

CASE: UM 1129  
WITNESS: Brown

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 2200**

**Direct Testimony**

**March 24, 2006**

1 **Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS**  
2 **ADDRESS.**

3 A. My name is Dr. Stefan Brown. My business address is 550 Capitol Street NE,  
4 Suite 215, Salem, Oregon 97301-2551.

5 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND WORK**  
6 **EXPERIENCE.**

7 A. My Witness Qualification Statement is found in Exhibit Staff/2201.

8 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

9 A. My testimony addresses Issue 14 and Issue 3.b. dealing with provisions of  
10 PacifiCorp’s and Portland General Electric’s (PGE’s) contracts for purchase of  
11 off-system Qualifying Facility (QF) power.

12 **Q. DID YOU PREPARE AN EXHIBIT FOR THIS DOCKET?**

13 A. Yes, I prepared Staff Exhibit 2202.

14 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

15 A. My testimony is organized as follows:

16	Issue 14, Tariff provisions for purchases from off-system QFs .....	2
17	Issue 3b, Cost and contractual provisions necessary to purchase from	
18	off-system QFs .....	9

**ISSUE 14, TARIFF PROVISIONS FOR PURCHASES FROM OFF-SYSTEM QFS****Q. ARE THE METERING PROVISIONS IN PACIFICORP’S POWER  
PURCHASE AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

A. Yes. PacifiCorp circulated among the parties a revised Purchase Power Agreement on March 22, 2006, that requires a QF provide PacifiCorp with metered hourly Facility Net Output and other energy measurements required to administer the agreement. The QF must also provide telemeter data if required by the Transmitting Entity and the data are useful to administer the agreement.<sup>1</sup> The data are readily available from the necessary metering equipment, and are necessary to verify that PacifiCorp is only paying for the energy it receives.

Section 8.1 also states, “energy purchased ... shall be adjusted to account for electrical losses, if any, between the point of metering and the Point of Interconnection.” This provision is acceptable if the intention is to not charge a QF for losses when the QF generates and delivers energy to the transmission provider/owner (TO) to offset losses. In this case, the net output of the facility should be reduced by the amount of energy the QF generates to offset losses that are returned in kind to the TO.

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<sup>1</sup> See Section 8.1. Staff understands that PacifiCorp will officially file the final version of the agreement, which PacifiCorp has represented will be the same as the draft it earlier circulated, in this docket on March 24, 2006.

1 **Q. ARE THE METERING PROVISIONS IN PGE’S POWER PURCHASE**  
2 **AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

3 A. PGE’s off-system QF tariff does not include metering provisions. QFs are  
4 required, under Section 4.5 to maintain and provide PGE access to at least two  
5 years of records of Net Output and imbalance information. The records should  
6 be sufficient to allow PGE to verify the amount of energy that a QF has  
7 generated and delivered.

8 **Q. ARE THE TELEMETRY PROVISIONS IN PACIFICORP’S POWER**  
9 **PURCHASE AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

10 A. Yes. Section 8.1 states that PacifiCorp is entitled to telemeter data if the  
11 Transmitting Entity requires it and the data are useful to PacifiCorp’s  
12 administration of the agreement. This requirement should not impose  
13 unnecessary metering costs on the QF.

14 **Q. ARE THE TELEMETRY PROVISIONS IN PGE’S POWER PURCHASE**  
15 **AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

16 A. PGE’s tariff does not include any telemetry provisions. Telemetry provisions  
17 are not necessary for off-system QFs for which PGE is neither providing  
18 ancillary services nor dispatching the unit.

19 **Q. ARE THE DATA EXCHANGE PROVISIONS IN PACIFICORP’S POWER**  
20 **PURCHASE AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

21 A. Yes. PacifiCorp should be able to require that QFs submit data in a format that  
22 is readily accessible and usable by the company. Section 6, page 2 of  
23 Addendum W deals with net output reporting requirements. PacifiCorp is

1 asking for hourly station service, Excess Output<sup>2</sup> and Net Output<sup>3</sup> in columnar  
2 format. In addition, the company is asking to be provided with an electronic  
3 copy upon request. These conditions seem reasonable and appropriate  
4 because they will allow PacifiCorp to verify the amount of energy that a QF has  
5 generated, delivered and should be paid for. Further, the data should be  
6 readily available as output from the facility's metering equipment.

7 **Q. ARE THE DATA EXCHANGE PROVISIONS IN PGE'S POWER**  
8 **PURCHASE AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

9 A. Yes. Section 4.5 of Appendix 2 requires that a QF provide a preschedule for  
10 all deliveries of energy on the last business day prior to the scheduled delivery  
11 date, and that parties coordinate hourly real-time schedules. In the absence of  
12 real-time schedule changes, the preschedule will be considered final. Both  
13 PGE and the QF will maintain records of hourly energy schedules with the final  
14 E-Tag<sup>4</sup> being the controlling evidence. Further, the QF needs to maintain  
15 records for at least two years of hourly Net Output. These provisions appear  
16 sufficient to ensure that PGE will have the data necessary to pay the QF for its  
17 scheduled and delivered net output. Further, the data should be readily  
18 available as output from the facility's metering equipment.

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<sup>2</sup> See PacifiCorp Power Purchase Agreement, Section 1.12.

<sup>3</sup> See PacifiCorp Power Purchase Agreement, Section 1.24.

<sup>4</sup> An E-Tag or "Electronic Tag" is an electronic record that includes the Point of Receipt, the Point of Delivery, the MW to be delivered, the start and end time of the transaction.

1 **Q. ARE THE PRODUCTION BALANCING PROVISIONS IN PACIFICORP'S**  
2 **POWER PURCHASE AGREEMENT FOR OFF-SYSTEM QFS**  
3 **APPROPRIATE?**

4 A. Yes. Under federal PURPA, utilities are required to purchase the net output of  
5 a QF, but no more than the net output, at avoided cost. While scheduling  
6 convention only allows for scheduling whole megawatts, facilities do not  
7 generate energy in one-MW unit increments. Additionally, the nameplate rating  
8 of facilities is not necessarily in whole megawatts. As a result, there may be a  
9 mismatch between scheduled output and actual generation. This is especially  
10 problematic for small facilities.

11 In its proposed standard contract for off-system QFs, PacifiCorp has included  
12 an Energy Imbalance Accumulation (EIA) that provides the opportunity for a  
13 QF to match its scheduled deliveries with its actual net output during off peak  
14 and on peak periods across the Settlement Period. The QF would net the  
15 differences between the hourly transmission schedule and net output over the  
16 Settlement Period. The Settlement Period is initially one month, but it may be  
17 expanded up to one year at PacifiCorp's discretion.

18 Another provision of the EIA is that PacifiCorp will pay for the lesser of  
19 delivered energy and actual net output for on peak and off peak hours summed  
20 across the Settlement Period. Utilities are required to purchase the net output,  
21 but not more than net output, of QFs. If actual energy deliveries exceed net  
22 output during the Settlement Period, the utility should only be required to pay  
23 for the QF's net output— the maximum amount of energy that PURPA requires

1 the utilities to purchase. If, instead, net output exceeds energy deliveries  
2 during the Settlement Period, the utility should only be required to pay for  
3 energy deliveries because that is the amount of power that it receives from the  
4 transmitting utility. This provision is designed to protect PacifiCorp and its  
5 customers from paying avoided costs for energy it either does not receive or  
6 that is in excess of QF net output. In addition, it provides an incentive for a QF  
7 to accurately schedule its output across the settlement period.

8 While the excess energy may not be worth the on peak price, it is not without  
9 value. Therefore, while not required by PURPA, I recommend that PacifiCorp  
10 consider modifying its agreement by adding a provision that states that the  
11 company will pay QFs the off-peak price for energy delivered in excess of  
12 actual net output in the settlement period.

13 **Q. ARE THE PRODUCTION BALANCING PROVISIONS IN PGE'S POWER**  
14 **PURCHASE AGREEMENT FOR OFF-SYSTEM QFS APPROPRIATE?**

15 A. Yes, but the language in Schedule 201 should be clarified. While PGE's  
16 contract does not include specific balancing provisions, the contract does  
17 implicitly include them. In Appendix 2, Section 1.2, PGE defines the "Billing  
18 Period" as a calendar month. In addition, Section 4.5 of Appendix 2 requires  
19 that the "seller shall make commercially reasonable efforts to schedule in any  
20 hour an amount equal to its expected Net Output for such hour."

21 From these two provisions and an e-mail response by PGE witness Mr. Doug  
22 Kuns<sup>5</sup> I conclude that PGE will allow a QF to follow scheduling convention by

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<sup>5</sup> See Staff Exhibit 2202.

1 scheduling in whole units even when its expected net output is not in whole  
2 units, and that PGE will pay for the scheduled and delivered energy generated  
3 by the QF. In the e-mail response, Mr. Kuns stated that it is PGE's "intent as  
4 stated in Section 4.5, that the QF will be able to use commercially reasonable  
5 efforts to schedule and deliver its Net Output to PGE" and "the scheduling  
6 requirements for whole MW increments is acceptable within our proposed  
7 agreement, even if the QF production may be higher or lower than the  
8 scheduled amount in an hour." See Staff/2202.

9 However, I conclude that there is a conflict in the language between the  
10 proposed standard contract for off-system QFs and Schedule 201. Section 1.6  
11 of the Standard Contract defines Contract Price as "the applicable price for  
12 Delivered Net Output..." This definition applies to the pricing options in  
13 Sections 5.1, 5.2 and 5.3. In contrast, in Schedule 201, page 4, PGE states  
14 that "pricing options represent the purchase price per MWh the Company will  
15 pay for electricity delivered ... up to the nameplate rating of the QF in any hour.  
16 Any energy delivered in excess of the nameplate rating shall be purchased at  
17 the applicable Off-Peak Prices for the selected pricing option." This implies  
18 that PGE will not pay avoided costs for scheduled delivery in an hour greater  
19 than nameplate rating.

20 For example, assume that a QF has a nameplate rating of 3.5 MW, generates  
21 3.5 MW in each hour, and schedules 3 MW in half of the hours and 4 MW in  
22 the remaining hours in the billing period (ignoring on-peak and off-peak periods  
23 for purposes of this example). On average, over the billing period the QF



1 would have scheduled and generated, and the TO would have delivered, 3.5  
2 MW per hour. Therefore, the QF may reasonably expect to be paid avoided  
3 cost for all of its output. The language in Schedule 201 implies that PGE would  
4 pay the avoided cost for 3.5 MW per hour, but would only pay the off-peak  
5 price for the “extra” 0.5.MW that was delivered in hours when 4 MW was  
6 scheduled and delivered. This apparent conflict in language should be  
7 resolved, and the tariff should make clear that PGE will allow balancing within  
8 the billing period.

9 **Q. IS IT REASONABLE FOR A UTILITY TO REQUIRE AN OFF-SYSTEM QF**  
10 **TO USE FIRM TRANSMISSION FOR DELIVERY OF POWER UNDER A**  
11 **STANDARD CONTRACT FOR OFF-SYSTEM QFS?**

12 A. Yes. The utilities have proposed that their standard off-system QF contracts  
13 specify the use of firm transmission. If a QF wants to use non-firm  
14 transmission to deliver its output to the purchasing utility it may do so, but it  
15 would not receive capacity payments and would have to execute a non-  
16 standard contract.

1           **ISSUE 3b, COST AND CONTRACTUAL PROVISIONS NECESSARY TO**  
2                                   **PURCHASE OFF-SYSTEM QF POWER**

3       **Q. ARE THE COST AND CONTRACTUAL PROVISIONS IN PGE’S AND**  
4       **PACIFICORP’S POWER PURCHASE AGREEMENTS FOR OFF-SYSTEM**  
5       **QFS APPROPRIATE?**

6       A. Some of the provisions are not appropriate. PGE’s implicit balancing  
7       provisions are not appropriate as written. However, PGE has clarified its  
8       intention in an e-mail to Staff.<sup>6</sup> I recommend that PGE modify the language in  
9       Schedule 201 to clarify its intent to allow for netting of differences between Net  
10      Output and delivered energy across the billing period.

11      Also, consistent with my recommendation under Issue 14 earlier, while not  
12      required by PURPA, I recommend PacifiCorp consider modifying its agreement  
13      by adding a provision that states the company will pay QFs the off-peak price  
14      for energy delivered in excess of actual net output in the settlement period.

15      **Q. WILL STAFF BE SUBMITTING A BRIEF DISCUSSING THE**  
16      **COMMISSION’S JURISDICTION TO APPROVE THESE CONTRACTS?**

17      A. No, staff understands that no party is challenging the Commission’s jurisdiction  
18      to approve these contracts. As such, staff will not be filing a brief concerning  
19      the Commission’s jurisdiction to review and approve these contracts.

20      **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

21      A. Yes.

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<sup>6</sup> See Staff Exhibit 2202.

CASE: UM 1129  
WITNESS: Brown

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 2201**

**Direct Testimony**

**March 24, 2006**

WITNESS QUALIFICATION STATEMENT

1  
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3  
4 NAME: Stefan Michael Brown  
5  
6 EMPLOYER: Public Utility Commission of Oregon  
7  
8 TITLE: Senior Economist, Economic Research & Financial Analysis  
9 Division  
10  
11 ADDRESS: 550 Capitol Street NE Suite 215, Salem, Oregon 97301-2115.  
12  
13 EDUCATION: Ph.D. Purdue University, West Lafayette, Indiana  
14 Major: Ag. Economics; 1995  
15  
16 M.S. University of Wyoming, Laramie, Wyoming  
17 Major: Economics; 1991  
18  
19 B.S. Oregon State University, Corvallis, Oregon  
20 Majors: Ag./Resource Economics, Animal Science; 1983  
21  
22  
23 EXPERIENCE: Starting in November 1999, I have been employed by the Public  
24 Utility Commission of Oregon. Current responsibilities include  
25 leading research and providing technical support on a wide  
26 range of policy issues for electric and gas utilities.  
27  
28 From March 1996 to November 1999 I worked as a consultant in  
29 the energy field working for electric research organizations,  
30 electric power exchanges, electric utilities and petroleum  
31 producers. Duties included leading research projects on various  
32 policy issues involving energy markets and electricity  
33 restructuring. I also worked as a consultant in the energy field  
34 from January 1986 to August 1989  
35  
36  
37 OTHER EXPERIENCE: From August 1991 through March 1995, I was a graduate  
38 research and teaching assistant at Purdue University.  
39  
40 From August 1989 through May 1991 I was a graduate research  
41 and teaching assistant at the University of Wyoming.  
42  
43 From August 1990 through May 1991 I was an instructor at the  
44 University of Wyoming teaching introductory microeconomics.

CASE: UM 1129  
WITNESS: Brown

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 2202**

**Direct Testimony**

**March 24, 2006**

1 E-mail received from Mr. Doug Kuns on March 13, 2003.

2

3 Regarding your telephone question about the out of service area standard contract

4 with respect to scheduled and delivered QF power. It is our intent as stated in

5 Section 4.5, that the QF will be able to use commercially reasonable efforts to

6 schedule and deliver its Net Output to PGE. The Net Output and Nameplate

7 Capacity Rating definitions provide the objective measures to assure that the

8 Company purchases only the QF's Net Output. Section 4.5 accommodates the

9 requirements placed on a QF from a transmitting entity to schedule QF power

10 within certain parameters. For example, the scheduling requirements for whole

11 MW increments is acceptable within our proposed agreement, even if the QF

12 production may be higher or lower than the scheduled amount in an hour. PGE

13 will purchase the scheduled and delivered energy.

14

15 Schedule 201 provides that the Company will purchase in accordance with the

16 appropriate agreement, QF energy delivered to the Company's system and made

17 available for purchase.

**CERTIFICATE OF SERVICE**

I certify that on March 24, 2006, I served the foregoing upon all parties of record in this proceeding by delivering a copy by electronic mail and by mailing a copy by postage prepaid first class mail or by hand delivery/shuttle mail to the parties accepting paper service.

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17 Neoma Lane

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19 Legal Secretary

20 Department of Justice

21 Regulated Utility & Business Section

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