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July 22, 2014

Via Electronic Filing and U.S. Mail

Oregon Public Utility Commission Attention: Filing Center PO Box 1088 Salem OR 97308-1088

Re: UE 286 – PGE's Net Variable Power Costs and Annual Power Cost Update

Attention Filing Center:

Enclosed for filing in the above-referenced docket are an original and five copies of the:

- Partial Stipulation; and
- Joint Testimony in Support of Partial Stipulation (Stipulating Parties/ Crider Jenks Mullins Niman/100).

The original signature pages will be forwarded to the Filing Center upon receipt by our office.

These documents are also being filed by electronic mail with the Filing Center and electronically served upon the UE 286 service list.

Thank you in advance for your assistance.

Sincerely,

Douglas C. Tingey Associate General Counsel

DCT:qal Enclosures cc: Service List-UE 286

CERTIFICATE OF SERVICE

I hereby certify that I served **Joint Parties' Partial Stipulation and Joint Testimony in Support of Partial Stipulation,** by electronic mail to those parties whose email addresses appear on the attached service list for OPUC Docket No. UE 286.

DATED at Portland, Oregon, this 22nd day of July, 2014.

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BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

UE 286

In the Matter of

PORTLAND GENERAL ELECTRIC COMPANY's

PARTIAL STIPULATION

Net Variable Power Costs and Annual Power Cost Update

This Stipulation ("Stipulation") is among Portland General Electric Company ("PGE"), Staff of the Public Utility Commission of Oregon ("Staff"), the Citizens' Utility Board of Oregon ("CUB"), and the Industrial Customers of Northwest Utilities ("ICNU") (collectively, the "Stipulating Parties").

I. INTRODUCTION

As part of its general rate case filing, docketed as UE 283, on February 13, 2014, PGE filed its annual power cost update as required by Tariff Schedule 125. That filing included testimony and work papers, including substantial minimum filing requirements ("MFRs"). Consistent with Schedule 125, PGE updated and supplemented its power cost filing and information required under the MFRs on April 1, 2014.

By order of the Commission, this docket was created for the power cost portion of PGE's general rate case.

The parties in this docket sent and PGE responded to data requests. PGE has filed, and will continue to file, updates to its power costs in accordance with the schedule set by the ALJ in this docket. Staff, CUB, and ICNU filed testimony on May 27, 2014. No other party filed testimony. The Stipulating Parties held settlement conferences on June 4 and

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June 13, 2014. As a result of those discussions, the Parties have reached agreement settling several of the issues raised in this proceeding. The Stipulating Parties request that the Commission issue an order adopting this Stipulation.

II. TERMS OF STIPULATION

1. This Stipulation settles the issues set out below. Two issues raised by ICNU and one issue raised by OPUC Staff in this docket are not included in this Stipulation.

2. <u>Market Forward Curves</u>. The Stipulating Parties agree that no change will be made to power costs for this issue. The Stipulating Parties further agree that prior to April 1, 2015, PGE will host a workshop to address PGE's development of market forward curves and the role of hedging in the Monet power cost model.

3. <u>Tucannon Capacity Factor</u>. For purposes of this docket and Docket UE 283, a capacity factor of 38.2% will be used for the Tucannon River Wind Farm. PGE intends to update to the final PGE commissioned wind study in the 2016 AUT proceeding and parties will have the opportunity to address the update in that proceeding.

4. <u>Monet Modeling Changes</u>. PGE's Monet power cost model will be modified to reflect full load operation as the initial and end state for the following thermal plants: Boardman, Colstrip Units 3 & 4, Coyote Springs, and Port Westward I.

5. <u>Colstrip Incremental Wheeling</u>. Colstrip wheeling expense will be reduced by approximately \$0.17 million.

6. <u>Tucannon Transmission Credits</u>. Costs in this docket will reflect the assumption that PGE will receive twelve months of transmission credits in 2015 related to the Tucannon plant. If PGE receives less than twelve months of transmission credits, the difference between the assumed amount of credits and the actual amount of credits

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received by PGE will be included, without interest, in net variable power costs for 2016. PGE will include a forecast of the credits in future power cost proceedings for as long as the credits are available.

7. <u>Montana Beneficial Use Tax</u>. ICNU's proposed adjustment to expenses for the Montana Beneficial Use Tax is withdrawn.

8. <u>Remaining Issues</u>. The only issues remaining in this docket are the ICNU proposed adjustments for Beaver Point-to-Point Transmission costs and Wind Integration costs, and Staff's proposal to modify the order in docket UE 228, which would allow for price elasticity to be used in demand forecasting even if prices change by less than three percent in a general rate case proceeding.

9. This Stipulation is not precedential as to any issue or party, except as otherwise provided in the Stipulation.

10. The Stipulating Parties recommend and request that the Commission approve the adjustments described above to PGE's 2015 power costs as appropriate and reasonable resolutions of the issues settled herein.

11. The Stipulating Parties agree that this Stipulation is in the public interest and will contribute to rates that are fair, just and reasonable, consistent with the standard in ORS 756.040.

12. The Stipulating Parties agree that this Stipulation represents a compromise in the positions of the parties. Without the written consent of all Stipulating Parties, evidence of conduct or statements, including but not limited to term sheets or other documents created solely for use in settlement conferences in this docket, are confidential and not admissible in the instant or any subsequent proceeding, unless independently discoverable or offered for other purposes allowed under ORS 40.190.

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13. The Stipulating Parties have negotiated this Stipulation as an integrated document. If the Commission rejects all or any material part of this Stipulation, or adds any material condition to any final order that is not consistent with this Stipulation, each Stipulating Party reserves its right (i) to withdraw from the Stipulation, upon written notice to the Commission and other Parties within five (5) business days of service of the final order that rejects this Stipulation, in whole or material part, or adds such material condition; (ii) pursuant to OAR 860-001-0350(9), to present evidence and argument on the record in support of the Stipulation, including the right to cross-examine witnesses, introduce evidence as deemed appropriate to respond fully to issues presented, and raise issues that are incorporated in the settlements embodied in this Stipulation; and (iii) pursuant to ORS 756.561 and OAR 860-001-0720, to seek rehearing or reconsideration or to appeal the Commission order under ORS 756.610. Nothing in this paragraph provides any Stipulating Party the right to withdraw from this Stipulation as a result of the Commission's resolution of issues that this Stipulation does not resolve.

14. This Stipulation will be offered into the record in this proceeding as evidence pursuant to OAR § 860-01-0350(7). The Stipulating Parties agree to support this Stipulation throughout this proceeding and in any appeal, provide witnesses to support this Stipulation (if specifically required by the Commission), and recommend that the Commission issue an order adopting the settlements contained herein. The Stipulating Parties also agree to cooperate in drafting and submitting an explanatory brief and written testimony, per OAR § 860-001-0350(7), unless such requirement is waived. By entering into this Stipulation, no Stipulating Party shall be deemed to have approved, admitted or consented to the facts, principles, methods or theories employed by any other Stipulating Party in arriving at the terms of this Stipulation. Except as provided in this Stipulation, no

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15. This Stipulation may be signed in any number of counterparts, each of which will be an original for all purposes, but all of which taken together will constitute one and the same agreement.

DATED this 22th day of July, 2014.

ORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

> CITIZENS' UTILITY BOARD OF OREGON

INDUSTRIAL CUSTOMERS OF NORTHWEST UTILITIES

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15. This Stipulation may be signed in any number of counterparts, each of which will be an original for all purposes, but all of which taken together will constitute one and the same agreement.

DATED this DATED this day of July, 2014.

PORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

CITIZENS' UTILITY BOARD OF OREGON

INDUSTRIAL CUSTOMERS OF NORTHWEST UTILITIES

Page 5 - UE 286 STIPULATION

15. This Stipulation may be signed in any number of counterparts, each of which will be an original for all purposes, but all of which taken together will constitute one and the same agreement.

DATED this ____ day of July, 2014.

PORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

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Page 5 – UE 286 STIPULATION

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DATED this ____ day of July, 2014.

PORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

CITIZENS' UTILITY BOARD OF OREGON

IDUSTRIAL CUSTOMERS OF NORTHWEST UTILITIES

BEFORE THE PUBLIC UTILITY COMMISSION

OF THE STATE OF OREGON

UE 286

Net Variable Power Costs and Annual Power Cost Update

PORTLAND GENERAL ELECTRIC COMPANY

Joint Testimony in Support of Partial Stipulation

John Crider Bob Jenks Bradley Mullins Mike Niman

July 22, 2014

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I. Introduction

1	Q.	Please state your names and positions with your respective organizations.
2	A.	My name is John Crider. I am a Senior Power Cost Analyst for the Public Utility
3		Commission of Oregon (OPUC) Staff. My qualifications appear in Staff Exhibit 101.
4		My name is Bob Jenks. I am the Executive Director of the Citizens' Utility Board of
5		Oregon (CUB). My qualifications appear in CUB Exhibit 101.
6		My name is Bradley Mullins. I am an independent consultant testifying on behalf of the
7		Industrial Customers of Northwest Utilities (ICNU). My qualifications appear in ICNU
8		Exhibit 101.
9		My name is Mike Niman. I am the Manager of Financial Analysis for Portland General
10		Electric (PGE). My qualifications appear in PGE Exhibit 500.
11	Q.	What is the purpose of your testimony?
12	A.	Our purpose is to describe and support a stipulation (the "Stipulation") between OPUC
13		Staff, CUB, ICNU, and PGE (the "Stipulating Parties") regarding some of the issues raised
14		in this docket (UE 286). The Stipulation resolves several of the issues related to PGE's
15		2015 forecast of net variable power costs (NVPC) identified by the Stipulating Parties.
16		While there are other parties to this case, none participated in settlement discussions and we
17		are not aware of any who oppose the Stipulation.
18	Q.	Please summarize the activity in this proceeding leading up to the Stipulation.
19	A.	PGE filed its initial forecast of 2015 NVPC on February 13, 2014 as part of its general rate
20		case filing (UE 283). The NVPC portion of the filing was assigned its own docket, UE 286.
21		PGE's NVPC forecast was updated on April 1. On May 7, parties held a workshop to
22		discuss issues and review PGE's MONET power cost forecasting model. OPUC Staff,

1	CUB, and ICNU submitted opening testimony on May 27, 2014. The parties subsequently
2	held settlement discussions on June 4 and June 13. A settlement agreement resolving th
3	issues identified below was reached at the June 13 meeting.
4	Q. Please summarize the issues addressed in the Stipulation.
5	A. The Stipulation resolves several issues related to PGE's 2015 forecast of NVPC including:
6	• Market Forward Curves;
7	• Annual capacity factor and transmission credits from Tucannon River Wind Farm
8	(Tucannon);
9	• MONET thermal plant dispatch logic;
10	• Colstrip incremental wheeling; and,
11	Montana Beneficial Use Tax.
12	We explain the resolution of each of these issues below.
13	Q. Please summarize the remaining issues not addressed in the Stipulation.
14	A. The Stipulation does not include the following issues:
15	• ICNU's proposal to exclude 315 MW of the Beaver point-to-point (PTP) transmission
16	contract (Beaver PTP Contract) with Bonneville Power Administration (BPA).
17	• ICNU's proposal to forecast 2015 NVPC as if PGE had elected to self-integrate a
18	aspects of both Biglow Canyon Wind Farm (Biglow) and Tucannon.
19	• OPUC Staff's proposal to modify the UE 228 stipulation so that it does not apply to th
20	load forecast in a power cost docket filed with a general rate case.
21	PGE addressed these issues in its reply testimony filed on June 16. Parties will file rebutta
22	testimony on July 3.

II. Stipulated Issues

A. Market Forward Curves

Q. Did any of the parties express concerns about the Market Forward Curves used in PGE's MONET model?

A. Yes. OPUC Staff identified concerns with the electric and natural gas market forward curves used in PGE's MONET model. Based on three years of data, OPUC Staff noted a variance between the market forward curves from previous AUT filings and historical actual index prices. In its Opening Testimony, OPUC Staff proposed an adjustment based on its analysis of the market forward curves. PGE noted that OPUC Staff inadvertently did not update MONET to re-mark the financial contracts to the new market forward curves, which impacted OPUC Staff's proposal.

10 Q. Have parties resolved this issue in the Stipulation?

A. Yes. Based on the discussions regarding the market forward curves and the MONET model,
 the Stipulating Parties agreed that no adjustment will be made to the market forward curves
 used by PGE. Additionally, PGE agreed to host a workshop prior to April 1, 2015 to
 address market forward curves and the role of hedging in PGE's MONET model.

B. Tucannon

Q. What concerns regarding Tucannon and PGE's 2015 NVPC forecast did parties identify?

A. Both CUB and ICNU identified concerns with PGE's proposal regarding the estimated
 capacity factor of Tucannon in its February 13 initial filing. ICNU also identified concerns

regarding the modeling of the Tucannon point-to-point (PTP) transmission credits in
 MONET. We address these two issues below.

1. Capacity Factor

3 Q. What capacity factor did PGE propose in its February 13 initial filing for Tucannon?

- A. PGE proposed to use the 36.8 percent capacity factor that was used to evaluate Tucannon in
 the Renewable Resource Request for Proposal in Docket No. UM 1613 and update to the
 final PGE commissioned study that would be conducted once all of the turbine foundations
 had been poured.¹
- 8 Q. What concerns did parties raise?
- 9 A. Both CUB and ICNU raised concerns regarding the timing of PGE's proposed update to the
 Tucannon capacity factor and the opportunity to perform a full review of the updated
 11 capacity factor.²

12 Q. Have parties resolved this issue in the Stipulation?

A. Yes. For settlement purposes, the Stipulating Parties have agreed that a capacity factor of 38.2% will be used for Tucannon in this docket and Docket No. UE 283. This capacity factor represents the average of the results of four draft studies performed since PGE selected Tucannon through its Renewable Resource Request for Proposal. PGE intends to update to the final PGE commissioned wind study in the 2016 AUT proceeding and parties will have the opportunity to address the update in that proceeding.

2. Transmission Credits

19 Q. What are the transmission credits at issue?

¹ See Niman-Peschka-Hager/500/p. 13/lines 8-20

² See ICNU/100 Mullins/18 at lines 9-15 in Docket No. UE 286 and CUB/100 Jenks-McGovern/10 at lines 10-12 in Docket No. UE 283.

1	A.	As part of the Tucannon project, PGE acquired BPA PTP transmission credits. The credits
2		will be paid to PGE over a number of years as offsetting credits to Tucannon's BPA PTP
3		transmission costs. In PGE's April 1 NVPC update filing, MONET was updated to reflect
4		an expected 60-day delay between the plant online date and the start of receipt of the
5		Tucannon transmission credits based on information provided during discussions with
6		PGE's BPA Account Executive. As a result of this delay, the Tucannon transmission credits
7		were not expected to start until the next BPA billing period following the 60-days, which
8		would be March 1, 2015.
9	Q.	What is ICNU's proposal for modeling the Tucannon transmission credits?
10	A.	In its Opening Testimony, ICNU stated:
11 12		The Company included BPA transmission credits in March through December of the test period, but excluded them in January and February. I propose a
13 14		correction that applies the BPA transmission credits in January and February of the test period.
	Q.	
14	-	the test period.
14 15	-	the test period. Have parties resolved this issue in the Stipulation?
14 15 16	-	the test period. Have parties resolved this issue in the Stipulation? Yes. The Stipulating Parties agreed that the 2015 NVPC forecast in this docket will reflect
14 15 16 17	-	the test period. Have parties resolved this issue in the Stipulation? Yes. The Stipulating Parties agreed that the 2015 NVPC forecast in this docket will reflect twelve months of Tucannon transmission credits. If the Tucannon transmission credits do
14 15 16 17 18	-	the test period. Have parties resolved this issue in the Stipulation? Yes. The Stipulating Parties agreed that the 2015 NVPC forecast in this docket will reflect twelve months of Tucannon transmission credits. If the Tucannon transmission credits do not start on January 1, 2015 and PGE receives less than twelve months of credits during
14 15 16 17 18 19	-	the test period. Have parties resolved this issue in the Stipulation? Yes. The Stipulating Parties agreed that the 2015 NVPC forecast in this docket will reflect twelve months of Tucannon transmission credits. If the Tucannon transmission credits do not start on January 1, 2015 and PGE receives less than twelve months of credits during 2015, then the difference between the forecasted amount of credits and the actual amount of
14 15 16 17 18 19 20	-	the test period. Have parties resolved this issue in the Stipulation? Yes. The Stipulating Parties agreed that the 2015 NVPC forecast in this docket will reflect twelve months of Tucannon transmission credits. If the Tucannon transmission credits do not start on January 1, 2015 and PGE receives less than twelve months of credits during 2015, then the difference between the forecasted amount of credits and the actual amount of credits received by PGE will be included in PGE's 2016 NVPC forecast. The difference

C. MONET Thermal Plant Dispatch Logic

23 Q. What concerns did ICNU raise regarding the thermal plant dispatch logic in MONET?

24 A. In its Opening Testimony, ICNU stated:

The dispatch logic in the MONET model assumes that every thermal facility is
committed down in the hour immediately preceding the study period. This causes
each plant to incur start-up related costs in the first hours of the study even
though the plants may have been running prior to the study period. The model
also assumes that plants must be ramped-down at the end of the test period.

6 ICNU proposed that plants which are economic in the first hour of the study

- 7 period be assumed to be running at full capacity prior to the study period, and that
- 8 plants which are economic in the last hour of the study period be assumed to be
- 9 running at full capacity after the study period.

1 2

3 4 5

10 Q. Does this apply to all thermal plants in MONET?

A. No. ICNU's proposal applies only to Port Westward 1, Boardman, Coyote Springs, and
 Colstrip Units 3 & 4.

13 Q. Have parties resolved this issue in the Stipulation?

A. Yes. The Stipulating Parties agreed that PGE will modify the thermal plant dispatch logic so
that the initial and end state of the above stated plants is 'full load' operation. This does not
preclude any party from proposing changes or updates to the dispatch logic in MONET in
future proceedings.

D. Colstrip Incremental Wheeling

18 Q. What is Colstrip incremental wheeling?

A. Colstrip Units 3 & 4 were constructed in the mid 1980s and are owned by PGE, Avista, Puget Sound Energy, PPL Montana, Northwestern Energy, and PacifiCorp (collectively the "Colstrip Owners"). At the time, the transmission system was designed to accommodate the combined capacity of Units 3 & 4. In the mid 1990s, Units 3 & 4 were each upgraded and capacity was added to each unit. As a result of the upgrades, PGE's firm transmission rights

1		are insufficient to wheel the full output of Colstrip Units 3 & 4 to PGE load. PGE purchases
2		incremental transmission in order to wheel the remaining output from Colstrip Units 3 & 4.
3	Q.	Did any of the parties express concerns about the forecast of 2015 Colstrip incremental
4		wheeling expenses?
5	A.	Yes. As stated in its Opening Testimony, ICNU was concerned that "[t]he amount included
6		in MONET, however, does not reflect amounts historically paid" ICNU proposed a
7		reduction of \$0.38 million to PGE's estimate of 2015 Colstrip incremental wheeling
8		expense.
9	Q.	Have parties resolved this issue in the Stipulation?
10	A.	Yes. PGE analyzed historical purchases of incremental transmission to support output from
11		Colstrip Units 3 & 4. Based on historical purchases made in a year reflecting approximately
12		"normal" operations, the Stipulating Parties agreed to an approximate \$0.17 million
13		reduction to PGE's estimate of 2015 Colstrip incremental wheeling expense. ³
		E. Montana Beneficial Use Tax

14 Q. What is the Montana Beneficial Use Tax?

15 A. Montana imposes a general beneficial use tax on private uses of tax-exempt property, which

16 includes 500 kV transmission lines. PGE has contractual rights to transmit power from

17 Colstrip over BPA's 500 kV transmission lines, which are tax-exempt property, and PGE is

required to pay the Montana Beneficial Use Tax for the use of the transmission lines.

19 Q. What concerns did ICNU raise regarding the forecast for 2015 Montana Beneficial Use

- 20 Tax expenses?
- 21 A. In its Opening Testimony, ICNU stated:

³ PGE's MONET model forecasts NVPC based on approximately "normal" operations in the test year.

1Because beneficial use taxes are assessed much like a property tax, I would not2expect them to change significantly from year to year. Yet, in the Company's3filing, beneficial use taxes are forecast to be 4.4 times greater than what they4were in 2013. The Company's filing does not provide documentation to support a5known and measurable adjustment change from historical levels; therefore, the6historical levels should be used in the filing.

7

Q. Have parties resolved this issue in the Stipulation?

8	A.	Yes. PGE noted that ICNU inadvertently used 2013 actuals from another Montana Tax.
9		PGE provided 2013 actual expense for the Montana Beneficial Use Tax that supported
10		PGE's filed estimate of 2015 Montana Beneficial Use Tax and ICNU agreed to withdraw its
11		proposed adjustment. PGE has taken steps to more clearly identify the Montana Beneficial
12		Use Tax in its accounting system.

III. Recommendation to the Commission

Q. What is your recommendation to the Commission regarding the adjustments contained in the Stipulation?

The Stipulating Parties recommend and request that the Commission approve these 15 Α. adjustments. Based on careful review of PGE's, OPUC Staff's, CUB's, and ICNU's filings; 16 consideration of the documentation provided in PGE's Minimum Filing Requirements 17 (MFRs); thorough discovery conducted by parties in UE 286, including over 100 data 18 requests; and thorough discussion of the issues during the settlement conferences, we 19 believe the proposed adjustments represent appropriate and reasonable resolutions to several 20 of the issues in this docket. These adjustments will contribute to fair, just, and reasonable 21 rates, consistent with the standard in ORS 756.040. 22

23 Q. Does this conclude your testimony?

24 A. Yes.