PUBLIC UTILITY COMMISSION OF OREGON

UM 1443

STAFF OPENING TESTIMONY OF

Ed Durrenberger

In the Matter of PUBLIC UTILITY COMMISSION OF OREGON Investigation to determine if PORTLAND GENERAL ELECTRIC's rate revision has been consistent with the methodologies and calculations required by Order No. 05-584.

October 27, 2009

CASE: UM 1443

WITNESS: Ed Durrenberger

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 100

Direct Testimony

October 27, 2009

Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS.

- A. My name is Ed Durrenberger, I am a Senior Utility Analyst in the Electric and Natural Gas Division for the Public Utility Commission of Oregon. My business address is 550 Capitol Street NE Suite 215, Salem, Oregon 97301-2551.
- Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND WORK EXPERIENCE.
- A. My Witness Qualification Statement is found in Exhibit Staff/101.
- Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
 - The Commission initiated Docket UM 1443 to investigate whether Portland General Electric (PGE or company) properly calculated its avoided cost prices in the current Schedule 201 using methodologies prescribed in Commission Order No. 05-584. This testimony will focus entirely on whether the company used the methods described in the Order, if the inputs used to calculate the rate were appropriate and if the conclusion reached accurately reflects the rate that has been filed and is consistent with previous similar avoided cost rate updates that the company has made and the Commission has adopted under the same methodologies. In addition I will comment on the appropriateness of allowing an update to some of the inputs as PGE has proposed in its opening testimony. Finally I will discuss the implications of PGE updating the action plan based on a draft Integrated Resource Plan (IRP) and generally the effect is has to a small "qualifying facility" (QF) entering into a long term power purchase agreement and to PGE customers.

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needs to be a determination of the appropriate rate based of the company's

individual circumstances regarding the need for new generation resources.

Avoided costs are the incremental costs to an electric utility of electric energy or capacity, or both, that the utility would incur if it were to generate energy itself or purchase the power from another source but for the purchase from the QF. If PGE is in a position where it is cannot meet its energy commitments by using its own generation resources, long term power contracts and from other power purchasing arrangements, it is resource deficient. Otherwise it is in a position of resource sufficiency. The Order methodology directs that when a utility is resource sufficient, avoided costs are based of forward market power pricing. At the time in the future when the power commitments for retail load and long term sales are such that PGE can no longer meet all the needs with its own generating resources, long term power purchase agreements and market power purchases and needs to add a major resource, the company is resource deficient. When a utility is resource deficient, avoided energy and capacity values are based on the cost of the proxy resource which, in Order No. 05-584, is the fixed and variable costs of a combined cycle combustion turbine (CCCT) that is fueled with natural gas. PGE filed sufficiency period avoided costs based on forward cost curves that are similar to what are used in their annual power cost update. The method that was used in the determining sufficiency based avoided costs is consistent with the order and with how the previous sufficiency based avoided cost rates were priced. During the deficiency period the method used to come up with

avoided costs, based on fixed and variable proxy resources costs follows the

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order and was the same method used to develop the deficiency period avoided costs as in the previous filing.

ISSUE 2

- Q. DID THE FORWARD PRICING INPUTS APPEAR REASONABLE AND CONSISTENT WITH PRICING AVAILABLE AT THE TIME OF THE FILING?
- The forward energy price curve used for pricing sufficiency based avoided costs was developed by the company based on information from the PGE trading floor and, farther out in year 2012, on an annual power cost projection shaped in manner consistent 2010 price projections. I reviewed the forward power cost pricing and compared PGE's power cost projections to a similar independent forward power price projection I obtained by EMR. Although I was unable to duplicate the high degree of monthly resolution that PGE's forward curve contained. I found the company pricing to be generally consistent with my forward pricing data going out through 2012.

During resource deficiency, the projection of natural gas pricing is a determinant of avoided costs. PGE states that the future natural gas pricing it developed came from commercially available forward price curves that had been adjusted for transportation costs. I compared PGE gas costs to the forward gas fuel market cost projections from the Northwest Power and Conservation Council's Sixth Power Plan. My conclusion was that the PGE's gas pricing appeared a little higher than the Council's projections but did not appear unreasonable.

ISSUE 3

- Q. ARE THE AVOIDED COST PRICES FILED USING THE COMMISSION
 APPROVED METHODS AND COMPANY-DETERMINED INPUTS
 REASONABLE?
- A. The avoided cost rates that PGE developed pursuant to Order 05-584 and using updated foreward price curves for power purchases and natural gas are lower during the resource sufficiency period than the previous rates and slightly higher than previously during the later deficiency period. The reason for the initial lower sufficiency rates is that forward power costs are depressed due to the drop off in demand from the current recession and dramatically lower natural gas prices due to both the recession and a change in the amount of known reserves.

Although a decrease in avoided cost rates has cought many parties to this docket by surprise, I find that the timing of the rate filing is consistent with requirements in the order and that the methods PGE used to price avoided costs comply with the order. I further find that the forward energy pricing is within the range of pricing that could be reasonably forecast at the time of the filing. The avoided costs appear to to represent the costs that the utility would incur for power that it generated itself or purchased from others were it not to purchase it from a PURPA QF under an avoided cost power purchase agreement.

ISSUE 4

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Q. WHAT ARE THE IMPLICATIONS TO AVOIDED COST RATES OF THE COMPANY UPDATING THE ACTION PLAN AS IT DID BASED ON THE RESULTS OF A DRAFT IRP?

A. PGE updated the future date at which it determined itself to be resource deficient by using the results of a draft IRP in its avoided cost filing. The filing determined that the company would remain sufficient until the beginning of 2013 rather than 2012 as had been in the previous avoided cost filing. This means the relatively low market based sufficiency pricing will be in place for an additional year as of this filing. I am concerned about the draft IRP action plan update being used for two reasons. First, the plan has not yet been formally filed much less studied and evaluated by the Commission or other parties and may not be acknowledged as written. Thus, contracts entered into under this draft plan could disadvantage either small QFs by their receiving lower than avoided cost rates if the sufficiency period is too long. Or customers could end up paying more than they otherwise would for power if the sufficiency period is too short. Second, there is possibility that the avoided cost rate could change significantly with the filing after the acknowledgement of the IRP and I believe that this creates a climate of uncertainty that could hinder small QF development. I acknowledge that previous avoided cost filings have been adopted based on draft IRP action plans and that parties did not appear to have raised this as an issue at that time. However, new avoided costs rates will need to be filed again within the next year upon filing and eventual acknowledgement of the PGE IRP. The solution to this dilemma is to require

A. Yes.

that significant changes to the action plan, such as are proposed here where the sufficiency/deficiency point is to be moved an entire year, be filed and receive acknowledgement by the Commission prior to the utility filing avoided costs. This provision was envisioned in the Commission's IRP Order No. 07-002 guideline 3(f).

Q. DO YOU HAVE ANY OTHER COMMENTS TO MAKE ABOUT THE PGE AVOIDED COST FILING?

A. Yes, PGE, in its direct testimony in UM 1443 proposed updating the natural gas pricing forward price curve in the course of this investigation. The company proposes the change to make the gas prices in the filing consistent with prices used in the IRP and indicated that it would increase avoided cost pricing a small amount in the resource deficiency period when pricing is based on the fixed and variable cost of the proxy resource.

Q. DO YOU AGREE WITH THE PGE PROPOSAL TO UPDATE THE GAS PRICES AS DESCRIBED IN THEIR TESTIMONY?

A. No. The avoided cost filing should not be changed by updating a gas curve but should use pricing information that was available at the time of the filing. To selectively update one curve and not all curves in the course of the investigation into the appropriateness of the filed rates is inappropriate.

Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

CASE: UE 1443

WITNESS: Ed Durrenberger

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 101

Witness Qualification Statement

WITNESS QUALIFICATION STATEMENT

NAME: Ed Durrenberger

EMPLOYER: Public Utility Commission of Oregon

TITLE: Senior Utility Analyst, Electric and Natural Gas Division

ADDRESS: 550 Capitol St. NE, Ste. 215, Salem, Oregon 97301

EDUCATION: B.S. Mechanical Engineering

Oregon State University, Corvallis, Oregon

EXPERIENCE: I have been employed at the Public Utility Commission of

Oregon since February of 2004. My current

responsibilities include staff research, analysis and technical support on a wide range of electric and natural gas cost recovery issues with an emphasis on electricity

and fuel costs.

OTHER EXPERIENCE: I worked for over twenty years in industrial boiler plant

engineering, maintenance and operations. I this capacity I managed plant operations, fuel supplies and utilities, environmental compliance issues and all aspects of boiler machinery design, installation and repair. I have also worked as a production manager and machine shop manager for an ISO certified high tech equipment manufacturer servicing the silicon wafer

fabrication and biomedical business sectors.

1	CERTIFICATE OF SERVICE	
2	I certify that on October 27, 2009 I served the foregoing STAFF OPENING	
3	TESTIMONY upon the parties in this proceeding by electronic mail and by sending a true, exact	
4	and full copy by regular mail, postage prepaid, or by hand-delivery/shuttle, to the parties	
5	accepting paper service.	
6	w	w
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