In the Matter of the Application of PacifiCorp for an Order Approving Avoided Cost Rates

Docket 03-035-14

DPU Exhibit 2.0

Direct Testimony of Andrea Coon Division of Public Utilities

July 29, 2005

1	Q.	Please state your name and business address, employer, and position for
2		the record.
3	A.	My name is Andrea Coon. My business address is 160 E. 300 S. SLC, UT. I
4		work as a Technical Consultant for the Utah Division of Public Utilities.
5	Q.	Please summarize your educational and pertinent professional
6		background for the record.
7	A.	I have a Bachelor's degree in Economics, a Master's degree in
8		Communications, and have completed all coursework toward a Ph.D. in
9		Economics. I have been working in utility regulation since 2001. I have
10		participated in a number of areas including IRP, power costs, special
11		contracts, and QF agreements.
12	Q.	What is the purpose of your testimony in this proceeding?
13	A.	The purpose of my testimony is to discuss PacifiCorp's most recent proposed
14		Avoided Cost Methodology for medium and large Qualifying Facilities (QF).
15		In this testimony, I will cover several topics including the proposed
16		differential revenue requirement (DRR) model and method for pricing
17		avoided costs to be applicable to QFs between 3 and 99 MW, the proposed
18		method for pricing avoided costs to be applicable to QFs with a capacity of
19		100 MW or more, and PacifiCorp's proposed adjustments to the Avoided
20		Costs for QF specific operating characteristics.
21	Q.	Does the Division have recommendations in this matter?
22	A.	Yes. The Division recommends that the Commission adopt PacifiCorp's
23		proposed DRR method as a permanent methodology for calculating Avoided

Costs for QFs between 3 MW for a Small Power Production facility and 1 MW for a Cogeneration facility (both covered by Schedule 37) and 99 MW. For any QF 100 MW or over, we recommend that the DRR method be used to provide an energy payment for the QF. We recommend that a capacity payment only be paid to those large QFs that bid into and win an RFP.

DRR Model and Method

- Q. Has the Division examined the production cost model used by PacifiCorp as part of a proposed DRR?
- A. Yes, we have. The GRID model in general is familiar to the Division, as it has been used in the last two PacifiCorp rate cases to calculate Net Power Costs.

 For both of those cases, the model has been examined by an outside consultant as well as by Division personnel. Division personnel have been trained to run the model, and have run it with inputs provided by PacifiCorp and also with input changes or "scenarios". Division personnel performed numerous runs both in the last rate case as well as for the current docket.
 - Q. Have there been any problems with using the model for the most recent proposed methodology?
 - A. Yes there have. First, the model did not arrive before the day on which PacifiCorp's most recent testimony in this docket was filed. In fact, it did not arrive until around a week later. Then, the model that was sent had errors that prevented the scenarios from running. This meant that a "fix" for the errors had to be sent from Portland, resulting in additional delays. When the model

was fixed, the Division discovered that the model as sent by PacifiCorp			
contained memory levels that were insufficient for the task of running and			
retaining multiple scenario runs. The Division attempted to fix this problem			
with the use of an outside hard drive, but was unsuccessful. The Division is			
currently working with PacifiCorp to see this problem resolved.			
Notwithstanding these problems, however, the Division has been able to			
successfully recreate PacifiCorp's runs, as well as run limited scenarios up to			
the memory limitations.			

- Q. Do the initial problems with the GRID model indicate that it is not an appropriate tool to be used for calculating Avoided Costs for QFs requesting pricing in the future?
- A. Not at all. The problems described above are irritations rather than fatal flaws.

 The Division believes that GRID is an appropriate tool to use for determining indicative pricing for medium size QFs (3MW to 99MW).

Using the GRID model enables the Division to examine runs made by PacifiCorp as well as to recreate those runs to check for accuracy and whether prices proposed for QF contracts appear to meet both the ratepayer indifference standard and the just and reasonable standard. The Division is also able to examine input assumptions for reasonableness. Using the Henwood (IRP) model, which the Division understands to be the other major production cost model currently in use by PacifiCorp, would not allow regulators to check on the prices and inputs used by PacifiCorp because the Henwood model is proprietary with a hefty license fee. Although the Division

could request that PacifiCorp pay this fee so that regulators could use the machine, it would mean that ratepayers would be paying for a large licensing fee on a yearly basis, whether there were any QFs requesting pricing or not. The GRID model is not bound by the same restrictions. Also, the Division staff has been and will continue to be trained on the GRID model as updates emerge. This should provide potential QF developers some measure of comfort in that a third party will be able to examine the model being used to determine pricing offered by the utility.

QFs with a capacity in excess on 99 MW

- Q. Has the Division considered the question of how to calculate avoided costs for OFs of at least 100 MW?
- A. We have. The Division had numerous internal discussions regarding large scale QFs (100MW and over). Particularly in light of the recently passed SB26 that requires PacifiCorp to solicit bids for resources of 100 MW or more for terms over 10 years, the Division found it reasonable to also require QFs falling into this size or contract length to bid into an RFP in order to be awarded a capacity payment. The capacity and energy payment would then be determined by the winning bid price rather than an avoided cost run. The QF would not, however, need to win a bid in order to receive an energy payment, as the Division believes that federal law under PURPA mandates PacifiCorp to purchase energy output from all Qualified Facilities. Therefore, if a large

QF w	ere an	unsucces	sful bidd	ler into a	n RFP,	it would	still be	able to	request
indica	ative er	nergy pri	cing fron	n an avoi	ded cos	t run.			

Q. Are there other reasons that the Division believes that a bid process for large QFs is an appropriate manner in which to determine pricing?

Yes. The Division examined several reasons for a bid process being a viable method of setting avoided costs for a large QF:

First, the Division agrees with PacifiCorp in recognizing that Utah Code section 54-12-2 lists a bidding process as an acceptable method for the Commission to use to set rates. It states, "...the commission shall either establish a procedure under which small power producers and cogenerators offer competitive bids for the sale of power to purchasing utilities...." The Division does, however, disagree with PacifiCorp's assertion "that competitive bidding is **the method** recognized under Utah Code..." (Emphasis added) The Division does not believe that only the competitive bidding method satisfies the statute.

Second, the Division believes that offering very large QFs pricing that is not necessarily market based may result in the ratepayer indifference standard not being satisfied. For example, if a 200 MW QF were to receive pricing that was above that which was bid into an RFP, ratepayers would not be held indifferent. Also, offering pricing other than what is market based creates an atmosphere that is anti-competitive in that a QF would not be required to put forward a "best price" offer to compete with other independent generation if the QF could simply request avoided cost pricing. Again, this would violate

¹ Griswald Direct Testimony dated May 2005 at lines 297 and 298

the ratepayer indifference standard in that perhaps a better price could have been obtained from a different type of resource on the market. It could also violate the Utah statute 54-12-1, which calls for use of energy resources in a manner that will "provide for their most efficient and **economic** utilization." (Emphasis added)

Third, the Division believes that the ability of very large QFs to circumnavigate the RFP process could lead to problems in the planning process. It could also result in unnecessary expenses for both PacifiCorp and other potential resources, since a lengthy and expensive RFP selection could be made invalid by a QF requesting pricing after failing to win a bid.

Finally, a reason behind having published avoided cost rates for small QF projects is to reduce the administrative burden for PacifiCorp and the resource burden on the small QFs. It is also acceptable because very small QFs have a very small impact on PacifiCorp's system. A medium to large QF, conversely, could have a major impact on PacifiCorp's system, thereby justifying a larger administrative burden on the part of PacifiCorp. A QF project of 100 MW or more should have sufficient resources and sophistication to participate in a bid process.

The Division does not believe that this is an exhaustive list of possible problems that could be associated with allowing large QFs to escape what we see as a legislative directive for the acquisition of major resources by the utility. We simply believe that this list is sufficient to justify requiring large QFs to bid into an RFP in order to receive a capacity payment.

Proposed adjustments to the avoided cost calculations

Q. In his testimony, lines 59-109, Bruce Griswald outlined several areas in which adjustments should be made to any QF pricing. Does the Division agree or disagree with any or all of the adjustments listed?

A. In order to ensure that the Division's position on each of the adjustments is clear, I will outline each adjustment along with the Division's position on each below.

Type of power being delivered: The Division read this adjustment to be contingent upon whether a QF would be firm or non-firm. The Division agrees that non-firm resources should be subject to an adjustment. Non-firm resources provide less value based upon the fact that PacifiCorp is unable to use the resource as effectively for planning purposes. This means that a non-firm resource, even of some size, will not enable PacifiCorp to avoid or delay a resource because PacifiCorp cannot plan on a non-firm resource being available when needed. Also, since operating reserves do have a value, a QF willing to provide operating reserves to PacifiCorp should be duly compensated.

QF availability during daily and seasonal peak periods: The Division reads this adjustment to mean that if a QF will not commit to provide energy and capacity on peak, then the resource should be treated as a non-firm resource for that period in which it is unwilling or unable to provide for onpeak needs. The Division agrees with this adjustment for the following reason.

The Division has examined the load resource balance that PacifiCorp faces over the next few years. During that time, the eastern control area is actually long on capacity during the off-peak, not short. PacifiCorp is short only during certain peak periods. Therefore, if a QF determines to only provide energy to PacifiCorp during off peak hours, this will only cause PacifiCorp to back down its own plants. This would not enable PacifiCorp to avoid or delay a resource meaning that the QF should be subject to an adjustment.

Ability of the utility to dispatch the QF: The Division reads this to mean that dispatchability would be accounted for in the model when determining pricing if applicable. The Division agrees that dispatchability is indeed a quality that should be modeled to ensure that the QF is given credit for the flexibility that it offers to PacifiCorp. Dispatchability could enable PacifiCorp to back down a QF rather than a coal unit for economic reasons in hours during which the extra energy was not needed. The Division also agrees that not meeting minimum availability requirements should be subject to an adjustment.

Reliability of the QF: The Division reads this proposal to mean that QF specific rates should be based upon actual operating characteristics of the plant, rather than on hypothetical operating characteristics or on characteristics of the avoided resource. The Division agrees that pricing should be based as closely as possible on the actual characteristics of the QF being priced. Anything else may not result in a price that maintains both an accurate avoided cost for the plant and ratepayer indifference.

184		Type of Generation technology and fuel source: Since this area seems
185		to primarily deal with renewable resources, specifically wind, I will leave this
186		topic of discussion to Dr. Abdinasir Abdulle, who is addressing renewable QF
187		issues on behalf of the Division in this docket.
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189	Misce	<u>llaneous</u>
190	Q.	In Division Witness Dr. Powell's Surrebuttal testimony filed as DPU
191		Exhibit 1.0SR (dated May 12, 2004), he indicates that it would be
192		reasonable for the Division to examine a proxy plant method that would
193		be used in lieu of a DRR. Did this examination occur in the taskforce?
194	A.	Yes and no. The Division did examine the proxy related documents submitted
195		by UAE during the taskforce, but we did not see a proxy method that was
196		sufficiently developed so as to alter our opinions on the method's adequacy.
197		Therefore, without a completely developed proxy method in hand, it was
198		impossible to thoroughly evaluate the option.

Does this conclude your direct testimony?

Q.

A.

Yes it does.

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