1		C UTILITY COMMISSION	
2	OF OREGON		
3	3 UM 1802		
4	In the Matter of the Investigation of	STAFF OPENING BRIEF	
5	PacifiCorp's Non-Standard Avoided Cost		
6	Pricing.		
7			
8	I. Introduction and summary of recom	mendations.	
9	The Commission opened this expedited in	vestigation to examine whether PacifiCorp's	
10	avoided cost pricing for non-standard contract	s under the Public Utility Regulatory Policy Ac	
11	(PURPA) should include a renewable price op	tion, and if so, how that renewable price option	
12	*	,, ·	
13	should be calculated. Staff recommends that:		
14	1. As long as PacifiCorp is required to c	ffer a standard renewable avoided cost price	
15		a non-standard renewable avoided cost price	
16	2 PacifiCam's non standard reneveable.	prices should be calculated using the method	
17	PacifiCorp employed prior to Order	No. 16-337, which is to start with standard	
18	avoided cost prices and adjust them account certain characteristics of the co	for the FERC-allowed factors to take into ontracting qualifying facility (QF).	
19	3. PacifiCorp's proposal to use its I	Partial Displacement Differential Revenue	
20	Requirement (PDDRR) should be reje	cted because it does not accurately calculate	
21	avoided capacity costs when the contra proxy resource taken from PacifiCorp's	cting QF is not the same resource type as the s Integrated Resource Plan (IRP).	
22	4. PacifiCorp's proposal to limit the ava	ilability of non-standard renewable prices to	
23	QFs that are the same resource type as	*	
24	5. The market-price floor should be retain	ned during the sufficiency period until such	
25		specific QF is unable to get to a market for which PacifiCorp is forced to back down a	
26	thermal resource.	2 201000 to outer do will d	

Page 1 - STAFF OPENING BRIEF

1	6.	Only QFs with executed contracts should be included in PacifiCorp's resource stack when calculating a nonstandard avoided cost price.
2	7.	The question of how to determine the start date of PacifiCorp's renewable resource
3	, ,	deficiency is outside the scope of this docket and should be addressed in another
4		proceeding.
5	II.	Answer to Question No. 1: PacifiCorp should offer a non-standard renewable
6		avoided cost price stream.
7		Renewable avoided cost prices date back to a Commission order in 2011. In 2011, the
8	Comm	nission ordered PacifiCorp and Portland General Electric (PGE) to offer renewable avoided
9	cost pi	rices to QFs that agreed to transfer Renewable Energy Credits (RECs) to the utility during
10	the per	riods the utility was renewable resource deficient. The Commission concluded that
11	"[b]ec	ause ORS 469A requires that electric utilities meet a renewable portfolio standard through
12 13		quisition of renewable energy credits (RECs) associated with qualifying renewable
14	genera	tion resources a properly designed renewable energy avoided cost rate for renewable
15		ces would comply with PURPA." <sup>2</sup> After Order No. 11-505, PacifiCorp and PGE offered
16		enewable and non-renewable avoided cost price streams to standard and non-standard QFs.
17		In Docket No. UM 1610, an investigation into QF contracting and pricing, PacifiCorp
18	1	
19	sought	authority to use a new methodology to determine prices for non-standard contracts, the
20	Partial	Displacement Differential Revenue Requirement (PDDRR) methodology. In support of
21	its req	uest, PacifiCorp testified that the PDDRR methodology is capable of producing more
22		
23		
24		
25	<sup>1</sup> In the	Matter of Public Utility Commission of Oregon Investigation into Resource Sufficiency
26	Pursuo <sup>2</sup> Id.	ant to Order No. 06-538; Order No. 11-505 at 4.

accurate avoided cost prices than the pricing methodology the Commission had ordered for non-1 standard contracts since 2005. <sup>3</sup> 2 The Commission approved PacifiCorp's use of the PDDRR methodology at the 3 conclusion of Phase II of Docket No. UM 1610.<sup>4</sup> Because the methodology described by 4 5 PacifiCorp in testimony did not determine avoided cost prices for a non-thermal resource, 6 PacifiCorp's compliance filing for the UM M610 Phase II order did not include non-standard 7 renewable avoided cost prices. Staff and other stakeholders objected.<sup>5</sup> The Commission ordered 8 this investigation to determine whether PacifiCorp should offer non-standard renewable avoided 9 cost prices and if so, how to calculate them.<sup>6</sup> 10 Staff recommends that the Commission answer the first question, whether there should be 11 12 a non-standard renewable avoided cost price stream, affirmatively. PacifiCorp's UM 1610 13 testimony in support of its request to use the PDDRR method includes no rationale for 14 discontinuing the requirement for renewable avoided cost prices for non-standard qualifying 15 facilities that dates back to 2011. 16 In 2011, the Commission required PacifiCorp and PGE to offer renewable avoided cost 17 prices, both standard and non-standard, because purchases from RPS-eligible QFs willing to cede 18 19 RECs to the utility would allow the utility to avoid costs to comply with the RPS. <sup>7</sup> The 20 Commission reasoned that it was appropriate to have an avoided cost price stream based on the 21 22 <sup>3</sup> Docket No. UM 1610 (Phase II) PAC/800 at 16-17. 23 <sup>4</sup> In the Matter of Public Utility Commission of Oregon Investigation into Qualifying Facility Contracting and Pricing, Order No. 16-174, pp. 22-23. 24 <sup>5</sup> See Order No. 16-417 (ordering parties to submit comments). 25 <sup>6</sup> Order No. 16-429 (opening investigation). 26 <sup>7</sup> Order No. 11-505.

1	pool of resources that the utilities could acquire to meet the RPS, which is a smaller pool than the
2	pool of resources that otherwise would be used to determine avoided cost prices.8
3	PacifiCorp has not provided a rationale for reversing the Commission's 2011 policy
4	decision to require a renewable avoided cost price stream. Oregon's RPS continues to exist and
5	in fact has doubled since 2011. No party in this case, not even PacifiCorp, argues that the
6	Commission should eliminate the avoided cost price stream for QFs entering into non-standard
7	contracts. Accordingly, Staff recommends that the Commission order PacifiCorp to offer a non-
8	standard renewable avoided cost price stream.
9	· · · · · · · · · · · · · · · · · · ·
10 11	III. Answer to Question No. 2: The Commission should require PacifiCorp to return to the method required prior to Order No. 16-174 to calculate non-standard renewable
12	avoided cost prices.
13	A. The method previously used by PacifiCorp to calculate non-standard prices is superior to its PDDRR methodology.
14	The second question underlying this docket is what methodology should PacifiCorp use
15 16	to calculate a non-standard renewable avoided cost price stream. Staff recommends that the
17	Commission require PacifiCorp to return to the method for determining non-standard avoided
18	cost prices that PacifiCorp used prior to obtaining approval of its PDDRR method in Order No.
19	16-337.9 The Commission required the utilities to use this method, which Staff will refer to as
20	the "Adjusted Standard Price Method," after its investigation into guidelines for non-standard
21	contracts concluded in 2007 (hereinafter referred to as the "Guidelines"). 10
22	
23	
24	$\overline{^{8}}$ Id.
25	<sup>9</sup> Staff/200, Andrus/9.
26	<sup>10</sup> In the Matter of Public Utility Commission of Oregon Staff's Investigation Relating to Electric Utility Purchases from Qualifying Facilities, Order No. 07-360.
Page	

1	In the	Adjusted Standard Price Method, the starting point for determining prices for a
2	non-standard	contract is the currently effective standard price. 11 The Guidelines prescribe how
3	the standard	prices may be adjusted to take into account specific factors enumerated in the
4	Federal Energ	gy Regulatory Commission rules implementing PURPA and specifically approved
5	by the OPUC	And, Order No. 07-360 requires that the utility must provide the QF a
6	description o	f the methodology of each adjustment and how it was made. 13
7	The fo	ollowing Guidelines set forth the permissible adjustments to the standard avoided
8	cost prices fo	r non-standard prices:
10	8.	The utility should not make adjustments to standard avoided cost rates
11		other than those approved by the Oregon Commission and consistent with these guidelines.
12	9.	The utility should make adjustments to avoided costs for reliability on an
13		expected forward-looking basis. The utility should design QF rates to provide an incentive for the QF to achieve the contracted level and timing
14		of energy deliveries.
15 16	10.	The utility should make adjustments to avoided costs for dispatchability on a probabilistic, forward-looking basis.
17	11.	If avoided cost rates for a QF are calculated at the time of the obligation and the utility's avoided resource is a fossil fuel plant, the utility should
18		adjust avoided cost rates for the resource deficiency period to take into account avoided fossil fuel price risk.
19	12.	Avoided cost rates for wind QFs should be adjusted for integration cost
20 21		estimates based on studies conducted for the utility's system, unless the QF contracts for integration services with a third party.
22		a. The utility should use the most recent integration cost data available,
23		consistent with its evaluation of competitively bid and self-build wind resources.
24		
25		07-360 at Appendix A, p. 3 (Guideline 8).
26		.R. §293.304(e).

Page 5 - STAFF OPENING BRIEF SSA:sd4/JUSTICE #8506900

b. The portion of integration costs attributable to reserves costs should be 1 based on the difference in such costs between the wind QF and the utility proxy plant. 2 3 The utility should base first-year integration costs on the actual level of wind resources in the control area, plus the proposed QF. 4 Integration costs for years two through five of the contract should be based on the expected level of wind resources in the control 5 area each year, including the new resources the utility expects to add. Integration costs should be fixed at the year-five level, 6 adjusted for inflation, for the remainder of the life of the wind 7 projects in the control area. 8 d. The utilities are prohibited from using a long-range planning target for wind resources as the basis for integration costs. However, if a utility is 9 subject to near-term targets under a mandatory Renewable Portfolio Standard, the utility may base its integration costs on the level of 10 renewable resources it must acquire over the next 10 years. 11 In determining integration costs, the utility should make reasonable e. 12 estimates regarding the portion of renewable resources to be acquired that will be intermittent resources. 13 The utility should adjust avoided cost rates for QF line losses relative to the utility 13. 14 proxy plant based on a proximity-based approach. 15 14. The utility should evaluate whether there are potential savings due to transmission 16 and distribution system upgrades that can be avoided or deferred as a result of the QF's location relative to the utility proxy plant and adjust avoided cost rates 17 accordingly. 18 15. The utility should not adjust avoided cost rates for any distribution or 19 transmission system upgrades needed to accept QF power. Such costs should be separately charged as part of the interconnection process. 20 A utility should not adjust avoided cost rates based on its determination of the 16. 21 additional cost it might incur for any debt imputation by a credit rating agency. <sup>14</sup> 22 PGE currently uses the Adjusted Standard Price Method and Staff believes 23 PacifiCorp should return to it. Staff supported PacifiCorp's proposal to use its PDDRR 24 method in Docket No. UM 1610, believing the PDDRR method would be a more precise 25 26 <sup>14</sup> Order No. 07-360 at App. A, pp. 3-5

1	way account for the characteristics of the contracting QF when calculating avoided cost
2	prices. As described in the section below, this has not proved to be the case.
3	The Adjusted Standard Price Method is designed to allow the characteristics of
4	contracting QFs to be taken into account when determining what costs a utility will avoid
5	with a purchase from the QF. And, unlike the PDDRR, it is sufficiently flexible that it
6	can be used to calculate avoided cost prices for renewable QFs that are not the same
7	resource type as the avoidable proxy resource in PacifiCorp's Integrated Resource Plan
8	(IRP). Furthermore, the Adjusted Standard Price Method provides more predictability to
10	QFs regarding prices than they can expect under the PDDRR method. Finally, the
11	Adjusted Standard Price Method is understandable and because the utility must explain
12	the methodology for each adjustment to the standard price, it is transparent.
13 14	B. PacifiCorp's PDDRR methodology is not suited for calculating avoided cost prices.
15	Staff recommends that the Commission reject PacifiCorp's proposal to use its
16	PDDRR methodology to calculate the non-standard renewable avoided cost price
17	stream. PacifiCorp's testimony makes clear that the PDDRR methodology is not
18 19	suited for calculating avoided cost prices consistently with previously implemented
20	Commission policies.
21	First, PacifiCorp's PDDRR method does not calculate avoided capacity costs
22	based on the fixed prices of the avoided resource. The Commission has previously
23	determined that sufficiency period prices are based on avoided energy costs and
24	deficiency-period prices are based on avoided energy and avoided capacity costs.
25 26	Historically, the Commission has based avoided capacity costs on the fixed costs of
Page	the next avoidable resource in the utility's IRP. PacifiCorp's PDDRR methodology 7 - STAFF OPENING BRIEF SSA:sd4/JUSTICE #8506900

1	does not have functionality to incorporate the avoided fixed costs of a resource into	
2	the price.	
3	Secon	nd, according to PacifiCorp, its PDDRR model is not able to produce
4	accurate avoided cost prices for QFs that are of a different resource type than the	
5	deferred pro	xy resource taken from PacifiCorp's IRP. It appears from PacifiCorp's
6	testimony the	at the accuracy of its PDDRR modeling is impinged by very basic
7		
8	differences of	between the operating characteristics of various intermittent resources.
9	PacifiCorp's	witness testified as follows:
10		Why is it appropriate to limit defenuel of non-ample resources to
11	Q.	Why is it appropriate to limit deferral of renewable resources to the same type (i.e. solar for solar, wind for wind)?
12	A.	Renewable resources have significant differences in their operational
13		characteristics, and widely varying impacts on the Company's system. For instance, solar generation is more prevalent in the summer with
14		diurnal and seasonable characteristics based on the position of the sun and the potential for cloud cover. On the other hand, wind output is
15		more prevalent in the winter and while not as predictable as the rising
16		of the sun, it is strongly correlated to the output of other wind resources in the vicinity. Despite some geographic differences,
17	,	renewable resources of the same type are thus much more similar to each other than they are to renewables of other types. Maintaining
18		capacity equivalence between resources with widely disparate capacity contributions could introduce unintended consequences and
19		unreasonable results. With this in mind, the Company believes it is
20		appropriate to limit the deferral of renewable resource capacity to QFs of the same type. 15
21	PacifiCorp's	testimony boils down to the following points:
22	F	
23		<ul> <li>Different renewable resource types have significant differences in operational characteristics and widely varying impacts on the</li> </ul>
24		Company's system.
25		
26	15 PAC/100.	MacNeil/5-6.
Page		OPENING BRIEF

1	<ul> <li>Solar generation is more prevalent in the summer and the generation depends on the position of the sun and existence potential for cloud cover.</li> </ul>
3	<ul> <li>Wind generation is not as predictable as the sun rising, but is strongly correlated to output of nearby wind resources.</li> </ul>
5	• Putting aside differences based on location, renewable of the same type are "much more similar to each other than they are to renewables of other types."
7	<ul> <li>Maintaining capacity equivalence between resources with widely disparate capacity contributions could introduce unintended consequences and unreasonable results.</li> </ul>
9	If the PDDRR method is not capable of overcoming the difficulties presented
10 11	in modeling differing operating characteristics of QF such as those described above, it
12	is not an effective tool for determining avoided costs and should be abandoned. 16 A
13	methodology with such limited functionality is not an improvement on the Standard
14	Price Adjustment Method. <sup>17</sup>
15	In any event, PacifiCorp's proposal to limit avoided cost prices for like
16	resources is inconsistent with FERC's opinions regarding implementation of PURPA.
17	In its 1995 opinion in SoCal Edison, FERC stated that, regardless of how the state
18 19	determines avoided cost, it must in its process reflect prices available from "all
20	sources able to sell to the utility whose avoided cost is being determined." In 2010,
21	FERC clarified that the pool of resources that are "able to sell to the utility" may be
22	limited by state mandate, i.e., a renewable portfolio standard. Meaning, if a state
23	requires a utility to procure a certain percentage of energy from generators with
24	
25	<sup>16</sup> Staff/200, Andrus/9, lines 5-7.
26	<sup>17</sup> Staff/200, Andrus/9, lies 10-17.
)ane	<ul> <li>Order No. 11-505, p. 4, citing SoCal Edison, 70 FERC 61,215, 61,677.</li> <li>STAFF OPENING BRIEF</li> </ul>
ago	A DIVITO DIVIDI

1	certain characteristics, the avoided cost prices offered to a QF with those
2	characteristics may be based a pool of available resources that is limited to resources
3	with those characteristics. 19
4	As noted above, the renewable avoided cost prices are based on the pool of
5	resources that PacifiCorp may acquire to meet Oregon's RPS. Although the RPS in
6	
7	Oregon requires that utilities serve customers with using a certain percentage of
8	electricity from specified renewable resource types, the standard is not resource type
9	specific. Instead, "ORS Chapter 469A requires that electric utilities meet a renewable
10	portfolio standard through the acquisition of renewable energy credits (RECs)
11	associated with qualifying renewable generation resources[.]"20
12	A MWh of renewable solar provides the same RPS value as a MWh of
13	renewable wind. Accordingly, the Commission has no legal basis to calculate
14	avoided cost prices for QFs using a pool of available resources limited to the same
15 16	resource type as the contracting QF.
17	C. The Commission should maintain the market-price floor for
18	sufficiency period prices.
19	In its order resolving issues in Phase II of Docket No. UM 1610, the
20	Commission set a floor for non-standard avoided cost prices at the wholesale power
21	price forecast that is used to set sufficiency period avoided cost prices in standard QF
22	
23	contracts. <sup>21</sup> The Commission agreed with Staff and other parties that the market-
24	10
25	<sup>19</sup> California Public Utilities Commission, 133 FERC 61,059, pp. 13-14 (Order Granting Clarification and Dismissing Rehearing) (2010).
26	<sup>20</sup> Order No. 11-505, p. 4.
20	<sup>21</sup> Order No. 16-174, p. 23.
Page	10 - STAFF OPENING BRIEF

1	price floor ensures that QFs are compensated for both energy and capacity. <sup>22</sup> The
2	Commission's decision to impose the market-price floor on non-standard prices is
3	consistent with the Commission' long-held policy that QFs should be compensated
4	for avoided capacity during deficiency and sufficiency periods. <sup>23</sup>
5	In an order clarifying its 2016 decision regarding the market-price floor for
6 7	sufficiency-period prices, the Commission acknowledged that "certain transmission
8	constraints could exist that prevent otherwise economic market sales of low cost
9	energy," but noted that "PacifiCorp previously indicated that such transmission
10	constraints do not exist in Oregon."24 Rather than adopting PacifiCorp's request to
11	eliminate the market-price floor to address the potential that transmission constraints
12	could have on ability to resell electricity, the Commission "encourage[d] utilities to
13	notify us when such conditions actually exist in Oregon."25
14	PacifiCorp has not provided persuasive evidence to show the type of
15	transmission constraint referred to in Order No. 16-317 exists or otherwise shown
<ul><li>16</li><li>17</li></ul>	why the Commission's decision to impose a market-price floor on sufficiency-period
18	prices should be reversed. Notably PacifiCorp's market-price forecast should take
19	into account market dynamics such as market depth and price volatility.
20	
21	
22	
23	<sup>22</sup> Order No. 16-174, p. 23.
24	<sup>23</sup> See Order No. 05-584, p. 27 ("We conclude that the basis for differentiation [between resource deficiency- and sufficiency-period prices] should not be whether capacity is valued <i>at all</i> , but <i>how</i> it is valued.") (Emphasis in original.)
25	<sup>24</sup> Order No. 16-337, p. 6.
26	<sup>25</sup> Order No. 16-337, p. 6.

Page 11 - STAFF OPENING BRIEF SSA:sd4/JUSTICE #8506900

1	And, as Staff testified, Pacificorp's modeling results of market dynamics are
2	irrelevant unless applied to an individual project. <sup>26</sup> The operating assumption is that
3	power that can reach a market can be sold at that market. The price paid for that
4	power is not known, which is why the Commission relies on PacifiCorp's market
5	forecast estimate. The relative volume of power that may be sold at the market in
6	question may be estimated based on historical data for a specific path, time, etc., but
7	such analysis is only probative in the context of any individual QF, with its unique
8	dynamics. <sup>27</sup>
	D. Order OF with an and decrease to decide the latest
10	D. Only QFs with executed contracts should be included in PacifiCorp's resource stack for purposes of calculating avoided
11	cost prices.
12	
13	PacifiCorp proposes that all QFs that have asked for indicative pricing should
14	be included in PacifiCorp's resource stack when calculating non-standard avoided
15	cost prices for a QF. Staff believes this is untenable and artificially lowers the
16	indicative prices for QFs. In absence of another adequate milestone to signal when a
17	QF seeking a contract should be included in PacifiCorp's resource stack for the
18 19	purpose of determining avoided cost prices for any particular QF, Staff recommends
20	that the Commission specify that only QFs that have executed contracts with
21	PacifiCorp be included.
22 23 24	E. The Commission should reject PacifiCorp's proposal to modify the Commission's determination in Order No. 11-505 as to when a renewable QF is eligible for a renewable avoided cost price stream.
25	<sup>26</sup> Staff/200, Andrus/12-13.
26	<sup>27</sup> Staff/200, Andrus/13.

Page 12 - STAFF OPENING BRIEF SSA:sd4/JUSTICE #8506900

1	PacifiCorp argues that renewable QFs should not be eligible for renewable
2	avoided cost prices when PacifiCorp's IRP indicates that next renewable resource that
3	PacifiCorp intends to acquire is not specifically for RPS compliance. Staff urges the
4	Commission to reject PacifiCorp's proposal.
5	The policy issue presented in PacifiCorp's request is outside the limited scope
6	of this docket. The Commission recently stated that it intends to address "[t]he
7	avoided cost implications where a utility is pursuing near-term capacity investments
8	that are not driven by reliability, renewable portfolio standard (RPS), or load service
10	needs." <sup>28</sup> To the extent the Commission adopts a modification to its implementation
11	of PURPA such as that suggested by PacifiCorp it should do so after all stakeholders
12	have opportunity to comment.
13	In any event, PacifiCorp's proposal is inconsistent with Staff's
14	recommendation to use the Adjusted Standard Price Method to calculate PacifiCorp's
15	non-standard renewable avoided cost prices. Under Staff's proposed method,
16 17	PacifiCorp must use the standard avoided renewable avoided cost prices as the
18	starting point for the non-standard prices, making adjustments for certain operating
19	characteristics allowed under FERC rules and Commission order. The standard
20	renewable avoided cost prices are available to all RPS compliant renewable QFs that
21	are willing to cede RECs to the utility starting with the year of the next planned
22	renewable resource acquisition in PacifiCorp's IRP. And, adjusting the prices to take
23	the prices to take
24	
25	

<sup>26</sup> In the Matter of PacifiCorp, dba, Pacific Power Investigation into Schedule 37 – Avoided Cost Purchases from Qualifying Facilities of 10,000 kW or less, Order No. 17-239, p. 3.

	into account a different renewable deficiency period is not one of the permissible
2	adjustments.
}  -	E. The Commission should reject PacifiCorp's proposal to modify the Commission's determination in Order No. 11-505 as to when a renewable QF is eligible for a renewable avoided cost price stream.
, )	PacifiCorp argues that renewable QFs should not be eligible for renewable
7	avoided cost prices when PacifiCorp's IRP indicates that next renewable resource that
	PacifiCorp intends to acquire is not specifically for RPS compliance. Staff urges the
	Commission to reject PacifiCorp's proposal.
	The policy issue presented in PacifiCorp's request is outside the limited scope
	of this docket. The Commission recently stated that it intended to address "[t]he
	avoided cost implications where a utility is pursuing near-term capacity investments
	that are not driven by reliability, renewable portfolio standard (RPS), or load service
	needs." <sup>29</sup> To the extent the Commission adopts a modification to its implementation
	of PURPA such as that suggested by PacifiCorp it should do so after all stakeholders
	have opportunity to comment.
	In any event, PacifiCorp's proposal is inconsistent with Staff's
	recommendation to use the Adjusted Standard Price Method to calculate PacifiCorp's
	non-standard renewable avoided cost prices. Under Staff's proposed method,
	PacifiCorp must use the standard avoided renewable avoided cost prices as the
	starting point for the non-standard prices, making adjustments for certain operating
	characteristics allowed under FERC rules and Commission order. The standard
	In the Matter of PacifiCorp, dba, Pacific Power Investigation into Schedule 37 – Avoided Cos Purchases from Qualifying Facilities of 10,000 kW or less, Order No. 17-239, p. 3.

1	renewable avoided cost prices are available to all RPS compliant renewable QFs that	
2	are willing to cede RECs to the utility starting with the year of the next planned	
3	renewable resource acquisition in PacifiCorp's IRP. And, adjusting the prices to take	
4	into account a different renewable deficiency period is not one of the permissible	
5	adjustments.	
6		
7		
8	III. Conclusion.	
9	Staff recommends that the Commission adopt the recommendations set forth	
10	on pages one and two of this brief.	
11	DATED this 18 <sup>th</sup> day of September 2017.	
12		Respectfully submitted,
13		ELLEN F. ROSENBLUM
14		Attorney General
15		SMMM Fil
16		Stephanie S. Andrus, #92512
17		Senior Assistant Attorney General Of Attorneys for Public Utility Commission
18		State of Oregon
19		
20		•
21		
22		
23		
24		
25		ı
26		