

September 22, 2008

VIA ELECTRONIC MAIL AND HAND DELIVERY

Attention: Filing Center
Public Utility Commission of Oregon
550 Capitol Street NE, #215
PO Box 2148
Salem, OR 97308-2148
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Re: In the Matter of PACIFICORP, dba PACIFIC POWER 2009 Renewable Adjustment

Clause Schedule 202 PUC Docket No.: UE 200

DOJ File No.: 860-115-GP0039-08

Enclosed are an original and five copies of the Staff's Opening Brief in the above-captioned matter for filing with the PUC today.

Sincerely,

Jeffery R. Seeley Legal Secretary

Regulated Utility & Business Section

tyk. Anly

JRS:jrs/#1043594

1	BEFORE THE PUBLIC	UTILITY COMMISSION
2	OF O	REGON
3	UF	E 200
4 5	In the Matter of	
6	PACIFICORP	STAFF'S OPENING BRIEF
7	2009 Renewable Energy Adjustment Clause	
8	Schedule 202	
9	1. Introduction	
10	The issues in this proceeding have been	narrowed considerably. As to the major
11	remaining disputes, staff recommends adjustme	nts to wind facilities at PacifiCorp's Dave
12	Johnston site, presented by the company in the	Transition Adjustment Mechanism (TAM)
13	proceeding (Docketed as UE 199) and the comp	anion Renewable Adjustment Clause (RAC)
14	proceeding (Docketed as UE 200), as the Rollin	g Hills and Glenrock projects. PacifiCorp
15	opposes staff's recommendation to make capaci	ty factor-related adjustments; Industrial
16	Customers of Northwest Utilities (ICNU) support	orts staff's recommendation.
17	While the overarching issue is simply sta	ated, it contains several complex, potentially
18	confusing, subparts. As such, staff will summar	rize the nature of Rolling Hills/Glenrock as a
19	Major Resource under Order No. 06-446, and the	en turn to staff's proposed adjustments and
20	explain why the Administrative Law Judge and	the Commission should adopt them. Staff will
21	also include its recommendation as to "where" [i.e. UE 199 (TAM) or UE 200 (RAC)] each
22	adjustment should be reflected.	
23		
24	2. Brief Summary of Relevant Facts Concern	ing Rolling Hills/Glenrock ¹
25		
26	¹ Unless otherwise specifically stated, all referentiled in UE 200.	nces to testimony and exhibits are to the material

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1	On or about April 1, 2008, PacifiCorp submitted its proposed 2009 TAM net power cost
2	filing, which was docketed as UE 199. The UE 199 parties were subsequently able to settle most
3	of the TAM issues, except, in relevant part, the adjustments associated with Rolling
4	Hills/Glenrock. See UE 199 Stipulation, Paragraph 13(a). ² According to the Stipulation, the
5	Rolling Hills/Glenrock adjustments are to be litigated in the context of the UE 200 proceeding.
6	Id.
7	PacifiCorp presents Rolling Hills/Glenrock as two separate wind facilities (i.e. the
8	Rolling Hills wind facility and the Glenrock wind facility), each sized at 99 megawatts (MW)
9	and each located in Converse County, Wyoming. See generally PPL/200, Tallman/24-30.
10	Indeed, as to proximity, PacifiCorp witness Tallman testified that Rolling Hills is located "on the
11	same site" as the Glenrock project. PPL/200, Tallman/27. The maps that PacifiCorp provided
12	confirm Mr. Tallman's statement, showing Rolling Hills and Glenrock as virtually on top of each
13	other. Compare PPL/201, Tallman 6 with PPL/201, Tallman/7. The maps found at Staff/203,
14	Schwartz/4 and Staff/502 (last page) provide a more detailed illustration of the Rolling
15	Hills/Glenrock site, again showing the almost-overlapping nature of the so-called separate
16	projects.
17	Staff witness Schwartz further clarified at the oral hearing that Rolling Hills/Glenrock is
18	located on a site owned by PacifiCorp; that the so-called separate projects are located within one
19	mile of each other; follow the same contour of the land; and that PacifiCorp submitted one
20	permit to the Wyoming Industrial Siting Council for development "in phases" at the site. See
21	Transcript (TR) at 53-55 (Schwartz); Staff/502. Indeed, Rolling Hills' and Glenrock's proximity
22	is such that, without revealing confidential material, it has consequences for this docket. For
23	confidential material see Staff/200, Schwartz/17; Staff/202, Schwartz/32 (UE 200).
24	
25	
26	² Staff believes the Commission has previously taken official notice of the UE 199 Stipulation.

² Staff believes the Commission has previously taken official notice of the UE 199 Stipulation. If this is not correct, staff asks that the Commission do so pursuant to OAR 860-014-0050(1)(e).

1	PacifiCorp submitted its permit application for Rolling Hills/Glenrock on or about
2	November 26, 2007. See Staff/502. The permit referred to building "up to three wind generation
3	projects in phases at the siteeach phase rated at 99 megawatts (MW) to be constructed in
4	2008." Id. at ES-1. PacifiCorp requested one permit that would cover the development of the
5	site as a whole (up to three 99 MW projects). Id. at 23. At the oral hearing, PacifiCorp witness
6	Tallman stated that Glenrock and Rolling Hills were both scheduled to become operational by
7	the end of 2008, possibly at the same time. TR at 24 (Tallman).
8	
9	3. Brief Summary of Staff's Alternative Adjustments for Rolling Hills
10	<u>A. UE 199</u>
11	In UE 199, PacifiCorp stated that it expected a capacity factor ³ for Rolling Hills of 31
12	percent. See PPL/400, Tallman/4; PPL/401, Tallman/1 (UE 199); Staff/202 at 3 (UE 199). In its
13	rebuttal testimony in UE 200, PacifiCorp "updated" this capacity factor to 33.8 percent based
14	upon a "recently received" report from CH2M Hill, its technical consultant. PPL/203,
15	Tallman/1-2; PPL/204, Tallman/1.
16	Staff recommends the Commission impute a capacity factor of 38 percent for Rolling
17	Hills. Staff/200, Schwartz/3 (UE 199). Staff testified in UE 199 that PacifiCorp's attempt to
18	split Rolling Hills/Glenrock into two separate 99 MW projects for the purpose of avoiding the
19	Commission's competitive bidding guidelines was inappropriate. Instead, properly viewed,
20	Rolling Hills/Glenrock, totaling 198 MW, constitutes a Major Resource under Order No. 06-
21	446. ⁴
22	
23	3/49 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
24	³ "Capacity factor" is the ratio of the plant's actual energy production over a period of time (e.g. a year) to the amount of power the plant would have produced if it had run at full capacity. See Staff/200, Schwartz/1 (UE 199).
2526	⁴ PacifiCorp has a third "phase" planned for this site, with the construction of an additional 39 MW of power, also expected to be operational by year-end 2008. See Staff/200, Schwartz/23 (UE 200).

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1	Staff determined that Glenrock, the initial 99 MW phase at the Dave Johnston site,
2	properly falls below the threshold for Major Resources. However, PacifiCorp should have
3	issued a Request for Proposals (RFP), or filed a request for a Commission waiver, for additional
4	phases at this site under the Commission's requirements for "Major Resources" delineated in its
5	Order No. 06-446. See generally Staff/200, Schwartz/3-4 (UE 199); Staff/203 at 6-9 (UE 199).
6	Further, staff determined that if the company had properly issued an RFP for its
7	renewable resource needs beyond Glenrock, it likely would have acquired a facility with a
8	capacity factor of 38 percent or higher, in lieu of acquiring Rolling Hills. Indeed, staff testifies
9	that "Rolling Hills is an opportunity that PacifiCorp should have passed up." Staff/600,
10	Schwartz/3 (UE 199). The capacity factor of Wyoming wind resources already serving
11	PacifiCorp are far higher than Rolling Hills' estimated capacity factor of 31 percent, and those
12	under development by the company in Wyoming are 38 percent or higher. Staff/600,
13	Schwartz/11 (UE 199). Staff witness Schwartz explained at the hearing that in a competitive
14	bidding process, the company would have had market bids in the form of power purchase
15	contracts, turnkey (i.e., build-own-transfer) projects and, potentially, offers of sites for
16	PacifiCorp to develop using the turbines hastily sited at Rolling Hills. TR at 77 (Schwartz).
17	
18	<u>B. UE 200</u>
19	In UE 200, Staff witness Schwartz recommends the Commission find that PacifiCorp
20	imprudently acquired the Rolling Hills facility. Staff bases this recommendation in part upon its
21	reasoning first stated in UE 199 – that the Rolling Hills project cannot reasonably be considered
22	a separate facility from the Glenrock project. Accordingly, PacifiCorp should have issued an
23	RFP for any phases beyond the Glenrock project as required by Order No. 06-446. Staff/200,
24	Schwartz/12-13. Staff further describes this issue and other findings related to the imprudence of
25	Rolling Hills in Section 5 of this brief.
26	

1	The remedy for PacifiCorp's imprudent action in acquiring Rolling Hills is not to keep it
2	entirely out of rate base. See Commission Order No. 87-1017 at 10. The proper remedy in this
3	case is to impute the capacity factor for the resource PacifiCorp would have acquired if it had
4	properly bid its renewable resource needs. Staff/200, Schwartz/13. Staff recommends that the
5	Commission adjust the revenue requirement in UE 200 to achieve the same effect as using in the
6	TAM the 38 percent capacity factor staff determined was appropriate for Rolling Hills.
7	Staff/200, Schwartz/16.
8	Staff explains in Section 5 of this brief why its recommendation remains the same despite
9	PacifiCorp witness Tallman's recently updated capacity factor projections contained in his
10	testimony at PPL/203, Tallman/1-2, 5-6. Staff also explains in Section 5 why its recommended
11	adjustment for Rolling Hills remains the same even if the Commission disagrees with staff's
12	finding that Rolling Hills/Glenrock constitutes a Major Resource under Order No. 06-446.
13	As will be discussed in Section 7 of this brief, staff recommends that its capacity factor
14	adjustment for Rolling Hills be made in the UE 200 proceeding rather than in UE 199. In
15	addition, in Section 8 of this brief, staff explains the additional adjustments it recommends to
16	account for the additional tax credits and renewable energy certificates associated with staff's
17	recommended 38 capacity factor adjustment.
18	
19	4. Summary of Staff's Alternative Adjustments for Glenrock
20	<u>A. UE 199</u>
21	In UE 199, staff recommends the Commission increase the estimated capacity factor for
22	Glenrock. PacifiCorp's position in UE 199 is that the capacity factor should be 38.6 percent.
23	During the time the record in UE 199 was open, despite repeated requests from ICNU and staff,
24	PacifiCorp was unable to explain or justify its reliance upon the 38.6 percent capacity factor. Id.
25	Instead, in response to staff's and ICNU's data requests, the company produced a November
26	2007 report from CH2M Hill, its technical expert, which showed a 41 percent capacity factor.

1	See Staff/202, Schwartz/57. That is the report staff used and relied upon. Staff/300, Schwartz/2-
2	3 (UE 199).
3	<u>B. UE 200</u>
4	Staff proposes the same alternative adjustment to increase Glenrock's capacity factor to
5	41 percent as it recommends in UE 199. See Staff/200, Schwartz/17. Staff observes that
6	PacifiCorp submitted additional information in its rebuttal testimony submitted in UE 200 that
7	downgrades PacifiCorp's originally stated capacity factor for Glenrock from 38.6 percent to 37.4
8	percent, based upon "recently received third-party technical studies" from CH2M Hill. See
9	PPL/203, Tallman/1-2; PPL/205. For reasons discussed in Section 6 in this brief, staff continues
10	to propose to increase Glenrock's capacity factor from 38.6 percent (or the new, updated 37.4
11	percent) to 41 percent. Staff's adjustment is based upon the capacity factor provided by CH2M
12	Hill to PacifiCorp in November 2007. See Staff/300, Schwartz/2-3 (UE 199); Staff/202,
13	Schwartz/57 (UE 200).
14	Further, for reasons to be discussed in Section 7, staff recommends the Commission make the
15	adjustment for Glenrock to appropriately account for its net power cost benefits in the UE 199
16	proceeding rather than in UE 200. However, the RAC is where tax credits are accounted for.
17	Therefore, staff recommends an adjustment in the RAC for the additional tax credits associated
18	with a 41 percent capacity factor (compared to a 38.6 percent capacity factor). Staff addresses
19	this issue in Section 8. Staff addresses another RAC adjustment for Glenrock - related to the
20	impact of Rolling Hills – in Sections 7 and 11 of this brief.
21	
22	5. Commission should adopt staff's recommendations for Rolling Hills
23	The Commission should find, in the context of UE 200, that: (1) PacifiCorp imprudently
24	acquired Rolling Hills and (2) impute a 38 percent capacity factor to allow only the appropriate
25	level of costs into rates. PacifiCorp argues against both the recommended finding of imprudence

1	and the accompanying recommendation that, should such a finding be made, 38 percent be used
2	as the correct capacity factor when calculating the capital cost of the investment.
3	A. Prudence
4	The concept of "prudence" is important in the UE 200 RAC proceeding because the
5	relevant statute, ORS 469A.120(1), provides in part that "all prudently incurred costs associated
6	with compliance with a renewable portfolio standard are recoverable in rates of an electric
7	company." Generally stated, to be "prudent" a utility decision must have been reasonable under
8	the circumstances that were known, or could have been known, at the time the decision was
9	made. Further, as staff noted in its response to PacifiCorp's Data Request (DR) 3.20, the
10	Commission held in its Order No. 87-1017 (at 10):
11	The Commission concludes that the prudence of a utility's decision is not relevant to the
12	issue of whether to include a facility in rate basePrudence in planning and constructing a plant is relevant for determining the valuation of the facility once placed in rate base. If
13	a plant shown to be used and useful was constructed at an unnecessarily high cost, only the cost deemed appropriate, rather than the actual historical cost, would be placed in rate
14	base.
15	See, e.g. PPL Cross Exhibit 2.
16	B. PacifiCorp's decision to develop Rolling Hills was imprudent
17	Staff determined that PacifiCorp made an imprudent decision to develop and construct
18	Rolling Hills. Staff reached this determination based upon several troubling aspects surrounding
19	PacifiCorp's decision to proceed with the Rolling Hills project.
20	First, PacifiCorp knew, or should have known, that Rolling Hills/Glenrock is properly
21	viewed as a Major Resource under the Commission's competitive bidding guidelines. Viewed
22	together as constituting 198 MW at a single site rather than two separate projects, PacifiCorp had
23	an obligation to proceed through the "competitive bidding process" set forth in Order No. 06-
24	446. PacifiCorp's decision to proceed with Rolling Hills outside of the competitive bidding
25	process was imprudent. See generally Staff/200, Schwartz/3-7 (UE 199).
26	

	Commission Order No. 06-446 applies to a utility's acquisition of a "Major Resource."
)	A Major Resource is defined as a resource with a capacity threshold of 100 MW or more and
;	with a duration threshold of 5 years or more. See Order No. 06-446 at 3. If a utility intends to
	acquire a Major Resource, it must do so through the Request for Proposals (RFP) competitive-
	bidding process and other guidelines delineated in Order No. 06-446. Importantly, the
	Commission set forth exceptions to the RFP process for certain Major Resource acquisitions. Id
	at 4.
	A key goal, or purpose, behind the competitive bidding process is to "[P]rovide the
	opportunity to minimize long-term energy costs" Id. at 2. In other words, without a
	competitive bidding process, there is no price discovery to show that the project will "minimize
	long-term energy costs" for PacifiCorp's customers. See also Staff/200, Schwartz/9.
	During cross examination, Ms. Schwartz acknowledged that Order No. 06-446 did not
	expressly provide criteria for determining when an alleged two (or more) projects that were each
	under 100 MW should be considered as one over-100 MW project. TR at 65 (Schwartz).
	Nevertheless, Ms. Schwartz stated there is a need to maintain the "integrity" of the Order's
	Major Resource threshold criteria. TR at 64 (Schwartz). In other words, it defeats the purpose
	of issuing a competitive bidding order if a utility were allowed to play fast and loose with the
	criteria that would trigger application of the process mandated under the Order for acquiring
	Major Resources.
	In the present circumstance, Ms. Schwartz testified that PacifiCorp's attempt to stylize
	Rolling Hills/Glenrock as two separate projects was "not a close case" which "did not pass the
	laugh test." TR at 62, 65 (Schwartz). Ms. Schwartz reached this conclusion based upon the
	characteristics of the project. These characteristics include the following ⁵ :
	Where no citation is provided for a listed fact, it is because it has already been provided earlier in the brief.

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1	(1) Both Rolling Hills and Glenrock are located on the same site, known as the "Dave
2	Johnson" site. TR at 55 (Schwartz);
3	(2) At all relevant times, PacifiCorp owned the Dave Johnson site. Id.; Staff/200,
4	Schwartz/9;
5	(3) PacifiCorp submitted one permit application for both projects. Staff/502;
6	(4) According to the application, it would cover the development of the site as a whole;
7	(5) The permit was to build up to three projects in "phases";
8	(6) Both Rolling Hills and Glenrock are being developed and constructed during 2008;
9	(7) Rolling Hills and Glenrock are currently scheduled to become operational within
10	about one month of each other, and indeed, may even become operational at the same
11	time;
12	(8) Rolling Hills are Glenrock are physically located within one mile of each other and
13	follow the same contours of the land; and
14	(9) Rolling Hills' proximity to Glenrock - for confidential material see Staff/200,
15	Schwartz/17; Staff/202, Schwartz/ 32.
16	There may be future cases involving the "is it one project or two" question that are
17	difficult to determine. But, this is not one of them. The project characteristics set forth above
18	show beyond any reasonable debate that Rolling Hills/Glenrock constitutes a Major Resource.
19	Staff is certainly not alone in considering ownership, operation, proximity and expansion
20	characteristics to determine whether projects are distinct. Both Oregon Department of Energy
21	and the Energy Facility Siting Council do so. Staff/600, Schwartz/6-8 (UE 199). Further, the
22	Commission defines utility self-build options in an RFP — "benchmark resources" — as site-
23	specific. It is reasonable to assume that a company-owned self-build option is site-specific even
24	if it is acquired outside a competitive bidding process. Order No. 06-446 at 5; TR at 54, 65
25	(Schwartz).
26	

1	PacifiCorp argues that it divided Rolling Hills/Glenrock into two separate projects for
2	several reasons. Its overall theme, besides disagreeing with staff's analysis stated above, is that
3	it had to move fast in order to obtain benefits from the various tax incentives and to lock in a
4	good deal on the turbines for the project. The short, definitive response is that even assuming
5	PacifiCorp's reasons have merit in a vacuum of facts, they do not when viewed from the
6	perspective of Order No. 06-446. That Order expressly and clearly states that all Major
7	Resources must go through a competitive bidding process.
8	Having said that, it is critical to note that the Order also provides exceptions to its
9	mandate. These exceptions allow a utility to avoid the competitive bidding process, with
10	Commission approval, for emergencies, pursuant to an acknowledged IRP that provides an
11	alternative acquisition method, or on a case-by-case basis. See Order No. 06-446 at 4. Indeed,
12	PacifiCorp is familiar with these exceptions as it has recently obtained just such a waiver from
13	the Commission. See Commission Order No. 08-376 (UM 1374); PPL Cross Exhibit 2 (staff
14	response to DR 3.10).
15	As to the facts regarding timing for acquiring turbines, receiving tax credits and issuing
16	Commission-approved RFPs: 1) the company developed Rolling Hills on its own at its own site,
17	so the company was not at risk for losing this site for development; 2) the company could have
18	used the turbines it had on hand in an RFP — for a self-build benchmark resource at the Dave
19	Johnston site or for a site offered by a bidder in the RFP for the company's development; 3) the
20	company had all of 2007 to conduct an RFP for resources to come on-line by year-end 2008, just
21	as the company acquired resources on-line in 2006 and 2007 through its amended renewable
22	resources RFP (RFP 2003B) issued in March 2006; and 4) the company appears to have believed
23	tax credits would be extended beyond 2008. Staff/200, Schwartz/10-12 (UE 200); Staff/600,
24	Schwartz/2-3 (UE 199).
25	Further, PacifiCorp maintains there were no other Wyoming wind projects the company
26	could acquire by year-end 2008. As evidence, PacifiCorp points out that only the company has

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1	wind projects in the queue at the Wyoming Industrial Siting Council, and no Wyoming wind
2	projects other than PacifiCorp's are in the company's interconnection queue. PPL/203,
3	Tallman/18-19.
4	On the first point, not all energy projects in Wyoming require state siting approval, or
5	even local siting approval. PacifiCorp's new power purchase agreement with Duke Energy's 99
6	MW Campbell Hill project, near Casper (Converse County), Wyoming (Staff/508), is notably
7	absent from the state siting list PacifiCorp provided at PPL/210. That is because the project did
8	not require siting approval. On the second point, PacifiCorp can acquire projects outside its
9	service territory. The Goodnoe Hills wind project illustrates the point. TR at 31-32 (Tallman).
10	Such a project would not show up in PacifiCorp's interconnection queue. Another example is
11	Duke Energy's Happy Jack project in Laramie County, Wyoming (Staff/508), which is
12	interconnected to another utility's transmission system at the Happy Jack substation.
13	Staff's second concern related to the prudence of Rolling Hills is the company's decision-
14	making process for determining whether to establish additional turbines at the Dave Johnston site
15	in 2008 — based on how quickly the company could proceed, even disregarding whether the
16	company was required to use a competitive bidding process. Staff/200, Schwartz/15; Staff/202,
17.	Schwartz/50.
18	Related are staff's concerns arising from the company's use of the reports provided by
19	CH2M Hill, its technical consultant. Without revealing confidential information in this brief,
20	CH2M Hill's November 2007 technical report had statements about the project that PacifiCorp
21	imprudently ignored or failed to recognize in its haste to develop the project. Staff/200,
22	Schwartz/14-15. Additional technical memos and notes from the technical consultant further
23	support staff's concerns. See ICNU/124.
24	Staff's third concern with the prudence of PacifiCorp's decision to develop Rolling Hills
25	arises from the company's decision to proceed in light of CH2M Hill's expected capacity factor
26	of 31 percent for the project. This capacity factor is extremely low for a Wyoming-based wind

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1	resource. Staff/600, Schwartz/3 (UE 199). As will be discussed further in subsection (3)
2	immediately below, a resource with a capacity factor of 38 percent (or better) represents what the
3	company likely would have acquired if it had issued an RFP for renewable resources as it was
4	required to do to test this self-build resource against the market. Staff/200, Schwartz/3 (UE
5	199); Staff/200, Schwartz/16.
6	Staff observes that its reasoning holds true despite PacifiCorp's rebuttal testimony that
7	seeks to update the Rolling Hills capacity factor to 33.8 percent. Moreover, from a prudence
8	aspect, PacifiCorp's attempt to update the Rolling Hills' capacity factor is legally flawed. It
9	should be recalled that the prudence standard reviews PacifiCorp's decision to acquire/proceed
10	with Rolling Hills based upon information the company knew, or should have known, at the time
11	the decision was made. Clearly, PacifiCorp did not know, nor could it have known, about
12	CH2M Hill's recently updated capacity factor for Rolling Hills. PacifiCorp made the decision to
13	proceed with Rolling Hills between Spring 2007 and late 2007. TR 25-26 (Tallman). The
14	updated CH2M Hill study shows it was prepared as of August 2008, clearly well after PacifiCorp
15	made the decision to develop Rolling Hills in 2007. See PPL/204.
16	The fourth major concern staff has with the prudence of PacifiCorp's decision to develop
17	Rolling Hills is its energy production cost compared to other wind resources. This issue stems
18	directly from the low capacity factor of Rolling Hills compared to other Wyoming wind sites.
19	Capacity factor is the most direct measure of a wind project's productivity and therefore
20	its economic benefit. A small difference in average wind speed among sites means a large
21	difference in how much energy is produced and how much it costs to produce each unit of
22	energy. See Staff/200, Schwartz/1-2 (UE 199).
23	Staff concludes that the capital costs of Rolling Hills appear to be reasonable on a
24	capacity basis. See Staff/200, Garcia/8-9. Procuring equipment and installation at reasonable
25	cost on a capacity basis (dollars per megawatt), however, does not take into account the decision-
26	

1	making process that determines "the site in which to put that capital investment." In other words			
2	"the application of that capital is crucially important." TR at 85-86 (Schwartz).			
3	Staff witness Schwartz explains this concept in the following example: "[I]f I had a good			
4	deal for wind turbines and construction of those turbines at my farm, it wouldn't necessarily be			
5	great idea to have that project at my farm because I don't have an appropriate wind resource."			
6	TR at 79 (Schwartz). The point is that the quality of the wind resource at the site is critical. The			
7	is why a leased site with a higher capacity factor can easily overwhelm any advantages from			
8	owning a site – i.e. avoided land leases and royalty payments. See Staff/200, Schwartz/15-16;			
9	Staff/600, Schwartz/4 (UE 199).			
10	PacifiCorp's own Alternative Cost of Compliance (ACC) analysis shows that, over their			
11	lifetimes, the "economic effectiveness" (PPL/200, Tallman/7) of Rolling Hills is far less than the			
12	other Wyoming projects that are the same size (99 MW) and on-line in the same year. See			
13	PPL/201. That PacifiCorp calculates an even less favorable ACC value for the Goodnoe Hills			
14	project in Washington state (PPL/203, Tallman/11-12) does not detract from this fact.			
15	PacifiCorp's system-wide ACC analysis does not recognize that Oregon ratepayers will			
16	receive a far higher share of the Renewable Energy Certificates (RECs) from Goodnoe Hills after			
17	the first five years of project operation, unless other states displace a portion of Energy Trust of			
18	Oregon funding for the project by a date certain. Such funds are returned to the Energy Trust for			
19	ratepayers' benefit. To date, only California has opted to displace a portion of the Energy			
20	Trust's investment. The Utah Public Service Commission did not approve PacifiCorp's proposal			
21	to do the same in its recently concluded rate case. See Staff/504 and Staff/509. Further,			
22	PacifiCorp's 2007 IRP shows that Wyoming wind resources are expected to have higher capacity			
23	factors than wind resources in the other states the company serves. See Staff/200, Schwartz/4			
24	(UE 199).			
25	The economic impact of capacity factor also is evident when comparing PacifiCorp's			
26	estimated annual output and (confidential) levelized resource costs of the 99 MW Wyoming			

1	resources in this proceeding over their lifetimes. See Staff/200, Schwartz/13-14 and Staff/202,		
2	Schwartz/8-11.		
3	Staff also presented the energy production cost of these three 99 MW Wyoming wind		
4	projects for the test year (2009) to show their immediate impact on rates. Staff's analysis shows		
5	that the energy production cost of Rolling Hills in 2009 is far higher - \$95.19 per megawatt-		
6	hour (MWh) versus \$73.12 per MWh for Glenrock and \$59.10 per MWh for Seven Mile Hill.		
7	See Staff/600, Schwartz/4-5 (UE 199). Seven Mile Hill is on leased land. See Staff/202,		
8	Schwartz/1 (UE 199).		
9	In rebuttal testimony in UE 200, PacifiCorp provided a new estimate of the economics of		
10	Rolling Hills over its lifetime. See PPL/203, Tallman/11; PPL/209. The workpapers for Exhibit		
11	PPL/209 that PacifiCorp provided to staff did not include formulas. See Staff/506. Despite its		
12	efforts prior to the hearing, staff was unable to obtain sufficient information to verify the		
13	methodology or the calculations. In any event, the prudence of Rolling Hills should be based on		
14	what PacifiCorp knew or could have known at the time.		
15	The analyses provided by PacifiCorp and staff demonstrate that the cost of Rolling Hills		
16	is not reasonable, particularly considering the cost of other Wyoming wind resources that are the		
17	same size and in service in the same year.		
18	Finally, see also PPL Cross Exhibit 2 (staff's response to DR 3.4).		
19	C. PacifiCorp's imprudent decision concerning Rolling Hills should be accounted for as an		
20	adjustment to the amount of the project's capital cost that is included in rate base (in UE 200). Staff calculates this adjustment by increasing Rolling Hills' expected capacity factor to 38		
21	percent.		
22	The fact that Rolling Hills was imprudently acquired does not mean the plant should be		
23	entirely kept out of rate base. See Commission Order No. 87-1017 at 10. The appropriate		
24	remedy is to make a one-time adjustment to the amount of plant investment (capital cost) that is		
25	allowed into rate base. The adjustment is made in order to capture for PacifiCorp's customers		
26	the expected capacity factor of a Wyoming wind resource the company likely would have		
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1	acquired if it had issued an RFP for renewable resources as it was required to do to test this self-
2	build resource against the market. See Staff/200, Schwartz/16; Staff/200, Schwartz/3 (UE 199).
3	Staff's method for adjusting the capital cost is structured to achieve the same effect of making an
4	adjustment to Rolling Hills in the UE 199 TAM proceeding. Staff/200, Schwartz/16.
5	Staff witness Brown explained the actual mechanics behind this adjustment. See
6	Staff/300, Brown/10-11. Ms. Brown's adjustment is based upon increasing the expected
7	capacity factor for Rolling Hills from the 31 percent used by PacifiCorp to 38 percent. Id.
8	PacifiCorp does not seem to have an argument with the mechanics used by Ms. Brown, but it
9	vigorously disagrees with staff's recommended adjustment.
10	As stated, PacifiCorp bases its 31 percent capacity factor for Rolling Hills (recently
11	updated to 33.8 percent) upon a study prepared by its technical consultant CH2M Hill. The
12	updated CH2M Hill study was provided with PacifiCorp's rebuttal testimony filed in UE 200.
13	See PPL/204. Assuming the updated capacity factor has legal significance in a prudence review,
14	which it does not, staff is not persuaded by either study. ⁶
15	Staff's recommended 38 percent expected capacity factor is based upon several
16	components. Staff's recommendation was based upon an average capacity factor of wind plants
17	in Wyoming serving PacifiCorp, information that was originally provided by PacifiCorp. See
18	Staff/200, Schwartz/4; Staff/202, Schwartz/2 (UE 199). PacifiCorp's rebuttal testimony now
19	purports to show that this average is actually 35 percent. See PPL/203, Tallman/5. However,
20	staff's quick review of the workpapers Mr. Tallman provided to support his 35 percent
21	calculation raised concerns about the validity of the analysis. See TR at 73-76 (Schwartz).
22	However, even assuming Mr. Tallman's 35 percent figure is verified, staff still stands by
23	its 38 percent capacity factor adjustment for Rolling Hills. Staff's reasons for doing so are
24	6 It will be recalled that a prudence review looks at the information the utility had, or should have
25	had, when it made its decision. Here, the updated capacity factor projection for Rolling Hills was not available to the company when it made its decision to proceed with the project. Thus, it
26	has no legal significance in a review of the prudence of the utility's decision, made in 2007, to proceed with the project.

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1	summarized in staff's response to PacifiCorp's DR 3.18. See PPL Cross Exhibit 2 (DR 3.18).
2	Staff's recommended 38 percent capacity factor is less than the capacity factor estimates
3	PacifiCorp used at the time it decided to acquire the other Wyoming resources in this proceeding
4	A 38 percent capacity factor is also less than the expected capacity factor of the Seven Mile Hill
5	expansion project (Seven Mile Hill II) under development by PacifiCorp and expected to be
6	completed by year-end. In addition, PacifiCorp stated that the turbines at Rolling Hills were
7	placed in a less desirable location than the portion of the site where the Glenrock project is
8	located. See also TR at 73-76 (Schwartz).
9	
10	6. The Commission should adopt staff's recommendations for Glenrock
11	As will be discussed in Section 7 below, staff recommends that its adjustment for the
12	Glenrock resource be made in UE 199. Unlike Rolling Hills, staff does not conclude that
13	PacifiCorp's decision to acquire and develop Glenrock was imprudent. However, PacifiCorp
14	incorrectly advocates for an updated capacity factor of 37.4 percent (formerly 38.6) for the
15	facility. The Commission should use staff's recommended 41 percent capacity factor for the
16	Glenrock resource. ⁷
17	While the issue here is simple in concept (which percentage to use for the capacity
18	factor), unfortunately, the history of how the company has documented its recommended
19	capacity factor percentage is long and tortuous.
20	PacifiCorp initially provided an approximate number of 38 percent for its capacity factor
21	for Glenrock. See Staff/202, Schwartz/2 (UE 199). In response to data requests from staff and
22	ICNU, the only documentation the company provided for its 38 percent figure was a November
23	

its Motion and accompanying exhibits filed on September 15, 2008) to provide any 25

⁷ As discussed, staff views Rolling Hills/Glenrock together as a Major Resource. Nevertheless, because of the way this case has unfolded, it is appropriate to adjust the capacity factor for the Glenrock phase of the project. For reasons discussed in the text, PacifiCorp failed (at least until 24

documentation to substantiate its recommended 38.6 percent capacity factor for Glenrock.

Accordingly, staff proposed to adjust the capacity factor to line-up with the only evidence available – a November 2007 report produced by PacifiCorp's technical consultant. 26

1	2007 report from CH2M Hill, its technical expert, which showed a 41 percent expected capacity			
2	factor for Glenrock. See Staff/604, Staff/15 (UE 199); Staff/202, Schwartz/57 (UE 200). The			
3	company, however, included in its project approval documentation a "conservative" 38.6 percent			
4	capacity factor for Glenrock. See Staff/202, Schwartz/32 (UE 200). Finally, in its UE 200			
5	rebuttal testimony, PacifiCorp again refined the capacity factor down to 37.6 percent. See			
6	PPL/203, Tallman/1-2; PPL/205.			
7	Well, as it turns out, not quite "finally." Just a few days ago, PacifiCorp submitted an			
8	"update" to its PPL/205 exhibit. The newly-filed reports purport to confirm, for the first time,			
9	the alleged basis for the company's 38.6 percent estimated capacity factor for Glenrock. See			
10	PacifiCorp's Motion to Supplement Record (September 15, 2008). According to the Motion, the			
11	consultant created these reports on April 6, 2007, and April 10, 2007. PacifiCorp does not			
12	explain why neither report was provided earlier in response to staff's and ICNU's data requests			
13	originally sent to the company months ago in UE 199. See, e.g. Staff/604, Schwartz/15 (UE			
14	199).			
15	Despite their dubious history, staff has decided not to file a motion to strike these newly-			
16	produced consultant reports. Instead, staff asks the Administrative Law Judge to give them little			
17	or no, weight in light of their late submittal and PacifiCorp's failure to provide them earlier when			
18	requested. There is no opportunity for staff to analyze them, to send PacifiCorp data requests			
19	about them, or to submit additional (indeed, any!) testimony about them.			
20	However, should the ALJ grant the late-produced reports full status as reliable evidence,			
21	it is critical to note that the consultant reports were prepared in April 2007, a full seven months			
22	prior to the November 2007 report that staff relies upon. The later November report is thus the			
23	proper one to use in the UE 199 proceeding not only because recent information but also because			
24	it was available to the company prior to the TAM filing.			
25	Staff is similarly opposed to the Commission granting the updated 37.4 percent capacity			
26	factor much weight. Staff and parties had little time to review the update provided on August 22			
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- 1 2008, and had insufficient time to conduct discovery while preparing for the hearing and meeting
- 2 other workload. The update also came too late for written testimony. Further, the update is not
- 3 relevant to a prudence review in UE 200. See PPL Cross Exhibit 2 (staff response to DR 3.15).
- 4 Finally, the company states that this capacity factor may change further still, if additional
- 5 technical studies at project completion show material changes compared to the 37.4 percent
- 6 "final build design" figure. PPL/203, Tallman/2. Staff properly relies upon the verified capacity
- 7 factor provided in UE 199, 41 percent. See Staff/604, Staff/15 (UE 199); Staff/200, Schwartz/17
- 8 (UE 200).

10

7. Adjustments in UE 199 (TAM) or in UE 200 (RAC)

- As discussed above, staff provides alternative adjustments for the Commission's
- 12 consideration to address the appropriate capacity factors of Glenrock and Rolling Hills. Staff
- presents the calculations for the alternative adjustments in the UE 199 (TAM) and in UE 200
- 14 (RAC) proceedings. See Staff/100, Brown/13-14 and Staff/400, Brown/1-2 (UE 199); Staff/300,
- 15 Brown/9-12 in UE 200.
- The proposed RAC adjustments were calculated to achieve the same effect as the TAM
- adjustments. See Staff/200, Schwartz/16. That is, the RAC adjustments were designed to reflect
- 18 the net power cost benefits ratepayers would receive if the adjustment were instead made in the
- 19 TAM.
- 20 For Glenrock, staff recommends an adjustment in order to use the 41 percent capacity
- 21 factor stated in the third-party technical report on the wind resource at that site, provided by
- 22 PacifiCorp to staff and parties in discovery in this proceeding. See Staff/604, Schwartz/15 (UE
- 23 199); Staff/200, Schwartz/17 and Staff/202, Schwartz/57 (UE 200). As staff explains above,
- 24 PacifiCorp's updated capacity factor of 37.4 percent for Glenrock came so late in the proceeding
- 25 that staff was not able to verify it. See Section 6 of the Brief.

1	In lieu of Rolling Hills, and its very low capacity factor compared to other Wyoming			
2	wind resources, staff recommends the Commission apply a capacity factor in line with a			
3	Wyoming wind resource the company likely would have acquired in a Commission-approved			
4	competitive bidding process. See Staff/600, Schwartz/11 and Staff/202, Schwartz/1-4 (UE 199).			
5	Staff is not challenging the prudence of Glenrock. Staff agrees with PacifiCorp that, for			
6	Glenrock, the issue is which wind profile to use in the TAM. See PPL/203, Tallman/3 (UE 200).			
7	Therefore, staff recommends the Commission make staff's recommended adjustment in the			
8	TAM.			
9	However, if the Commission agrees with staff that the Rolling Hills plant was			
10	imprudently acquired, the Commission should ensure that ratepayers are not harmed in future			
11	years by Rolling Hills' proximity to Glenrock. See Staff/200, Schwartz/17 (UE 200); Staff			
12	Exhibit 202, Schwartz/32 (UE 200). In order to address this issue, without revealing confidential			
13	material in this brief, the Commission should make adjustments in the RAC to reflect the impact			
14	of Rolling Hills on Glenrock.			
15	The Commission should direct PacifiCorp to use a 41 percent capacity factor for			
16	Glenrock in the company's final TAM filing in UE 199. Further, without revealing confidential			
17	information in this brief, the Commission should direct that in future annual power cost update			
18	filings, the company must make an adjustment to Glenrock in accordance with [for confidential			
19	material see Staff/200, Schwartz/17; Staff Exhibit 202, Schwartz/32 (UE 200)].			
20				
21	8. Federal Production Tax Credits and Renewable Energy Certificates			
22	Each kilowatt-hour generated from a wind facility that goes into service in 2008 is			
23	eligible for a federal tax credit of 2.1 cents for the first 10 years of production. See PPL/303,			
24	Dalley/3 (UE 200). In addition, one Renewable Energy Certificate (REC) is produced for each			
25	megawatt-hour of energy generated. Staff/600, Schwartz/9 (UE 199). RECs can be sold into the			
26	market or used for compliance with voluntary or mandatory renewable resource programs.			

1	The RAC is where the benefits of federal production tax credits are accounted for. See		
2	PPL/300, Dalley/4; Staff/600, Schwartz/10-11 (UE 199). Staff recommends the Commission		
3	make an adjustment in the RAC to reflect the amount of tax credits associated with a 41 percent		
4	capacity factor for Glenrock. See Staff/400, Brown/2; Staff/500, Brown/1; and Staff/600,		
5	Schwartz/8-11 (UE 199).		
6	PacifiCorp also raised the issue of RECs associated with adjustments to capacity factors.		
7	See PPL/400, Tallman/4-5 (UE 199). Staff recommended the Commission consider this issue as		
8	well. The company states it is banking Oregon's share of the RECs for compliance with the		
9	Oregon Renewable Energy Act (SB 838, 2007 Session), rather than selling them. ICNU/102,		
10	Falkenberg/47-48. Therefore, there is no revenue stream associated with these RECs. Because		
11	staff is not raising a prudence issue regarding Glenrock, upon reflection, staff does not		
12	recommend the Commission make a REC-related adjustment for this facility, except for the issue		
13	related to Rolling Hills' impact on Glenrock, described in Sections 7 and 11 of this brief.		
14	Turning to Rolling Hills, staff's proposed adjustments are based on a finding of		
15	imprudence and resulting disallowance for unreasonable costs, as explained above. The RAC is		
16	the appropriate place for a prudence disallowance because that is how the capital costs of Rolling		
17	Hills are included in rates. Such a disallowance would be a one-time adjustment, and the		
18	decision would not be revisited. See TR at 107-108 (Brown). In addition, an adjustment in the		
19	RAC, rather than the TAM, would avoid the difficulty of quantifying the adjustment to the		
20	capacity factor of Rolling Hills as its expected capacity factor may be updated from year to year		
21	in annual power cost updates.		
22	Similar to Glenrock, additional federal production tax credits associated with staff's		
23	recommended 38 percent capacity factor adjustment for Rolling Hills also should be accounted		
24	for in the RAC. See Staff/400, Brown/2; Staff/500, Brown/1; and Staff/600, Schwartz/8-11 (UE		
25	199). To reflect that federal production tax credits are provided for the first 10 years of facility		
26	operation, and not just the first year, the Commission also should direct PacifiCorp to reduce tax		

1	expense for Rolling Hills each year from 2010 through 2018 to reflect the amount of tax credits
2	associated with a 38 percent capacity factor.
3	Staff also continues to recommend the Commission make an adjustment to account for
4	the additional RECs associated with the higher capacity factor resource PacifiCorp would have
5	acquired through a Commission-approved competitive bidding process, in lieu of Rolling Hills.
6	The additional energy produced by the higher capacity factor resource not only would increase
7	net power cost benefits and receive more federal production tax credits. Customers also would
8	benefit from additional RECs that could be sold into the market or banked for compliance with
9	mandatory renewable energy standards in Oregon. The Commission should direct PacifiCorp to
10	deduct the additional REC value from capital costs for the December 1st 2009 RAC update.
11	Further, to account for the company's 2007 IRP REC value of \$5 per megawatt-hour over the
12	first five years of facility operation, the Commission also should direct the company to make this
13	adjustment each year from 2010 through 2013. See Staff/600, Schwartz/9-10 (UE 199).

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9. Modeling Issues

Staff continues to support its recommendation that the Commission require PacifiCorp to perform simultaneous runs of the PVRR(d) and ACC methods. See Staff/300, Brown/6. Staff has testified there may be systemic biases within the company's ACC method and its valuation of wind energy produced by the facilities. The implications of this over or undervaluation are not yet clear to staff. As such, staff recommends that both models be run simultaneously, for current and future projects, in order to give staff the greatest amount of information and to assure all parties that this is the best model to use going forward. Considering the ACC method is wholly untested and new to staff, it is reasonable to have a basis of comparison in evaluating renewable resources.

Despite staff's concern about the modeling, and its recommended solution, the company still has not performed the quantitative analysis to refute staff's concerns. See Staff/507.

1	PacifiCorp has not stated any additional costs associated with providing both analyses, nor does			
2	it seem reasonable that there would be any substantive additional costs. The company is			
3	currently using the GRID model for purposes of the TAM, and the PVRR(d) method is based on			
4	this model in order to value the energy of these same resources.			
5	PacifiCorp's qualitative reasoning as to why staff's concerns are unfounded is not			
6	persuasive. Staff testified that there is a concern that the ACC model may systematically over or			
7	undervalue the resource based on its correlation to the wind profile of the de-committed portfolio			
8	of resources. See Staff/300, Brown/5. PacifiCorp's response to staff's concern was that the			
9	ACC method and PVRR(d) method both account for intra-hour intermittency in wind. See			
10	PPL/203, Tallman/29-30. This statement has no relevance to staff's issue that the wind profile of			
11	a resource and its correlation to the wind profile of the de-committed portfolio of wind takes into			
12	account the actual forecast of the wind on an hour-to-hour basis. The fact that both models take			
13	into account intra-hour variability is not on point.			
14	Staff does not take issue with the company attempting to provide alternative models for			
15	evaluation that may be more in line with the IRP/RFP relationship. But, there are enough			
16	questions about the modeling that staff recommends the Commission require PacifiCorp to			
17	perform simultaneous runs of the PVRR(d) and ACC methods to help resolve the issue of			
18	whether the ACC model performs as PacifiCorp claims it does.			
19				
20	10. Cost of Capital			
21	The RAC adjustment clause underlying this proceeding reduces PacifiCorp's risk with			
22	regard to regulatory lag. This should lower the company's cost of capital. See Staff/300,			
23	Brown/12-14. This is not the same risk that PacifiCorp witness Kelly seems to discuss in her			
24	testimony. The risk PacifiCorp raises is whether the Commission finds the company's costs			
25	prudently incurred, which is a risk PacifiCorp will always face. See PPL/101, Kelly/7. If the			
26	Company chooses to act imprudently it does so at its own peril, and the Commission should			

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1 never reward these activities by allowing a higher cost of equity. Staff intends to investigate the 2 impact of SB 838 on PacifiCorp's cost of capital in the company's next general rate case. 3 4 11. Summary of Staff's Recommendations 5 For the reasons stated, staff requests the Commission adopt its recommendations, which for 6 convenience, are summarized as follows: 7 1. Direct PacifiCorp to reduce the revenue requirement in the 2009 RAC to reflect: 8 A capital cost disallowance for Rolling Hills of \$44,738,535 (Oregon-allocated)⁸ (a) 9 associated with a 38 percent capacity factor. 10 (b) An additional reduction in capital costs for Rolling Hills of \$304,005 (systemwide)9 to account for the additional renewable energy certificates associated with 11 12 a 38 percent capacity factor. 13 (c) An additional reduction in tax expense for Rolling Hills of \$1,276,821 (systemwide)¹⁰ to account for the additional federal production tax credits associated with 14 15 a 38 percent capacity factor. A reduction in tax expense for Glenrock of \$443,961 (system-wide)¹¹ to account 16 (d) 17 for the additional federal production tax credits associated with a 41 percent 18 capacity factor. 19 20 21 22 ⁸ See Staff/102, Garcia/5 (UE 200). ⁹ See Staff/600, Schwartz/9 (UE 199). 23 ¹⁰ See Staff/600, Schwartz/10 (UE 199). Consistent with PPL/303, Dalley/3 (UE 200), staff has updated its recommended adjustments to reflect the Internal Revenue Service's recent revision of 24 the tax credit from 2.0 cents to 2.1 cents per kilowatt-hour of production. See Staff/600, 25 Schwartz/9 (UE 199) for additional energy production associated with staff's recommended capacity factor adjustments. 26 ¹¹ See footnote 3.

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2.	Direct PacifiCorp to reduce tax expense for Rolling Hills by \$1,276,821 (system-wide)
	each year from 2010 through 2018 to reflect that federal production tax credits are
	provided for the first 10 years of facility operation. 12
3.	Direct PacifiCorp to deduct an additional \$304,005 (system-wide) from capital costs of
	Rolling Hills for additional renewable energy certificates associated with a 38 percent
	capacity factor each year from 2010 through 2013, to reflect the company's 2007 IRP
	renewable energy certificate value of \$5 per megawatt-hour over the first five years of
	facility operation. ¹³
4.	Direct PacifiCorp to use a 41 percent capacity factor for Glenrock in its UE 199 TAM
	updates. If, however, the Commission does not approve staff's recommended 41 percent
	capacity factor for Glenrock in the UE 199 TAM, the Commission should direct the
	company to make a discrete adjustment to account for the impact of Rolling Hills on
	Glenrock in accordance with confidential material in Staff/200, Schwartz/16-17 and Staff
	Exhibit 202, Schwartz/32 (UE 200). Similarly, regardless of the capacity factor the
	Commission adopts in UE 199 for Glenrock, the Commission should direct the company
	to make this discrete adjustment in future power cost updates. Further, associated with
	this discrete adjustment, the Commission should direct the company in UE 200 and future
	rate cases to reduce tax expense for Glenrock to account for the additional federal
	production tax credits through 2018 and reduce capital costs for Glenrock to account for
	the additional renewable energy certificates through 2013.
5.	Consider in future general rate cases the impact on cost of capital of SB 838 provisions
	that reduce risk, including the reduction in regulatory lag due to mandated timely
	recovery of prudently incurred costs.
	Staff/600, Schwartz/9 (UE 199).

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1	6.	Direct PacifiCorp to include analysis using the company's PVRR(d) method in future	
2		filings requesting cost recovery of renewable resources, performing simultaneous runs	
. 3		with the company's other modeling me	thods.
4			
5		DATED this 22 nd day of September 200	8.
6			Respectfully submitted,
7			HARDY MYERS
8			Attorney General
9			Middli
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11			Assistant Attorney General Of Attorneys for Staff of the Public Utility
12			Commission of Oregon
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1	CERTIFICATE OF SERVICE		
2	I certify that on September 22, 2008, I served the foregoing STAFF'S OPENING		
3	BRIEF upon all parties of record in this proceeding by delivering a copy by electronic mail		
4	(where parties have waived paper service) and by mailing a copy by postage prepaid first class		
5	mail or by hand delivery/shuttle mail to the parties accepting paper service.		
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