

1 **BEFORE THE PUBLIC UTILITY COMMISSION**
2 **OF OREGON**
3 **UM 1610**

4 In the Matter of
5 PUBLIC UTILITY COMMISSION OF
6 OREGON
7 Investigation into Qualifying Facility
8 Contracting and Pricing.

STAFF SUPPLEMENTAL COMMENTS

9 **I. Introduction and Summary of Comments.**

10 The filing at issue is PacifiCorp's Non-Standard Avoided Cost Rates
11 (formerly Schedule 38) submitted by PacifiCorp after the Commission issued
12 Order No. 16-174 resolving several disputed issues in Phase II of the
13 Investigation into Qualifying Facility Contracting and Pricing related to the
14 implementation of the Public Utility Regulatory Policy Act (PURPA) (hereinafter
15 referred to as the "Compliance Filing"). The Staff recommends that the
16 Commission not allow the Compliance Filing to become effective because the
17 filing does not explicitly provide renewable qualifying facilities (QFs) the option
18 to select a "renewable" avoided cost price stream.

19 The question presented to the Commission is whether PacifiCorp is
20 required to offer renewable QFs seeking a non-standard PURPA contract the
21 choice of two avoided cost price streams: a renewable price stream that takes into
22 account Renewable Portfolio Standard (RPS)-related costs that PacifiCorp would
23 avoid with purchases from the QF and a non-renewable price stream that does not.
24 Staff thinks the answer to this question is "yes." In Order No. 11-505, the
25 Commission ordered PacifiCorp and Portland General Electric Company (PGE)
26 to offer both a renewable and non-renewable avoided cost price stream to

1 renewable QFs. The Commission has not addressed this requirement since that
2 order and has not altered it.

3 PacifiCorp believes it is only required to offer renewable QFs seeking a
4 non-standard contract one avoided cost price stream that does not take into
5 account RPS-related costs PacifiCorp would avoid with purchases from a
6 renewable QF. PacifiCorp relies on Staff testimony in Phase II of this proceeding
7 that Staff does not think that utilities have to use standard renewable avoided cost
8 prices “as the starting point” for non-standard renewable avoided cost prices.
9 PacifiCorp’s reliance on this testimony is misplaced.

10 First, as PacifiCorp acknowledges in its comments filed on October 24,
11 2016, whether PacifiCorp is required to offer two avoided cost price streams to
12 renewable QFs was not at issue in Phase II of UM 1610. Accordingly, the
13 Commission did not address the requirement for two alternate price streams in
14 Order No. 16-174 and certainly did not rescind it. Accordingly, even assuming
15 that PacifiCorp has properly interpreted Staff’s testimony to mean that Staff “does
16 not think” PacifiCorp has to offer two avoided cost price streams, (which it has
17 not), Staff’s testimony does not make it so.

18 Second, PacifiCorp’s interpretation of Staff’s testimony is unreasonable.
19 The testimony on which PacifiCorp relies concerns the “*starting point*” of the
20 calculation of non-standard avoided cost prices, not the end result. Staff’s
21 testimony that PacifiCorp did not have to *start* the calculation of non-standard
22 renewable avoided cost prices with the standard renewable avoided cost prices
23 does not imply that the end result of the calculation need not take into account the
24 RPS-related costs PacifiCorp will avoid with purchases from the renewable QF.

25 That the *end result* of the calculation of non-standard avoided cost prices
26 must be two avoided cost price streams, one that is based on the avoided costs of

1 a CCCT and another that is based on the avoided costs of the next renewable
2 resource acquisition in PacifiCorp's IRP, is clear from previous Commission
3 orders. Under Order No. 05-584, PacifiCorp is required to incorporate the costs
4 of the avoided proxy resource in deficiency-period avoided cost prices. Under
5 Order No. 11-505, PacifiCorp is required to offer renewable QFs two avoided cost
6 price streams, one that includes the avoided costs of the next deferrable renewable
7 resource in PacifiCorp's most recently-acknowledged IRP and another that
8 includes the avoided costs of a CCCT.

9 PacifiCorp also relies on the fact that the Commission authorized
10 PacifiCorp to use its Partial Displacement Differential Revenue Requirement
11 (PDDRR) methodology when calculating avoided cost prices for its assertion it
12 has no obligation to offer avoided cost prices that account for RPS-related costs
13 that PacifiCorp would avoid when purchasing energy and capacity from a
14 renewable resource. The nexus between PacifiCorp's belief it is not required to
15 offer a renewable avoided cost price stream to renewable QFs seeking a non-
16 standard contract and the Commission's order authorizing it to use the PDDRR
17 methodology is not clear for at least two reasons.

18 First, PacifiCorp's refusal to offer a renewable avoided cost price stream
19 to renewable QFs seeking a non-standard contract pre-dates Order No. 16-174.¹
20 Second, the Commission's authorization to use the PDDRR method should have
21 no effect on the requirement imposed under Order No. 11-505 to use a proxy

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23 ¹ This refusal is the basis for a complaint filed by Cypress Creek that has been
24 docketed as Docket No. UM 1799. PacifiCorp did not explain its rationale for the
25 refusal in its answer to the Cypress Creek complaint filed on October 19, 2016.
26 However, Cypress Creek alleges that PacifiCorp relies on Staff testimony in
Phase II of UM 1610 for its refusal to offer Cypress Creek indicative prices with
renewable prices because Staff testified in Phase II of UM 1610 that Staff did not
think that PacifiCorp had to "start" the determination of renewable avoided cost
prices with the standard renewable avoided cost price. (Docket No. UM 1799,
Cypress Creek Renewables Petition for Declaratory Ruling 4.)

1 renewable resource rather than a proxy CCCT to determine a renewable avoided
2 cost price stream during the utility's renewable resource deficiency period.

3 **II. Argument**

4 **A. Background.**

5 **1. Distinctions between standard and non-standard** 6 **avoided cost prices.**

7 Prices for energy purchased from QFs under PURPA are based on the
8 costs the purchasing utility would incur to acquire the energy or capacity but for
9 the purchase from the QF.² When determining what costs the utility will avoid
10 with a purchase from the QF, Federal Energy Regulatory Commission (FERC)
11 regulation 18 C.F.R. § 292.304(e) requires that the following be taken into
12 account, "to the extent practicable."

13 (e)(1) Utility cost data, including State review of any such data.

14 (e)(2) Seven enumerated factors relating to the availability of the energy
15 and capacity (i.e., reliability and dispatchability) during system and
16 seasonal peak periods.³

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18 ² 16 U.S.C. §§ 824a-(3)(b), (3)(d).

19 ³ The enumerated factors regarding availability during system and seasonal
20 peak periods are: (1) the ability of the utility to dispatch the qualifying
21 facility; (2) the expected or demonstrated reliability of the qualifying
22 facility; (3) the terms of any contract or other legally enforceable
23 obligation, including the duration of the obligation, termination notice
24 requirement and sanctions for non-compliance; (4) the extent to which
25 scheduled outages of the qualifying facility can be usefully coordinated
26 with scheduled outages of the utility's facilities; (5) the usefulness of
energy and capacity supplied from a qualifying facility during system
emergencies, including its ability to separate its load from its generation;
(6) the individual and aggregate value of energy and capacity from
qualifying facilities on the electric utility's system; and (7) the smaller
capacity increments and the shorter lead times available with additions of
capacity from qualifying facilities. (18 C.F.R. § 292.304(e)(2).)

1 (e)(3) The relationship of the availability of energy or capacity from the
2 qualifying facility as derived from the seven enumerated factors to
3 the ability of the electric utility to avoid costs, including the
4 deferral of capacity additions and the reduction of fossil fuel use.

5 (e)(4) Costs or savings related to line losses.⁴

6 Under 18 C.F.R. § 292.304(c), states must require utilities to offer
7 “standard rates” to QFs smaller than one hundred kW that are consistent with
8 rates based on the factors in 18 C.F.R. §§ 292.304(e)(1)-(4), but that do not vary
9 depending on the characteristics of the QF, except the Commission can impose
10 different standard rates for different technologies.

11 The Commission has a long history of taking into account the relationship of the
12 availability of energy and capacity from a QF to the utility’s system needs as
13 allowed under § 292.304(e)(3) for both standard and non-standard rates. More
14 specifically, the commission has determined that avoided cost prices should
15 reflect the fixed and variable costs of a proxy resource during periods the utility is
16 resource deficient and should be market-based when the utility is resource
17 sufficient.

18 Until its order in Phase I of this proceeding in 2014, the Commission did
19 not allow utilities to adjust standard avoided cost prices for the availability of QF
20 energy and capacity vis-à-vis the seven factors in § 292.304(e)(2). Instead,
21 utilities could assume no differences between the availability of the QF resource’s
22 energy and capacity and that of the avoided proxy resource when calculating the
23 standard rates. The Commission departed from this policy in Phase I of this
24 proceeding. The Commission decided to require the three utilities to offer
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26 ⁴ 18 C.F.R. §§ 292.304(e)(1)-(4).

1 different standard rates for different resource technologies, taking into account the
2 resource type's capacity contribution to the utility's peak load.⁵

3 In contrast, utilities are allowed to calculate non-standard avoided cost
4 prices that take into account the availability of the QF's energy related to the
5 seven enumerated factors described in § 292.304(e)(2). In its 2007 order relating
6 to implementation of PURPA for non-standard QFs, the Commission considered
7 whether to adopt specific methodologies for adjusting non-standard avoided cost
8 prices for the seven factors related to availability and for the most part decided to
9 provide guidance rather than prescriptions.

10 For example, with respect to the first of the seven factors in §
11 292.304(e)(2), reliability, the commission considered whether to require that the
12 utilities develop a sliding scale model to recognize the differences in QF value
13 based on its degree of availability – in other words, availability that falls short of
14 or exceeds the assumed availability of the utility proxy plant. The Commission
15 decided not to prescribe a specific methodology:

16 We do not prescribe a specific formula for determining the
17 reliability adjustment. We note, however, that utility power
18 cost models are well suited to estimating the value of higher or
19 lower reliability relative to that of the utility proxy plant.
20 Whether QF reliability varies on a seasonal or time-of-day
21 basis should be taken into account in determining any
22 reliability adjustment.⁶

21 Similarly, with respect to the second factor in §292.304(e)(2),
22 dispatchability, the Commission considered whether to adopt Staff's proposal that

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24 ⁵ *In the Matter of Public Utility Commission of Oregon Investigation into*
25 *Qualifying Facility Contracting and Pricing* (Docket No. UM 1610); Order No.
14-058.

26 ⁶ *In the Matter of Public Utility Commission of Oregon Staff's Investigation*
Relating to Electric Utility Purchases from Qualifying Facilities (Docket No. UM
1129); Order No. 07-360 at 18.

1 utilities use stochastic modeling under various futures, such as that used in
2 Integrated Resource Planning, to adjust rates to reflect the reduced value of a “24-
3 7” natural gas-fired combined heat and power facility, relative to the dispatchable
4 utility proxy plant.⁷ The Commission declined to adopt Staff’s proposal, instead
5 allowing utilities more flexibility.⁸

6 With respect to the third, fourth and fifth factors, contract terms, outages,
7 and system emergencies, the Commission decided these factors were
8 appropriately addressed in contract provisions rather than as price adjustments.⁹
9 And with the respect to the sixth and seventh factors, individual and aggregate
10 value and smaller capacity increments and shorter lead time, the Commission did
11 not require a specific adjustment or formula for adjusting avoided costs for these
12 factors, but instructed parties to incorporate these factors into the negotiated
13 contract if they can establish a practical and reasonable way to do so.¹⁰

14 **2. Renewable and non-renewable avoided cost prices.**

15 In Order No. 11-505, the Commission decided that PGE and PacifiCorp
16 must offer renewable QFs two avoided cost price streams, finding that this is
17 consistent with FERC's ruling clarifying the right of the states to determine the
18 avoided cost associated with utility purchases of energy from generators with
19 certain characteristics.¹¹ The Commission noted that “[r]enewable QFs willing to
20 sell their output and cede their RECs to the utility allow the utility to avoid

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22 ⁷ *Id.*, Order No. 07-360 at 18-20.

23 ⁸ *Id.*, Order no. 07-360 at 20.

24 ⁹ *Id.*, Order No. 07-360 at 20-22.

25 ¹⁰ *Id.*, Order No. 07-360 at 22.

26 ¹¹ *In the Matter of Public Utility Commission of Oregon Investigation Into
Resource Sufficiency Pursuant to Order No. 06-538 (Docket No. UM 1396);
Order No. 11-505 at 9.*

1 building (or buying) renewable generation to meet their RPS requirements[,]” and
2 that “[t]hese QFs should be offered an avoided cost stream that reflects the costs
3 that utility will avoid.”¹²

4 The renewable avoided cost price stream still distinguishes between
5 periods of resource sufficiency and deficiency. However, the deferrable proxy
6 resource under the renewable avoided cost price stream is the next avoidable
7 renewable resource identified in the utility’s IRP rather than the CCCT assumed
8 for non-renewable rates. Order No. 11-505 provides:

9 Like standard avoided costs, the renewable resource avoided cost rates
10 will vary depending on whether the utility is renewable resource
11 sufficient or deficient. During periods of renewable resource sufficiency,
12 the rate should be based on market prices. During periods of deficiency,
13 we adopt Pacific Power's proposal to base the renewable avoided cost on
14 the next utility scale renewable resource acquisition in the utility's IRP.
We find that reference to the utility's IRP will best ensure that the
renewable resource avoided cost rate most accurately reflects the costs
the utility will avoid with the QF purchase.¹³

15 **B. Order No. 16-174 does not rescind the requirement that**
16 **PacifiCorp offer non-standard renewable QFs two avoided cost**
17 **price streams.**

18 The issue presented in Phase II of this proceeding was whether PacifiCorp
19 should be allowed to use its PDDRR methodology in the calculation of non-
20 standard avoided cost prices instead of the method approved in Order No. 07-360.
21 Whether the Commission should eliminate the requirement imposed on
22 PacifiCorp and PGE in Order No. 11-505 to offer two avoided cost price streams,

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24 ¹² *In the Matter of Public Utility Commission of Oregon Investigation Into*
Resource Sufficiency Pursuant to Order No. 06-538 (Docket No. UM 1396);
Order No. 11-505 at 9.

25 ¹³ *In the Matter of Public Utility Commission of Oregon Investigation Into*
26 *Resource Sufficiency Pursuant to Order No. 06-538* (Docket No. UM 1396);
Order No. 11-505 at 4.

1 one renewable and one non-renewable, was not at issue. Given that no party
2 addressed the Order No. 11-505 requirement in testimony and given that the
3 Order No. 11-505 requirement is not discussed by the Commission in Order No.
4 16-174, Staff recommends the Commission reject any argument that Order No.
5 16-174 authorized PacifiCorp to offer renewable QFs only one avoided cost price
6 stream.

7 Contrary to PacifiCorp's assertion, the following PacifiCorp testimony did
8 not put parties on notice that the PDDRR methodology as proposed by PacifiCorp
9 would eliminate the requirement that PacifiCorp offer two avoided cost price
10 streams to renewable QFs seeking a non-standard contract:

11 **Q. Are the avoided fixed costs of the next deferrable**
12 **resource included in the PDDRR method during the deficiency**
13 **period?**

14 A. Yes. The Company calculates the avoided fixed costs of the
15 next deferrable resource outside of the GRID model based on
16 partial displacement of the next major thermal resource acquisition
17 in the IRP (that has not already been displaced by QFs with
18 contracts extending beyond the expected online date of the next
19 major resource). The fixed costs of the deferrable resource as
20 reported in the IRP are adjusted for the capacity contribution of the
21 specific QF type. Because the GRID model results capture the
22 system impacts of displacing the deferrable resource, the avoided
23 fixed costs are converted to a volumetric (\$/MWh) rate by
24 spreading them over the QF's expected annual generation.¹⁴

25 PacifiCorp's argument that Order No. 16-174 implicitly allows PacifiCorp
26 to offer renewable QFs seeking a non-standard contract only one avoided cost
price stream rests almost entirely on the qualifier "thermal" in the third line of the
answer excerpted above. The reference to a deferrable thermal resource in this
answer was not sufficient to signal to all parties and the Commission that

¹⁴ PAC/800, Dickman/23.

1 PacifiCorp intended to calculate only one avoided cost price stream based on
2 avoided costs of a thermal resource.

3 Notably, the PacifiCorp witness testified that PacifiCorp should be
4 allowed to use the PDDRR methodology because it is superior at accounting for
5 the specific characteristics of the QF as allowed under 16 C.F.R. §292.304(e)(2)
6 and Commission Order No. 07-360. However, the use of the next renewable
7 avoidable resource in the utility's IRP is intended to determine what costs the
8 utility can avoid with purchases from the QF. This determination occurs prior to
9 adjustments based on the availability of the QF resource vis-à-vis the seven
10 characteristics in 16 C.F.R. §292.304(e)(2), or any adjustment under
11 §292.304(e)(4) (i.e., for line losses).

12 PacifiCorp's testimony regarding the superiority of the PDDRR method at
13 accounting for the characteristics of the QF does not suggest that the PDDRR will
14 be used as a substitute for determining the utility's avoidable fixed costs. The
15 following testimony describing the purpose and providing an overview of the
16 PDDRR methodology, for example, is silent about any change to the Order No.
17 11-505 requirement of two avoided cost price streams:

18 **Q. How are non-standard avoided cost prices for QFs**
19 **calculated now?**

20 A. Currently, non-standard avoided cost prices are determined
21 beginning with the Proxy Method used to set standard avoided cost
22 prices, and then making a limited set of discrete adjustments meant
23 to mitigate the recognized deficiencies in the Proxy Method. The
24 current method to calculate non-standard avoided cost prices for
25 large QFs was adopted by the Commission in Order No. 07-360.
26 The list of authorized adjustments was derived from the seven
factors outlined in 18 CFR § 292.304(e)(2). In practice, many
adjustments identified in 18 CFR § 292.304(e)(2) are
interdependent and it is often not possible to calculate a particular
adjustment viewed in isolation. The Company's experience in its
other jurisdictions is that a differential revenue requirement

1 approach using the PDDRR method is best suited to account for
2 the factors in 18 CFR § 292.304(e)(2).

3 **Q. Please provide an overview of the PDDRR method.**

4 A. Under the PDDRR method, the Company performs two
5 simulations using the GRID model to determine the system energy
6 value of a QF resource, taking into account its specific operating
7 characteristics and point of delivery on the Company's system. In
8 addition, the PDDRR method includes avoided fixed costs of the
9 Company's next major resource acquisition, based on the cost and
10 timing of the next deferrable resource in the IRP preferred
11 portfolio. The amount of capacity displaced is determined using
12 the capacity contribution of the QF resource and the avoided fixed
13 costs are spread over the capacity factor of the QF. The timing for
14 including avoided fixed costs from the next deferrable resource is
15 adjusted to account for new QFs (since the IRP was published) that
16 will be on the Company's system at the time the next major
17 resource is acquired. These QFs have either signed a long-term
18 power purchase agreement (PPA) with the Company or have
19 requested avoided cost prices and are actively negotiating a long-
20 term PPA, and will be contractually obligated to
21 deliver power to the Company during future periods when the
22 Company's resource planning indicates a major resource would
23 need to be acquired.

24 **Q. Why is a differential revenue requirement approach
25 more accurate than basing avoided cost prices on a proxy
26 plant?**

18 A. As discussed in previous sections, the Proxy Method is a
19 simplified approach to calculating avoided costs, and the costs that
20 are assumed to be avoided by the Company under the Proxy
21 Method are not always incurred. For example, under the Proxy
22 Method it is assumed that the Company is always able to use the
23 QF output to avoid making market purchases (or make additional
24 market sales) during the resource sufficiency period, and is always
25 able to save the variable cost of the IRP proxy resource during the
26 resource deficiency period. In reality this is not the case. In Order
No. 14-058 the Commission acknowledged that "the application of
our current [standard rate] methodology may result in the utility
and its customers offering prices in excess of actual avoided
costs." In that Order, the Commission adopted improvements to
the Proxy Method, but did not address the proposed changes to the

1 non-standard method that are needed to accurately calculated the
2 avoided costs of large QFs.¹⁵

3 The witness's testimony that the PDDRR would flow through
4 improvements to the non-standard avoided cost methodology like those approved
5 in Order No. 14-058 does not put parties on notice regarding elimination of the
6 Order No. 11-505 requirement for two avoided cost price streams for renewable
7 resources. Notably, the description of the PDDRR method in this excerpt of
8 testimony states that "PDDRR method includes avoided fixed costs of the
9 *Company's next major resource acquisition, based on the cost and timing of the*
10 *next deferrable resource in the IRP preferred portfolio.*" Given the absence of
11 any indication otherwise, parties reasonably assumed the next deferrable resource
12 used to calculate avoided fixed costs could be a renewable or thermal resource.

13 Similarly, in his response testimony, the PacifiCorp witness testified that
14 the PDDRR methodology would refine the adjustments to standard avoided costs
15 under the current methodology, but did not mention that it would eliminate the
16 requirement that PacifiCorp provide two avoided cost price streams to renewable
17 QFs:

18 In Order No. 07-360, the Commission adopted adjustments for the seven
19 FERC factors that were allowed to be made to the standard avoided cost
20 rates. The standard rates are, in the first instance, a simplified calculation
21 of the avoided energy and capacity due to the addition of a QF. The
22 Company's proposal in my direct testimony is to refine the calculation of
23 avoided energy and capacity costs to recognize the individual
24 characteristics of large QFs.¹⁶

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¹⁵ PAC/800, Dickman/17-19.

¹⁶ PAC/1400, Dickman/8.

1 **C. PacifiCorp's reliance on staff's testimony is misplaced.**

2 As discussed above, PacifiCorp's refusal to offer renewable QFs a
3 renewable avoided cost price stream for non-standard contracts appears to pre-
4 date Order No. 16-174. PacifiCorp's October 24, 2016 comments reflect that
5 PacifiCorp's position on the availability of renewable avoided cost prices is based
6 on the following Staff testimony in Phase II of this proceeding:

7 **Q. Are PGE and PacifiCorp required to use Standard**
8 **Renewable Avoided Cost prices as the starting point when the**
9 **QF seeking a non-standard contract is a renewable QF?**

10 A. Staff does not think so. The Commission issued its
11 guidelines for negotiating non-standard contracts prior to their
12 decision to require PGE and PacifiCorp to offer Standard
13 Renewable Avoided Cost prices. The Commission's order
14 requiring Standard Renewable Avoided Cost prices does not
15 specify that PacifiCorp and PGE are to use these renewable prices
16 as the starting point for negotiations with renewable QFs seeking
17 non-standard contracts. In the absence of such a requirement, Staff
18 interprets Order No. 07-360 to require that Standard Non-
19 Renewable Avoided Cost prices are the starting point for
20 negotiations regardless of whether the negotiating QF is a
21 renewable or non-resource.

22 Staff's testimony regarding the starting place for the calculation of non-
23 standard renewable avoided cost prices must be taken in context with the
24 Commission's order in Phase I of this proceeding. In Phase I, the Commission
25 specified that standard renewable avoided cost prices would be adjusted to take
26 into account the QF resource type's contribution to meeting the utility's peak load
(CTP).¹⁷ Accordingly, if PacifiCorp started with the standard renewable avoided
cost price for a solar resource to determine the non-standard renewable avoided
cost price stream, PacifiCorp would be starting with an avoided cost price stream
that had been adjusted to take into account the CTP expected from a proxy solar

¹⁷ Order No. 14-058.

1 resource in PacifiCorp's IRP. But, under the PDDRR method, PacifiCorp would
2 be allowed to adjust this previously-adjusted standard renewable avoided price
3 stream for the CTP expected from the QF. Meaning, the non-standard renewable
4 avoided cost prices could be adjusted twice for a solar resource's contribution to
5 peak, once based on the CTP of a proxy solar resource and again for the CTP of
6 the QF seeking the contract.

7 In this context, Staff opined that it did not think PacifiCorp had to start the
8 calculation of non-standard renewable avoided cost prices with the previously-
9 adjusted standard renewable avoided cost price. Staff based this opinion in part
10 on the fact that Order No. 11-505 does not include an express requirement that the
11 calculation of non-standard renewable avoided cost prices must start with the
12 standard renewable avoided cost price. Staff did not mention, because it was not
13 at issue, that although Order No. 11-505 did not expressly require that PacifiCorp
14 and PGE use the standard renewable avoided cost price as a starting point for non-
15 standard renewable avoided cost prices, PacifiCorp and PGE are still required to
16 offer non-standard renewable QFs a renewable avoided cost price stream.

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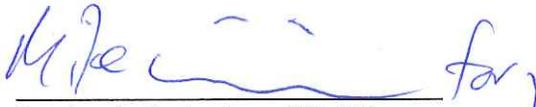
1 **III. Conclusion.**

2 Staff recommends that the Commission reject PacifiCorp's Compliance
3 Filing because it does not allow renewable QFs seeking a non-standard contract to
4 choose either a renewable or non-renewable avoided cost price stream.

5 DATED this 31st day of October 2016.

6
7 Respectfully submitted,

8 ELLEN F. ROSENBLUM
9 Attorney General

10 
11 Stephanie S. Andrus, #92512
12 Sr. Assistant Attorney General
13 Of Attorneys for Staff of the
14 Public Utility Commission of
15 Oregon