

January 20, 2017

#### **VIA ELECTRONIC FILING**

Public Utility Commission of Oregon 201 High Street SE, Suite 100 Salem, OR 97301-3398

Attn: Filing Center

RE: UM 1610 Phase II—Investigation into Qualifying Facility Contracting and Pricing Opening Testimony of PacifiCorp

PacifiCorp d/b/a Pacific Power encloses for filing in this docket the opening testimony of Bruce W. Griswold and Richard A. Vail.

PacifiCorp respectfully requests that all communications related to this filing be addressed to:

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Additionally, PacifiCorp requests that all formal information requests regarding this matter be addressed to:

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**PacifiCorp** 

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Informal inquiries may be directed to Natasha Siores at (503) 813-6583.

Sincerely,

R. Bryce Dalley

Vice President, Regulation

Docket No. UM-1610 Exhibit PAC/1700 Witness: Bruce W. Griswold BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON **PACIFICORP** Opening Testimony of Bruce W. Griswold January 2017

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### ATTACHED EXHIBITS

Exhibit PAC/1701 - Template Attestation and Requirements per PacifiCorp

Transmission's OATT

Exhibit PAC/1702 - Example of PacifiCorp Transmission Network Resource Designation

1	Q.	Please state your name, business address, and present position with
2		PacifiCorp, d/b/a Pacific Power (PacifiCorp or Company).
3	A.	My name is Bruce W. Griswold. My business address is 825 NE Multnomah
4		Street, Suite 600, Portland, Oregon 97232. I am employed by Pacific Power in
5		Energy Supply Management (ESM) <sup>1</sup> as Director of Short-Term Origination and
6		Qualifying Facility (QF) Contracts.
7	Q.	Briefly describe your education and business experience.
8	A.	I have a B.S. and M.S. degree in Agricultural Engineering from Montana State
9		University and Oregon State University, respectively. I have been employed by
10		the Company for over 30 years in various positions of responsibility in retail
11		energy services, engineering, marketing and wholesale energy services. I have
12		also worked at an environmental firm as a project engineer.
13		My current responsibilities as Director of Short-term Origination and QF
14		Contracts include the negotiation and management of wholesale power supply and
15		resource acquisition through Requests for Proposals (RFP) as well as overall
16		responsibility for the Company's QF Power Purchase Agreements (PPA). I have
17		appeared as a witness on behalf of the Company in UM 1610 and in multiple
18		proceedings across PacifiCorp's six state jurisdictions.
19	Q.	Have you testified on this issue before?
20	A.	Yes. I was the Company witness on the load pocket/transmission service issue in
21		UM 1610 Phase I and Phase II.

 $^{1}$  ESM is PacifiCorp's merchant function and operates as the commercial arm of the regulated utility business.

#### PURPOSE AND OVERVIEW OF TESTIMONY

A. My testimony addresses an unresolved component of a specific issue from the

UM 1610 Phase II Issues List in Attachment A of the March 26, 2015 Ruling by

Administrative Law Judges Shani Pines and Traci A.G. Kirkpatrick: "Issue 9 
How should third-party transmission costs to move QF output in a load pocket to

load be calculated and accounted for in the standard contract?"

This issue was partially addressed by the Public Utility Commission of Oregon (Commission) in UM 1610 Phase I in Order No. 14-058. In that Order, the Commission ruled that "any costs imposed on a utility that are above the utility's avoided costs must be assigned to the QF in order to comport with PURPA avoided cost principles." Subsequently in UM 1610 Phase II, in Order No. 16-174, the Commission directed parties to work together to resolve how to calculate and assign third-party transmission costs attributable to a QF in load pockets. With no agreed upon resolution by the parties, a procedural schedule was established to address this unresolved component of the issue. It is actually a simple request: how to calculate and allocate to the QF in its PPA any third-party transmission costs that are associated with moving the QF's output in excess of local load from a load pocket to another load area on the utility's system. PacifiCorp's position is that ESM should allocate the cost of third-party, long-term, firm point-to-point arrangements to QFs on an individual project basis

<sup>2</sup> In re Investigation into Qualifying Facility Contracting and Pricing, Docket No. UM 1610, Order No. 14-058 at 22 (Feb. 24, 2014).

<sup>&</sup>lt;sup>3</sup> *In re Investigation into Qualifying Facility Contracting and Pricing*, Docket No. UM 1610, Order No. 16-174 at 3 (May 13, 2016).

1 by reflecting the actual costs of those arrangements in an addendum to the 2 contract. 3 0. Are any other Company witnesses presenting testimony in this proceeding? 4 A. Yes. Mr. Richard A. Vail, Vice President, Transmission Services at PacifiCorp 5 Transmission, addresses PacifiCorp Transmission's role in securing QF 6 transmission service as well as more general transmission service arrangements. 7 Q. Please summarize your testimony. 8 A. The Company's original proposal to allocate the cost of third-party, long-term, 9 firm point-to-point transmission service arrangements to QFs on an individual 10 project basis by reflecting the actual costs of those transmission arrangements in 11 an addendum to the PPA is far superior to any other proposed alternative 12 described by any party thus far and, in most circumstances, the only legal or 13 workable proposal. The Company's proposal complies with all relevant federal 14 transmission requirements, including Open Access Transmission Tariff (OATT) 15 requirements and OATT processes and business practices, and also comports with 16 standard industry practice. It is also consistent with the processes the Federal 17 Energy Regulatory Commission (FERC) has previously recognized for QF 18 transmission arrangements. 19 Furthermore, the Company's proposal maintains customer indifference 20 because PacifiCorp's customers pay the actual avoided cost for QF power under 21 this arrangement. Customers do not over- or under-compensate the QF for their 22 power, nor are customers exposed to unnecessary potential price risk due to a flaw 23 in the cost-allocation policy. Finally, the proposal is fair to QFs because a QF

pays nothing more than the actual cost incurred for the third-party transmission service necessitated by the QF's project, passed through according to the PPA addendum.

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It is also important to note that for the smaller QFs who develop their projects under standard avoided cost prices with standard agreements, the whole premise of PURPA is to keep it simple and straightforward for the smaller QF published prices, template agreements, etc. The Company's proposal is just that. As described in more detail below, on a case-by-case basis, ESM requests OATT transmission service from PacifiCorp Transmission to transmit QF power, and ESM only makes additional third-party transmission arrangements if PacifiCorp Transmission determines such arrangements are necessary to accommodate ESM's request. Under those circumstances, ESM secures the PacifiCorp Transmission-specified amount of long-term, firm point-to-point transmission for the term of the PPA from the relevant third-party transmission provider at its published rates, and bills the QF for the actual costs incurred on a monthly basis. This approach follows existing OATT requirements and FERC policies, and proposes a simple, case-by-case, direct pass through of costs to maintain customer indifference consistent with the Commission's directives. Yet, the parties to this docket appear to seek alternatives that are not straightforward or they demand wide negotiation rights on one portion of their contract going outside the boundaries of FERC-approved tariffs and processes, but hold the Company to standard terms on all others.

1 Does PacifiCorp believe there are better alternatives to the Company's Q. 2 proposal? 3 No. While parties in this docket claim there are better alternatives to the A. 4 Company's proposal, the alternatives described thus far have been vague and 5 difficult to understand, and some appear to be clearly unworkable. It is critical 6 that any cost-allocation proposal meet certain minimum criteria to avoid negative 7 consequences. In an effort to facilitate the discussion of other potential 8 alternatives, I offer the following principles that any cost allocation must follow: 9 1. Comply with FERC open access / federal transmission policies. The 10 reason for this criterion is foundational: PacifiCorp cannot offer options 11 that violate federal law. And as described by Mr. Vail, the underlying 12 goal of FERC's open access policies was to ensure transmission providers offer nondiscriminatory transmission service to all customers. As a result, 13 14 FERC directed all transmission providers to provide transmission service 15 under the rates, terms, and conditions of an OATT on file with FERC. 16 Thus, any cost allocation proposal must adhere to OATT requirements and 17 processes. 18 2. Provide for firm delivery of QF power to PacifiCorp's load. This 19 "firmness" requirement assures that ESM can comply with FERC orders

holding that QF power *must be delivered to load on a firm basis.*<sup>4</sup> Relying

<sup>&</sup>lt;sup>4</sup> See, e.g., Pioneer Wind Park I, LLC, 145 FERC  $\P$  61,215 at P 38 (2013) (finding a proposed curtailment provision inconsistent with PURPA because it would have curtailed the QF "as if it were a *non-firm*, secondary network service transmission customer") (emphasis added); *Entergy*, 137 FERC  $\P$  61,199 at P 52 (2011) (finding that once QF energy is purchased, it is the utility's responsibility to deliver that energy to its load).

1 on non-firm transmission coupled with QF curtailment is not a FERC-2 compliant option. 3 3. Be guaranteed and remain available for the duration of the QF PPA. 4 Any cost-allocation proposal that does not allow for the option of firm 5 delivery of QF power to PacifiCorp's customers for the duration of the QF 6 PPA is inappropriate. PacifiCorp has an obligation to deliver QF power to 7 its load on a firm basis; should transmission become unavailable mid-8 PPA. OF generation could create a financial burden or raise other potential 9 compliance or reliability risks for PacifiCorp and its customers. 10 4. **Be designed to achieve customer indifference.** Any cost-allocation 11 proposal should allocate to the QF the actual incurred third-party 12 transmission costs for delivering QF power from a load pocket to 13 PacifiCorp's load, nothing more, and be consistent with PURPA's 14 customer indifference standard. 15 5. Rely on existing processes and procedures and industry standards. 16 PacifiCorp should not be required to deviate from any FERC-approved or 17 standard industry practices to create an entirely new method of providing 18 firm transmission service. Aside from being unworkable and potentially 19 illegal, any such proposals would presumably be expensive and 20 inconsistent with FERC and PURPA precedent. 21 PacifiCorp's proposal meets all of these requirements. To the extent any 22 alternatives presented in this docket also meet these minimum standards, the 23 Company is open to reviewing those alternatives as well.

1		HIGH LEVEL OVERVIEW OF A UTILITY'S MERCHANT AND
2	TRA	ANSMISSION FUNCTIONS, AS RELEVANT TO UTILITY TRANSMISSION
3		OBLIGATIONS UNDER PURPA
4	Q.	You described other parties' proposed alternative cost allocation
5		mechanisms as vague and difficult to understand, and in some cases clearly
6		unworkable. Can you explain why?
7	A.	Yes. The alternatives described by other parties—from what PacifiCorp can
8		understand—often appear to rest on misunderstandings about certain fundamental
9		elements of the roles of a utility's merchant function and transmission function,
10		and the rules governing the dealings between those two functions. These
11		elements are critical to a utility's transmission obligations under PURPA, as well
12		as to understanding PacifiCorp's third-party transmission cost allocation proposal.
13	Q.	Can you describe some of these fundamental elements?
14	A.	Yes. PURPA obligates a utility to interconnect with a QF, purchase and make
15		firm arrangements to deliver a QF's power, and keep customers indifferent to
16		such QF purchases. Different business units within a single utility handle
17		different aspects of these PURPA obligations, and those business units must fulfill
18		their obligations within the bounds of other rules and regulations governing the
19		relevant processes.
20	Q.	Does this issue involve QF interconnections?
21	A.	No. The Commission is accustomed to QF interconnection service issues, which
22		involve the physical interconnection between the generation facility (here, a QF)
23		and PacifiCorp's electric system. For interconnections, the QF is the

interconnection customer, PacifiCorp Transmission is the transmission provider providing interconnection service, and the state jurisdictional<sup>5</sup> interconnection agreement governs the provision of interconnection service. This issue, on the other hand, involves the transmission service arranged to deliver the QF power away from the point of delivery at the interconnection to load. In that case, ESM is the transmission customer, PacifiCorp Transmission is the transmission provider providing transmission service, and the FERC jurisdictional transmission service agreement governs the provision of transmission service. In both processes, PacifiCorp Transmission is the transmission provider providing the service in accordance with its OATT, but the counterparty to each service differs. Q. You mentioned this issue involves the transmission arrangements necessary to deliver QF power. Does that only involve one kind of transmission service? A. It depends. It starts with a request for network transmission service, which in some cases can only be granted if a separate point-to-point transmission service reservation is also made on a third party system. I will walk through how this works, but first I will review the two main types of transmission service applicable to the load pocket situation under the OATT.

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<sup>&</sup>lt;sup>5</sup> Most QF interconnection agreements are state jurisdictional. When an electric utility is obligated under PURPA to interconnect with a QF and purchase the QF's total output, the relevant state authority has jurisdiction over the interconnection. If, however, the QF is permitted to make sales to third parties, the interconnection is FERC jurisdictional. See, e.g., Prior Notice and Filing Requirements Under Part II of the Federal Power Act, 62 FERC ¶ 61,128, order on reh'g, 64 FERC ¶ 61,139 at 61,991, order on reh'g, 65 FERC ¶ 61,081 (1993); Standardization of Generator Interconnection Agreements and Procedures, Order No. 2003, FERC Stats. & Regs. ¶ 31,146 at PP 813-14 (2003).

The first type is Network Integration Transmission Service (NITS) or Network Transmission (NT), which allows ESM as the transmission customer to purchase transmission service to integrate, plan, dispatch, and regulate its designated network resources to serve its customers in a manner comparable to that in which PacifiCorp Transmission as the transmission provider manages its transmission system to serve its customers in its balancing authority area.

The second type is Point-to-Point Transmission Service, which is the reservation and transmission of capacity and energy across a transmission provider's system on either a firm or non-firm basis from the point of receipt to the point of delivery.

- Q. Can you walk through how both of those transmission service types might come into play when a QF sites in a load pocket?
- 13 A. Yes. As noted above, PacifiCorp's merchant function, PacifiCorp ESM—not the 14 *OF*—is the transmission customer responsible for delivering that energy to load. 15 In particular, ESM (the transmission customer in this context) contracts with 16 PacifiCorp Transmission (the transmission provider) to make all QF service 17 arrangements. Thus, all of FERC's open access rules governing the provision of 18 transmission service apply to this transaction. As most relevant here, ESM must 19 request transmission from PacifiCorp Transmission in accordance with the terms 20 and conditions of PacifiCorp's OATT, and FERC's Standards of Conduct (SOC) 21 limit the types of information that can be shared between those two entities.

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1	Q.	How does ESM make a request for transmission service from PacifiCorp
2		Transmission in order to deliver QF power?
3	A.	Generally speaking, in order to make these arrangements, ESM requests
4		designation of a QF's PPA as a Network Resource (NR) (also referred to as
5		"DNR" status) under its Network Integration Transmission Service Agreement
6		(NITSA) with PacifiCorp Transmission.
7	Q.	What happens after ESM submits a DNR request?
8	A.	As described in more detail by Mr. Vail, PacifiCorp Transmission must study the
9		DNR request using the OATT-mandated study processes, and then give ESM
10		information about, among other things, whether there is sufficient capacity
11		available to accommodate the DNR request. This determination depends on a
12		host of very dynamic factors that can affect expected transmission conditions in
13		the particular area of the system where the new network resource is sited and
14		during the particular timeframe of the request.
15	Q.	Does this PacifiCorp Transmission study involve an assessment of whether
16		third-party transmission arrangements are needed?
17	A.	Yes. Again, as is discussed in more detail in Mr. Vail's testimony and below,
18		sometimes PacifiCorp Transmission determines that it can only reliably
19		accommodate ESM's DNR request if ESM makes a third-party transmission
20		arrangement to transmit any QF power in excess of local load out of the load
21		pocket and to a different area of PacifiCorp's system.

Q.	Can ESM make t	at determination if	tself or ot	therwise help	with the
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#### 2 **PacifiCorp Transmission study?**

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A. No. The majority of the information PacifiCorp Transmission uses to perform its
assessment of transmission conditions is non-public transmission information.

This means the information is only available to the transmission provider and, per
the strict requirements of the SOC, cannot be shared with any transmission
customer, including ESM. Thus, ESM does not know, or have access to, the
information necessary to making definite determinations about whether and how
ESM's request to designate a QF as a network resource can be accommodated

until PacifiCorp Transmission performs the OATT-required studies.

#### 11 Q. Are these requirements part of PURPA?

12 A. No. Securing a transmission arrangement with a FERC-jurisdictional 13 transmission provider is a highly regulated process governed by strict federal 14 rules, even before any PURPA requirements are factored in—federal rules that 15 must be followed when a utility's merchant function is securing transmission 16 arrangements for QF power delivery, as they are with all transmission customer 17 service requests. In other words, PURPA requires a utility's merchant function to 18 make firm transmission arrangements to deliver QF power to load. The OATT 19 and FERC's policies govern how those arrangements are requested, studied, and 20 ultimately secured.

#### BACKGROUND ON THIRD-PARTY TRANSMISSION COST ALLOCATION

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2 Q. Please provide some history regarding the Commission's previous rulings on 3 the third-party transmission issue. 4 A. As described in more detail below, PacifiCorp originally raised the issue of 5 allocating third-party transmission costs to QFs associated with moving QF 6 energy out of a load pocket to load under a very specific and rather narrow context in docket UE 235.6 The core foundation for that context was the FERC-7 8 jurisdictional OATT that governs both ESM's requests for transmission (whether 9 moving QF or non-QF power) and PacifiCorp Transmission's processing of any 10 transmission service request (again, whether moving QF or non-QF power). 11 Indeed, PacifiCorp explained in that docket that its proposal took advantage of the 12 existing OATT requirements, rather than creating new processes or requiring new rulemakings, to obtain firm transmission service to move OF power.<sup>7</sup> The issue 13 14 was ultimately moved into Phase I of Docket UM 1610. 15 Q. What is the context in which the issue of allocating third-party transmission 16 costs to QFs arises? 17 A. The very specific and rather narrow context in which the issue of allocating third-18 party transmission costs arises under the following circumstances: 19 1. A QF sites its project in a PacifiCorp load pocket. A load pocket is an

<sup>6</sup> Pacific Power's Schedule 37—Avoided Cost Purchases from Qualifying Facilities, Docket No. UE 235, PacifiCorp's Memorandum of Law in Support of Advice No. 11-011 at 2 (June 27, 2011). 
<sup>7</sup> Id. at 8-9.

area within PacifiCorp's non-contiguous transmission system where there

is insufficient local load to absorb additional generation because it would

PacifiCorp. Load pockets are typically located in more isolated areas of PacifiCorp's non-contiguous transmission system that are partially, or even entirely, reliant on third-party transmission. Thus, in that situation, the generation in excess of local load must be transmitted over third-party systems to other areas of PacifiCorp's system to preserve reliability and prevent an over-generation situation.

2. ESM is the purchaser of the OF power. It is the transmission service.

- 2. ESM is the purchaser of the QF power. It is the transmission service customer that is required to make firm transmission service arrangements to move the QF power from the point of delivery to load. As described above, ESM makes these firm arrangements by submitting a request with PacifiCorp Transmission to designate the QF as a network resource in accordance with the requirements of the PacifiCorp Transmission FERC-jurisdictional OATT, and under the standard practices recognized by FERC.
- 3. As is discussed in more detail in Mr. Vail's testimony, PacifiCorp Transmission, in turn, studies ESM's transmission service request in accordance with the OATT. Sometimes PacifiCorp Transmission determines that it can only reliably accommodate ESM's request if the QF power in excess of local load is transmitted out of the load pocket on firm, third-party transmission.
- 4. It is under these specific circumstances—when ESM is told by a transmission provider that it can only approve ESM's DNR request if

ESM makes firm transmission arrangements on a third-party system—that ESM requests transmission on the appropriate third-party system, in the amount determined necessary by PacifiCorp Transmission.

The issue in the current docket stems from the conditions and contingencies noted above. Within that context, the Commission has ruled that it is consistent with PURPA's avoided cost principles to assign *to QFs* any third-party transmission costs incurred by a utility for the purpose of moving QF output from the point of delivery to its load. Such costs are not otherwise included in the calculation of avoided costs, and allocation of these costs to QFs maintains customer indifference.

While the Commission deferred the question of how to calculate and assign those third-party transmission costs to a QF, it did *not* suggest that parties should disregard the history of this issue in this proceeding. Most importantly, the Commission did not suggest that the parties to this docket should ignore or forget the specific and narrow context within which the cost-allocation issue was raised when determining the appropriate calculation and assignment of transmission costs.

Consequently, PacifiCorp would ask the Commission to limit the scope of its considerations in this docket to the issue actually moved forward from previous dockets: Assuming the four contingencies identified above, what is the appropriate way to calculate and allocate to a QF any third-party transmission costs associated with moving the QF's output in excess of local load from a load pocket to another load area on PacifiCorp's system?

### QF TRANSMISSION ARRANGEMENTS

2	Q.	Please identify key components of a third-party transmission arrangement to
3		move QF power from one load pocket to another load area on PacifiCorp's
4		system.
5	A.	As noted above, contracting for transmission arrangements with a FERC-
6		jurisdictional transmission provider is highly regulated and governed by federal
7		rules. All of FERC's rules governing the provision of transmission service apply
8		to an arrangement to move generator power from one part of a transmission
9		system to another, whether the generator is a QF or non-QF. There is no "QF
10		exception." In securing this transmission service, ESM must act in accordance
11		with the terms and conditions of the transmission provider's OATT, the same as
12		any other party seeking transmission service from a FERC-jurisdictional
13		transmission provider.
14	Q.	Must ESM obtain firm transmission arrangements for the delivery of QF
15		power?
16	A.	Yes. ESM must secure long-term, firm transmission to deliver QF power during
17		the full term of the PPA to reliably serve its load. <sup>8</sup> ESM believes it must purchase
18		firm transmission arrangements in order to remain compliant with FERC PURPA
19		precedent.9 Requiring ESM to provide QFs with non-firm transmission
20		arrangement alternatives is in direct conflict with the FERC precedent identified
21		in Pioneer Wind Park I, LLC, 10 where FERC stated that a violation of PURPA

<sup>&</sup>lt;sup>8</sup> PacifiCorp Prehearing Brief at 52-55. <sup>9</sup> *See, e.g.*, PAC/1600, Griswold/4. <sup>10</sup> 145 FERC ¶ 61,215 (2013) ("*Pioneer*").

would occur if the QF was treated as if it were a *non-firm*, secondary network service transmission customer that could be curtailed ahead of other network resources.<sup>11</sup>

Q. Is there a standard practice for making these firm transmission arrangements to deliver OF power?

6 A. Yes. As discussed above, ESM (not the QF) is the transmission customer making 7 the firm transmission arrangements to deliver the QF power. Further, as 8 PacifiCorp has explained to FERC, ESM has historically made these firm transmission arrangements by requesting the designation of QF PPAs as network 9 resources using the OATT process, also described above. 12 Thus, ESM must 10 11 request transmission from PacifiCorp Transmission in accordance with the terms 12 and conditions outlined in its OATT and all of FERC's open access rules 13 governing the provision of transmission service apply.

Q. Must ESM obtain firm transmission arrangements for the delivery of QF power with a *minimum term*?

A. Yes. In light of FERC's "rollover rights" policy, PacifiCorp believes a five-year minimum term is critical to meeting its mandatory purchase obligation and maintaining the integrity of the QF contracting process. In order to secure transmission for the entire term of the PPA, FERC policies require that a transmission customer make an initial minimum five-year commitment in order to obtain renewal rights (or "rollover rights") to that transmission capacity after the

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<sup>&</sup>lt;sup>11</sup> *Id.* at P 38.

<sup>&</sup>lt;sup>12</sup> See, e.g., PacifiCorp, 151 FERC  $\P$  61,170 at P 3 (2015).

initial service agreement expires.<sup>13</sup> Without this commitment, ESM's 1 2 transmission rights could be displaced during the term of a QF's PPA if another 3 transmission customer requests a higher priority service and there is insufficient transmission capacity to accommodate both transmission customers. 14 Thus, 4 5 ESM's policy is to purchase long-term, firm transmission (if it is available) in 6 order to ensure that firm third-party transmission service will remain available over the term of the OF's PPA.<sup>15</sup> 7 8 Q. Why doesn't ESM simply obtain non-firm transmission arrangements for a 9 OF and curtail the OF if transmission is unavailable? 10 A. PacifiCorp has serious concerns regarding any suggestions that it be required to 11 use curtailment as an alternative to purchasing long-term, firm transmission 12 service because, as PacifiCorp has stated previously, that option appears to be illegal. 16 Unlike non-QFs, which a utility typically has the flexibility to decide 13 14 whether to dispatch based on a variety of factors, including economic 15 considerations, FERC prohibits the curtailment of QF resources except under two 16 very narrow circumstances: (1) system emergencies, and (2) extreme light load 17 conditions where ESM has, in fact, backed its own resources down to minimum levels.<sup>17</sup> The second option applies only to OFs selling power on an "as 18 available" basis, as opposed to under a fixed-price PPA. Practically speaking, 19

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<sup>&</sup>lt;sup>13</sup> PacifiCorp Prehearing Brief at 53.

<sup>&</sup>lt;sup>14</sup> PAC/1000, Griswold/24-25; PAC/1300, Griswold/17.

<sup>&</sup>lt;sup>15</sup> PAC/1300, Griswold/20-21.

<sup>&</sup>lt;sup>16</sup> See PacifiCorp Prehearing Brief at 54; PAC/1600, Griswold/7-8.

<sup>&</sup>lt;sup>17</sup> See, e.g., 18 C.F.R. § 292.307(b); 18 C.F.R. § 292.304(f).

<sup>&</sup>lt;sup>18</sup> See, e.g., Idaho Wind Partners 1, LLC, 140 FERC ¶ 61,219 (2012) (explaining that, if a QF is selling under a long-term contract, FERC presumes that light-loading situations have already been factored into the long-term avoided cost, and curtailment is not permitted).

1		then, a utility can only curtail a QF with a long-term PPA under system
2		emergency conditions. Curtailing a QF when transmission is unavailable, as can
3		occur with non-firm transmission service, is not an emergency condition. Under
4		this circumstance, FERC prohibits curtailing the QF project even though ESM
5		would have no transmission to move the QF output to load. Therefore, use of
6		non-firm transmission service is not an option when transmitting QF power.
7	Q.	Are minimum load and excess generation issues unique to QF resources?
8	A.	No. Any generator that sites in a load pocket can create an over-generation
9		situation. In the case of purchases from non-QF resources, however, excess
10		generation issues are handled through contract price adjustment and/or
11		curtailment of the resource. Those options are not available for standard Oregon
12		QFs.
13	Q.	Are these the costs the Commission has held to be allocated to QFs that have
14		caused generation within a load pocket to exceed load?
15	A.	Yes.
16		SITING OF QF PROJECTS
17	Q.	Can the Company provide guidance to a QF on where to site a project?
18	A.	No, for a number of reasons. First and foremost, this determination depends in
19		large part on non-public transmission information held by PacifiCorp
20		Transmission. ESM has no more access to this information than a QF. ESM,
21		which manages the PPA process, only receives information that would be
22		publically available on OASIS and relies on PacifiCorp Transmission for a
23		determination of the minimum load conditions in the load pocket to determine if

an excess generation condition exists. ESM can use OASIS information, as can the QF, to determine at a high level if the addition of a new generator may cause an excess generation condition but will need to complete a transmission service request per PacifiCorp's OATT for final determination. As I will discuss in further detail, under FERC rules, a request for designated network resource status and a transmission service request can only be sent to PacifiCorp Transmission after ESM has executed a PPA with a QF.

Second, even if ESM had access to non-public transmission information and could legally share it, a load pocket is a dynamic situation, increasing or decreasing as load and generation is added or removed, so updating load pockets would be burdensome and likely not remain accurate for very long. Therefore, a QF making a decision based on the information from a table or a map (as has been suggested in the past), may be misinformed when it should be seeking the most accurate and up-to-date information from the utility. In addition, per OATT and FERC policy, and as described by Mr. Vail, PacifiCorp Transmission must process all requests for transmission service, including new network resource designation requests, in the order in which they are received and within specifically-identified timeframes. Applications are assigned a priority in the transmission service queue<sup>19</sup> according to the date and time PacifiCorp Transmission receives the application. Applications are processed in order, with the earlier applications processed and studied at higher priorities under the OATT.

<sup>&</sup>lt;sup>19</sup> The transmission service queue is separate and distinct from the generation interconnection queue. Both queues are available on OASIS.

Third, development of a project is the QF's responsibility and PacifiCorp (both ESM and PacifiCorp Transmission) have to operate in a non-discriminatory manner with all QFs. Publishing a "map" or "guide" is not possible, and providing available information and guidance to QFs on a case-by-case basis, limited though that information may be, could be construed as discriminating against other QFs.

Lastly, the QF itself will receive some preliminary information regarding excess generation conditions and minimum loads when it conducts its interconnection studies through PacifiCorp Transmission. A QF can use that information for its own development needs.

- Does ESM attempt to provide the QF with indicative information on an excess generation condition caused by their proposed project?
- Yes, as soon as it is appropriate to do so. Once the Company has the QF project information with site selected by the QF and the proposed interconnection point, the Company informs the QF as soon as practical if it anticipates any excess generation issues; however, details on timing and amount of excess generation are not available to ESM until a transmission service request is placed in accordance with PacifiCorp Transmission's OATT. This cannot occur until execution of the PPA.

The details of the third-party transmission required by ESM including cost and availability are not available until ESM receives the study results from the DNR request and also contacts the third-party transmission provider through a transmission service request per that transmission provider's OATT.

Q.

A.

#### PROCESS FOR OBTAINING TRANSMISSION SERVICE FOR QF POWER

$\mathbf{\Omega}$	XX71 4 * 41	1 4			
Q.	What is t	ne trar	ismission	service	process:
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3 A. As described above, the transmission service process involves the provision of 4 transmission service from a point of interconnection to another point on the 5 transmission system. The parties to a transmission service agreement are the 6 transmission customer and transmission provider. In the case of a QF siting in a 7 load pocket, the transmission customer is ESM and the transmission provider is 8 PacifiCorp Transmission. ESM needs transmission service because it has 9 purchased the power from the QF at the point of delivery and must move it to 10 load; PacifiCorp Transmission provides that transmission service.

#### Q. How does the transmission service process work?

A. I will outline the transmission service process from ESM's perspective. Mr. Vail also reviews a number of points in the process from PacifiCorp Transmission's perspective.

When ESM receives a PPA request from a QF, ESM is obligated by PURPA to make the necessary transmission arrangements to move that power to its load on a firm basis. In doing so, both ESM and PacifiCorp Transmission are required to follow the OATT requirements and procedures. In accordance with the OATT, ESM must first execute a QF PPA. Once that PPA is executed, ESM submits an application with PacifiCorp Transmission to request the executed QF PPA be designated as a network resource, or DNR, allowing for firm transmission of the QF power to load under the network transmission agreement between PacifiCorp Transmission and ESM. ESM must follow the same OATT

requirement that *any* transmission customer must follow in order to obtain appropriate transmission service to deliver its resource to load.

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This DNR application is ESM's standard practice for fulfilling its PURPA obligation to make firm transmission arrangements for delivery of QF power to load. PacifiCorp Transmission must study the DNR request using the OATTmandated study processes, and then give ESM information about, among other things, whether there is sufficient network transmission capacity available to accommodate the DNR request. This determination depends on a host of factors that can affect expected transmission conditions in the particular area of the system where the QF has sited its project and during the particular timeframe of the request. As noted, the majority of information PacifiCorp Transmission includes in its transmission studies is non-public, meaning the information is only available to PacifiCorp Transmission and, in accordance with the strict requirements of the SOC, cannot be shared with any transmission customer, including ESM. Thus, ESM's ability to make definite determinations about transmission needs for the QF is limited until PacifiCorp Transmission performs the OATT-required studies.

Under the OATT, ESM cannot submit this application to PacifiCorp

Transmission until the PPA is signed.<sup>20</sup> I have included Exhibit PAC/1701 with

my testimony which is the template attestation and requirements per PacifiCorp

Transmission's OATT. On the last page of Exhibit PAC/1701, PacifiCorp

<sup>&</sup>lt;sup>20</sup> Although the OATT does not explicitly address legally enforceable obligations, or LEOs, under PURPA, some utilities have interpreted the "executed contract" language to include the moment a LEO arises. See Exhibit PAC/1701 at p. 8.

1		Transmission has an attestation to be executed by the transmission customer,
2		ESM, regarding the timing of when the DNR can be submitted and that the
3		resource is committed to serve ESM's load on a non-interruptible basis.
4	Q.	What is the significance of this attestation?
5	A.	Under the OATT, ESM does not have the flexibility to request PacifiCorp
6		Transmission to conduct an early system impact study needed to determine
7		transmission needs prior to execution of the PPA. In other words, ESM cannot
8		know for sure what transmission arrangements might be necessary to
9		accommodate QF generation until a PPA is signed, ESM sends a request to
10		PacifiCorp Transmission, and PacifiCorp Transmission conducts certain studies.
11		Although ESM works with the QF early in the PPA process to identify any
12		excess generation issues based on the project information, it cannot try to guess at
13		the right transmission arrangements (and associated costs) for a particular QF.
14		ESM will not know what final transmission service is required and at what price
15		until a formal DNR request is submitted and studied by PacifiCorp Transmission,
16		and that is the case across the board—every transmission customer request to any
17		transmission provider is treated on a non-discriminatory basis in accordance with
18		the transmission service queue order and methodology, due to FERC's open
19		access policies.
20	Q.	Can transmission costs be rolled into the avoided cost in the PPA, as a
21		practical matter?
22	A.	No. As noted above, ESM has to wait until the PPA is signed to even request
23		transmission service for the QF output. Trying to roll the costs of transmission

service into the PPA pricing is therefore putting the cart before the horse. By 2 contrast, a PPA addendum that includes the actual third-party transmission costs 3 identified by PacifiCorp Transmission can be added at the appropriate time. An 4 avoided cost rate adjustment in the PPA makes little sense, as it would have to be 5 made when transmission costs are not yet known. 6 QFs cannot receive special treatment on this issue. PacifiCorp 7 Transmission must conduct its studies on a non-discriminatory basis, and their 8 reliability-based assessment of all transmission service requests (affiliated or not, 9 QFs or not), does not allow for special treatment outside the OATT process. 10 Q. What happens once the DNR is submitted to PacifiCorp Transmission? A. As discussed by Mr. Vail, once ESM submits a DNR application to PacifiCorp 12 Transmission, PacifiCorp Transmission follows the OATT procedures and 13 timelines to determine how best to reliably accommodate the transmission 14 request, including identifying whether the addition of the new DNR would cause 15 an excess generation condition in a load pocket at any time. If an excess 16 generation situation occurs, PacifiCorp Transmission may identify through a 17 system impact study the amount of third-party transmission capacity that ESM 18 must make obtain in order to move the QF power out of the load pocket and 19 thereby maintain reliability. 20

- Q. What does ESM do once it receives the transmission service system impact study results from PacifiCorp Transmission?
- 22 A. If there is no excess generation, and no further study by PacifiCorp Transmission, 23 ESM receives a letter from PacifiCorp Transmission deeming the resource to be a

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network resource, contingent upon satisfaction of all construction and testing within the interconnection agreement between the QF and PacifiCorp

Transmission. ESM keeps the letter confirming this DNR status on file for documentation as part of the QF's commercial operation designation.

By contrast, where PacifiCorp Transmission's system impact study identifies excess generation, PacifiCorp Transmission sends the results of the study to ESM. The results of the study dictate the amount of excess generation in megawatts (MW) that could be satisfied through the purchase of third-party transmission, the affected system(s), and identifies that condition as a prerequisite for network resource status in addition to completion of all interconnection requirements. I have prepared Exhibit PAC/1702 as an example of what PacifiCorp Transmission provides regarding network resource designation and contingencies that must be met.

At this point, ESM now has sufficient information to inform the QF of the amount of transmission service it would need to request from the third-party transmission provider in order to move its power to load. It does not yet have information about the cost of the transmission service. That cost cannot be known until ESM makes a transmission service request to the third-party transmission provider and obtains the results of that request. At this point, ESM would inform the QF of the results but would also have a discussion with the QF about the expected cost for long-term point-to-point transmission. ESM would estimate this cost based on the third-party transmission provider's OATT, and would provide this estimate before requesting the transmission service. ESM would then put in

1		its request to the third-party provider in accordance with that provider's OATT to
2		determine timing of a response to the request as well as what cost components
3		from the provider's OATT would be applicable to the request.
4	Q.	What are third-party transmission service arrangements that ESM requires
5		for QFs?
6	A.	ESM requires third-party arrangements that would satisfy PacifiCorp
7		Transmission' requirements for designation of the QF as a network resource
8		under PacifiCorp Transmission's OATT. This means that the third-party
9		transmission must be long-term, firm and point-to-point.
10		Point-to-point arrangements on third-party systems are made by requesting
11		point-to-point service under that third party's OATT. This means the rate is
12		public (i.e., in the OATT), and subject to change when the transmission provider
13		proposes and FERC approves a rate change. ESM would simply pass through its
14		monthly invoices to the QF, whatever they are, with no need to update it every
15		five years or try to guess at a fixed price at the outset of the PPA execution.
16	Q.	Is there a meaningful difference between an off-system QF delivering to
17		PacifiCorp via long-term point-to-point and the use of that same product by
18		ESM out of a load pocket for excess generation?
19	A.	No. The use and acquisition of third-party transmission are very similar on a
20		physical delivery basis. First, they are both OATT-based purchases. An off-
21		system QF is required to demonstrate it can deliver its output to PacifiCorp's
22		system via long-term, firm point-to-point transmission over a third party
23		transmission provider such that ESM receives it on a firm scheduled basis and can

seek network resource designation of that QF resource.<sup>21</sup> In that case, the QF is the purchaser of long-term point-to-point transmission for the term of the PPA to meet its firm delivery obligation to ESM. Those costs are borne by the QF.

In the load pocket situation, ESM has received the generator output directly from the QF but must transport the excess generation via a third-party transmission service provider to another location to load. In this excess generation case, ESM, in order to secure network resource designation from PacifiCorp Transmission for the QF must demonstrate to PacifiCorp Transmission it has acquired long-term, firm point-to-point transmission from the third party transmission provider. Both situations require a minimum five-year term for long-term, firm transmission in order to secure roll-over rights to cover the full term of the PPA. Thus, in both cases, in order for the Company to secure network designation of the QF resource, long-term, firm point-to-point transmission service is necessary to move the resource to load and the cost responsibility associated with that transmission service is assigned to the QF.

#### ALTERNATIVE SUGGESTIONS ARE UNWORKABLE

- Q. Do the arrangements suggested by parties provide a better alternative to the PPA addendum?
- 19 A. While parties in this docket claim there are better alternatives to the Company's 20 proposal, the alternatives described thus far have been vague and difficult to 21 understand, and some appear to be clearly unworkable. As noted above, it is

<sup>&</sup>lt;sup>21</sup> Under that scenario, ESM, the transmission customer, would be required by OATT Section 29.2(v) to provide as part of its application for DNR status for the off-system QF, details about the "[t]ransmission arrangements on the external transmission system(s)." FERC has stated such external transmission arrangements must be firm. *See*, *e.g.*, Order No. 890-B, 123 FERC ¶ 61,299 at P 178 (2008).

1 critical that any cost-allocation proposal meet the following minimum criteria: (1) 2 comply with FERC open access / federal transmission policies; (2) provide for 3 firm delivery of OF power to PacifiCorp's load; (3) be guaranteed and remain 4 available for the duration of the OF PPA; (4) be designed to achieve customer 5 indifference; and (5) rely on existing processes and procedures and industry 6 standards. PacifiCorp's proposal satisfies these principles for the reasons 7 discussed above. To the extent alternatives presented in this docket also meet 8 these minimum standards, the Company is open to reviewing those alternatives as 9 well. 10 Are there some transmission service options that ESM is willing to pursue Q.

with proposed QF projects that are creating an excess generation situation?

Yes. While ESM's position is that the required third-party transmission service are firm and point-to-point, there are options that ESM would consider to minimize the cost to the QF yet still protect our customers from paying more than avoided costs. For example, Short Distance Discount (SDD) is provided by BPA for point-to-point on short paths. In that case, if the third party arrangement ESM is making to move the power out of the load pocket is a point-to-point transmission arrangement on BPA's system, ESM could be eligible for the SDD if the path is less than 75 miles in accordance with BPA's rate schedule. If so, this discount would be passed onto the QF because PacifiCorp is proposing to directly pass through the actual cost of transmission each month.

- Q. Are there aspects of this issue PacifiCorp is in agreement with parties?
- 23 A. Yes. Parties are requesting that existing QFs be grandfathered and exempt from

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load pocket. Under the OATT, if the QF has been granted Network Resource (NR) status, it remains a NR and not subject to additional transmission costs. Of course, this is subject to the QF remaining a QF selling its output to PacifiCorp and the NR designation is renewed in accordance with the OATT at renewal of the PPA. A second aspect is whether QFs will continue to be treated as NRs upon renewal of their PPA. As noted above, subject to the QF remaining a QF selling its output to PacifiCorp and the NR designation renewed in accordance with the OATT at renewal of the PPA, there would be no discontinuation of the NR status. Please restate your conclusions from your testimony. The Commission's rulings in Order Nos. 14-058 and 16-174 in this proceeding did not direct the abandonment of basic OATT and FERC policies to determine appropriate calculation and assignment of third-party transmission costs. The Commission ruled on the issue raised within this original OATT-based context, concluding that it would be consistent with PURPA avoided cost principles to assign to QFs any third-party transmission costs incurred by a utility for the purpose of moving QF output from the point of delivery to load because such costs are not otherwise included in the calculation of avoided cost. The Commission deferred the question of how to calculate and assign those third-party transmission costs attributable to a QF, but it did not suggest that parties should disregard previous work and results in determining the appropriate calculation. Regardless, when the calculation question is examined with the relevant

OATT requirements, OATT processes, and standard industry practice,

paying any third-party transmission costs if the area they are located in becomes a

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PacifiCorp's original proposal to allocate the cost of third-party, long-term, firm, point-to-point arrangements to QFs on an individual project basis by reflecting the actual costs of those arrangements in an addendum to the contract is the best alternative for customers and for the QF, far superior to other parties' suggestions and ensuring PacifiCorp's ability to comply with its OATT and act in a manner that is consistent with the processes FERC has previously recognized for QF transmission arrangements.

In most circumstances the Company's proposal is the only legal or workable proposal. It complies with all relevant federal transmission requirements, including OATT requirements and OATT processes and business practices, comports with standard industry practice, and is consistent with the processes FERC has previously recognized for QF transmission arrangements.

Furthermore, the Company's proposal maintains customer indifference while being fair to QFs because a QF pays nothing more than the actual incurred cost of the third-party transmission service necessitated by the QF's project site, passed through according to the PPA addendum.

- Q. Does this conclude your testimony?
- 18 A. Yes.

Docket No. UM 1610 Exhibit PAC/1701 Witness: Bruce W. Griswold

# BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

#### **PACIFICORP**

**Exhibit Accompanying Opening Testimony of Bruce W. Griswold** 

Template Attestation and Requirements per PacifiCorp Transmission's OATT

January 2017

Exhibit PAC/1701 Griswold/1

## NETWORK INTEGRATION TRANSMISSION SERVICE SERVICE MODIFICATION FORM

*** FOR USE BY PACIFICORP/TRANSMISSION PROVIDER ONLY:				
Customer: AREF:				
Service Description:	MWs:			
Service Description.	111113.			
Service Start Date:	Service End Date:			
Submit the application as soon as possible. Subm	nit the Service Modification Form via facsimile to:			
PacifiCorp Attn: Transmission Service				
Fax Number: 503-813-6893 Verification Phone Number: 503-813-5588				
Termount in one i tumoeti. Esse ette eesse				
*** FOR USE BY PACIFICORP/TRANSMISSION PRO	VIDER ONLY:			
Date of receipt of OASIS Request:  Date of receipt of Written Application:				
Initial Application review completed by: Date:				
By signing, I certify that I have reviewed this form and any accompanying materials and to the best of my knowledge have determined that all of the information required by OATT Section 29 has been provided and is a Completed Application.				
Control review completed by: Date:				
By signing, I certify that I have reviewed this form and any accompanying materials and to the best of my knowledge have				
determined that all of the information required by OATT Section 29 has been provided and is a Completed Application.				
*** FOR USE BY PACIFICORP/TRANSMISSION PROVIDER ONLY:				
The Transmission Provider may, on a non-discriminatory basis, waive the deposit requirement for an existing Network Customer, provided (Transmission Provider must check each box and indicate date of waiver determination and OASIS posting):				
Network Customer has maintained its creditworthiness pursuant to the Tariff and is not in default in its obligations under the Tariff; and				
Transmission Provider has posted on OASIS notice of such waiver if granted in favor of an affiliate within one business day of the act of a waiver and that Transmission Provider has added the act of waiver to its waiver log.				

Date of waiver determination: Date of OASIS posting:

## SERVICE MODIFICATION FORM NETWORK INTEGRATION TRANSMISSION SERVICE

#### **INSTRUCTIONS:**

This form is intended to be used by a Network Customer seeking to modify any aspect of its existing Network Integration Transmission Service Agreement (NITSA) on the PacifiCorp Transmission System.

This form should not be used to:

- Temporarily undesignate a Network Resource, or
- Make an initial request for Network Integration Transmission Service (NITS).

Network Customer must submit an application pursuant to Section 29 of PacifiCorp's Open Access Transmission Tariff (OATT or Tariff) consisting of the following (Network Customer must check each box to indicate that the required data or information is enclosed with this Service Modification Form):

Network Customer requests that Transmission Provider waive deposit,\*\*\* and

	ELIGIBLE CUSTOMER INFORMATION OATT Sections 29.2 (i ) and (ii)
Pro	vide the following information:
	Name:
	Address:
	Telephone Number:
	Facsimile Number:
	Identify NITSA to be Modified (Service Agreement #):
	Check Box to attest that the Network Customer continues to be an Eligible Customer under the Tariff.

		NET	WORK LOA OATT Sect		ESCRIPTION 9.2 (iii)		
	Check Box to attest that there are no changes to the Network Load description(s) identified in the Network Customer's Load and Resources data submittal to PacifiCorp, dated:						
poi						Network Load at each delivery ely identify your best estimate	
	Identify Delivery Network Load Point		Total MW Lo	HOT THEFE	Transmission Voltage	Network Customer's other Loads served from Transmission Provider substation at the same Transmission Voltage	
			of				
	Service	e Start Date and H	Iour		Service Er	nd Date and Hour	
the tran serv (or	first year after the asmission service i vice request is for	service is schedurequest, or is other less than ten (10) pected to vary sea	iled to commend rwise attached l years, please at asonally, a force	ce is herev tach casteo	included in Netw vith for each mod forecast of sumn d peak load requi	oad requirements beginning with york Customer's OASIS diffication. If OASIS transmission her and winter load requirements rement) for balance of ten (10)	

## INTERRUPTIBLE LOAD INCLUDED IN NETWORK LOAD OATT Section 29.2 (iv)

Check Box to attest that there are no changes to the interruptible load description in the Network
Customer's Loads and Resources data submittal to PacifiCorp, dated:

Unless the above box is checked, the following are requested changes to the interruptible load description in the NITSA/Loads and Resources data submittal:

Interruptible Load	Delivery Point	Summer Capacity Requirements			er Capacity Juirements	Conditions under which an interruption
		Total (MW)	Interruptible Amount (MW)	Total (MW)	Interruptible Amount (MW)	can be implemented and any limitations on the amount and frequency of interruption

NETWORK RESOURCES OATT Section 29.2(v)					
Check Box to attest that there are no changes to the Network Resource(s) identified in the Network Customer's Loads and Resources data submittal to PacifiCorp, dated:					
Unless the above box is checked, the following are requested changes to the Network Resource(s) identified the NITSA/Loads and Resources data submittal. Attach additional sheets as necessary.  Check Box to attest that a ten (10) year forecast of summer and winter resource requirements beginning with the first year after the service is scheduled to commence is included in Network Customer's OASIS transmission service request, or is otherwise noted herein for each modification. If OASIS transmission					
service request is for less than ten (10) years, please attach forecast of summer and winter resource requirements (or if resources are not expected to vary seasonally, a forecasted peak load requirement) for balance of ten (10) year period or explain why a ten (10) year period cannot be provided:					
Part A Resource Information					
Resource Name					
Delivery Information					
Start Date and Time:					
End Date and Time:					
Control Area where title to the resource output is received:					
Resource Size					
Total MW of ownership rights in the resource:					
MW of Capacity being designated:					
On-System Resources Only: Describe the sale arrangements for the Network Customer's portion of the resource output that is not being designated:					
System Resources Only: VAR Capability of all Generators (Indicate if other than +/- 0.95)					
Leading:					
Lagging:					

	Part B External Transmission Arrangements						
	Check Box to attest that i	resource(s) is located with	hin the PacifiCorp transn	nission system.			
	Unless the above box is checked, the information requested in this Part B is required when title to the resource output is received outside the PacifiCorp transmission system.						
	Delivery Locations:						
	Point of Receipt where title to the resource output is received:						
	Specific location where the resource output will enter the PacifiCorp transmission system:						
	The firm, Point-to-Point Transmission Arrangements for delivery of the resource output from the point of receipt where title to the resource output is received to the location where the resource output will enter the PacifiCorp transmission system are as follows:						
	Transmission Provider Point of Receipt Point of Delivery Transmission Reservation Number						
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ą.			I				

	SMISSION SYSTEM tion 29.2(vi)				
☐ Check Box to attest that Network Customer does not have a transmission system,					
or					
☐ Check Box to attest that, if Network Customer does have a transmission system, there are no changes to the customer transmission system information identified in the Western Electricity Coordinating Council (WECC) base case study, dated					
Unless one of the above boxes is checked, check the formation is enclosed with this Service Modification					
	d reactive parts of the load, lines, transformers, reactive emergency ratings of all transmission equipment in a by the Transmission Provider;				
Operating restrictions needed for reliability;					
Operating guides employed by system operating	ators;				
Contractual restrictions or committed uses of than the Eligible Customer's Network Loads	of the Eligible Customer's transmission system, other s and Resources;				
☐ Location of Network Resources described in	n Network Resources section above;				
☐ 10 year projection of system expansions or	upgrades;				
☐ Transmission System maps that include any	proposed expansions or upgrades; and				
☐ Thermal ratings of Eligible Customer's Control Area ties with other Control Areas					
<b>—</b>					
	E DATES ion 29.2(vii)				
Check Box to attest that there are no changes to the Customer's Loads and Resources data submittal to					
Unless the above box is checked, the following service submitted over the OASIS and on this form. Unless n year.					
Service Start Date and Hour	Service End Date and Hour				
•					

ATTESTATION and SIGNATURE OATT Section 29.2(viii)				
Che	eck Box to attest that there are no changes to the Network Resource(s) identified i	n the N	ITSA.	
	the box is checked, answer the following questions for all Network Resource form:	change	s requeste	
1.	Do you, an authorized officer or agent of the applicant, attest that the applicant owns the proposed Network Resources identified above, has committed to purchase generation pursuant to an executed contract, or has committed to purchase generation where execution of a contract is contingent upon the availability of transmission service under Part III of the OATT?	Yes	No 🗆	
2.	Do you, an authorized officer or agent of the applicant, attest that the proposed Network Resources identified above do not include any resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the applicant's Network Load on a non-interruptible basis, except for purposes of fulfilling obligations under a reserve sharing program?	Yes	No 🗆	
Ву				
Pri	int Name:			
Co	ompany:			
Tit	le:			
Date:				

Docket No. UM 1610 Exhibit PAC/1702 Witness: Bruce W. Griswold

# BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

#### **PACIFICORP**

**Exhibit Accompanying Opening Testimony of Bruce W. Griswold** 

Example of PacifiCorp Transmission Network Resource Designation

January 2017



P.O. Box 2757 Portland, OR 97208-2757

October 3, 2014

Jim Schroeder Manager, C&T Contract Administration PacifiCorp Merchant Function ("C&T") 825 NE Multnomah St., 600-LCT Portland, OR 97232

Approval of Request to Designate OF PPA a Network Re: Resource (OASIS AREFs Dear Mr. Schroeder: On September 4, 2014, C&T requested to designate the network resource effective October 31, 2016 through October 31, 2036. This service will be accommodated using two AREFs: AREF will provide network service to Madras area load. If necessary, AREF in conjunction with long-term firm point-to-point transmission service with Portland General Electric ("PGE") and Bonneville Power Administration ("BPA"), and AREF with PacifiCorp, would combine to integrate surplus Madras generation during low load hours to the Prineville bubble. As of today's date, C&T has not secured transmission with PGE or BPA. C&T's request is hereby approved in accordance with section 30.2 of PacifiCorp's Open Access Transmission Tariff provided that 1) all facilities and requirements identified in the associated generation interconnection queue request are installed, tested, and in-service, and 2) point-topoint transmission service with PGE and BPA is acquired. and will remain in RECEIVED status until such time as facilities are in service and C&T provides documentation of valid point-to-point transmission with PGE and BPA. If you have any questions, please call me at (503) 813-6958.

Sincerely,

Veronica Stofiel

Account Manager, Transmission Services

Docket No. UM-1610 Exhibit PAC/1800 Witness: Richard A. Vail

# BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

#### **PACIFICORP**

Opening Testimony of Richard A. Vail

January 2017

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1	Q.	Please state your name, business address, and present position with
2		PacifiCorp d/b/a Pacific Power (PacifiCorp or Company).
3	A.	My name is Richard A. Vail. My business address is 825 NE Multnomah Street,
4		Suite 1600, Portland, Oregon 97232. My present position is Vice President of
5		Transmission. I am responsible for transmission system planning, customer
6		generator interconnection requests and transmission service requests, regional
7		transmission initiatives, capital budgeting for transmission, and administration of
8		the Open Access Transmission Tariff (OATT).
9		QUALIFICATIONS
10	Q.	Briefly describe your education and professional experience.
11	A.	I have a Bachelor of Science degree with Honors in Electrical Engineering with a
12		focus in electric power systems from Portland State University. I have been Vice
13		President of Transmission for PacifiCorp since December 2012. I was Director of
14		Asset Management from 2007 to 2012. Before that position, I had management
15		responsibility for a number of organizations in PacifiCorp's asset management
16		group including capital planning, maintenance policy, maintenance planning, and
17		investment planning since joining PacifiCorp in 2001.
18		PURPOSE OF TESTIMONY
19	Q.	What is the purpose of your testimony in this proceeding?
20	A.	I am testifying to the Open Access Transmission Tariff (OATT) requirements and
21		Federal Energy Regulatory Commission (FERC) policies that govern PacifiCorp
22		Transmission's processing of transmission customer requests for new network

1		resource designations, including the designation of qualifying facility (QF)
2		resources.
3		NETWORK RESOURCE DESIGNATION
4	Q.	Do special OATT requirements and FERC policies apply when designating a
5		QF project as a network resource?
6	A.	No. The OATT requirements and FERC policies that govern PacifiCorp
7		Transmission's processing of new network resource designation requests apply to
8		requests from all of PacifiCorp Transmission's transmission customers, not just
9		PacifiCorp Energy Supply Management (ESM), requesting designation of QFs.
10		This is consistent with the underlying goal of FERC's 1996 Order No. 888
11		mandate that transmission providers begin providing "open access" to their
12		transmission systems, i.e., to remedy undue discrimination in access to the
13		monopoly-owned transmission wires that controlled whether and to whom
14		electricity can be transported in interstate commerce. FERC's aim was to replace
15		that regime with one where all sellers could compete on a fair basis. Thus, FERC
16		directed transmission providers to provide transmission service under rates, terms
17		and conditions that are consistent with FERC's established pro forma tariff, or
18		request FERC permission to deviate from the pro forma tariff.
19	Q.	What does it mean to be a network resource?
20	A.	Under OATT Section 30.1, network resources can include generation that is
21		owned, purchased, or leased by the network transmission customer and designated
22		to serve the network transmission customer's network load. This includes QF
23		resources that execute Power Purchase Agreements (PPA) with PacifiCorp ESM.

1	Q.	How does a transmission customer request designation of a new network
2		resource?
3	A.	An existing network transmission customer, such as PacifiCorp ESM, may
4		request designation of a new network resource by submitting an application with
5		PacifiCorp Transmission under Section 29 of PacifiCorp Transmission's OATT.
6	Q.	Does PacifiCorp Transmission study all requests immediately?
7	A.	In accordance with OATT and FERC policy, PacifiCorp Transmission must
8		process all requests for transmission service, including new network resource
9		designation requests, in the order in which they are received and within
10		specifically-identified timeframes. Transmission customer applications are
11		assigned a priority in the transmission queue according to the date and time
12		PacifiCorp Transmission receives the completed application, with the earliest
13		applications receiving the highest priorities for OATT processing and studying.
14	Q.	What is the focus of a new network resource designation study?
15	A.	OATT Section 32 sets out the primary study process for new network service
16		requests, including new network resource designations. Generally speaking,
17		PacifiCorp Transmission studies whether sufficient existing transmission capacity
18		exists to accommodate new network resource requests.
19	Q.	Is this a simple study?
20	A.	Often times, no. The ultimate determination of transmission capacity availability
21		depends on a host of very dynamic factors that can affect expected transmission
22		conditions in the particular area of the system where the new network resource is
23		sited and during the particular timeframe of the request. Each study also reflects

assumptions about requests that are earlier in the queue. As a result, transmission studies are based on the known conditions at the time, with many factors and assumptions subject to change should conditions shift, requests drop out of the queue, etc.

Q. What happens if PacifiCorp Transmission determines in a study that it cannot accommodate a request for designation of a new resource?

A.

Generally speaking, where a network customer's request for designation of a new network resource cannot be reliably accommodated with the existing transmission capacity, the OATT and FERC's policies contemplate that a transmission provider will build transmission network upgrades to accommodate a request, or the transmission customer will withdraw its request from the queue.

Sometimes, however, PacifiCorp Transmission is able to offer the transmission customer an alternative to constructing time-consuming, costly new transmission facilities. For instance, where a new network resource is located in a load pocket (which is explained in detail in Mr. Bruce W. Griswold's testimony), and the addition of the new network resource would cause generation to exceed load within the load pocket and create operational and reliability issues in the load pocket, PacifiCorp Transmission may be able to grant the request for designation of the network resource contingent on a different option.

As an example, under the traditional model noted above, PacifiCorp

Transmission could upgrade PacifiCorp's transmission system, perhaps

constructing a brand new transmission line from the load pocket to another area of

PacifiCorp's system. As an alternative, PacifiCorp Transmission may be able to

1 identify third party transmission system(s) linking the load pocket to other areas 2 of PacifiCorp Transmission's system on which the transmission customer could 3 purchase firm transmission service to deliver the new network resource out of the 4 load pocket and preserve reliability. 5 THIRD PARTY TRANSMISSION 6 Q. Is the third party transmission option always available to resolve load pocket 7 over-generation situations? 8 No. The third party arrangement details necessary to approve a particular A. 9 designated network resource application will vary on a request-by-request basis 10 depending on, for example, the level of any over-generation conditions, which 11 third party system(s) connect the load pocket to a different part of PacifiCorp's 12 system, and the availability of capacity on those third party system(s). 13 Q. Can a transmission customer make a determination itself regarding whether 14 its resource might cause an over-generation situation in a load pocket, or 15 whether a third party transmission arrangement may help resolve that over-16 generation situation? 17 A. No. The majority of the information that PacifiCorp Transmission uses to

21 transmission customer.<sup>1</sup>

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perform its OATT studies is non-public transmission information. This means the

information is only available to the transmission provider and, under the strict

requirements of FERC's Standards of Conduct, cannot be shared with any

<sup>&</sup>lt;sup>1</sup> The Standards of Conduct includes three primary rules: (1) the "independent functioning rule," which requires transmission function and merchant function employees to operate independently of each other; (2) the "no-conduit rule," which prohibits passing transmission function information to marketing function employees; and (3) the "transparency rule," which imposes posting requirements to help detect any

1	Q.	Does PacifiCorp ESM have any special access to the transmission
2		information needed to make this determination?
3	A.	No. Under federal law, PacifiCorp ESM is treated like any other transmission
4		customer in terms of its access to the non-public transmission information
5		available to PacifiCorp Transmission. If PacifiCorp ESM needs transmission
6		service, PacifiCorp ESM must request transmission from PacifiCorp
7		Transmission and follow the OATT study and request process just like any other
8		transmission customer. It has no more access to transmission information than
9		any other transmission customer does, whether that customer is a QF, a non-QF
10		third-party, or PacifiCorp ESM.
11	Q.	Does this conclude your testimony?
12	A.	Yes.

instances of undue preference due to the improper disclosure of transmission function information. See generally Standards of Conduct for Transmission Providers, Order No. 717, 125 FERC ¶ 61,064 (2008).