price* | | | Percent Difference | | | | |
|---------------------|---------|-------------------------------------|------------------------------------|-------------------------------|-------------------------------------|------------------------------------|-------------------------------|-------------------------------------|------------------------------------|-------------------------------|-------|--|
| | | April - November Monthly Bill | December- March Monthly Bill | Annual Load Size Charge | April - November Monthly Bill | December- March Monthly Bill | Annual Load Size Charge | April - November Monthly Bill | December- March Monthly Bill | Annual Load Size Charge | | |
| <u>Single Phase</u> | | | | | | | | | | | | |
| 10 | 3,000 | \$157 | \$176 | \$185 | \$165 | \$185 | \$185 | 5.39% | 4.78% | \$185 | 0.00% | |
| | 5,000 | \$261 | \$281 | \$185 | \$275 | \$295 | \$185 | 5.38% | 5.01% | \$185 | 0.00% | |
| | 7,000 | \$366 | \$385 | \$185 | \$385 | \$405 | \$185 | 5.38% | 5.11% | \$185 | 0.00% | |
| <u>Three Phase</u> | | | | | | | | | | | | |
| 20 | 6,000 | \$313 | \$353 | \$371 | \$330 | \$370 | \$371 | 5.38% | 4.78% | \$371 | 0.00% | |
| | 10,000 | \$522 | \$562 | \$371 | \$550 | \$590 | \$371 | 5.38% | 5.01% | \$371 | 0.00% | |
| | 14,000 | \$731 | \$771 | \$371 | \$770 | \$810 | \$371 | 5.39% | 5.11% | \$371 | 0.00% | |
| 100 | 30,000 | \$1,591 | \$1,789 | \$1,504 | \$1,675 | \$1,873 | \$1,504 | 5.30% | 4.72% | \$1,504 | 0.00% | |
| | 50,000 | \$2,651 | \$2,849 | \$1,504 | \$2,792 | \$2,990 | \$1,504 | 5.30% | 4.93% | \$1,504 | 0.00% | |
| | 70,000 | \$3,712 | \$3,910 | \$1,504 | \$3,909 | \$4,107 | \$1,504 | 5.30% | 5.03% | \$1,504 | 0.00% | |
| 300 | 90,000 | \$4,772 | \$5,366 | \$3,770 | \$5,025 | \$5,620 | \$3,770 | 5.30% | 4.72% | \$3,770 | 0.00% | |
| | 150,000 | \$7,954 | \$8,548 | \$3,770 | \$8,376 | \$8,970 | \$3,770 | 5.30% | 4.93% | \$3,770 | 0.00% | |
| | 210,000 | \$11,135 | \$11,729 | \$3,770 | \$11,726 | \$12,320 | \$3,770 | 5.30% | 5.03% | \$3,770 | 0.00% | |

* Net rate including Schedules 91 and 299 and BPA Energy Discount.

Pacific Power & Light Company
Billing Comparison
Delivery Service Schedule 41 + Supply Service Schedule 200
Agricultural Pumping - Primary Delivery Voltage

| kW Load Size | kWh | Present Price* | | | Proposed Price* | | | Percent Difference | | | | |
|---------------------|---------|-------------------------------------|------------------------------------|-------------------------------|-------------------------------------|------------------------------------|-------------------------------|-------------------------------------|------------------------------------|-------------------------------|--|--|
| | | April - November Monthly Bill | December- March Monthly Bill | Annual Load Size Charge | April - November Monthly Bill | December- March Monthly Bill | Annual Load Size Charge | April - November Monthly Bill | December- March Monthly Bill | Annual Load Size Charge | | |
| <u>Single Phase</u> | | | | | | | | | | | | |
| 10 | 3,000 | \$150 | \$169 | \$185 | \$158 | \$177 | \$185 | 5.64% | 4.99% | 0.00% | | |
| | 5,000 | \$249 | \$268 | \$185 | \$263 | \$283 | \$185 | 5.64% | 5.24% | 0.00% | | |
| | 7,000 | \$349 | \$368 | \$185 | \$369 | \$388 | \$185 | 5.64% | 5.35% | 0.00% | | |
| <u>Three Phase</u> | | | | | | | | | | | | |
| 20 | 6,000 | \$299 | \$338 | \$371 | \$316 | \$354 | \$371 | 5.64% | 5.00% | 0.00% | | |
| | 10,000 | \$498 | \$537 | \$371 | \$527 | \$565 | \$371 | 5.64% | 5.24% | 0.00% | | |
| | 14,000 | \$698 | \$736 | \$371 | \$737 | \$776 | \$371 | 5.64% | 5.35% | 0.00% | | |
| 100 | 30,000 | \$1,519 | \$1,712 | \$1,494 | \$1,604 | \$1,796 | \$1,494 | 5.55% | 4.93% | 0.00% | | |
| | 50,000 | \$2,532 | \$2,725 | \$1,494 | \$2,673 | \$2,865 | \$1,494 | 5.55% | 5.16% | 0.00% | | |
| | 70,000 | \$3,545 | \$3,738 | \$1,494 | \$3,742 | \$3,935 | \$1,494 | 5.55% | 5.27% | 0.00% | | |
| 300 | 90,000 | \$4,558 | \$5,136 | \$3,760 | \$4,811 | \$5,389 | \$3,760 | 5.55% | 4.93% | 0.00% | | |
| | 150,000 | \$7,597 | \$8,175 | \$3,760 | \$8,019 | \$8,596 | \$3,760 | 5.55% | 5.16% | 0.00% | | |
| | 210,000 | \$10,636 | \$11,213 | \$3,760 | \$11,226 | \$11,804 | \$3,760 | 5.55% | 5.27% | 0.00% | | |

* Net rate including Schedules 91 and 299 and BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 48 + Supply Service Schedule 200
Large General Service - Secondary Delivery Voltage
1,000 kW and Over

| kW Load Size | kWh | Monthly Billing | | Percent Difference |
|-----------------|-----------|-----------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 1,000 | 300,000 | \$16,590 | \$17,359 | 4.64% |
| | 500,000 | \$24,299 | \$25,581 | 5.28% |
| | 700,000 | \$32,008 | \$33,804 | 5.61% |
| 2,000 | 600,000 | \$32,861 | \$34,400 | 4.68% |
| | 1,000,000 | \$48,279 | \$50,844 | 5.31% |
| | 1,400,000 | \$63,697 | \$67,288 | 5.64% |
| 4,000 | 1,200,000 | \$65,402 | \$68,480 | 4.71% |
| | 2,000,000 | \$96,079 | \$101,208 | 5.34% |
| | 2,800,000 | \$126,651 | \$133,832 | 5.67% |
| 6,000 | 1,800,000 | \$97,201 | \$101,817 | 4.75% |
| | 3,000,000 | \$143,059 | \$150,754 | 5.38% |
| | 4,200,000 | \$188,918 | \$199,690 | 5.70% |

Notes:

On-Peak kWh 61.24%
Off-Peak kWh 38.76%

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 48 + Supply Service Schedule 200
Large General Service - Primary Delivery Voltage
1,000 kW and Over

| kW Load Size | kWh | Monthly Billing | | Percent Difference |
|-----------------|-----------|-----------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 1,000 | 300,000 | \$15,272 | \$16,041 | 5.04% |
| | 500,000 | \$22,610 | \$23,892 | 5.67% |
| | 700,000 | \$29,948 | \$31,744 | 5.99% |
| 2,000 | 600,000 | \$30,265 | \$31,804 | 5.08% |
| | 1,000,000 | \$44,942 | \$47,506 | 5.71% |
| | 1,400,000 | \$59,618 | \$63,209 | 6.02% |
| 4,000 | 1,200,000 | \$60,252 | \$63,330 | 5.11% |
| | 2,000,000 | \$89,445 | \$94,575 | 5.73% |
| | 2,800,000 | \$118,535 | \$125,716 | 6.06% |
| 6,000 | 1,800,000 | \$90,053 | \$94,669 | 5.13% |
| | 3,000,000 | \$133,686 | \$141,381 | 5.76% |
| | 4,200,000 | \$177,320 | \$188,092 | 6.07% |

Notes:

On-Peak kWh 61.24%
Off-Peak kWh 38.76%

* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

Pacific Power & Light Company
Monthly Billing Comparison
Delivery Service Schedule 48 + Supply Service Schedule 200
Large General Service - Transmission Delivery Voltage
1,000 kW and Over

| kW Load Size | kWh | Monthly Billing | | Percent Difference |
|-----------------|-----------|-----------------|----------------|-----------------------|
| | | Present Price | Proposed Price | |
| 1,000 | 300,000 | \$14,005 | \$14,775 | 5.49% |
| | 500,000 | \$20,987 | \$22,269 | 6.11% |
| | 700,000 | \$27,968 | \$29,763 | 6.42% |
| 2,000 | 600,000 | \$27,742 | \$29,281 | 5.55% |
| | 1,000,000 | \$41,705 | \$44,270 | 6.15% |
| | 1,400,000 | \$55,668 | \$59,259 | 6.45% |
| 4,000 | 1,200,000 | \$55,217 | \$58,295 | 5.57% |
| | 2,000,000 | \$82,983 | \$88,112 | 6.18% |
| | 2,800,000 | \$110,645 | \$117,826 | 6.49% |
| 6,000 | 1,800,000 | \$82,824 | \$87,441 | 5.57% |
| | 3,000,000 | \$124,317 | \$132,011 | 6.19% |
| | 4,200,000 | \$165,810 | \$176,582 | 6.50% |

Notes:
On-Peak kWh 56.02%
Off-Peak kWh 43.98%
* Net rate including Schedules 91 and 299 and not including BPA Energy Discount.

