BEFORE THE OREGON PUBLIC UTILITY COMMISSION

UE 250 & UE 251

In the Matter of)
PORTLAND GENERAL ELECTRIC))
2013 Annual Update Tariff (UE 250) and))))
Annual Power Cost Update; Advice No. 12-08, Schedules 125 and 126 to include chemical costs associated with the Boardman plant's pollution control requirements.)))))))
(UE 251))

OPENING TESTIMONY OF MICHAEL C. DEEN

ON BEHALF OF

THE INDUSTRIAL CUSTOMERS OF NORTHWEST UTILITIES

July 6, 2012

I. INTRODUCTION AND SUMMARY

2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Michael C. Deen, and my business address is 900 Washington Street, Suite
780, Vancouver, Washington 98660. I am employed by Regulatory and Cogeneration
Services, Inc. ("RCS"), a utility rate and consulting firm.

6 **Q.**

1

PLEASE DESCRIBE YOUR BACKGROUND AND EXPERIENCE.

- 7 A. I have been involved in the electric utility industry for about 6 years. During that time, I 8 have served as an analyst and expert on a variety of power supply, cost, ratemaking, and 9 policy topics, primarily regarding the Bonneville Power Administration and other utilities 10 in the Pacific Northwest. I have also testified before the Washington Utilities and 11 Transportation Commission in proceedings related to Puget Sound Energy, Avista, and 12 PacifiCorp. I recently provided testimony before the Oregon Public Utility Commission 13 (the "Commission" or "OPUC") in PacifiCorp's currently active UE 245 Transition 14 Adjustment Mechanism and UE 246 General Rate Adjustment dockets. A further
- 15 description of my educational background and work experience can be found in Exhibit16 ICNU/101.

17 Q. ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?

18 A. I am testifying on behalf of the Industrial Customers of Northwest Utilities ("ICNU").

- 19 ICNU is a non-profit trade association whose members are large industrial customers
- 20 served by electric utilities throughout the Pacific Northwest, including Portland General
- 21 Electric Company ("PGE" or the "Company").

1Q.PLEASE BRIEFLY SUMMARIZE YOUR RECOMMENDATIONS IN THIS2PROCEEDING.

3	A.	This testimony will address changes to the level of the Company's Net Variable Power
4		Costs ("NVPC") proposed in this proceeding in two areas. These are the proposed
5		changes in costs associated with day-ahead wind forecast error, and chemical costs
6		related to environmental controls at the Boardman coal facility. ICNU recommends that
7		the Commission exclude all of these costs from the Company's NVPC in this proceeding.
8		The effect on the Company's allowed NVPC in this proceeding for these changes is as

9 follows:

NVPC Adjustments (N	Millions)
Item	NVPC Impact
Boardman Pollution Controls	\$3.1
Wind Integration (Day Ahead)	\$4.3
Total	\$7.4

10 The remainder of this testimony discusses the scope and background of the Annual

11 Update Tariff ("AUT") in its current form and why the Commission should exclude these

12 particular costs from the Company's NVPC in this proceeding.

13II.AUT PROCEEDING BACKGROUND AND SCOPE

14Q.PLEASE DESCRIBE YOUR UNDERSTANDING OF HOW THE CURRENT AUT15PROCESS CAME INTO EFFECT AND ITS PURPOSE.

16 A. The AUT updates PGE's rates each year to reflect changes in NVPC. The current AUT

17 was adopted in 2007, as a means of replacing the existing Resource Valuation

- 18 Mechanism ("RVM") in Schedule 125. <u>In Re Portland Gen. Elec. Co.</u>, OPUC Docket
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	mechanism ("PCAM").
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A.	The scope of AUT proceedings are limited to the eight items listed in the current version
	of Schedule 125. The AUT version of Schedule 125 contains a set of applicable inputs
	different from the previous RVM version. It also contains an express prohibition on
	inclusion of un-enumerated inputs. In an AUT proceeding, PGE is limited to the
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	options, etc.); and
	(8) transportation contracts.

PGE Schedule 125: Annual Power Cost Update, Third Revision of Sheet No. 125-1
 (2011–2012).

3		Moreover, the Schedule explicitly states that "[n]o other changes or updates will
4		be made in the annual filings" Id. (emphasis added). The Commission has
5		indicated that this limitation will be strictly enforced. See In Re Portland Gen. Elec. Co.,
6		OPUC Docket No. UE 198, Order No. 08-505 at 2 (Oct. 21, 2008) (stating that "PGE's
7		AUT filings are usually limited to updating only those items listed in its Schedule 125
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9		general rate case or upon the agreement of all the parties.
10		The Commission also has limited the consideration of model updates to a separate
11		docket (rather than providing for them in the AUT process). OPUC Docket Nos. UE
12		180/UE 181/UE 184, Order No. 07-015 at 19. Notably, however, when PGE included its
13		AUT as a component of its 2008 general rate case, it proposed other changes to the
14		NVPC and changes to the AUT itself. OPUC Docket No. UE 198, Order No. 08-505 at
15		2. Under these particular circumstances, the parties agreed to open a new docket to
16		address "all of the issues related to PGE's NVPC, including its AUT filing." Id.
17 18	Q.	PLEASE DISCUSS THE IMPORTANCE OF THESE LIMITATIONS ON CHANGES TO THE SCOPE OF THE AUT PROCESS.
19	A.	The limits of the AUT process are extremely important to provide the Company's
20		customers with proper procedural protections in the rate setting process. As discussed
21		above, the AUT is intended to address a narrow set of issues related to the Company's
22		NVPC. Given the limited scope, it is granted a faster procedural schedule with less
23		opportunity for parties to analyze and provide commentary on the Company's costs.
24		Conversely, in a general rate case, all of the Company's costs, revenues, and rate

determinants can be considered together in full context. In a limited proceeding such as
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 Company likely may not propose changes that would inhibit its own earnings. Unless all
 parties agree, such changes should not be considered outside of a general rate proceeding
 where there is a chance to identify offsetting benefits in other cost areas to balance
 alleged cost increases.
 III. BOARDMAN POLLUTION CONTROL COSTS

8 Q. PLEASE DISCUSS THE COMPANY'S PROPOSAL IN THIS PROCEEDING 9 REGARDING POLLUTION CONTROL COSTS AT THE BOARDMAN PLANT.

10 As described in PGE/100, pages 10-14, PGE is proposing to expand the scope of the A. 11 AUT to include costs of pollution control chemicals at the Boardman plant in its NVPC. 12 The Company is proposing two distinct pollution control measures for inclusion in rates 13 in this proceeding. The first is a mercury emissions control system using activated 14 carbon and calcium bromide injection first implemented by the Company in 2011. The 15 second measure is for sulfur dioxide control chemicals in the form of a "dry sorbent 16 injection" which the Company plans to start implementing at the plant during 2013. 17 **Q**. WHAT IS THE CURRENT RATE TREATMENT OF THESE MEASURES?

18 A. Neither of these measures is currently included in rates. The mercury control system is

19 currently subject to deferred accounting per stipulation in Docket No. UE 215. The

- 20 Company has no current mechanism to defer the costs of the sulfur dioxide control
- 21 mechanism.

1Q.DOES ICNU AGREE WITH THE COMPANY'S PROPOSAL TO EXPAND THE2SCOPE OF THE AUT TO INCLUDE THESE COSTS IN UPDATES OF THE3COMPANY'S NVPC?

4 No. ICNU strongly opposes the Company's proposed treatment of these costs. As A. described earlier in this testimony, updates to the scope of costs included in the AUT 5 6 updates of the NVPC should be strictly limited to the factors described in Schedule 125 7 outside the context of a general rate proceeding. The amounts at issue in this proceeding 8 are relatively limited (although certainly not inconsequential to customers); however, 9 regardless of the magnitude, the precedent is extremely important to consider. If the 10 Commission were to allow an expansion of the scope of costs that may be changed in this 11 proceeding, it would create a slippery slope for consumers. Further, ICNU does not 12 believe the AUT is the appropriate context to review the level and prudency of the 13 Company's pollution control costs. This is due to the fact that considering the prudency 14 of pollution control costs requires an overall consideration of the Company's resource 15 portfolio and options for meeting its load and environmental obligations. The AUT is 16 intended to be a straightforward update proceeding and is not well suited to this type of 17 review. Due to my understanding of the limited nature of the AUT, I have not conducted 18 such a comprehensive prudency analysis.

In addition, the pollution control costs are not considered part of NVPC. Simply,
chemical pollution control costs are not listed amongst the allowable cost updates to
NVPC in Schedule 125 (as listed early in this testimony). To add chemical costs would
require an update to Schedule 125 that is only permissible in a general rate proceeding.

1Q.PLEASE SUMMARIZE ICNU'S RECOMMENDATION REGARDING THE2COMPANY'S PROPOSED POLLUTION CONTROL COSTS IN THIS3PROCEEDING.

- 4 A. The Commission should deny the Company's inclusion of the proposed pollution control
- 5 costs in NVPC in this proceeding. These costs are more appropriately considered in the
- 6 context of a general rate case, and expansion of the cost categories that may be updated in
- 7 the AUT would be a dangerous precedent for consumers. The Company should continue
- 8 deferring the costs of its mercury emissions control costs, as it is currently doing. The
- 9 combined impact on NVPC of removing these items from this proceeding is
- 10 approximately \$3.1 million.
- 11 IV. WIND INTEGRATION DAY-AHEAD FORECAST ERROR

Q. PLEASE DESCRIBE THE COMPANY'S PROPOSAL WITH REGARD TO WIND INTEGRATION DAY-AHEAD FORECAST ERROR IN THIS PROCEEDING.

- 15 A. As described in Exhibit No. PGE/100, pages 9-10, the Company is proposing to update
- 16 the level of costs included in Monet to account for day-ahead forecast error of wind
- 17 resources. The current level of \$0.50 per MWh was established by stipulation in Docket
- 18 No. UE 198, Order No. 08-505, Appendix A at 3. The Company is proposing to update
- 19 this value to \$3.44 per MWh based on PGE's most recent Wind Integration Study
- 20 published with the Company's Integrated Resource Plan Update of November 23, 2011,
- 21 Docket No. LC 48.

Q. WHAT RATIONALE HAS THE COMPANY PROVIDED FOR UPDATING THIS COST ESTIMATE?

- 24 A. The Company's rationale for updating the stipulated value is that the Wind Integration
- 25 Study has now advanced to the point of having such an estimate. Further, the Company
- asserts that the study was reviewed by stakeholders and a panel of outside experts.

1Q.PLEASE SUMMARIZE HOW PGE'S WIND INTEGRATION STUDY2ESTIMATES THE COST OF DAY-AHEAD WIND FORECAST ERROR.

- 3 A. PGE's methodology for this estimation is described fully in its Wind Integration Study,
- 4 which was included as Exhibit No. PGE/103. PGE assumes that the difference between
- 5 day-ahead and hour-ahead wind schedules will lead to sub-optimal resource
- 6 commitments by the Company. To attempt to isolate this cost, the Company ran a
- 7 scenario which did not include its day-ahead forecast error for wind integration and
- 8 compared those power costs to its base case scenario, which included the full range of
- 9 load and wind variations considered in the Wind Integration Study.

10 Q. DOES ICNU AGREE THAT THIS VALUE SHOULD BE UPDATED IN THIS 11 PROCEEDING?

- 12 A. No. As a threshold matter, ICNU does not believe that this update falls within any of the
- 13 eight allowable update categories for the AUT. For this reason alone, similar to the
- 14 previously discussed environmental upgrade costs, ICNU believes it is essential for the
- 15 Commission to reject this proposal. PGE's proposed change is a significant revision and
- 16 increase that should only be considered in a general rate case.

Q. DOES ICNU HAVE OTHER CONCERNS WITH INCLUDING THIS VALUE FROM THE COMPANY'S WIND INTEGRATION STUDY AS PART OF THE NVPC DETERMINATION?

- 20 A. Yes. ICNU objects both to the use of the specific value derived from the Company's
- Wind Integration Study and also to the inclusion of day-ahead forecast error for wind in
 general.
- 23 Q. PLEASE DESCRIBE YOUR GENERAL CONCERNS.
- 24 A. Fundamentally, the Company is attempting to place a value on a particular type of
- 25 uncertainty for which it does not actually incur any costs. In other words, day-ahead

1 wind uncertainty is not, for example, like a wind-integration charge paid to another utility 2 balancing authority. The Company does not even hold out reserves to deal explicitly 3 with the uncertainty of wind on a day-ahead basis. It is a hypothetical isolation of just 4 one of many sources of uncertainty in the Company's day-to-day operations, which 5 include myriad factors such as load and weather uncertainty, resource performance, transmission availability, and others. The Company has attempted to isolate one such 6 7 factor in a sensitivity analysis outside the power cost modeling of the case and then 8 include it as an ad hoc addition to costs without any offsetting benefit to consumers. 9 PGE has not attempted to account for other isolated factors that lower costs, or account 10 for how the totality of all these factors impact its costs. Loads and resources are 11 constantly changing, and customers should only be charged if the total costs of balancing 12 increase.

13 Power cost modeling is an attempt to create an expected value for the costs of 14 operating a utility's resources. It will never be a perfect simulation of all the factors that 15 go into actual real-time operations. Including ad hoc adjustments in favor of the 16 Company without offsetting benefits to ratepayers is inappropriate. This is especially 17 true in a case like this one, where PGE is actually over-recovering its projected power 18 costs. Clearly, on balance the Company's power supply modeling is adequate to allow 19 cost recovery without adding additional hypothetical costs. If PGE incurs actual costs, a 20 portion of these prudently incurred costs can be recovered through the Company's 21 PCAM.

1Q.WHAT ISSUES DO YOU SEE WITH THE SPECIFIC WIND INTEGRATION2STUDY VALUE IN THIS CASE?

3 A. In addition to the general objections just discussed, ICNU has several specific concerns 4 with the particular value from the Wind Integration Study. Although the Company's 5 approach has some theoretical merit, it is unclear, what if, any application the calculated day-ahead uncertainty value has for power costs in this case and rate year. As described 6 7 in the study, the Company relies heavily on market purchases to balance differences 8 between day-ahead and hour-ahead schedules. As such, the hypothetical costs of day-9 ahead scheduling uncertainty for wind will be highly dependent on market prices. The 10 Company has not attempted to compare or validate that the market values in the Wind Integration Study are comparable to market values projected in the rate year. Also, the 11 12 Company has not made an attempt to compare the results of its modeled day-ahead 13 forecast error with historical experience. This type of validation is essential, particularly 14 in the case of trying to isolate a somewhat nebulous opportunity cost. Given that this is a 15 limited AUT proceeding, ICNU has not conducted a full analysis of all the potential 16 concerns with PGE's Wind Integration Study, which should occur in a general rate case. PLEASE SUMMARIZE ICNU'S RECOMMENDATION REGARDING DAY-17 **Q**. AHEAD WIND INTEGRATION COSTS IN THIS PROCEEDING. 18 19 A. The Commission should exclude this update, on the basis that it falls outside the scope of 20 allowable NVPC updates in an AUT proceeding. The Commission should further 21 exclude the update on the basis that the general approach of including one-sided, ad hoc 22 additions to power costs for hypothetical costs is problematic. Finally, the update should 23 be excluded, because the Company has not shown the particular appropriateness of the 24 Wind Integration Study sensitivity analysis in the context of the 2013 NVPC at issue in

this case.

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

2 **A.** Yes.

Davison Van Cleve PC

Attorneys at Law TEL (503) 241-7242 • FAX (503) 241-8160 • mail@dvclaw.com Suite 400 333 SW Taylor Portland, OR 97204

July 6, 2012

Via Electronic and U.S. Mail

Public Utility Commission Attn: Filing Center 550 Capitol St. NE #215 P.O. Box 2148 Salem OR 97308-2148

> Re: In the Matter of PORTLAND GENERAL ELECTRIC COMPANY 2013 Annual Power Cost Update Tariff (Schedule 125) AND Annual Power Cost Update; Advice No. 12-08, Schedules 125 and 126 to include chemical costs associated with the Boardman plant's pollution control requirements. Docket Nos. UE 250 & UE 251

Dear Filing Center:

Enclosed please find an original and five (5) copies of the Opening Testimony of Michael C. Deen on behalf of the Industrial Customers of Northwest Utilities in the abovereferenced docket. Thank you for your attention to this matter.

Sincerely yours,

/s/ Maxwell B. Beach Maxwell B. Beach

Enclosures Service List cc:

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that I have this day served the foregoing Opening

Testimony of Michael C. Deen on behalf of the Industrial Customers of Northwest Utilities upon

the parties, on the service list, by causing the same to be deposited in the U.S. Mail, postage-

prepaid, and via electronic mail where paper service has been waived.

Dated at Portland, Oregon, this 6th day of July, 2012.

<u>/s/ Maxwell B. Beach</u> Maxwell B. Beach

(W) CITIZENS UTILITY BOARD OF OREGON OPUC DOCKETS

ROBERT JENKS G. CATRIONA MCCRACKEN 610 SW BROADWAY STE 400 PORTLAND OR 97205 dockets@oregoncub.org bob@oregoncub.org catriona@oregoncub.org

(W) PORTLAND GENERAL ELECTRIC

RANDY DAHLGREN - 1WTC0702 DOUGLAS C TINGEY – WTC13 ALEX TOOMAN – WTC1711 121 SW SALMON ST PORTLAND OR 97204 pge.opuc.filings@pgn.com doug.tingey@pgn.com alex.tooman@pgn.com

(W) ENERGY STRATEGIES LLC KEVIN HIGGINS 215 STATE ST - STE 200 SALT LAKE UT 84111-2322 khiggins@energystrat.com

(W) REGULATORY & COGENERATION SERVICES, INC

DONALD W SCHOENBECK 900 WASHINGTON ST STE 780 VANCOUVER WA 98660-3455 dws@r-c-s-inc.com

(W) OREGON PUBLIC UTILITY COMMISSION STEVE SCHUE(C) PO BOX 2148 SALEM OR 97308-2148 steve.schue@state.or.us

(W) PUC STAFF - DEPARTMENT OF JUSTICE MICHAEL T WEIRICH BUSINESS ACTIVITIES SECTION 1162 COURT ST NE SALEM OR 97301-4096 michael.weirich@doj.state.or.us

(W) NOBLE AMERICAS ENERGY SOLUTIONS, LLC GREG BASS 401 WEST A ST., STE. 500 SAN DIEGO CA 92101 gbass@noblesolutions.com

(W) RICHARDSON & O'LEARY

GREGORY M ADAMS PO BOX 7218 BOISE ID 83702 greg@richardsonandoleary.com

OREGON DEPARTMENT OF JUSTICE

PAUL S LOGAN 1515 SW 5TH AVE, STE 410 PORTLAND OR 97201 paul.s.logan@doj.state.or.us

vijay.a.satyal@state.or.us

(W) OREGON DEPARTMENT OF ENERGY TODD CORNETT 625 MARION ST. NE SALEM OR 97301-3737 todd.cornett@state.or.us

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Q. PLEASE DESCRIBE THE COMPANY'S PROPOSAL WITH REGARD TO WIND INTEGRATION DAY-AHEAD FORECAST ERROR IN THIS PROCEEDING.

- 15 A. As described in Exhibit No. PGE/100, pages 9-10, the Company is proposing to update
- 16 the level of costs included in Monet to account for day-ahead forecast error of wind
- 17 resources. The current level of \$0.50 per MWh was established by stipulation in Docket
- 18 No. UE 198, Order No. 08-505, Appendix A at 3. The Company is proposing to update
- 19 this value to \$3.44 per MWh based on PGE's most recent Wind Integration Study
- 20 published with the Company's Integrated Resource Plan Update of November 23, 2011,
- 21 Docket No. LC 48.

Q. WHAT RATIONALE HAS THE COMPANY PROVIDED FOR UPDATING THIS COST ESTIMATE?

- 24 A. The Company's rationale for updating the stipulated value is that the Wind Integration
- 25 Study has now advanced to the point of having such an estimate. Further, the Company
- asserts that the study was reviewed by stakeholders and a panel of outside experts.

1Q.PLEASE SUMMARIZE HOW PGE'S WIND INTEGRATION STUDY2ESTIMATES THE COST OF DAY-AHEAD WIND FORECAST ERROR.

- 3 A. PGE's methodology for this estimation is described fully in its Wind Integration Study,
- 4 which was included as Exhibit No. PGE/103. PGE assumes that the difference between
- 5 day-ahead and hour-ahead wind schedules will lead to sub-optimal resource
- 6 commitments by the Company. To attempt to isolate this cost, the Company ran a
- 7 scenario which did not include its day-ahead forecast error for wind integration and
- 8 compared those power costs to its base case scenario, which included the full range of
- 9 load and wind variations considered in the Wind Integration Study.

10 Q. DOES ICNU AGREE THAT THIS VALUE SHOULD BE UPDATED IN THIS 11 PROCEEDING?

- 12 A. No. As a threshold matter, ICNU does not believe that this update falls within any of the
- 13 eight allowable update categories for the AUT. For this reason alone, similar to the
- 14 previously discussed environmental upgrade costs, ICNU believes it is essential for the
- 15 Commission to reject this proposal. PGE's proposed change is a significant revision and
- 16 increase that should only be considered in a general rate case.

Q. DOES ICNU HAVE OTHER CONCERNS WITH INCLUDING THIS VALUE FROM THE COMPANY'S WIND INTEGRATION STUDY AS PART OF THE NVPC DETERMINATION?

- 20 A. Yes. ICNU objects both to the use of the specific value derived from the Company's
- Wind Integration Study and also to the inclusion of day-ahead forecast error for wind in
 general.
- 23 Q. PLEASE DESCRIBE YOUR GENERAL CONCERNS.
- 24 A. Fundamentally, the Company is attempting to place a value on a particular type of
- 25 uncertainty for which it does not actually incur any costs. In other words, day-ahead

1 wind uncertainty is not, for example, like a wind-integration charge paid to another utility 2 balancing authority. The Company does not even hold out reserves to deal explicitly 3 with the uncertainty of wind on a day-ahead basis. It is a hypothetical isolation of just 4 one of many sources of uncertainty in the Company's day-to-day operations, which 5 include myriad factors such as load and weather uncertainty, resource performance, transmission availability, and others. The Company has attempted to isolate one such 6 7 factor in a sensitivity analysis outside the power cost modeling of the case and then 8 include it as an ad hoc addition to costs without any offsetting benefit to consumers. 9 PGE has not attempted to account for other isolated factors that lower costs, or account 10 for how the totality of all these factors impact its costs. Loads and resources are 11 constantly changing, and customers should only be charged if the total costs of balancing 12 increase.

13 Power cost modeling is an attempt to create an expected value for the costs of 14 operating a utility's resources. It will never be a perfect simulation of all the factors that 15 go into actual real-time operations. Including ad hoc adjustments in favor of the 16 Company without offsetting benefits to ratepayers is inappropriate. This is especially 17 true in a case like this one, where PGE is actually over-recovering its projected power 18 costs. Clearly, on balance the Company's power supply modeling is adequate to allow 19 cost recovery without adding additional hypothetical costs. If PGE incurs actual costs, a 20 portion of these prudently incurred costs can be recovered through the Company's 21 PCAM.

1Q.WHAT ISSUES DO YOU SEE WITH THE SPECIFIC WIND INTEGRATION2STUDY VALUE IN THIS CASE?

3 A. In addition to the general objections just discussed, ICNU has several specific concerns 4 with the particular value from the Wind Integration Study. Although the Company's 5 approach has some theoretical merit, it is unclear, what if, any application the calculated day-ahead uncertainty value has for power costs in this case and rate year. As described 6 7 in the study, the Company relies heavily on market purchases to balance differences 8 between day-ahead and hour-ahead schedules. As such, the hypothetical costs of day-9 ahead scheduling uncertainty for wind will be highly dependent on market prices. The 10 Company has not attempted to compare or validate that the market values in the Wind Integration Study are comparable to market values projected in the rate year. Also, the 11 12 Company has not made an attempt to compare the results of its modeled day-ahead 13 forecast error with historical experience. This type of validation is essential, particularly 14 in the case of trying to isolate a somewhat nebulous opportunity cost. Given that this is a 15 limited AUT proceeding, ICNU has not conducted a full analysis of all the potential 16 concerns with PGE's Wind Integration Study, which should occur in a general rate case. PLEASE SUMMARIZE ICNU'S RECOMMENDATION REGARDING DAY-17 **Q**. AHEAD WIND INTEGRATION COSTS IN THIS PROCEEDING. 18 19 A. The Commission should exclude this update, on the basis that it falls outside the scope of 20 allowable NVPC updates in an AUT proceeding. The Commission should further 21 exclude the update on the basis that the general approach of including one-sided, ad hoc 22 additions to power costs for hypothetical costs is problematic. Finally, the update should 23 be excluded, because the Company has not shown the particular appropriateness of the 24 Wind Integration Study sensitivity analysis in the context of the 2013 NVPC at issue in

this case.

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

2 **A.** Yes.

BEFORE THE OREGON PUBLIC UTILITY COMMISSION

In the Matter of)
PORTLAND GENERAL ELECTRIC))
2013 Annual Update Tariff (UE 250) and))))
Annual Power Cost Update; Advice No. 12-08, Schedules 125 and 126 to include chemical costs associated with the Boardman plant's pollution control requirements.	
(UE 251))

EXHIBIT ICNU/101

QUALIFICATIONS OF MICHAEL C. DEEN

July 6, 2012

1 2 3	W	QUALIFICATION STATEMENT OF MICHAEL C. DEEN ITNESS FOR INDUSTRIAL CUSTOMERS OF NORTHWEST UTILITIES
4	Q.	PLEASE STATE YOUR NAME, EMPLOYER AND BUSINESS ADDRESS.
5	A.	My name is Michael Deen. I am employed by Regulatory and Cogeneration
6		Services, Inc. ("RCS"). RCS is a utility rate and consulting firm. My business
7		address is 900 Washington Street, Suite 780, Vancouver, WA 98660.
8	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND.
9	А.	I received a B.A. in Psychology from Reed College in May 2006. I have
10		completed coursework in statistics, data analysis, research design, and economics.
11	Q.	PLEASE SUMMARIZE YOUR PROFESSIONAL EXPERIENCE.
12	A.	After graduating from Reed, I was employed as a Research Analyst at
13		McCullough Research, a consulting firm in Portland, Oregon specializing in
14		energy policy and litigation support. While at McCullough Research, my duties
15		included the modeling and analysis of both Western and national energy markets.
16		I also provided analysis for use in several proceedings surrounding Enron's role in
17		the Western Energy Crisis of 2000-2001.
18		From November 2007, through July 2011, I was employed as a policy
19		analyst at the Public Power Council ("PPC"). PPC is a non-profit trade
20		association representing the interests of consumer-owned utilities buying
21		wholesale power and transmission services from the Bonneville Power
22		Administration ("BPA"). At PPC, I worked extensively on computer modeling
23		relating to the Residential Exchange Program and other BPA rate issues. I also
24		provided analysis and commentary for PPC in a variety of BPA processes. I also

1		was involved in modeling efforts surrounding the potential economic impacts of
2		various greenhouse gas mitigation proposals on Western electricity markets.
3 4	Q.	PLEASE STATE YOUR EXPERIENCE AS A WITNESS IN PREVIOUS PROCEEDINGS.
5	А.	I have previously testified in the BPA WP-07 Supplemental, WP-10, TR-10, BP-
6		12 and REP-12 rate proceedings. I have also testified on behalf of ICNU before
7		the Washington Utilities and Transportation Commission in proceedings
8		regarding Puget Sound Energy, PacifiCorp, and Avista. I recently testified before
9		the Oregon Public Utility Commission in the PacifiCorp UE 245 Transition
10		Adjustment Mechanism and UE 246 General Rate Revision dockets.

BEFORE THE OREGON PUBLIC UTILITY COMMISSION

In the Matter of)
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