1	BEFORE THE PUBLIC U	TILITY COMMISSION
2	OF OREGON	
3	UE 246	
4	In the Matter of	
5 6	PACIFICORP, dba PACIFIC POWER's Request for a General Rate Revision	STAFF PREHEARING BRIEF
7		
8	1. INTRODUCTION	
9	Staff of the Public Utility Commission of C	Oregon (Staff) submits this prehearing brief
10	consistent with the schedule established in this pro-	oceeding. On July 12, 2012, certain parties
11	submitted a Partial Stipulation resolving many of	the issues in this proceeding. Signatories to the
12	Partial Stipulation were PacifiCorp (PacifiCorp or	Company), Staff, the Citizens' Utility Board
13	of Oregon (CUB), the Industrial Customers of Nor	rthwest Utilities (ICNU), and Fred Meyer
14	Stores and Quality Food Centers, divisions of The	Kroger Co. (Kroger) (collectively the
15	Stipulating Parties). Sierra Club is the only other	party that filed testimony in this proceeding
16	and has remained active.	
17	The Partial Stipulation resolved all issues i	n this case except for the following: (1) the
18	prudence of PacifiCorp's investments in environm	nental controls at certain of its thermal (coal)
19	generation plants; (2) PacifiCorp's proposal to add	d the Mona-to-Oquirrh transmission line
20	project to its rate base through a separate tariff rid	er when the line goes into service in 2013; and
21	(3) PacifiCorp's request for a power adjustment m	echanism (PCAM) and ICNU's related issue
22	on the Transition Adjustment Mechanism (TAM).	Staff's prehearing brief will address these
23	three remaining issues in the order listed.	
24	2. STANDARD OF REVIEW	
25	PacifiCorp filed revised tariff sheets seeking	ng to increase its base rates. The proceeding to
26	review and analyze PacifiCorp's filing is generally	y referred to as a "rate case" and is governed by

ORS 757.205 et. seq. Under ORS 757.210(1)(a), PacifiCorp bears the "burden of proof" to show
that its proposed rates are fair, just and reasonable. See also ORS 756.040(1). The Commission
has issued a series of orders that clarify the burden of proof concept as it is applied in a rate case.
In its Order No. 01-777, the Commission stated that the utility has the burden to show, by
a preponderance of the evidence, that its proposed change is just and reasonable. The
Commission further declared that "if [the utility] fails to meet that burden, either because the
opposing party presented compelling evidence in opposition to the proposal, or because [the
utility] failed to present compelling information in the first place, the [the utility] does not
prevail." Order No. 01-777 at 6.
Later, in its Order No. 09-046, the Commission clarified that the burden of proof concept
involves both the "burden of persuasion" and the "burden of production." These aspects were
described as follows:
The burden of persuasionis always with the utility. The ultimate burden of
producing enough evidence to support its claims is also with the utility. Other parties in the case, however, have the burden of producing evidence to support their argument in opposition to the utility's position.
Order No. 09-046 at 7-8.
The Commission most recently opined on the various burdens as follows: To reach a determination on whether proposed rates are just and reasonable, we
look at the record as a whole and make a determination based on the preponderance of the evidence. Once a utility has met the initial burden of
presenting evidence to support its request, "the burden of going forward then shifts to the party or parties who oppose including the costs in the utility's
revenue requirement." Although the burden of production shifts, the burden of persuasion is always on the utility.
Order No. 11-432 at 3.
In summary, the Commission has firmly declared that the burden of persuasion and the
burden of presenting sufficient supporting evidence remain with the utility throughout the rate
case. It is not Staff's or the intervening parties' role to show that a proposed cost increase is
unfair, unjust or unreasonable (or, in the case of the coal plant cost issue, imprudent). Rather, it

1	is PacifiCorp's burden to carry its burden of proving its proposal is fair, just, and reasonable
2	(and, in the case of the coal plant cost issue, prudent).
3	3. ENVIRONMENTAL CONTROL INVESTMENTS (COAL PLANT ISSUE)
4	PacifiCorp is seeking rate recovery of its investments in environmental controls at the
5	following thermal generation plants (also referred to in this prehearing brief as "coal plants"):
6	Naughton Units 1 and 2 (Naughton 1&2), Dave Johnston Unit (4) (Johnston 4), Hunter Units 1
7	and 2 (Hunter 1&2), Jim Bridger Unit 3 (Bridger 3) and Wyodak. CUB proposes to disallow 25
8	percent of the Company's investment in all environmental controls as imprudent or, in the
9	alternative, to disallow the investments as not currently used and useful. See generally
10	CUB/100, Jenks-Feighner/17-20, 58-59; CUB/200, Jenks-Feighner/28-31. Sierra Club proposes
11	to disallow the investments in Naughton 1&2 and Hunter 1&2 as imprudent. See generally
12	Sierra Club/100, Fisher/4; Sierra Club/200, Steinhurst/4-6. Staff found infirmities or deficiencies
13	with PacifiCorp's decision-making process in certain areas but overall found the investments at
14	issue to be not imprudently incurred. See generally Staff/400, Colville/3-4; Staff/1500,
15	Colville/17-19. In response, PacifiCorp does not generally refute Staff's testimony but
16	vigorously opposes the reasoning and analysis employed by CUB and Sierra Club in support of
17	their respective proposed cost disallowances. See generally PAC/1400 (Woolums); PAC/1500
18	(Teply); PAC/1900 (Woolums); and PAC/2000 (Teply).
19	As evidenced by the enormity of the filed testimony and supporting exhibits, this issue is
20	extremely complex. As such, Staff will not attempt to discuss in this prehearing brief each and
21	every argument and claim presented by the parties. Instead, Staff will discuss the major points
22	raised by the parties related to the coal plant investments and set forth Staff's position on each.
23	Staff will begin with an explanation of the prudence standard.

24 A. The Commission's Prudence Standard

The Commission has stated that prudence is determined by the reasonableness of the 25 26 actions taken by the utility at issue based on the information that was available to the utility at

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1	the time (or could reasonably have been available). See Order No. 99-697; Order No. 99-033.
2	For its proceedings, the Commission has clarified that it will apply the prudence standard as
3	follows: "if the record demonstrates that a challenged business decision was reasonable, taking
4	into account established historical facts and circumstances, the utility's decision must be upheld
5	as prudent even if the record lacks detail of the utility's actual subjective decision making
6	process." See Order No. 02-469 at 5. Stated differently, under what Staff terms the "objective
7	prudence standard" adopted by the Commission in its 2002 Order, a utility's action can be found
8	to be prudent even if the process leading up to the decision to take (or not take) that action had
9	some shortcomings or what staff terms "deficiencies."
10	Staff applied this standard in reaching its conclusion that while PacifiCorp's decision
11	making process for the coal plants at issue had some infirmities, overall, Staff could not conclude
12	that the actions taken were imprudent.
13	Further, although Staff is not recommending a disallowance of any of the environmental
14	compliance costs in this proceeding, Staff did provide some general guidance should the
15	Commission chose to do so. See generally Staff/1500, Colville/19-23. In brief summary, Staff
16	set forth two primary disallowance options. ¹
17	First, Staff suggested that the Commission remove the disallowed costs from the
18	approved revenue requirement, assume the coal plant was closed by a certain date and then
19	determine how the coal plant's power output would be replaced and impute those costs into
20	PacifiCorp's rates. <i>Id.</i> at 20-21. If additional time is required for this inquiry, Staff suggested
21	¹ Staff notes that, for each coal plant at issue, CUB makes an alternative disallowance
22	suggestion: that the investment at issue is not adequate to meet relevant environmental mandates for 2015 and, as such, the investments should be disallowed as not used and useful. See
23	generally CUB/100, Jenks-Feighner/18-19 and 37-38 (Bridger 3 plant), 43-44 (Naughton 1&2), 47 (Johnston 4), 54 (Hunter 1&2), 57 (Wyodak). Notably, CUB did not elaborate on its used and
24	useful argument in its final round of testimony (i.e. CUB/200). Staff does not directly respond to CUB's used and useful disallowance suggestion for two reasons: (1) CUB does not connect the
2526	dots between its discussion of PacifiCorp's investment actions at each plant with its suggested used and useful disallowance remedy and (2) Staff's response, if needed, is contained in its discussion in the text as to why the Commission should not make a prudence disallowance of any
	of the plant investments at issue.

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1	that the Commission could allow the costs for the units at issue to go into effect subject to a
2	deferral and later reconciliation. <i>Id. See also</i> Commission Order No. 12-226 (use of deferral to
3	defer revenue requirement variances pending subsequent phase to the proceeding).
4	Second, the Commission could disallow costs related to PacifiCorp's management
5	expense to reflect a lower quality of management expected during the time the new rates will be
6	in effect as evidenced by PacifiCorp's management team's inadequate performance in its
7	decision making process underlying the environmental investments (i.e. the infirmities Staff
8	identified). Id. at 22-23; see also Commission Order No. 97-171 (lowering utility's return on
9	equity to reflect expected lower quality of management during time rates would be in effect).
10	B. Naughton 1&2
11	(1) PacifiCorp's Basic Presentation
12	The Naughton plant is located in Wyoming and consists of three coal-fired units that are
13	entirely owned by PacifiCorp. PAC/500, Teply/28. For Naughton 1, PacifiCorp seeks recovery
14	for \$121 million incurred for a "wet flue gas desulfurization" (FGD or "wet scrubber") system
15	and \$9 million for a low nitrogen oxide (NOx) burner (LNB). PAC/500, Teply/29, 31. For
16	Naughton 2, PacifiCorp seeks recovery for \$155 million costs incurred for a FGD and \$9 million
17	for a LNB. PAC/500, Teply/39-41. For Naughton 1, construction of the FGD retrofits began in
18	2010 and will end in May, 2012. PAC/500, Teply/29. For Naughton 2, construction began in
19	2010 and the retrofits were put in service in November, 2011. <i>Id.</i> at 39-40.
20	PacifiCorp states that it developed an economic analysis to provide an overview of the
21	"present value revenue requirement differential" [PVRR(d)]. Generally, the PVRR(d) analysis
22	compares the benefits associated with the Company's planned emission control investments at a
23	particular coal plant against idling or closing the plant and replacing the power with market
24	purchases. PAC/500, Teply/21; see also Sierra Club/100, Fisher/29. A positive PVRR(d)
25	number supports making the investments and continuing to operate the coal plant.
26	

1	For both Naughton 1&2, the Company performed its PVRR(d) analysis prior to executing
2	the construction contract in May 2009. PAC/500, Teply/37, 45. PacifiCorp states that its
3	original PVRR(d) results related to the decision making period for both Naughton 1&2 supported
4	continued operation of the units with the retrofit investments. Id. In response to CUB's and
5	Sierra Club's testimonies, PacifiCorp re-ran the PVRR(d) for both Naughton1&2 using different
6	assumptions consistent with CUB's and Sierra Club's critiques. The revised PVRR(d) analyses
7	still resulted in a positive number for the pollution control investments in both plants. See
8	generally PAC/1500, Teply/18.
9	PacifiCorp states that the Naughton investments were prudently incurred to meet current,
10	or expected, environmental regulations and obligations.
11	(2) Staff's Basic Response
12	Staff reviewed PacifiCorp's analyses and concluded that, of the coal plants at issue,
13	Naughton 1&2 were the closest call from a PVRR(d) viewpoint. Staff/1500, Colville/15-17.
14	However, after careful consideration, Staff concluded that PacifiCorp's investment actions for
15	Naughton 1&2 were ultimately not imprudent. Staff witness Colville reasoned that PacifiCorp,
16	as a load serving entity, had an obligation to operate its system to meet reliability, quality and
17	safety standards. Naughton 1&2 had provided reliable and safe service for many years and
18	PacifiCorp was faced with an uncertain environmental compliance future. Thus, despite the
19	close PVRR(d) results for the two units, Staff witness Colville concluded that PacifiCorp could
20	have reasonably decided to continue to invest in and use Naughton 1&2 and, as such, the
21	Company's investment actions were not imprudent. Staff/1500, Colville/17-19.
22	However, despite its finding of no imprudence related to the Naughton 1&2 investments,
23	Staff concluded that the Company's decision making processes related to the environmental
24	investments at the two units was deficient or infirm in the following respects: (1) failure to
25	consider at the time of decision making costs for carbon dioxide (CO2) emission regulation; (2)
26	failure to include capital cost proxies for compliance with potential coal combustion residuals

significant milestones were reached; (4) use of decision making dates for idling the coal plants
rather than state permit compliance dates; and (5) failure to perform case sensitivity analyses for
Best Available Retrofit Technology (BART) compliance costs. Staff/1500, Colville/16, 23-25.
CUB and Sierra Club both draw a different conclusion for Naughton 1&2. Based upon
their respective analyses, CUB and Sierra Club argue that PacifiCorp's investments in the
Naughton 1&2 units should be found to be imprudent (or, as CUB's alternative position,
disallowed as not used and useful).
(3) CUB's and Sierra Club's Presentations and Staff's and PacifiCorp's Respective
Responses
Briefly and broadly stated, CUB argues that PacifiCorp did not fully analyze alternative
approaches to environmental compliance mandates and, if it had done so, the Company may
have chosen to phase out the units instead of going forward with the environmental retrofit
investments. CUB further asserts that PacifiCorp could have waited longer before going ahead
with the investments. CUB also argues that PacifiCorp's PVRR(d) analyses were flawed.
CUB/100, Jenks-Feighner/25-27; CUB/200, Jenks-Feighner/35-38.
In addition to raising the same issues as CUB, Sierra Club's presentation, broadly
speaking, is that PacifiCorp's analyses were flawed and that the Company committed to the
investments prematurely, prior to a legal mandate to do so. ²

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(i) Boardman Issue³ 1 2 One important aspect of CUB's presentation is its discussion of the impact Portland 3 General Electric's closure of its Boardman coal plant should have had on the Naughton analyses. CUB vigorously asserts that PacifiCorp knew, or should have known, that using a Boardman-4 5 type approach of modeling plant closure before its end-of-useful life closure date (also referred to as an "early" plant closure in this Staff brief) was permissible under BART. According to 6 7 CUB, the Oregon Department of Environmental Quality (Oregon DEQ) approved the Boardman 8 early closure plan in December 2010 and the Environmental Protection Agency (EPA) approved 9 the early closure proposal in January 2011. CUB/200, Jenks-Feighner/19-20. 10 CUB offers a timeline of regulatory highlights starting in June 2008 with the publication 11 of Order No. 08-339 adopting Integrated Resource Plan (IRP) Guideline 8 pertaining to the analysis expected for CO2 and other pollution costs. CUB/200, Jenks-Feighner/14. CUB argues 12 13 the timeline shows that Oregon DEQ rejected PGE's Boardman regional haze compliance 14 proposal in June 2009, allowing PGE to refile with a request for a rule change if PGE were to decide to close Boardman early. CUB states it requested that PGE model a 2020 closure date for 15 16 Boardman in September 2009, which was reported in the Oregonian newspaper that month. 17 CUB/200, Jenks-Feigher/18. PGE announced in January 2010 its intent to close Boardman by 18 2020. CUB/200, Jenks-Feigner/19. In summary, CUB asserts that certain coal plant analyses 19 were expected and that PacifiCorp should have known that a Boardman-type approach was 20 potentially permissible under BART as early as 2008. CUB/100, Jenks-Feighner/23-25; 21 CUB/200, Jenks-Feighner/11-23, 35-38. 22

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³ While it is not entirely clear, CUB seems to make a "Boardman" early closure type of claim 24 related to PacifiCorp's analyses for only Naughton 1&2 and Jim Bridger 3. See CUB/200,

Jenks-Feighner/41 and accompanying text at footnote 68. But, if CUB's intent is to raise the 25 argument for all of the coal plant investments at issue in this case. Staff's brief on the Boardman

early closure issue in the text above should be read to as its response to CUB for all of the coal 26 plants.

In other words, according to CUB, PacifiCorp could, and should, have modeled early
closure dates for the Naughton 1&2 units under BART. Doing so, according to CUB, would
have resulted in PacifiCorp being able to avoid the environmental compliance costs at issue here
by running the units without the required retrofits as long as legally permissible and then closing
Naughton 1&2 before the end of their expected useful lives. <i>Id</i> .
Staff responded to CUB by first noting that the Boardman approach to the BART analysis
(i.e. considering useful life as a permissible variable in the analysis) was not recognized as being
beneficial until late 2010. As will be recalled, PacifiCorp's PVRR(d) analyses related to those
investments was concluded in Spring 2009 and construction of the retrofits commenced in 2010.
As such, Staff reasoned that approval and acceptance by the governing entities of the Boardman
approach occurred too late to be used by PacifiCorp in the Naughton investment decision making
process. Staff/1500, Colville/26-27.
PacifiCorp also responded to CUB's assertion about Boardman. Similar to Staff,
PacifiCorp points out that the Boardman proposal to use an early closure date in the relevant
studies was not found to be reasonable until (December) 2010. PAC/1900, Woolums/3. But, by
June 2010, the overall Naughton projects were about 40 percent complete with costs of about
\$70 million incurred. PAC/1500, Teply/19. And, by this time, the Company's Naughton
original investment decisions were long-since completed. PAC/1900, Woolums/19; PAC/2000,
Teply/3.
For these reasons, PacifiCorp and Staff concluded that it was not imprudent for the
Company to not utilize a Boardman-type variable input in the analyses for Naughton 1&2.
(ii) Immediate Idling or Closure of Plant Issue
CUB and Sierra Club state that PacifiCorp erred in using immediate idling or closure of
the units in its PVRR(d) analyses rather than modeling the federal compliance dates. CUB/100,
Jenks-Feighner/26, 40; Sierra Club/100, Fisher/39; Sierra Club/300, Fisher/14-15. Further,
according to CUB and Sierra Club, the most likely federal compliance date was 2015. Id. As

1	stated earlier, Staff agrees with this criticism and found it to be a decision making infirmity
2	(Staff concluded however that 2014 was a reasonable date rather than 2015). Staff/1500,
3	Colville/12, 16, 23-25.
4	PacifiCorp's response was to re-run its PVRR(d) analysis with a January 1, 2014 federal
5	compliance date. PacifiCorp's revised modeling still resulted in a positive PVRR(d) for both
6	units. PAC/1500, Teply/18. In response, Sierra Club's review of PacifiCorp's revised modeling
7	showed different results. Sierra Club/300, Fisher/15. Staff concluded, after review of the
8	parties' competing modeling, was that the revised PVRR(d) results for Naughton 1&2 were
9	simply "inconclusive." Staff/1500, Colville/13-14.
10	(iii) Need to Update Analyses
11	CUB and Sierra Club argue that PacifiCorp should have updated its analyses to reflect
12	significant new events. CUB/100, Jenks-Feighner/27, 40-41; CUB/200, Jenks-Feighner/31;
13	Sierra Club/100, Fisher/27-28; Sierra Club/300, Fisher/10. Staff agrees. Staff/1500, Colville/8-
14	9. As a related matter, CUB points out that PacifiCorp's later studies, such as its 2011 IRP
15	Supplemental Coal Replacement Study and its 2011 IRP Update Coal Replacement Study,
16	improperly considered pre-2012 environmental costs at the units as sunk. Sierra Club makes the
17	same point. Sierra Club/300, Fisher/10. Staff agrees with CUB and Sierra Club that this was a
18	flaw with PacifiCorp's decision making process.
19	In response, PacifiCorp does not appear to argue that updating its analyses for significant
20	milestones is not a reasonable approach. Rather, PacifiCorp points out that if it had updated its
21	analyses for various milestones, such as the market price for gas and construction costs, the
22	PVRR(d) result would have been even a higher positive number. PacifiCorp/200, Teply/11-12,
23	14.
24	Nonetheless, Staff stands by its assessment that such updates are important and should be

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performed.

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1	(iv) Using alternatives to market for replacement power
2	CUB and Sierra Club argue that PacifiCorp should have considered multiple alternatives
3	for replacing the units' output. CUB/100, Jenks-Feighner/42; Sierra Club/100, Fisher/25. These
4	alternatives include converting the units to run on natural gas or replacing the power with a
5	CCCT. Id.
6	In response, PacifiCorp argues that the alternatives, such as replacing the units with a
7	new generation resource, would have made the PVRR(d) results at the time significantly
8	unfavorable when compared against forward market price curves. PAC/2000, Teply/5. Staff
9	agrees with this assessment. Staff/1500, Colville/24.
10	(v) Assertion that PacifiCorp acted prematurely before any legal mandate to do so
11	Finally, permeating throughout their presentations, both CUB and Sierra Club present a
12	claim about a very complex topic: that PacifiCorp improperly decided to make its coal plant
13	environmental investments prior to any legal requirement to do so. See generally CUB/100,
14	Jenks-Feighner/26; Sierra Club/100, Fisher/5, 14-17, 19-23; Sierra Club/300, Fisher/2, 5-9. Both
15	parties assert that delaying the investments until they were legally required would have provided
16	the Company with more alternatives, resulting in a different least-cost outcome. <i>Id</i> .
17	PacifiCorp vigorously disputes this charge. As a general theme, PacifiCorp argues that it
18	cannot wait until "ever-evolving" laws and federal agency regulations are settled in order to plan
19	and take steps to meet them. PAC/1500, Teply/8; PAC/2000, Teply/7. PacifiCorp then sets
20	forth a very detailed summary of the status of the relevant laws and how the Company acted to
21	anticipate and meet them. See generally PAC/500, Teply/3-20, 25-27; PAC/1400, Woolums/7-
22	15, 20-29; PAC/1500, Teply/1-6, 8.
23	Staff also sets forth an outline of the relevant regulatory requirements and how they
24	interact with the investments made at the coal plants at issue. See Staff/403. Staff does not
25	conclude that PacifiCorp acted prematurely in relation to the regulatory requirements related to
26	the investments at issue.

1	(vi) Staff's Conclusion
2	While Staff has concerns with the Company's decision making process identified and
3	discussed as "infirmities," Staff does not recommend a prudence disallowance for the Naughton
4	1&2 investments at issue in this case.
5	C. Hunter 1&2
6	(1) PacifiCorp's Basic Presentation
7	The Hunter plant is located in Utah and consists of three coal-fired units of which
8	PacifiCorp is the majority owner. PAC/500, Teply/57. For Hunter 1, PacifiCorp seeks recovery
9	of \$52 million for a scrubber project. <i>Id.</i> at 60. Construction started for the Hunter 1 project in
10	2011 and was scheduled to be completed in June 2012. Id. For Hunter 2, PacifiCorp seeks
11	recovery \$25 million for a scrubber project which began in 2010 and was scheduled for
12	completion in March 2012. Id. PacifiCorp also seeks recovery for a "baghouse" associated with
13	\$1.5 million in investment costs at Hunter 2. <i>Id.</i> at 61-62. Finally, PacifiCorp seeks recovery of
14	\$0.5 million of investment costs at Hunter 2 for installation of a LNB. <i>Id.</i> at 62-63.
15	PacifiCorp performed PVRR(d) analyses for these investments prior to executing a
16	contract for the retrofits in December 2009. PAC/500, Teply/66. The original analyses showed
17	a positive benefit to making them as opposed to idling the units and using the market as a
18	replacement resource. Id. at 66-67. In response to CUB's and Sierra Club's testimonies,
19	PacifiCorp re-ran the PVRR(d) analyses consistent with those parties' critiques and still arrived
20	at a significant positive number for both plants. See generally PAC/1500, Teply/21.
21	PacifiCorp states that the Hunter investments were prudently incurred to meet current, or
22	expected, environmental regulations and obligations.
23	(2) Staff's Basic Response
24	Staff set forth its findings about PacifiCorp's decision process infirmities, which included
25	PacifiCorp's decision process related to Hunter 1&2. See Staff/1500, Colville/15-17 [set forth in
26	detail earlier in this brief at (3)(B)(2)]. Nonetheless, Staff reviewed PacifiCorp's analyses and

I	concluded that PacifiCorp acted prudently in relation to its investments at Hunter 1&2.
2	Staff/1500, Colville/5. Importantly, Staff observed that under either PacifiCorp's or Sierra
3	Club's revised PVRR(d) analyses, the result was a positive benefit for continuing to operate the
4	Hunter units with the environmental retrofits at issue. See Staff/1501.
5	CUB and Sierra Club both draw a different conclusion for Hunter 1&2. Based upon their
6	respective analyses, CUB and Sierra Club argue that PacifiCorp's investments in the Hunter 1&2
7	units should be found to be imprudent.
8	(3) CUB's and Sierra Club's Presentations and Staff's and PacifiCorp's Respective Responses
10	Identical to Naughton 1&2, briefly and broadly stated, CUB argues that PacifiCorp did
11	not fully analyze alternatives to environmental legal mandates and, if it had done so, the
12	Company may have chosen to phase out the units instead of going forward with the retrofit
13	investments. CUB further asserts that PacifiCorp could have waited longer before going ahead
14	with the investments. CUB also argues that PacifiCorp's PVRR(d) analyses were flawed.
15	CUB/100, Jenks-Feighner/25-27; CUB/200, Jenks-Feighner/35-38.
16	In addition to raising the same issues as CUB, Sierra Club's presentation, broadly
17	speaking, is that PacifiCorp's analyses were flawed and that the Company prematurely
18	committed to the investments, prior to any legal mandate to do so. Sierra Club/100, Fisher/5-7.
19	Staff will next discuss selected primary points of contention raised by these parties.
20	(i) 2012 IRP Update Study
21	CUB relies upon PacifiCorp's 2012 IRP Coal Replacement Study Update to make a
22	series of assertions about what PacifiCorp should, and should not, have done with the two Hunter
23	units. See CUB/100, Jenks-Feighner/48-50. CUB asserts the Update shows there is a good
24	chance Hunter 1 may be converted to gas, leaving the Hunter 1 investments stranded. CUB/100,
25	Jenks-Feighner/48-50, 53-54; CUB/200, Jenks-Feighner/24.
26	

1	PacifiCorp responds that these claims are speculative and rely upon information not
2	available to PacifiCorp when it made its Hunter 1 decisions. Further, PacifiCorp states that its
3	latest study does not support a conversion of Hunter 1 to gas. PAC/1500, Teply/23.
4	CUB also relies upon the Update to suggest that PacifiCorp could run Hunter without
5	installing a scrubber by closing it in 2018 or 2020. CUB/100, Jenks-Feighner/50. Again, as the
6	Company notes, this is highly speculative, unsupported and also relies upon information not
7	available to PacifiCorp at the time of its Hunter decisions. See also PAC/1500, Teply/24.
8	(ii) 2009 Study
9	CUB claims PacifiCorp should have re-run its PVRR(d) analysis using a 2015 shutdown
10	date for the plant. However, even under Sierra Club's alternative PVRR(d) analysis using a
11	2015 shutdown, the benefit is still positive (supporting making the investments). See
12	Staff/1501. ⁴
13	(iii) Assertion that PacifiCorp acted prematurely before any legal mandate to do so
14	Similar to the assertions with Naughton, Sierra Club argues as a general theme for Hunter
15	that PacifiCorp decided to make its Hunter environmental investments prior to any legal
16	requirement to do so. See generally Sierra Club/100, Fisher/6-7, 52, 56-59. Sierra Club argues
17	that delaying the investments until legally required would have provided the Company with more
18	alternatives, resulting in a different least-cost outcome. Id.
19	Like the identical claim related to Naughton 1&2, PacifiCorp vigorously disputes this
20	charge. PacifiCorp argues that it cannot wait until "ever-evolving" laws and federal agency
21	regulations are settled into order to plan and take steps to meet them. PAC/1500, Teply/8;
22	PAC/2000, Teply/7, 23. PacifiCorp then sets forth a very detailed summary of the status of the
23	relevant laws and how the Company acted to anticipate and meet them. See generally PAC/500,
24	Teply/3-20, 25-27; PAC/1400, Woolums/7-15, 20-29; PAC/1500, Teply/1-6, 8, 23.
2526	⁴ As noted earlier, to the extent CUB is raising the issue, Staff incorporates its discussion of the "Boardman" early plant closure issue set forth in the Naughton 1&2 part of this brief as its response to the same issue for Hunter 1&2.

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1	Staff also sets forth an outline of the relevant regulatory requirements and how they
2	interacted with the investments made at the coal plants at issue. See Staff/403. Staff does not
3	conclude that PacifiCorp acted prematurely in relation to these requirements for the investments
4	at issue with Hunter.
5	(iv) Sierra Club's alleged flaws with Hunter PVRR(d) analysis
6	Sierra Club presents a detailed list of alleged flaws with PacifiCorp's PVRR(d) analyses
7	for Hunter. See generally Sierra Club/100, Fisher/50-59. Before walking through Sierra Club's
8	presentation, Staff notes that it agrees with some of Sierra Club's observations, but ultimately
9	found these deficiencies, while constituting infirmities with the decision making process, did not
10	support a finding of imprudence. Staff/400, Colville/3-5; Staff/1500, Colville/5, 15.
11	Importantly, Staff also concluded that, even with Sierra Club's revisions to the Hunter
12	1&2 PVRR(d) analyses, the result was still positive. <i>Id.</i> ; Staff/1501; Sierra Club/100, Fisher/52.
13	That, combined with the fact that the decision making process was "more good than bad," led
14	Staff to find the investments were prudently incurred. <i>Id</i> .
15	Sierra Club sets forth a detailed list of its modifications to the PVRR(d) analyses for
16	Hunter. See Sierra Club/100, Fisher/53-54. Most notably was the use of a 2015 retirement date.
17	PacifiCorp states that, even under Sierra Club's critique, use of a January 1, 2014 retirement date
18	is more appropriate. See PAC/1500, Teply/21. Nonetheless, use of either date still results in a
19	positive PVRR(d) benefit. Sierra Club/100, Fisher/52; PAC/1500, Teply/21.
20	Sierra Club then lists other changes it made to arrive at its revised analyses. Sierra
21	Club/100, Fisher/53-56. Staff will not repeat these but directs the ALJ to PacifiCorp's point-by-
22	point response. See PAC/1500, Teply/14-16, 21-23. In the end, regardless of how the dispute is
23	resolved over these miscellaneous points, under both parties' analyses, the PVRR(d) benefit is
24	still positive.
25	///
26	

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1	(v) Mona to Oquirrn transmission line
2	Sierra Club asserts that the Company should have considered not constructing the Mona
3	to Oquirrh line because it may have been able to close Hunter (and the Carbon plant) early, thus
4	rendering the line unnecessary. Sierra Club/100, Fisher/56-57. PacifiCorp explains why Sierra
5	Club's position on the Oquirrh line is speculative and unsupported. PAC/1500, Teply/16.
6	Neither PacifiCorp's nor Sierra Club's analyses a shutdown of Hunter as Sierra Club argues and
7	the impact of such a shutdown on the Oquirrh line is highly speculative at best. See also
8	Staff/1500, Colville/29.
9	(vi) Staff's Conclusion
10	While Staff has concerns with the Company's decision making process identified and
11	discussed as "infirmities," Staff does not recommend a prudence disallowance for the Hunter
12	1&2 investments at issue in this case.
13	D. Bridger 3
14	(1) PacifiCorp's Basic Presentation
15	The Bridger plant is a four-unit coal-fired plant located in Wyoming and is partly owned
16	by PacifiCorp. PAC/500, Teply/78. For Bridger 3, PacifiCorp seeks recovery for \$17 million
17	investment costs incurred for a scrubber project to improve SO2 emissions from the unit.
18	PAC/500, Teply/80. Construction of the retrofits began in July, 2010 and they were placed in
19	service by June 2011. Id.; CUB/100, Jenks-Feighner/31.
20	Prior to executing a contract for the retrofits in December 2008, the Company performed
21	its PVRR(d) analysis for Bridger 3. PAC/500, Teply/84. PacifiCorp states that its PVRR(d)
22	results related to the decision making period for Bridger 3 supported continued operation of the
23	units with the retrofit investments. PAC/500, Teply/85. In response to CUB's and Sierra Club's
24	testimonies, PacifiCorp re-ran the PVRR(d) for Bridger 3 using different assumptions consistent
25	with CUB's and Sierra Club's critiques and still arrived at a positive number for the unit. See
26	PAC/1500, Teply/25.

1	PacifiCorp asserts that the Bridger 3 investments were prudently incurred to meet current,
2	or expected, environmental regulations and obligations.
3	(2) Staff's Basic Response
4	Staff set forth its findings about PacifiCorp's decision process infirmities, which included
5	Bridger 3. See Staff/1500, Colville/5, 15-17 [set forth in detail earlier in this brief at (3)(B)(2)].
6	Nonetheless, Staff reviewed PacifiCorp's analyses and concluded that PacifiCorp acted
7	prudently in relation to its investments Bridger. Staff/1500, Colville/5, 15-17. Importantly, Staff
8	observed that under PacifiCorp's revised PVRR(d) studies, the result was a positive benefit for
9	continuing to operate Bridger 3with the environmental retrofits at issue. <i>Id</i> .
10	(3) CUB's Presentation and Staff's and PacifiCorp's Respective Responses
11	CUB reaches a different conclusion for Bridger. CUB generally argues that PacifiCorp's
12	investments in Bridger 3 should be found to be imprudent. Staff will summarize CUB's primary
13	arguments and then set forth PacifiCorp's and Staff's responses.
14	(i) PacifiCorp's March 2011 IRP Update
15	CUB surmises that when PacifiCorp updates its 2011 IRP Coal Replacement Study
16	Update later this year for its 2013 IRP, the results may show that Bridger 3 should be converted
17	to natural gas. CUB/100, Jenks-Feighner/29. CUB bases its speculation on the trend of lower
18	gas prices. Id. In response, PacifiCorp states that all updated analyses support continued
19	operation of Bridger 3 as a coal-fired plant. PAC/1500, Teply/28, 34; PAC/2000, Teply/20.
20	(ii) CUB's proposed updates to PacifiCorp's 2008 study ⁵
21	CUB recommended changes, particularly switching the plant's assumed closure date to
22	2015, to PacifiCorp's PVRR(d) study that supported the Bridger 3 investments. See CIB/100,
23	Jenks-Feighner/31-32. PacifiCorp did re-run the model per CUB's suggestion, but with a
24	January 1, 2014 closure date. PacifiCorp's results still showed a significant positive PVRR(d)
2526	⁵ As noted earlier, to the extent CUB is raising the issue, Staff incorporates its discussion of the "Boardman" early plant closure issue set forth in the Naughton 1&2 part of this brief as its response to the same issue for Bridger 3.

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1	benefit. PAC/1500, Teply/24-25; Staff/1501. ⁶ PacifiCorp also points out errors that CUB made
2	with its own study. PAC/1500, Tely/25-26.
3	Another of CUB's recommendations concerned updating the PVRR(d) analysis for future
4	power prices. CUB's point is that PacifiCorp overestimated the future cost of replacement
5	power for the plant by a significant amount. CUB/100, Jenks-Feighner/32-34. PacifiCorp
6	responded by pointing out errors in CUB's study which, when corrected, failed to support its
7	argument. PAC/1500, Teply/26-27.
8	CUB further argues that PacifiCorp failed to account for other pollution controls that
9	would be required at Bridger 3, and that if it had done so, the additional costs could have made
10	the overall project not cost effective. CUB/100, Jenks-Feighner/34-35. In response, PacifiCorp
11	points out errors with CUB's study that makes the cost comparisons in the study not useful.
12	PAC/1500, Teply/27. PacifiCorp further states that, despite CUB's allegations to the contrary,
13	its scrubber project does meet Wyoming's BART requirements for SO2 and that the SCR is a
14	separate project that will meet the BART requirements for NOx when installed and that the SCR
15	costs were properly accounted for. <i>Id.</i> at 29-30; PacifiCorp/2000, Teply/21; <i>see also</i> Staff/ 1500,
16	Colville/36.
17	Finally, consistent with its overall theme, CUB speculates that PacifiCorp could have run
18	the plant "for a few years" without making the environmental investments and then closed it, and
19	that this would lead an overall lower cost." CUB/100, Jenks-Feighner/35-36; CUB/200, Jenks-
20	Feighner/40. PacifiCorp responded that it cannot operate its coal-fired units by planning to be
21	out-of-compliance under alternative scenarios, and cannot assume successful repeated attempts
22	to successfully negotiate alternative compliance scenarios and deadlines with state and federal
23	regulators. PAC/2000, Teply/21. PacifiCorp also points out that CUB's analysis fails to
24	consider the replacement costs of phasing out the plant. Id.
2526	⁶ Unlike Naughton 1&2 and Hunter 1&2, Sierra Club did not run its own PVRR(d) analysis for Bridger 3 because it is not challenging the prudence of the environmental investment costs at

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issue in this case.

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1	Staff also concluded that the environmental investment costs at Bridger 3 were prudently
2	incurred. Staff/400, Colville/3-5; Staff/1500, Colville/5, 15. The revised Bridger 3 PVRR(d)
3	results remain significantly positive. Id.; Staff/1501. That, combined with the fact that the
4	decision making process was "more good than bad," led Staff to find the investments were
5	prudently incurred. <i>Id</i> .
6	(iii) Staff's Conclusion
7	While Staff has concerns with the Company's decision making process identified and
8	discussed as "infirmities," Staff does not recommend a prudence disallowance for the Bridger 3
9	investments at issue in this case.
10	E. Wyodak
11	(1) PacifiCorp's Basic Presentation
12	The Wyodak plant is a single-unit coal-fired plant located in Wyoming and is partly
13	owned by PacifiCorp. PAC/500, Teply/69. For Wyodak, PacifiCorp seeks recovery for \$103
14	million investment costs incurred for a baghouse project to improve SO2 and PM emissions from
15	the unit. PAC/500, Teply/70-71. PacifiCorp also incurred costs of \$11 million for a LNB (NOx
16	control) project. Id. at 71-72. Construction of the baghouse retrofits began in 2010 and the
17	retrofits at issue were placed in service in April 2011. <i>Id.</i> Both the baghouse and LNB retrofits
18	were installed during a scheduled plant maintenance outage. Id.
19	PacifiCorp states that its PVRR(d) analysis for Wyodak, performed prior to execution of
20	the construction contract in May 2009, supported continued operation of the units with the
21	retrofit investments. PAC/500, Teply/76-77. In response to CUB's testimony, PacifiCorp re-ran
22	the PVRR(d) for Wyodak using different assumptions consistent with CUB's critiques and still
23	arrived at a positive number for the unit. See PAC/1500, Teply/36.
24	PacifiCorp asserts that the Wyodak investments were prudently incurred to meet current,
25	or expected, environmental regulations and obligations.
26	

1	(2) Staff's Basic Response
2	Staff set forth its findings about PacifiCorp's decision process infirmities, which included
3	PacifiCorp's decision process related to Wyodak. See Staff/1500, Colville/5, 15-17 [set forth in
4	detail earlier in this brief at (3)(B)(2)]. Nonetheless, Staff concluded that PacifiCorp acted
5	prudently in relation to its investments Wyokak. Id. Importantly, Staff observed that under
6	PacifiCorp's revised PVRR(d) studies, the result was a positive benefit for continuing to operate
7	the Wyodak unit with the environmental retrofits at issue. <i>Id</i> .
8 9	(3) CUB's and Sierra Club's Presentations and Staff's and PacifiCorp's Respective Responses
10	Similar to its assertions with the other plants that CUB challenges, CUB notes that
11	PacifiCorp's PVRR(d) study in 2009 assumed a closure date of 2009 when the Company should
12	have modeled a later year. CUB/100, Jenks-Feighner/55-56. Staff agrees. However,
13	PacifiCorp's update to the PVRR(d) model using a January 1, 2014 closure date still shows a
14	significant positive result. PAC/1500, Teply/36. PacifiCorp further states that, in 2009 when it
15	performed the study, it was not aware of a scenario that would have suggested a later idling or
16	closure date, such as 2018 or 2020 as advocated for by CUB, which would have resulted in a
17	favorable outcome for ratepayers. <i>Id.</i> at 37.
18	CUB also ran a model that purports to show the net benefits of operating Wyodak
19	through 2015. CUB/100, Jenks-Feighner/55. PacifiCorp corrected errors in CUB's study at
20	Teply/1500, Teply37.
21	For its part, Sierra Club, while not contesting the overall prudence of the Wyodak
22	investments, suggests that PacifiCorp may only be requesting rate recovery for a small portion of
23	the Wyodak baghouse investments at this time in order to unfairly create a favorable prudence
24	determination for the yet-to-come additional investment costs. Sierra Club/100, Fisher/59-60.
25	CUB also makes the same general assertion. CIB/100, Jenks-Feighner/56.
26	

1	In response, PacifiCorp states that all Wyodak baghouse project costs are clearly included
2	in this case. PAC/1500, Teply/38. Staff also concluded that the alleged unreported additional
3	investments actually relate to the addition of a SCR which is not required, planned or expected.
4	Staff/1500, Colville/35.
5	(4) Staff's Conclusion ⁷
6	While Staff has concerns with the Company's decision making process identified and
7	discussed as "infirmities," Staff does not recommend a prudence disallowance for the Wyodak
8	investments at issue in this case.
9	F. Johnston 4
10	While CUB initially advocated for a prudence or used and useful disallowance for
11	Johnston 4 (see CUB/100, Jenks-Feighner/44-48), it now seems to have abandoned that request.
12	In their rebuttal testimony, CUB witnesses Jenks and Feighner now state CUB's modeling did
13	not demonstrate imprudence at Johnston 4. See CUB/200, Jenks-Feighner/41 and accompany
14	text at footnote 68. But, then CUB goes on to state that it still does not believe the approach
15	taken by PacifiCorp in performing its analyses was prudent or reasonable. CUB/200, Jenks-
16	Feighner/41. Sierra Club did not present any issues related to Johnston 4.
17	Staff is not entirely certain what CUB's final position is on the issue of a disallowance for
18	the Johnston 4 investments. In an abundance of caution, Staff will summarily review the original
19	issues CUB raised related to the plant and set forth Staff's and PacifiCorp's respective responses.
20	(1) PacifiCorp's Basic Presentation
21	The Johnston plant is a four-unit coal-fired plant located in Wyoming and is entirely
22	owned by PacifiCorp. PAC/500, Teply/47. PacifiCorp seeks recovery for \$104 million
23	investment costs incurred for an environmental retrofit project that will upgrade and improve the
24	
25	As noted earlier, to the extent CUB is raising the issue, Staff incorporates its discussion of the
26	"Boardman" early plant closure issue set forth in the Naughton 1&2 part of this brief as its response to the same issue for Wyodak.

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1	unit's "particulate matter" (PM) and SO2 controls. PAC/500, Teply/48. The project was
2	completed in 2010. Id. at 49.
3	PacifiCorp states that its original PVRR(d) analysis for Johnston 4, performed prior to
4	execution of the contract for the retrofits at issue in January 2008, supported continued operation
5	of the units with the retrofit investments. PAC/500, Teply/54-55. In response to CUB's
6	testimony, PacifiCorp re-ran the PVRR(d) for the plant using different assumptions consistent
7	with CUB's critiques and still arrived at a positive number for the unit. See PAC/1500,
8	Teply/32.
9	PacifiCorp asserts that the Johnston 4 investments were prudently incurred to meet
10	current, or expected, environmental regulations and obligations.
11	(2) Staff's Basic Response
12	Staff set forth its general findings about PacifiCorp's decision process infirmities, which
13	included PacifiCorp's decision process related to Johnston 4. See Staff/1500, Colville/5, 15-17
14	[set forth in detail earlier in this brief at (3)(B)(2)]. Nonetheless, Staff reviewed PacifiCorp's
15	analyses and concluded that PacifiCorp acted prudently in relation to its investments in the unit.
16	Id. Importantly, Staff observed that under PacifiCorp's revised PVRR(d) studies, the result was
17	a positive benefit for continuing to operate the Johnston 4 unit with the environmental retrofits a
18	issue. Id.
19	(3) CUB's Presentation and Staff's and PacifiCorp's Respective Responses
20	CUB's critique is similar to its presentation related to the other plants at issue in this case
21	allegations that the Company modeled closure of the plant before it was necessary to do so, not
22	studying alternative resources to market purchases, not using a later closure date for its
23	modeling, and using a 2007 forward price curve for investments not used and useful until 2012.
24	See generally CUB/100, Jenks-Feighner/44-48. In response, PacifiCorp states, as mentioned
25	above, that its revised PVRR(d) analysis made in response to CUB's critique, still shows a
26	significant positive benefit. PAC/1500, Teply/32. Using updated forward price curves as CUB

- 1 suggests would not have a major impact on the Company's analysis. *Id.* at 33-34. PacifiCorp
- 2 further states that when it performed the study in 2008, it was not aware of a scenario that would
- 3 have suggested a later closure date (such as 2012, 2015, 2017 or 2020 as advocated for by CUB)
- which would have resulted in a favorable outcome for ratepayers. *Id.* at 34.8 4
- 5 In conclusion, while Staff has concerns with the Company's decision making process
- identified and discussed as "infirmities," Staff does not recommend a prudence disallowance for 6
- 7 the Johnston 4 investments at issue in this case.

4. MONA-TO-OQUIRRH TRANSMISSION LINE PROJECT

A. PacifiCorp's Presentation

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9

- 10 PacifiCorp proposes to include the costs to plan and build a 500/345kV transmission
- 11 project known as the Mona-to-Oquirrh Project (Project) and related projects. More specifically,
- 12 as stated in the Company's opening testimony, the projected costs the Company includes in its
- 13 case are \$380.6 million for the Project, \$54.7 million for the Clover substation, and \$46.4 million
- 14 for upgrades at the Terminal substation. Both the Clover and Terminal substations are scheduled
- to go into service prior to the 2013 test year. See generally PAC/700, Gerrard/3. The overall 15
- 16 Oregon revenue requirement for the Project is \$13.1 million. PAC/1100, Dalley/14. The Project
- 17 is expected to go into service in the second quarter of 2013. PAC/700, Gerrard/6. The Project
- 18 will be located in Utah. *Id.* at 4-5. The test period in this case is the twelve months ending on
- 19 December 31, 2013 (i.e. a 2013 test year). PAC/1100, Dalley/5. The Company requested
- 20 approval to file a separate tariff rider to begin recovery of the Project investment costs when it
- 21 goes into service in 2013. PAC/1300, Griffith/15; PAC/1304.
- 22 In its July reply testimony, the Company clarified that the Oregon-allocated revenue
- 23 requirement is approximately \$12.6 million and that the expected in-service date is May 2013.
- 24 PAC/1600, Dalley/2. The Company also noted that, while the Project will not be in service

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²⁵ ⁸ As noted earlier, to the extent CUB is raising the issue, Staff incorporates its discussion of the "Boardman" early plant closure issue set forth in the Naughton 1&2 part of this brief as its 26

response to the same issue for Johnston 4.

1	before the conclusion of the rate case, it will be in service during the test year and, by means of
2	the tariff rider, recovery of costs will not begin until that occurs. <i>Id.</i> at 4-5. PacifiCorp asserts
3	this circumstance avoids notions of "used and useful," "regulatory lag," and "cherry picking."
4	Id. at 6, 8-9. Finally, PacifiCorp sets forth examples where the Commission allowed the rate
5	treatment it is seeking for the Project. <i>Id.</i> at 7-8.
6	The Stipulating Parties agreed to reserve the issue of whether it is appropriate to include
7	the Project in rate base when it comes into service in 2013. The Stipulating Parties reached other
8	agreements in relation to the Project. See generally Partial Stipulation at 5-7; Exhibit Stipulating
9	Parties/100 at 7-9.
10	For the following reasons, Staff, CUB and ICNU (Opposing Parties) oppose PacifiCorp's
11	request to include the Project in rate base, and similarly urge the Commission to the related tariff
12	rider.
13	B. Opposing Parties' Position
14	The Opposing Parties collectively present three reasons in support of their
15	recommendation that the Commission not allow the Project to be added to rate base through a
16	separate tariff filing in 2013 as the Company proposes. First, under the "used and useful"
17	standard set forth in ORS 757.355, investments should be completed and used and useful in
18	order to be allowed in rate base. Rates at the conclusion of this proceeding are expected to be
19	effective as of January 1, 2013 but the Project will not be placed in service until May 2013. As
20	such, the Project should not be placed in rates because it will not be used and useful before the
21	conclusion of the rate case proceeding. Staff/1000, Johnson/2; CUB/200, Jenks-Feighner/45;
22	ICNU/100, Deen/24.
23	Second, the principle of "regulatory lag" recognizes that, between rate cases, events
24	occur that may help or harm either the company or its customers. Consistent with this concept, it
25	is highly unusual to change rates for these "between cases" events. They are expected, on
26	balance, to even out over time. While PacifiCorp is correct that the Commission has allowed for

1	between-case events in certain past situations, that is viewed as the exception to the rule, not the
2	rule itself. The Project here is just one of the "usual" interim events and as such it should be
3	excluded from rate base under the principle of regulatory lag. Staff/1000, Johnson/3; ICNU/100,
4	Deen/24; CUB/200, Jenks-Feighner/45. ICNU further notes that, should PacifiCorp believe
5	application of this principle is somehow unfair, any such lag will likely be very short-lived in
6	light of the fact that the Company has been filing annual rate cases recently. ICNU/100,
7	Deen/24.
8	Finally, "cherry picking" is a concept related to regulatory lag. Under this notion,
9	PacifiCorp would naturally be expected to select only those events that are beneficial to its
10	shareholders for "extra rate case" recognition. The Commission should not allow this to occur.
11	Staff/1000, Johnson/3. ICNU points out that PacifiCorp is not proposing to pass back to its
12	ratepayers any between rate case savings, including lower capital costs, that may have occurred
13	in the past or may occur at the time the Project is placed in service. ICNU/100, Deen/24.
14	5. STAFF'S RECOMMENDED POWER COST ADJUSTMENT MECHANISM
14	
15	(PCAM) STRUCTURE
15	(PCAM) STRUCTURE
15 16	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for
15 16 17	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in
15 16 17 18	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in Order No. 07-015. Specifically, Staff recommends that PacifiCorp have a PCAM with the
15 16 17 18 19	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in Order No. 07-015. Specifically, Staff recommends that PacifiCorp have a PCAM with the following elements:
15 16 17 18 19 20	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in Order No. 07-015. Specifically, Staff recommends that PacifiCorp have a PCAM with the following elements: 1) Neither refunds nor collections if earnings are within 100 basis points of PacifiCorp's authorized return on equity (ROE). 2) Asymmetrical dead band defined by 150 basis points of pre-tax ROE in the case of
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15 16 17 18 19 20 21 22	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in Order No. 07-015. Specifically, Staff recommends that PacifiCorp have a PCAM with the following elements: 1) Neither refunds nor collections if earnings are within 100 basis points of PacifiCorp's authorized return on equity (ROE). 2) Asymmetrical dead band defined by 150 basis points of pre-tax ROE in the case of potential collections and 75 basis points of pre-tax ROE in the case of potential
15 16 17 18 19 20 21 22 23	 (PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in Order No. 07-015. Specifically, Staff recommends that PacifiCorp have a PCAM with the following elements: 1) Neither refunds nor collections if earnings are within 100 basis points of PacifiCorp's authorized return on equity (ROE). 2) Asymmetrical dead band defined by 150 basis points of pre-tax ROE in the case of potential collections and 75 basis points of pre-tax ROE in the case of potential refunds. 3) "90-10" sharing between customers and the Company for amounts outside the dead band, i.e. the Company retains a 10 percent interest in net power cost (NPC)
15 16 17 18 19 20 21 22 23 24	(PCAM) STRUCTURE Staff recommends a Power Cost Adjustment Mechanism (PCAM) structure for PacifiCorp that mirrors the structure established for Portland General Electric Company (PGE) in Order No. 07-015. Specifically, Staff recommends that PacifiCorp have a PCAM with the following elements: 1) Neither refunds nor collections if earnings are within 100 basis points of PacifiCorp's authorized return on equity (ROE). 2) Asymmetrical dead band defined by 150 basis points of pre-tax ROE in the case of potential collections and 75 basis points of pre-tax ROE in the case of potential refunds. 3) "90-10" sharing between customers and the Company for amounts outside the dead

1	4) Earnings test. In the case of actual NPC being greater than forecast, the Company can collect from customers only up to a level at which ROE is 100 basis points less than authorized. Similarly, in the case of actual NPC being less than forecast, the
2	Company must refund to customers only down to a level at which ROE is 100 basis points greater than authorized.
4	A. The Practical Operation of Staff's Recommended Structure.
5	If the Company's ROE for the year in question is within 100 basis points of authorized
6	ROE, there will be neither refunds nor collections.
7	If earnings are more than 100 basis points (either higher or lower) from authorized, then
8	the first step is to compute the Oregon NPC Difference for the calendar year in question.
9	PacifiCorp will calculate actual NPC on a unit (per MWh) basis and compute the difference
10	between actual unit NPC and forecast unit NPC (taken from the Company's final Generation and
11	Regulation Initiative Decision Tools (GRID) model run for the year in question). The product of
12	the difference between forecast and actual unit NPC and actual system load will be designated as
13	the System NPC Difference. The Oregon NPC Difference will then be the System NPC
14	Difference, multiplied by the Oregon allocation factor for NPC. The Oregon NPC Difference is
15	positive if actual NPC are greater than forecasted, negative if actual NPC are less than
16	forecasted.
17	Next, the dead band will be defined by an Upper Bound and a Lower Bound. The Upper
18	Bound, which is relevant to positive Oregon NPC Differences, is defined as 150 basis points of
19	pre-tax ROE from the Company's last general rate case. The Lower Bound, which is relevant to
20	negative Oregon NPC Differences, will be defined as 75 basis points of pre-tax ROE from the
21	Company's last general rate case. In the case of a positive Oregon NPC Difference, the
22	Collection basis will be the difference between the Oregon NPC Difference and the Upper
23	Bound of the dead band. In the case of a negative Oregon NPC Difference, the Refund Basis
24	will be the difference between the absolute value of the Oregon NPC Difference and the Lower
25	Bound of the dead band. Amounts within the dead band will be subject to neither refund nor
26	collection.

1	Finally, 90-10 sharing and ROE-based limits will be applied. In the case of a positive
2	Oregon NPC Difference, 90 percent of the Collection Basis will be eligible for collection from
3	customers. In the case of a negative Oregon NPC Difference, 90 percent of the Refund Basis
4	will be eligible for refund to customers. In other words, the Company will retain 10 percent of
5	the differences outside of the dead band. Then PacifiCorp can collect 90 percent of the
6	Collection Basis only up the point at which earnings are 100 basis points below authorized ROE.
7	Similarly, the Company must refund 90 percent of the Refund Basis only down to a point at
8	which earnings are 100 basis points above authorized ROE. To be consistent with the Order No.
9	07-015, treatment of collections for PGE, amortization of amounts deferred for collection under
10	the PCAM for PacifiCorp should be limited in any one year to six percent of PacifiCorp's
11	Oregon revenues for the preceding calendar year.
12	B. The criteria necessary for a good PCAM.
13	A good PCAM should meet certain criteria. Staff's criteria for a good PCAM are (See
14	Exhibit Staff/500, Schue/13-14):
15	1) A PCAM should trigger refunds or collections only if differences between forecast
16	and actual NPC are large enough to significantly impact earnings, either positively or negatively. A company does not need assistance when actual NPC are greater than forecast, but not greatly so, or when earnings are acceptable in spite of higher power
17	costs. Similarly, when actual NPC are lower than forecast, a company should be
18 19	allowed to keep the difference if it is not too great, or earnings are not too high, even considering lower power costs.
20	2) A PCAM should be revenue neutral. Over a period of many years, payments to
21	customers should approximately equal collections from customers.
22	3) A PCAM should always provide an incentive to keep costs down, regardless of the size of the difference between forecast and actual NPC.
23	Much of the discussion surrounding PCAMs for PGE and Idaho Power Company (Idaho)
24	in Order Nos. 07-015 and 08-238 concern making sure that these PCAMS meet very similar
25	criteria.
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2	The first criterion is that the mechanism should only trigger when the Company's ROE is
3	significantly above or below its authorized level. Staff's provision that nothing will occur if
4	earnings are within 100 basis points of the Company's authorized ROE meets this criterion.
5	Staff's structure further meets this criterion through the provision that collections are made only
6	up to the point at which earnings are 100 basis points below authorized ROE and refunds are
7	made only down to the point at which earnings are 100 basis points above authorized ROE.
8	The second criterion is that the mechanism should be revenue neutral. Over a period of
9	many years, collections from customers should approximately equal refunds to customers.
10	Staff's asymmetrical dead band meets this criterion. Various components of NPC, and hence
11	overall NPC, can go up more than they can go down. For example, actual market electric prices
12	can be much higher than forecasted, but they generally cannot go below zero. Therefore, a
13	symmetrical dead band would result in more collections than refunds over a period of many
14	years. Staff's asymmetrical dead band would result in a better balance between collections and
15	refunds.
16	The third criterion is that the Company should always have an incentive to keep NPC as
17	low as possible. Staff's sharing structure, under which the Company retains 10 percent of the
18	exposure to NPC differences in the event of refunds or collections, meets this criterion. Without
19	this provision, the Company would have no incentive to keep incremental NPC as low as
20	possible when it knows it will be refunding or collecting from customers any NPC differences.
21	D. Senate Bill 838 (SB 838) Does Not Support a Zero-Dead Band PCAM.
22	PacifiCorp claims SB 838 supports a zero dead band PCAM structure. Context for the
23	Company's argument is as follows: In substantial part due to minimum renewable resource
24	requirements, wind has become a much greater part of its resource portfolio. Wind integration
25	costs themselves are difficult to estimate, and differences between forecast and actual integration
26	costs are impossible to measure. SB 838 requires that the Company be allowed full recovery of

1	renewable resource costs, including those for integrating wind resources. Wind integration costs
2	are not currently being precisely recovered because of differences between actual costs and those
3	included in the GRID forecast used to set rates. The Company views this as inconsistent with SE
4	838, stating "SB 838 specifically contemplates the use of an automatic adjustment mechanism,
5	like a PCAM, to ensure timely and full recovery of prudent costs. As explained below, neither
6	the Company's [Transition Adjustment Mechanism] TAM nor its [Renewables Adjustment
7	Clause] RAC currently provide for timely and full recovery of these costs." See PAC/900,
8	Duvall/15, at lines 17-20.
9	The Company then advocates a zero-dead band PCAM, which would pass through to
10	customers all differences between forecast and actual NPC, as a remedy for the imperfect
11	collection of actual wind integration costs. The difference between total forecast and total actual
12	NPC would include the difference between forecast and actual wind integration costs, thereby
13	meeting the requirements of SB 838 for renewable resource cost recovery.
14	There are several problems with this argument. First, wind integration costs are a small
15	part of PacifiCorp's overall NPC. Expected wind output is approximately 9 percent of the
16	Company's load. Wind integration costs, as modeled in GRID, are approximately \$26 million
17	on a system basis. This is less than 2 percent of the 2013 system NPC forecast of approximately
18	\$1.5 billion. The Oregon share of these wind integration costs, approximately \$6.5 million, is
19	less than one half of one percent of the Company's Oregon revenue requirement.
20	Second, PacifiCorp provides evidence that, due to large fluctuations in wind output from
21	hour to hour, wind integration costs vary greatly, and are very difficult to forecast, from hour to
22	hour. The Company then uses this hour to hour volatility as a basis for the conclusion that it is
23	not possible to accurately forecast wind integration costs on an annual basis, such as for a TAM
24	filing. This is incorrect reasoning. Wind integration studies use statistical and other
25	methodologies to translate the sometimes large hour to hour fluctuations into reasonably accurate
26	annual cost estimates. The Company made use of its 2010 Wind Integration Resource Study

1	(Wind Study included in its 2011 Integrated Resource Plan) to model wind integration costs in
2	the GRID run supporting the 2013 TAM filing (Docket UE 245). In that Docket, the Company
3	stated that it "continues to believe that the level of reserves required to integrate wind generation
4	net of system load, as identified in the Wind Study is appropriate." See UE 245 PAC/100,
5	Duvall/15, at lines 13-15.9
6	On the other hand, PacifiCorp states that its GRID modeling does not include the full cost
7	of wind integration. See PAC/2200. This implies two things. 1) The Company needs to decide
8	whether it believes GRID includes an estimate of all wind integration costs or not. 2) If the
9	Company believes that GRID does not include all costs from the Wind Study, it should improve
10	its GRID modeling, rather than requesting a zero-dead band PCAM.
11	Third, the argument is very esoteric, as differences between forecast and actual wind
12	integration costs cannot be measured, as "everything depends on everything else" in NPC. The
13	Company acknowledges this fact, stating that "a modeled redispatch of the Company's system
14	cannot reasonably simulate what would have occurred if wind, low-impact hydro, or solar were
15	not present in real time." See PAC/900, Duvall/26, at lines 6-9.
16	These problems combine to invalidate the Company's argument that problems with wind
17	integration costs call for a zero-dead band PCAM structure. Differences between forecast and
18	actual wind integration costs, the source of the Company's concern, cannot even be measured.
19	Furthermore they are small, relative to wind integration costs themselves, given the progress that
20	has been made in wind integration studies. Specifically, the Company's Wind Study provides
21	the basis for a reasonably accurate forecast of wind integration costs. Finally, overall wind
22	integration costs are less than two percent of NPC, and, on an Oregon basis, less than one half of
23	one percent of the Company's revenue requirement. Trying to remedy small, and in some
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26	⁹ Imposing reserve requirements is the primary way in which the Company includes the cost of integrating, i.e. covering the fluctuations of, wind output in its GRID modeling.

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1	respects esoteric, problems with wind integration costs by allowing a straight pass-through to
2	customers of all prudently incurred NPC would be SB 838 overkill.
3	E. Variances between Forecast and Actual Wind Value Variances Do Not Support
4	a Zero-Dead Band PCAM:
5	PacifiCorp discusses the differences between GRID forecast and actual values of wind
6	output for the years 2007 through 2011. See PAC/1800 pages $4-6$. The Company summarizes
7	the differences and concludes that the differences support a zero-dead band PCAM structure,
8	again citing SB 838's provisions for recovery of all prudently incurred renewable resource costs.
9	See PAC/1801. The Company's approach is incomplete and does not support its conclusions.
10	Wind output value variances are driven by two factors, market price variances and wind
11	output variances. For the five-year period from 2007 through 2011, overall market price
12	variances were 23 percent of forecast, whereas overall output variances were only 3 percent of
13	forecast. See PAC/1801. In other words, output was generally close to expected, but market
14	prices were substantially different (in this period, lower) than expected. In each of the five years
15	actual market prices were substantially lower than those forecast via the forward curves used in
16	the GRID models to set rates for that year. These price differences, caused by actual market
17	prices decreasing "ahead" of the forward curves, are then the dominant factor driving the
18	Company's wind output value difference calculations.
19	These calculations are, however, not meaningful. For a representative year, GRID
20	included expected wind output as a means of meeting customer load. For Company-owned wind
21	resources, GRID included expected output and no fuel costs. For contractual wind, GRID
22	included expected output and (generally per MWh) contractual costs. Then, in the actual year,
23	wind output was approximately the same as expected, but market prices were lower than
24	expected. However, these lower market prices do not interact with wind output in a way that
25	changes either the Company's costs or its revenues. Part of customer load is still met with the
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1	wind output, and customers' rates do not change. Hence, the Company's revenues do not
2	change. The Company incurs no fuel costs for its own wind resources, consistent with GRID.
3	Finally, the Company incurs contractual wind costs equal to the GRID forecast, as
4	contractual wind output is equal to the forecast.
5	A more overall system approach reaches the same conclusion. The Company focuses on
6	the value of wind output variances, which is only one element in a complete picture. Actual
7	market prices being lower than forecast results in variances in all sorts of things, not only the
8	value of wind output. Therefore, a more complete conceptual framework is the following. It is
9	sometimes useful to think of valuing all NPC elements at market prices. Without any generating
10	resources, the cost to serve load is simply the market value of the power required to do so. Then
11	the Company's generating resources can be viewed as cost offsets, i.e. customers need to be
12	credited with the market value of the output, less the fuel cost (zero in the case of renewable
13	resources), of these generating resources. Various other firm purchases and sales already set at
14	the time of the Company's final November GRID run need to be valued in a similar way –
15	market value of power, minus costs, in the case of purchases; revenue minus market value of
16	power in the case of sales. What is then left over is a net open position, short-term market-priced
17	purchases net of short-term market-priced sales.
18	In PacifiCorp's case, the net open position is a surplus, as, in GRID terminology, system
19	balancing sales are greater than system balancing purchases. This net (long in PacifiCorp's case)
20	position, to the extent not hedged, is what is exposed to differences between the forward curve-
21	based market prices used in the GRID forecast and actual market prices. This net unhedged
22	position is then what is relevant to discussions concerning the impact of variances between
23	GRID's forward curve-based market prices and actual market prices. However, individual
24	components of the overall net position are not, on a stand-alone basis, relevant. In particular, the
25	differences between the forecast and actual values of wind output calculated in Exhibit
26	PAC/1801 are not relevant.

1	F. 2007-2011 Results Do Not Justify a Zero-Dead Band PCAM Structure
2	PacifiCorp presents data demonstrating that GRID under-forecast NPC for each of the
3	five years from 2007 through 2011. The average annual under-forecast amount was
4	approximately \$100 million on a system basis, and \$25 million on an Oregon-allocated basis.
5	See Exhibit PAC/900, Table 8, page 16. The Company also demonstrates that, under Staff's
6	recommended PCAM structure, the dead band would have precluded any collections from
7	customers, as under-forecast amounts would have been within the dead band in each of the five
8	years. See PAC/1800, table 4, page 12 and PAC/2200, table 4, page 3. It is the Company's view
9	that this data supports a dead band of size zero. Staff disagrees with this conclusion for two
10	reasons.
11	First, results for 2007 through 2011 may not be representative of results over a long
12	period of time. For example, for the first six months of 2012, actual unit NPC were slightly
13	<u>lower</u> than in the GRID forecast used to set current rates. Second, under-recovery amounts
14	shown in the various tables cited above were always within a range that could be absorbed by the
15	Company without unduly affecting earnings. The worst annual earnings impact was less than
16	120 basis points. The Oregon-allocated under-forecast amounts shown on each of the Table 4's
17	cited above are as high as approximately \$34 million, which might seem high in an absolute
18	sense. However, the under-forecast amounts need to be considered in the context of (Oregon)
19	authorized pre-tax earnings, which were almost \$290 million in 2011. 10
20	G. The Company's Alternative Suggestion of a \$14 Million/\$7 Million Dead Band is
21	Inappropriate.
22	Although the Company strongly advocates a dead band of size zero, it does discuss a
23	dead band based on two factors - the dead band which currently applies to PGE and the
24	Company's Oregon-allocated NPC relative to PGE's. Order No. 10-478 approved a Stipulation
2526	The Company's figure for 150 basis points of 2011 pre-tax earnings is \$43.2 million (<i>See</i> PAC/2200, Duvall/4, Line 10). Given an authorized ROE of approximately 10 percent, authorized earnings were then \$43.2 million x 1000/150, or \$288 million.

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1	which changed PGE's dead band structure from 150/75 basis points to \$30 million/\$15 million.
2	PacifiCorp then notes that its Oregon NPC are approximately one half of PGE's. Therefore, the
3	Company suggests that an alternative to the zero dead band it advocates is a dead band
4	approximately half the size of PGE's, or a \$14 million/\$7 million structure. See PAC/1800,
5	Duvall/4, at lines 16-18.
6	Staff disagrees with this construct for two reasons. First, PGE's change from a basis
7	point to a fixed dollar dead band structure was the result of a stipulation. PGE gave up some
8	items in order to obtain the fixed dollar dead band. PacifiCorp is not offering to give up
9	anything to obtain a fixed dollar, rather than a basis point determined, dead band. Second, a
10	dead band should be based on a company's ability to absorb cost variances, not on the size of its
11	NPC. A Company's ability to absorb cost variances is a direct function of its rate base. 11
12	PacifiCorp's Oregon-allocated rate base is approximately the same size as PGE's. Therefore,
13	PacifiCorp should have a dead band of approximately the same size as PGE would have under a
14	150/75 basis point structure. It should be noted that Idaho's dead band, consistent with Order
15	No. 08-238, is wider than the 150/75 basis point structure given to PGE in Order No. 07-015.
16	Specifically, Idaho's dead band is bounded by 250 basis points for higher than forecast costs and
17	125 basis points for lower than forecast costs.
18	H. Rate Setting Policy Considerations.
19	In opposing Staff's dead band recommendation, the Company states that "[r]ates are not
20	set on a utility's ability to withstand losses. Rates are set to allow a utility to recover its
21	prudently incurred costs. Building a deadband around a utility's presumed capacity to absorb
22	losses is inconsistent with this basic ratemaking goal." See PAC/2200, Duvall/6, at lines 10-13.
23	The Company confuses basic rate setting and true-up mechanisms, such as a PCAM.
24	Rates for a particular test year are based on the best forecast of prudently incurred costs for that
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26	¹¹ Authorized earnings are the direct measure, but they are tied to rate base through stable (for

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relevant one-year periods) tax rates and authorized capital structures and rates of equity return.

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1	year. This does not depend on dead bands or other parameters of true-up mechanisms. The
2	sequence of events is the following. First, rates are set based on the best forecast of costs to be
3	prudently incurred in the test year. Then a company incurs actual costs for that year. Finally, if
4	a true-up mechanism is in place, forecast and actual costs are compared, and the difference is
5	allocated between customers and shareholders. Dead bands are an example of a true-up
6	mechanism allocation factor. They do not interfere in any way with setting rates based on the
7	best available forecast of costs to be prudently incurred in the test year.
8	I. Sharing as an Incentive for Cost Minimization.
9	Staff advocates 90/10 sharing outside of the dead band, as having a 10 percent share of
10	any cost variances will incent the Company to keep costs as low as possible, even though most
11	cost variances are being passed on to customers. The Company disagrees, stating the "A
12	prudence review of the actions taken by the Company as it responds to these uncontrollable
13	factors [such as changing market prices] is the only effective tool to incentivize prudent, cost-
14	effective system operation. Artificial sharing bands do not incentivize the Company to be 'more
15	prudent because the sharing cannot be avoided no matter how prudently the Company acts." See
16	PAC/2200, Duvall/19, at lines 19-23.
17	The Company's statement that only the threat of a disallowance through a prudency
18	review will incent it to keep NPC as low as possible is unduly negative. A prudency review is
19	time and work intensive, and would only be untaken in the case that the Company's actions
20	might have resulted in large unnecessary increases in NPC. However, most of the Company's
21	power cost operational decisions result in small changes in NPC. Staff's sharing structure
22	insures that the Company will make these small operational decisions as well as possible, as the
23	Company will retain 10 percent of the results of those decisions in the case of cost variances
24	being largely passed on to customers, i.e. when cost variances are outside of the dead band and

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payments to or collections from customers are not precluded by the earnings test. Again, the

1	Company's position that only the threat of a prudency disanowance will make it operate its
2	system in the least cost manner is unduly negative.
3	J. Need for Annual TAM Proceedings.
4	The Industrial Customers of Northwest Utilities (ICNU) have argued against annual
5	TAM filings, in substantial part because they are time and resource intensive. However, Staff
6	believes that annual filings are necessary to ensure that power cost rates are set to match actual
7	costs as accurately as is possible. This is particularly true in the context of a PCAM.
8	Natural gas and market electric prices can vary substantially from year to year.
9	Contractual prices for coal and firm power purchases and sales can change as well. Finally, the
10	Company is obligated to purchase the output of new Public Utility Regulatory Policies Act
11	(PURPA), which are priced substantially above the Company's average net power costs. It
12	would be unfair to systematically subject the Company to "PURPA regulatory lag."
13	A PCAM works with differences between forecast and actual NPC on an annual basis. It
14	does not make sense to potentially increase these differences by setting the forecast less
15	accurately than is possible and the most accurate option is an annual forecast. Although the 2013
16	TAM forecast is almost the same as the 2012 TAM forecast, this is an exception. Power prices
17	should be based on the most recent information available, particularly in the context of a PCAM.
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6. CONCLUSION 1 For the reasons stated, the Commission should issue an Order consistent with Staff's 2 3 recommendations for all remaining contested issues. 4 DATED this 4th day of October 2012. 5 Respectfully submitted, 6 ELLEN F. ROSENBLUM 7 Attorney General 8 s/Michael T. Weirich 9 Michael T. Weirich, #82425 10 Jason W. Jones, #00059 Assistant Attorneys General 11 Of Attorneys for Staff of the Public Utility Commission of Oregon 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

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