

Steve Michel
Western Resource Advocates
409 E. Palace Ave. #2
Santa Fe NM 87501
505-820-1590

**BEFORE THE PUBLIC SERVICE
COMMISSION OF UTAH**

In the Matter of the Application of
Rocky Mountain Power for Approval of its
Proposed Energy Cost Adjustment Mechanism

Docket No. 09-035-15

PREFILED DIRECT TESTIMONY OF NANCY L KELLY

Phase II, Stage 1

ON BEHALF OF

WESTERN RESOURCE ADVOCATES

AND

UTAH CLEAN ENERGY

June 16, 2010

1 **I. INTRODUCTION**

2 **Q: Please state your name, employer and present position.**

3 A: My name is Nancy L Kelly. I am employed by Western Resource Advocates (WRA) in
4 its Energy Program as a Senior Policy Advisor.

5 **Q: Have you previously filed testimony in this docket?**

6 A: Yes. I filed direct testimony on November 16, 2009 and Surrebuttal Testimony on
7 January 5, 2010 in Phase I of this docket.

8 **Q: On whose behalf are you submitting testimony?**

9 A: WRA and Utah Clean Energy (UCE).

10 **Q: What is the purpose of your testimony?**

11 A: In its testimony in the first phase of this docket, the Office of Consumer Services opposed
12 an ECAM as not in the public interest, but recommended that if the Commission were to
13 approve a second phase to examine ECAM design, issues of market reliance and natural
14 gas fuel costs must first be addressed. In its Order issued February 8, 2010, the
15 Commission initiated a second phase and expressed interest in developing a further
16 record in the areas of market reliance and natural gas hedging. A schedule was
17 determined that addresses these issues separate from other ECAM design issues.

18 The purpose of my current testimony is to address issues related to market reliance and
19 natural gas resources in the larger context of integrated resource planning and to offer the

20 Commission a mechanism to put teeth into its IRP orders and to mitigate the biased
21 incentives/disincentives of an ECAM on long-run planning.

22 **Q: Please summarize your recommendation.**

23 A: In conjunction with Commission approval of any ECAM design, I recommend the
24 Commission require the Company to meet energy efficiency and renewable resource
25 targets and limit the Company's use of the short-term wholesale power market for
26 capacity purposes.¹ Such targets and limits would be set consistent with the portfolio that
27 best manages risk and uncertainty as determined through the integrated resource planning
28 process using the Commission's three-step approach. This approach is consistent with
29 the guidance provided to the Company in Docket Nos. 07-2035-01, 07-035-94, and 09-
30 2035-01.

31 **II. SUBOPTIMALITY OF INTEGRATED RESOURCE PLANNING**

32 **Q: Do you agree with the Office of Consumer Services that market reliance and natural**
33 **gas hedging are threshold issue that must be addressed prior to the implementation**
34 **of any ECAM design?**

35 A: Yes, but more fundamentally, integrated resource planning must be addressed and a
36 mechanism put into place to assure that customers benefit from least-cost, least-risk
37 planning prior to assuming the full cost responsibility of PacifiCorp's long-run planning
38 decisions.

¹ Any ECAM design must include a meaningful sharing of risk. We will address this aspect of an ECAM in the next step of Phase II.

39 As I understand it, the Office's reasons for singling out the market and natural gas fuel
40 cost components of NPC is because these two cost components are particularly risky as
41 identified in PacifiCorp's integrated resource planning processes, and the Company's
42 resource plans have included more market and natural gas resources than planning
43 studies indicate is optimal. If an ECAM is implemented, the actual net power costs of
44 risky resources will be immediately assigned to customers instead of being paid by the
45 Company and its shareholders between rate cases as is currently done.

46 This Commission is aware of current concerns with the Company's chosen resource
47 acquisition plan. In its April 1, 2010 order acknowledging the 2008 IRP, the
48 Commission stated: "we are not convinced the Preferred Portfolio is the optimal
49 portfolio," and the Commission made clear "acknowledgement does not guarantee
50 favorable ratemaking treatment of future resource acquisition decisions."²

51 Further, the Commission did not acknowledge the previous resource plan, IRP 2006. It
52 concluded:

53 [T]his IRP has not adequately adhered to our guidelines requiring
54 consideration of all resources on a consistent and comparable basis, a link
55 to the strategic business plan to ensure customer benefits of IRP, the
56 selection of the optimal set of resources given the expected combination of
57 costs, risk and uncertainty, and different resource acquisition paths for
58 different economic circumstances with a decision mechanism to select
59 among and modify these paths as the future unfolds.³

60 However, the Commission may be less aware that these concerns are not new but date to
61 the Commission's early involvement in PacifiCorp's integrated resource planning.

² Public Service Commission, Report and Order, *In the Matter of the Acknowledgement of PacifiCorp's Integrated Resource Plan*, Docket No. 09-2035-01, April 1, 2010, p. 58.

³ Public Service Commission, Report and Order, *In the Matter of the PacifiCorp 2006 Integrated Resource Plan*, Docket No. 07-2035-01, February 6, 2008, pp. 43-44.

62 Comments filed by the Office of Consumer Services (then Committee of Consumer
63 Services) December 21, 2001 in Docket No. 98-2035-05 are instructive. I have chosen to
64 quote at length because the comments demonstrate that the pattern that has concerned
65 regulators in the last two IRP cycles is long-standing and unlikely to be resolved in the
66 IRP context.

67 Of the directives included in the Commission Orders and listed above, PacifiCorp
68 complied fully with but one. ... The directives with which PacifiCorp did not
69 comply as well as certain violations of the IRP Standards and Guidelines are
70 discussed below.

71 3.1.1 Consistency Between the IRP Action Plan and the Company's Strategic
72 Business Plan

73 The directive that the Company's internal business plan be consistent with the
74 IRP comes from both the IRP Standards and Guidelines and the RAMPP-5
75 Order. The Standards and Guidelines state: "The Company's Strategic Business
76 Plan must be directly related to its Integrated Resource Plan."⁴ The Commission
77 reiterated this directive in the RAMPP-5 Order stating that RAMPP-6 "must
78 include a section that demonstrates the consistency of the two plans."⁵ The intent
79 of the Orders is to assure that PacifiCorp not only plans to meet the resource
80 needs of its customers in a least-cost manner but that it implements the plan.

81 The Committee believes that PacifiCorp has intentionally violated the intent of
82 the Commission orders regarding consistency. Although the Committee
83 recognizes the relation of the action plan to the Company's strategic business
84 plan, the connection appears opposite regulatory intent. The Company appears to
85 have been positioning for a deregulated environment in which it would not have
86 to plan for regulated load for at least the past two RAMPP cycles.⁶ PacifiCorp's
87 internal business plan appears to have been to avoid acquiring additional
88 regulated resources.⁷

89 This assessment is supported by PacifiCorp's lobbying activity at the Utah
90 Legislature in the 1997-1998 time period; by the assumptions, modeling and
91 action plans of RAMPP-5 and RAMPP-6; by the Company's decision to cut

⁴ Public Service Commission, *Report and Order on Standards and Guidelines*, Docket No. 90-2035-01, p. 41.

⁵ Public Service Commission, *Report and Order on Acknowledgement of PacifiCorp's Integrated Resource Plan*, RAMPP-5, p 10.

⁶ Stranded cost recovery was the Company's expressed reason for its reluctance to acquire new resources during the RAMPP-5 cycle. Cost recovery resulting from differences in multijurisdictional allocations is the Company's current expressed reason for its reluctance to build.

⁷ During this timeframe PacifiCorp's deregulated arm was involved in two generation projects. The Klamath Cogeneration Project is a gas-fired 484 MW facility that began commercial operation in July of 2001. The Stateline Wind Project will produce 265 MW and will begin commercial operation sometime in late 2001.

92 personnel dedicated to integrated resource planning at the beginning of the
93 RAMPP-6 cycle;⁸ and most recently by PacifiCorp's Strategic Regulatory Project
94 (SRP) filing which would effectively deregulate generation and do away with
95 integrated resource planning permanently.

96 The effect of PacifiCorp's separation of the wholesale market for planning
97 purposes,⁹ load growth assumptions, and asymmetrical risk analysis in both
98 RAMPPs 5 and 6 have the effect of appearing to defer the need to acquire new
99 resources. However, the delay is on paper only, and Utah customers are now
100 paying for PacifiCorp's faulty business strategy.¹⁰

101 3.1.2 Wholesale Sales Consideration

102 The IRP Standards and Guidelines state "the Company will include in its
103 forecasts all on-system loads and those off-system loads which they have a
104 contractual obligation to fulfill."¹¹ By separating wholesale activities from retail
105 loads, RAMPPs 5 and 6 appear to sidestep the safeguard implicit in the
106 requirement and violate its intent.

107 Beginning with RAMPP-5, PacifiCorp began separating wholesale loads from
108 retail loads. PacifiCorp's generating resources were matched to retail loads.
109 Long-term wholesale sales obligations were matched with long-term wholesale
110 purchases, and the shortfall was purchased in the short-term market.
111 PacifiCorp's expressed purpose in changing its wholesale market modeling was
112 to assure that retail load growth, not existing sales contracts, triggered the
113 acquisition decision. This treatment defers the siting of new resources by the
114 model.

115 In partial response to the RAMPP-5 Order, which directs the Company to
116 recommend a method of accounting for ratepayer benefits while mitigating
117 wholesale market risk, and because of the Regulatory Advisory Group's concern
118 regarding the risk of relying on the short-term market to meet long-term sales
119 obligations, PacifiCorp modified its modeling for RAMPP-6. Generating
120 resources remain matched to retail load, and long-term wholesale sales
121 obligations remain matched with long-term purchases. However, generating
122 resources in excess of retail load are used to meet long-term sales until a 10%
123 reserve margin is reached. The model then goes to the short-term market to
124 purchase the rest. This modeling still defers the need to acquire new resources
125 but by less than previously.

126 The Committee does not believe that this change constitutes compliance with the
127 Commission Order. This treatment does not mitigate the risk associated with
128 short-term market purchases; it simply reduces the total purchased. Mitigating

⁸ Two staff members were assigned to the RAMPP-6 cycle, down considerably from past years. These staffers had a number of other responsibilities as well. See PacifiCorp, *PacifiCorp RAMPP-6 Advisory Group Meeting Minutes*, Friday, 19 February, 1999, p.1.

⁹ The Company did not make the same separation when seeking cost recovery!

¹⁰ Public Service Commission, *Report and Order*, In the Matter of the Application of PacifiCorp for an Increase in its Rates and Charges, Docket No. 01-035-01, 10 September, 2001, pp. 26-37.

¹¹ Public Service Commission, *Report and Order on Standards and Guidelines*, p. 42.

129 risk requires a hedge. Long-term contracts or physical plant would have hedged
130 the risk. The Company simply gambled that the short-term market would remain
131 a “two-cent” market indefinitely as it testified in the hearings regarding the sale
132 of Centralia.¹² Furthermore, the Company did not study the effect on reliability
133 as directed, and although reliability was maintained last year when the WSCC
134 spun into crisis, the cost was exorbitant.

135 The IRP Standards and Guidelines require that the IRP include “an analysis of
136 the off-system sales market to assess the impacts such market will have on risks
137 associated with different acquisition strategies.”¹³ The Company did not
138 undertake an adequate analysis. Instead, it made the competitive long-run
139 assumption about a manipulable short-term market that prices would be capped
140 by the cost of coal resources. Competitive long-run assumptions obscure the risk
141 inherent in short-term phenomena, and although the possibility of market power
142 being exercised was raised in the Regulatory Advisory Group, the Company
143 dismissed it.

144 The combination of violating the intent of the market separation directive with
145 the absence of an examination of its risk, or clarity concerning who would bear
146 the risk, has been a recipe for disaster. Reliance on short-term purchases has
147 proven not only risky but also costly. Owning adequate resources in the form of
148 physical plant or long-term contracts is the best hedge against market risk. The
149 Committee recommends that the Commission assure that the Company bears the
150 risk of relying on the short-term market to meet long-term obligations if it
151 continues such practices.

152 3.1.3 Risk Analysis

153 The IRP Standards and Guidelines order risk analysis. They state that the
154 Company should include: “an evaluation of the financial, competitive, reliability
155 and operational risks associated with various resource options and how the action
156 plan addresses these risks in the context of both the Business Plan and the 20-
157 year Integrated Resource Plan. The Company will identify who should bear such
158 risk, the ratepayer or the stockholder.”^{14, 15}

¹² PacifiCorp, *Prefiled Rebuttal Testimony of Rodger Weaver*, In the Matter of the Application for an Order Approving the Sale of its Interest in (1) the Centralia Steam Electric Generating Plant, (2) the Ratebased Portion of the Centralia Coal Mine, and (3) Related Facilities; for a Determination of the Amount of and the Proper Ratemaking Treatment of the Gain Associated with the Sale; and for an EWG Determination, Docket No. 99-2035-03, 15 January 2000, p. 3.

¹³ Public Service Commission, *Report and Order on Standards and Guidelines*, p. 42.

¹⁴ *Ibid.*, p. 44.

¹⁵ Although the Company claimed it would accept the risk of its strategy to rely on the short-term market in the IRP process, when the risks turned into actual costs, it asked customers to bear the burden. (RAMPP-5 minutes cf. rate case.)

159 The Company has repeatedly fallen short of this directive. The Commission did
160 not acknowledge RAMPP-3 for, among other reasons, “the lack of explicit risk
161 analysis,” and it ordered improvements to be incorporated in RAMPP-4.¹⁶

162 Although the Commission acknowledged RAMPP-4, it was not satisfied with the
163 risk analysis and ordered improvements to be incorporated in RAMPP-5. In its
164 Order acknowledging RAMPP-4, the Commission says: “The Commission finds
165 that RAMPP-4 has incorporated the improvements required by our March 7,
166 1995 Order, with the exception of an adequate risk analysis...”¹⁷ It further finds:
167 “the IRP should include comprehensive risk analysis, identifying the elements of
168 risk the Company faces, an appraisal of the interrelationships between those risk
169 elements and some attempt to quantify the risks associated with different
170 strategies that the Company is investigating.”¹⁸ It orders: “The Company will
171 conduct a comprehensive risk analysis of its potential strategies and will
172 recommend measures to insulate ratepayers from undue risks.”¹⁹

173 The Commission did not acknowledge RAMPP-5, in part because of the lack of
174 risk analysis, and again ordered improvements to be incorporated in RAMPP-6.
175 In its RAMPP-5 Order the Commission states: “We find that a quantitative risk
176 analysis must be performed in RAMPP-6 if that IRP is to qualify for Commission
177 acknowledgement.”²⁰

178 The risk of short-term wholesale market exposure was the most significant risk
179 identified by Utah Regulatory Advisory Group members in the RAMPP-6
180 process.²¹ A Division of Public Utilities (Division) representative had previously
181 made the point in the RAMPP-5 process. Ken Powell stated that if a majority of
182 the utilities in the west pursued PacifiCorp’s strategy of relying on the wholesale
183 market to meet total load obligations, rather than building, the surplus could
184 disappear rapidly. Short-term prices could skyrocket.²²

185 The Company responded to the directive to include a quantitative risk analysis in
186 RAMPP-6 by providing a case weighted by scenarios of interest to it. The
187 Company assigned the following weights: gas price scenarios 45%; load loss due
188 to deregulation 45%, environmental adders 10%; special interest scenarios 0%.²³

¹⁶ Utah Public Service Commission, *Report and Order on Acknowledgement of PacifiCorp’s Integrated Resource Plan, RAMPP-4*, In the Matter of the Acknowledgement of PacifiCorp’s Integrated Resource Plan, Docket No. 96-2035-01, p.8.

¹⁷ *Ibid.*, p. 19.

¹⁸ *Ibid.*, p. 20.

¹⁹ *Ibid.*, p. 22.

²⁰ Public Service Commission, *Report and Order on Acknowledgement of PacifiCorp’s Integrated Resource Plan, RAMPP-5*, p. 10.

²¹ This risk was identified in both RAMPPs 5 and 6. The risk became reality during the RAMPP-6 cycle. Regulatory Advisory Group members were very concerned to have this shortcoming addressed.

²² RAMPP-5 minutes.

²³ Special interest cases refer to scenarios requested by Regulatory Advisory Group members. For example, Utah representatives were not satisfied with the load growth forecasts and requested an additional run using historical

189 This response clearly does not meet the Commission's objective or any of its
190 orders regarding risk. It includes limited scenarios of concern to the Company,
191 the risk of higher gas prices and load loss. It does not address the risk of load
192 growth that is higher than modeled. It does not address the risk imposed by the
193 Company's reliance on the short-term wholesale market; in fact, it exacerbates
194 that risk by deferring the perceived need to build through the load loss
195 assumption. It placed no weight on any of the special interest scenarios. Finally
196 no actual risk analysis was undertaken.²⁴

197 All four Utah representatives made similar comments and expressed similar
198 concerns with varying levels of outrage at the 9 March 2001 Regulatory
199 Advisory Group meeting evaluating the draft report. No change was made for
200 the final report.

201 The Committee believes the Company's pattern of disregard of Commission
202 orders is intolerable. When the Company repeatedly disregards orders that could
203 protect it and its customers, it must bear the full cost consequence.²⁵

204 **Q: How would you characterize PacifiCorp's corporate strategy for dealing with**
205 **uncertainty?**

206 A: PacifiCorp prefers to avoid resource acquisition during times of uncertainty. Instead, it
207 appears to prefer short-term market transactions and the addition of gas plants that
208 require smaller capital outlays than other resource choices.

209 **Q: How is this harmful?**

210 A: In a low-cost, stable environment, it is not harmful. The problem for the public is that
211 this approach is risky, the risks are asymmetrical, and the risks increase with the level of

data. In like manner, the Commission had directed that a critical water scenario be run. These are referred to as special interest cases or special interest scenarios.

²⁴ The Committee discusses what is required for a risk analysis in its discussion of the action plan in section 3.2.2.

²⁵ Committee of Consumer Services, *Comments on PacifiCorp's Integrated Resource Plan, RAMPP-6*, Docket No. 98-2035-05, December 21, 2001. Pages 3-7. These comments were excerpted from a larger section entitled "Failures to Comply with Commission Orders." Issues relating to load forecasts and lack of a decision mechanism to address changes in economic circumstances were also addressed.

212 uncertainty.²⁶

213 **Q: Please explain what you mean by asymmetrical risk.**

214 A: As we have seen in the past, prices in electricity and natural gas markets can skyrocket to
215 extraordinary levels, but they can only fall so far. Thus, the risks are asymmetrical. As
216 allowance markets develop, they most likely will also be subject to asymmetrical risk.

217 **Q: How would you describe the current planning environment?**

218 A: Uncertain. Federal regulation of carbon dioxide emissions is expected, but how it will
219 impact costs and risks in the electric sector is at this time unknown.

220 **Q: How is the Company responding to the current uncertainty in the planning
221 environment?**

222 A: Its corporate strategy, as expressed in the 2008 IRP Update ("Update"), appears
223 unchanged from what I described above. PacifiCorp's corporate strategy is to avoid
224 acquisition of long-term resources in favor of the acquisition of short-term market
225 purchases and gas additions even though the resources they are avoiding mitigate the
226 market and gas price risks and the emissions risks facing the industry.

227 In order to protect its shareholders from the risks of this strategy, the Company desires to
228 shift the full cost to customers through an ECAM.

229 **Q: How does the risk of the 2010 Business Plan compare with the risk of the 2008 IRP
230 Preferred Portfolio?**

²⁶ Risk is defined as having a known stochastic process. Uncertainty refers to fundamental changes in the planning environment.

231 A: As I detail in WRA's comments on the Update, attached as NLK-1, I conclude that the
232 2010 Business Plan portfolio contained in the Update is more risky than the Preferred
233 Portfolio.²⁷ UCE's comments are attached as NLK-2.

234 **Q: What do you conclude from your IRP examination?**

235 A: I conclude that integrated resource planning is not resulting in an "optimal set of
236 resources given the expected combination of costs, risk, and uncertainty." PacifiCorp's
237 resource selections contribute to excessive and volatile net power costs. Utah customers
238 should not bear the net power cost or net power cost risk of resources that are not
239 supported through integrated resource planning.

240 **III. INCENTIVES AND DISINCENTIVES OF AN ECAM ON LONG RUN**
241 **RESOURCE PLANNING**

242 **Q: What other concerns for long-run planning are associated with the implementation**
243 **of an ECAM?**

244 A: As I explained at length in my direct and surrebuttal testimony already in evidence in this
245 docket, an ECAM introduces planning biases. The following is taken from my
246 November 16, Direct Testimony, pages 3-4.

247 A major driver in management's decision-making is its perception of ease
248 of cost recovery. Management is incented to acquire resources for which
249 it believes it will receive full cost recovery and incented to avoid acquiring
250 resources whose cost recovery is less certain. An ECAM would remove a
251 management disincentive to acquire resources with volatile variable costs
252 such as short-term whole-sale market purchases, natural gas fired
253 resources, and even new coal resources. It would also incent management
254 to prefer resources with a lower ratio of capital costs to operating costs
255 since the operating costs would be recovered through the mechanism

²⁷ I addressed the suboptimality of the Preferred Portfolio in my Surrebuttal testimony on pages 9-10 and Exhibit NLK-1.

256 while the capital cost component would continue to be recovered through
257 a rate case whose outcomes are perceived as less certain.

258 These disincentives/incentives would disadvantage resources with low to
259 zero fuel costs such as renewable energy and would reduce the
260 attractiveness of energy efficiency programs, which also have no fuel risk,
261 as compared to fossil-fueled supply side resources. Energy efficiency and
262 renewable energy are best suited to address the major risks facing
263 customers in the current planning environment, volatile natural gas and
264 wholesale market prices, and the uncertain cost of compliance with
265 impending carbon regulation.

266 By furthering an incentive for the utility to favor resources with lower
267 capital costs but higher and more volatile fuel costs over resources that can
268 best manage the multiple risks facing the industry today, the long-run cost
269 of power will likely exceed, potentially significantly, the costs of
270 portfolios that include higher levels of energy efficiency and renewables
271 and thereby better manage risk and uncertainty.

272 **Q: What do you conclude regarding the effect of an ECAM on long-run planning and**
273 **resource acquisition?**

274 A: I conclude that an ECAM will further exacerbate the Company's current approach to
275 addressing uncertainty. If the Commission concludes shareholder concerns warrant an
276 ECAM, then customers must be protected from excessive and volatile net power costs of
277 biased long-run planning decisions through an appropriate mitigation mechanism.

278 **IV. MITIGATION MECHANISM**

279 **Q: Please describe your recommended mitigation mechanism.**

280 A: In conjunction with Commission approval of any ECAM design, I recommend the
281 Commission require the Company to meet energy efficiency and renewable resource
282 targets and limit the Company's use of the short-term wholesale power market to meet

283 capacity requirements.²⁸ Such targets and limits would be consistent with the portfolio
284 that best manages risk and uncertainty as determined through the integrated resource
285 planning process using the Commission's suggested three-step approach.²⁹

286 Specifically, these targets and limits would be determined consistent with the portfolio
287 that performs best in Step 3. The identified energy efficiency levels and renewable
288 resources would be included in the three-year action plan and solicitation processes
289 resulting from the biennial IRP.

290 Since short-term market purchases are the residual between projected need and actual
291 need, including resource acquisition, the Company would maintain active records on its
292 market transactions and report these activities to the Commission as part of any ECAM
293 true-up.

294 This approach is consistent with the guidance provided to the Company in Docket Nos.
295 07-2035-01, 07-035-94, and 09-2035-01.³⁰

296 **V. CONCLUSION**

²⁸ Any ECAM design must include a meaningful sharing of risk. We will address this aspect of an ECAM in the next step of Phase II.

²⁹ The Commission's three-step approach for assessing risk and uncertainty is as follows: "1) Identify the optimal portfolios for a relatively broad, and consistently applied, set of fixed input assumptions; 2) subject the unique sets of these portfolios to stochastic risk analysis and identify superior portfolios with respect to the tradeoff between expected cost and risk exposure; 3) examine the cost consequences of the superior portfolios with respect to uncertainty by subjecting the to evaluation under the initial set of relatively broad fixed input assumptions." Public Service Commission of Utah, *Report and Order, In the Matter of the Acknowledgement of PacifiCorp's Integrated Resource Plan*, Docket No. 09-2035-01, April 1, 2010, p. 19. (The same information is found on page 40 of the order issued February 6, 2008 in Docket No. 07-2035-01.)

³⁰ *Ibid* and Public Service Commission of Utah, *Order on Economic Modeling Issues, In the Matter of the Application of PacifiCorp, by and through its Rocky Mountain Power Division for the Approval of a Solicitation Process for a Flexible Resource for the 2012-2017 Time Period, and for the Approval of a Significant Energy Resource Decision*, Docket No. 07-035-94, February 24, 2010, p. 8.

297 **Q: What is your overall conclusion?**

298 A: I conclude that market reliance and natural gas issues are fundamentally integrated
299 resource planning issues. I further conclude that integrated resource planning has not
300 resulted in the set of resources that best manages risk and uncertainty. PacifiCorp's
301 planning has resulted in excessive and volatile net power costs. An ECAM will shift the
302 full cost of PacifiCorp's past planning decisions to customers. In addition,
303 implementation of an ECAM introduces incentives that further bias resource planning
304 toward risky resources with excessive and volatile net power cost and away from the
305 resources that are best suited to protect customers and shareholders alike from the
306 greatest risks facing the industry today: market and gas price risk and the potential cost of
307 complying with federal regulation of carbon dioxide emissions. Without an appropriate
308 mitigation mechanism in place, long-run planning will continue to be suboptimal,
309 environmentally inferior resources will be selected, and customers will unfairly bear the
310 risk and pay the cost.

311 WRA and UCE recommend the Commission require the Company to meet energy
312 efficiency and renewable resource targets and limit the Company's use of the short-term
313 wholesale power market to meet capacity requirements.³¹ The targets and limits would
314 be determined consistent with the portfolio that best manages risk and uncertainty as
315 determined through the integrated resource planning process using the Commission's
316 suggested three-step approach.

³¹ Any ECAM design must include a meaningful sharing of risk. We will address this aspect of an ECAM in the next step of Phase II.