

1 Q. Please state your name, business address, and present position with Rocky
2 Mountain Power (the "Company"), a division of PacifiCorp.

3 A. My name is Paul H. Clements. My business address is 201 S. Main, Suite 2300,
4 Salt Lake City, Utah 84111. My present position is Senior Originator/Power
5 Marketer for Rocky Mountain Power.

6 Q. How long have you been in your present position?

7 A. I have been in my present position since December 2004.

8 Q. Please describe your education and business experience.

9 A. I have a B.S. in Business Management from Brigham Young University. I have
10 been employed with PacifiCorp since 2004 as an originator/power marketer
11 responsible for negotiating qualifying facility contracts, negotiating interruptible
12 retail special contracts, and managing wholesale or market-based energy and
13 capacity contracts with other utilities and power marketers. I also worked in the
14 merchant energy sector for approximately six years in pricing and structuring,
15 origination, and trading roles for Duke Energy and Illinova.

16 PURPOSE AND SUMMARY OF TESTIMONY

17 Q. What is the purpose of your testimony?

18 A. The purpose of my testimony is to support and present the Company's application
19 to modify the maximum allowable contract term for qualifying facility ("QF")
20 contracts that the Company must enter into under the Public Utility Regulatory
21 Policies Act of 1978 ("PURPA"). The Company is seeking a modification to the
22 maximum contract term of QF contracts executed under both Schedules 37 and 38.
23 This change is necessary in order to maintain the "ratepayer indifference" standard

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24 required by PURPA. Specifically, the Company is requesting an order from the
25 Public Service Commission of Utah (“Commission”) directing implementation of
26 a reduction of the maximum contract term for PURPA contracts from 20 years (or
27 possibly longer) to three years, to be consistent with the Company’s hedging and
28 trading policies and practices for non-PURPA energy contracts and more aligned
29 with the Integrated Resource Plan (“IRP”) cycle.

30 I describe the significant increase the Company has experienced in PURPA
31 contract requests in 2014 and 2015, how the increase in requests increases risk to
32 customers, and why the requested modification to the avoided cost contract term is
33 needed.

34 The Company currently has 1,041 megawatts¹ (“MW”) of existing PURPA
35 contracts in Utah and 2,253 MW of proposed PURPA contracts in Utah, together
36 totaling 3,294 MW of nameplate capacity. The magnitude and potential impact of
37 this increased PURPA activity is best measured by comparing the total amount of
38 existing and proposed Utah PURPA projects to the Company’s Utah retail load.
39 Using 2014 as an example, the Company’s average total Utah retail load was 2,959
40 MW and its minimum total Utah retail load was 2,033 MW. The 3,294 MW of
41 existing and proposed PURPA contracts in Utah at their nameplate capacity would
42 be enough to supply 111 percent of the Company’s average Utah retail load and
43 162 percent of the Company’s minimum Utah retail load. Expanding the analysis
44 to the Company’s six-state system, PacifiCorp currently has requests for 3,692 MW

¹ Unless specifically noted, values in my testimony are rounded to the nearest full MW.

45 of new PURPA contracts system-wide, in addition to the 1,992 MW of QF contracts
46 that are already executed.

47 I explain and illustrate how the required 20-year contract term is (1)
48 inconsistent with the Company's hedging practices implemented after careful
49 review by stakeholders in a recent collaborative, (2) inconsistent with resource
50 acquisition policies and practices for non-PURPA energy purchases, and (3) not
51 aligned with the Company's IRP planning cycle and action plan. I also provide
52 evidence demonstrating the impact of PURPA contracts on customers' rates. I also
53 describe how, without the requested modification to contract term, PacifiCorp will
54 be forced to continue to acquire long-term, fixed-price PURPA contracts even
55 though PacifiCorp's 2015 IRP, which was filed in March 2015, shows no new
56 resource is required until 2028.

57 **Q. Why is the requested modification critical at this time?**

58 A. PacifiCorp routinely reviews PURPA contract terms and conditions and avoided
59 cost methods, and recent events dictate that the Company petition this Commission
60 for a change at this time.

61 The Company has experienced a significant increase in QF pricing requests
62 in Utah and across its six-state system. The Company has no need for resources for
63 the next decade. The Company's hedging practices and policies are short-term in
64 nature. The Company's hedging program was modified as a result of a series of
65 hedging collaborative workshops the Company held with stakeholders in 2011 and
66 2012 which reduced the Company's standard hedging horizon from 48 months to
67 36 months.

85 incremental cost to the utility means the amount it would cost the utility to generate
86 or purchase the electric energy but for the purchase from the QF.⁴ The incremental
87 cost standard is intended to leave customers economically indifferent to the source
88 of a utility's energy by ensuring that the cost to the utility of purchasing power from
89 a QF does not exceed the cost the utility would incur in the absence of the QF
90 purchase.⁵

91 In 1980, FERC issued rules implementing PURPA in which it adopted what
92 it called a utility's "avoided costs" as the standard for implementation of the
93 incremental cost requirement.⁶ While the applicable statutes and rules are matters
94 of federal law, PURPA gives to state regulatory authorities the responsibility of
95 determining a utility's avoided costs as well as terms and conditions of PURPA
96 contracts.⁷ The Commission initiated Docket No. 80-999-06 to address those

small power production facility, the rates for such purchase -

(1) shall be just and reasonable to the electric consumers of the electric utility and in the public interest, and

(2) shall not discriminate against qualifying cogenerators or qualifying small power producers.

No such rule prescribed under subsection (a) of this section shall provide for a rate which exceeds the incremental cost to the electric utility of alternative electric energy.

⁴ The provisions of 16 U.S.C. § 824a-3(d) provide the following definition of "incremental cost of alternative electric energy":

For purposes of this section, the term "incremental cost of alternative electric energy" means, with respect to electric energy purchased from a qualifying cogenerator or qualifying small power producer, the cost to the electric utility of the electric energy which, but for the purchase from such cogenerator or small power producer, such utility would generate or purchase from another source.

⁵ See, e.g., *Armco Advanced Materials Corp. v. Pennsylvania Pub. Util. Comm'n*, 535 Pa. 108, 634 A.2d 207, 209 (Pa. 1993).

⁶ See *American Paper Inst. v. American Elec. Power Serv.*, 461 U.S. 402, 406(1982) (stating that "the term full 'avoided costs' used in the regulations is the equivalent of the term 'incremental cost of alternative electric energy' used in § 210(d) of PURPA"). FERC's definitions of terms used in implementing PURPA are found at 18 C.F.R. § 292.101. The term "avoided costs" is defined as "the incremental costs to an electric utility of electric energy or capacity or both which, but for the purchase from the qualifying facility or qualifying facilities, such utility would generate itself or purchase from another source." 18 C.F.R. § 292.101(b)(6).

⁷ *Idaho Power Co. v. Idaho Pub. Util. Comm'n.*, 316 P.3d 1278, 1280 (2013) ("*Idaho Power Co.*") (citing *FERC v. Mississippi*, 456 U.S. 742, 751 (1982)).

97 matters.

98 **Q. Under PURPA, are utilities or their customers intended to subsidize QFs in**
99 **order to achieve PURPA's policy goals?**

100 A. Absolutely not. As this Commission and state regulators across the country have
101 stated time and time again, under PURPA's original intent, retail customers should
102 be indifferent to the purchase of QF power. This Commission, while discussing the
103 general goals of PURPA in its early years of implementation, stated:

104 We wish to promote the development of the specific QF projects
105 and the overall QF capacity which will serve the economic interests
106 of the ratepayers. We wish to discourage QF development which
107 requires a subsidy from the ratepayers to the QF developers. We
108 understand these positions to be the appropriate interpretation of the
109 PURPA full avoided cost based QF pricing and ratepayer neutrality
110 mandates.⁸

111 FERC has likewise affirmed the need to ensure customer indifference to
112 utility purchases of QF power, noting that, in enacting PURPA, "[t]he intention [of
113 Congress] was to make ratepayers indifferent as to whether the utility used more
114 traditional sources of power or the newly-encouraged alternatives."⁹ Under
115 PURPA, then, customers must remain indifferent or unaffected by QF contracts.

116 Further, this Commission has recognized that the term of a PURPA contract
117 and the rates to be paid under that contract are interrelated.¹⁰ Indeed, both avoided
118 costs *and* other terms and conditions of PURPA contracts affect whether retail

⁸ *In the Matter of the Implementation of Rules Governing Cogeneration and Small Power Production in the State of Utah*, Docket No. 80-999-06, Report and Order (April 3, 1987), p. 4.

⁹ *Southern Cal. Edison Co., et al.*, 71 FERC ¶ 61,269 at p. 62,080 (1995), overruled on other grounds, Cal. Pub. Util. Comm'n, 133 FERC ¶ 61,059 (2010).

¹⁰ *In the Matter of the Implementation of Rules Governing Cogeneration and Small Power Production in the State of Utah*, Docket No. 80-999-06, Report and Order (March 14, 1985), pp. 37-38 (Providing small power producers with fixed fuel cost the option of a 35-year (rather than 20-year) contract "will necessitate a recalculation of the capacity payments for such an extended contract, which the Commission understands will be at a higher price.")

119 customers remain indifferent to the purchase of QF power. The modification
120 requested by the Company in this application is necessary to maintain this ratepayer
121 indifference standard and is a means by which the Company and the Commission
122 can protect customers from unnecessary fixed-price risk.

123 **Q. Does the Commission have discretion to determine the appropriate contract**
124 **term under PURPA?**

125 A. Yes. Although PURPA's federal mandate requires utilities to purchase QF power,
126 PURPA's scheme of cooperative federalism gives state regulatory agencies the
127 authority to protect retail customers from any unintended negative consequences of
128 these mandatory purchases by delegating to state authorities the freedom to
129 establish the key terms and conditions of PURPA contracts.¹¹ In crafting their
130 methodologies for the details of PURPA contracts, FERC has explained its view
131 that "states are allowed a wide degree of latitude in establishing an implementation
132 plan for section 210 of PURPA, as long as such plans are consistent with [FERC's]
133 regulations."¹² A critical element of the utility's must-purchase requirement under
134 PURPA is the contract term. This is because FERC generally requires a utility to
135 lock in forecasted avoided cost rates for the entire contract term.¹³

136 **Q. Have other state commissions in the Company's service area recently**
137 **addressed this issue?**

138 A. Yes. The Idaho Public Utilities Commission (the "Idaho Commission") has
139 recently addressed the need to reduce QF contract terms to protect ratepayer

¹¹ *Idaho Power Co.*, 316 P.3d at 1280; *Exelon Wind I, LLC*, 766 F.3d 380 (5th Cir. 2014).

¹² *Cal. Pub. Util. Comm'n*, 133 FERC ¶ 61,059 at P 24 (2010).

¹³ *See Small Power Production and Cogeneration Facilities; Regulations Implementing Section 210 of PURPA*, 45 Fed. Reg. 12214, 12224 (1980).

140 neutrality. Initially, the Idaho Commission set PURPA contract terms at 35 years
141 to match the amortization period allowed for similar utility owned facilities, making
142 financing easier, thus encouraging QF development.¹⁴ Later, the Idaho Commission
143 began to recognize concerns related to the risk and uncertainty inherent in long
144 range forecasting and shortened the contract length to 20 years.¹⁵ This time frame
145 was shortened to only 5 years in 1996 and 1997 (first for QFs of 1 MW and larger,
146 then for QFs under the 1 MW cap) in order to align the QF contract time frame with
147 the utilities' acquisition strategies.¹⁶ The Idaho Commission noted in that case that
148 a 20-year contract obligation did not reflect the manner in which the utilities were
149 acquiring power to meet new load, which at the time was through contracts with
150 terms of five years or less, and that "it would be nothing more than an artificial
151 shelter to the QF industry to provide those projects with contract terms not
152 otherwise available in the free market."¹⁷ In 2002, the Idaho Commission raised the
153 contract length back to 20 years, expressing concerns about a scarcity of QF
154 contracts signed since the prior change.¹⁸

155 Since then, concerns regarding the viability of QFs are no longer at the
156 forefront. In 2015, the key concerns about PURPA contracts are similar to those
157 that were present at the time of the Idaho Commission's 1996 and 1997 orders
158 reducing the term to five years, *i.e.*, the current concerns flow from the magnitude

¹⁴ See, e.g. Case No. GNR-E-02-1, Order No. 29029 (Ida. PUC May 21, 2002) at 2 (describing the origin of PURPA regulation in Idaho).

¹⁵ Case No. U-1500-170, Order No. 21630 (Ida. PUC Dec. 2, 1987).

¹⁶ Case No. GNR-E-02-1, Order No. 29029 (Ida. PUC May 21, 2002) (describing the history of changes in approved term of QF contracts in Idaho).

¹⁷ Case No. IPC-E-95-9, Order No. 26576 (Ida. PUC Sept. 4, 1996) p. 13.

¹⁸ See Case No. GNR-E-02-1, Order No. 29029 (Ida. PUC May 21, 2002) p. 7 (stating that it "could not ignore the fact that since reducing the eligibility threshold to 1 MW and contract term to 5 years, there has been only one PURPA contract signed in Idaho.").

159 of QF power flowing onto utilities' systems without any finding of utility need and
160 resulting concerns about price risk, reliability, and customer indifference. As a
161 result, the Idaho Commission has recently reduced the term of PURPA contracts
162 for the Company, Idaho Power and Avista to five years for solar and wind QF
163 projects larger than 100 KW pending completion of a docket considering a
164 permanent reduction.¹⁹

165 **Q. Can a 20-year fixed-price contract term be considered a “subsidy” to a QF?**

166 **A.** Yes. Given the typical contracting and hedging horizons for energy contracts in the
167 utility industry, which are commonly limited to less than 36 months, it is extremely
168 rare for a utility to voluntarily enter into a 20-year fixed-price energy contract
169 without a specified energy resource need due to concerns about price risk, market
170 liquidity, and other risk considerations. Under the Commission's current PURPA
171 policies, however, any QF can obtain a 20-year, fixed-price energy contract at the
172 Company's projected avoided cost, without any economic considerations or price
173 adjustment to account for the risk to utility customers from this unusually long-term
174 transaction, or to the QF to account for the price certainty the QF enjoys from such
175 a contract. As noted above, this Commission has recognized that the avoided cost
176 rates are not the only term of a power purchase contract with a QF that can affect
177 the required ratepayer neutrality.²⁰ Contract lengths are also PURPA contract terms,
178 and they carry with them their own economic value. To grant QFs access to long-

¹⁹ Case No. IPC-E-15-01, Order No. 33222 (Ida. PUC Feb. 6, 2015) (Idaho Power), Order No. 33250 (Ida. PUC Mar. 13, 2015) (Rocky Mountain Power and Avista), and Order No. 33253 (Ida. PUC Mar. 18, 2015) (clarifying that the interim reduction applies to QF projects that exceed the published rate eligibility cap (up to 100 KW for solar and wind and up to 10 average megawatts (aMW) for QFs of all other resource types)).
²⁰ See footnote 10.

179 term price certainty with no adjustment to the price to account for that certainty is
180 granting QFs something no other market participant enjoys. For this reason, I would
181 view a guaranteed, fixed-price, 20-year contract at avoided cost to be a QF subsidy.

182 **Q. Is there evidence that supports the Company's requested modification?**

183 A. Yes. My testimony presents substantial and compelling evidence demonstrating
184 why the Company's requested modification is necessary in order to maintain the
185 "ratepayer indifference" standard.

186 **SIGNIFICANT INCREASE IN PURPA CONTRACT REQUESTS**

187 **Q. Has PacifiCorp executed a significant number of PURPA contracts in recent**
188 **years in response to its federal obligation?**

189 A. Yes. PacifiCorp currently manages 145 PURPA contracts totaling 1,991 MW of
190 nameplate capacity across its six-state system. Of this total, 101 projects totaling
191 1,814 MW (91 percent of the total PURPA MWs under contract) have online dates
192 of 2007 or later, demonstrating that significant activity has occurred in the last
193 seven to eight years. Of this total, 51 projects totaling 1,145 MW (58 percent of the
194 total PURPA MWs under contract) have online dates of 2014 or later, further
195 demonstrating the exponential increase in PURPA contract requests and resulting
196 contracts that have occurred in the last two years. In Utah, 24 new projects totaling
197 897 MW have been executed in the last two years.

198 This dramatic increase in PURPA contract executions and pricing requests
199 in Utah and system-wide in the last several years demonstrates that additional
200 review of the contract term for non-standard Utah QFs is warranted at this time and
201 could not have been anticipated when the Commission reviewed the issue of

202 contract term in previous cases.

203 **Q. Please describe the current queue of pricing requests for PURPA contracts in**
204 **Utah and across PacifiCorp's system.**

205 **A.** In Utah, the Company currently has 40 project requests totaling 2,253.2 MW of
206 nameplate capacity. System-wide, the Company currently has requests from 85
207 projects totaling 3,692.5 MW of nameplate capacity. Table 1 shows the number of
208 project requests and the total MWs by resource type for each of PacifiCorp's six
209 states:

Table 1

State	Wind		Solar		Other		Total	
	Projects	MWs	Projects	MWs	Projects	MWs	Projects	MWs
California								
Idaho	1	20.0	20	511.0	2	4.8	23	535.8
Oregon			12	250.9	1	3.5	13	254.4
Utah	5	354.0	35	1,899.2			40	2,253.2
Washington								
Wyoming	9	649.1					9	649.1
TOTAL	15	1,023.1	67	2,661.1	3	8.3	85	3,692.5

210 Exhibit RMP___(PHC-1) provides detailed information on the pricing queue,
211 including each project location (state), size (nameplate capacity), type (i.e. solar,
212 wind), and proposed online date. Project names have been withheld to maintain
213 confidentiality of the customer information.

214 **Q. How does the number of executed Utah PURPA contracts and proposed Utah**
215 **PURPA contracts compare to PacifiCorp's typical Utah load requirements?**

216 **A.** PacifiCorp has 1,041 MW of existing PURPA contracts in Utah and 2,253 MW of
217 proposed PURPA contracts in Utah, together totaling 3,294 MW of nameplate
218 capacity. Using 2014 as an example, PacifiCorp's maximum total retail load in

219 Utah was 5,073 MW, its minimum load was 2,033 MW, and its average load was
220 2,959 MW. The 3,294 MW of existing and proposed PURPA contracts in Utah at
221 their nameplate capacity would be enough to supply 111 percent of the Company's
222 average Utah retail load and 162 percent of the Company's minimum Utah retail
223 load.

224 **Q. How does the number of executed PURPA contracts and proposed PURPA**
225 **contracts across PacifiCorp's system compare to PacifiCorp's typical six-state**
226 **system load requirements?**

227 A. PacifiCorp has 1,991 MW of existing PURPA contracts and 3,692 MW of proposed
228 PURPA contracts, together totaling 5,683 MW of nameplate capacity. Using 2014
229 as an example, PacifiCorp's maximum total retail load across its six-state system
230 was 10,314 MW, its minimum load was 4,967 MW, and its average load was 6,844
231 MW. The 5,683 MW of existing and proposed PURPA contracts at their nameplate
232 capacity would be enough to supply 83 percent of PacifiCorp's average retail load
233 and 114 percent of PacifiCorp's minimum retail load.

234 **THE COMPANY'S UTAH PURPA CONTRACTS WILL RESULT IN HIGHER**
235 **CUSTOMER RATES, IN CONFLICT WITH THE RATEPAYER**
236 **INDIFFERENCE STANDARD**

237 **Q. What impact should PURPA contracts have on customer rates?**

238 A. PURPA contracts should have no impact on customer rates. As this Commission
239 and state regulators across the country have stated time and time again, retail
240 customers should be indifferent to the purchase of QF power. As FERC has noted,
241 in enacting PURPA, "[t]he intention [of Congress] was to make ratepayers
242 indifferent as to whether the utility used more traditional sources of power or the

243 newly-encouraged alternatives.”²¹

244 In short, customers must remain indifferent or unaffected by PURPA
245 contracts. The modification to the maximum contract term requested by the
246 Company in this application are necessary to maintain this indifference standard.

247 **Q. Why is it critical to make the needed modification to QF contract term quickly**
248 **once it has been identified?**

249 A. As mentioned earlier in my testimony, PacifiCorp currently has 1,041 MW of
250 existing PURPA contracts in Utah and 2,253 MW of proposed PURPA contracts in
251 Utah, together totaling 3,294 MW of nameplate capacity. The Company has 145
252 existing (executed) PURPA contracts totaling 1,991 MW of nameplate capacity
253 across its six-state system. Under PacifiCorp’s multi-state jurisdictional cost
254 allocation model, PURPA contracts are considered system resources and are
255 allocated to each of the six states based on the System Generation allocation factor.
256 Utah’s allocated share is typically around forty-three percent. The expected system-
257 wide costs (payments to QFs) over the next 10 years from PacifiCorp’s executed
258 PURPA contracts is \$2.9 billion. In 2015 alone, the projected payment to QFs is
259 \$170.5 million, with Utah’s allocated share at \$73.3 million.²² If QF projects are
260 priced higher than the market alternative by just 10 percent, it would create a \$7.33
261 million impact in 2015 for Utah customers. That 10 percent impact would grow to
262 a total of \$124.7 million in additional costs to Utah customers over the 10-year
263 period starting in 2015. With a pricing queue that currently totals 3,693 MW, or

²¹ *Southern Cal. Edison Co., San Diego Gas & Elec. Co.*, 71 FERC ¶ 61,269 at p. 62,080 (1995).

²² Assuming an allocation factor of 43 percent.

264 close to double (in MW) the size of the \$2.9 billion worth of current PURPA
265 contracts to which the Company is already obligated, it is imperative that customers
266 be protected from the long-term, fixed-price risk that comes with a 20-year contract
267 term for QFs. Failure to implement the modification to contract term proposed by
268 the Company in this case may result in significant irreversible harm to customers.

269 **20-YEAR PURPA CONTRACTS ARE INCONSISTENT WITH CURRENT**
270 **HEDGING PRACTICES AND RISK POLICIES AND REQUIRE CUSTOMERS**
271 **TO BEAR AN INAPPROPRIATE AND UNNECESSARY LEVEL OF PRICE**
272 **RISK**

273 **Q. When the Company considers purchasing power from a third party, does the**
274 **Company first review the proposed purchase from a resource need and a risk-**
275 **management perspective?**

276 **A.** Yes. The Commission expects the Company to serve its customers with least-cost,
277 least-risk resources. For that reason, the Company has integrated resource planning
278 processes and risk-management policies it applies to evaluate any proposed energy
279 contracts, to ensure the contracts are reasonable and prudent.

280 **Q. Does the Company apply its integrated resource planning process and internal**
281 **risk management policies to PURPA contracts?**

282 **A.** No, not in the same way as it does for non-PURPA contracts. The Company cannot
283 refuse to execute PURPA contracts based on the price or the contract term, or based
284 on other transaction parameters that it would normally not accept for non-PURPA
285 contracts. Under PURPA, the Company must purchase QF energy and capacity
286 regardless of whether the Company needs the power, on terms and conditions
287 established by its state commissions.

288 **Q. How does the Company manage PURPA contract risk?**

289 A. While the Company has some limited ability to negotiate PURPA contract terms
290 and conditions, and while the Company uses its non-QF resources to integrate QF
291 power into its system as efficiently and reliably as possible, PURPA requires the
292 Company to rely primarily on its state regulatory commissions to regulate customer
293 exposure to risk through the establishment of terms and conditions of its PURPA
294 contracts.

295 **Q. PURPA contracts aside, please generally describe the current electricity and**
296 **natural gas hedging practices and policies at PacifiCorp.**

297 A. The Company modified its hedging horizon for natural gas and power from 48
298 months to 36 months as a result of hedging collaborative workshops it held with
299 stakeholders in 2011 and 2012. The collaborative convened as the result of concerns
300 expressed by the Utah Division of Public Utilities (“Division”), the Utah Office of
301 Consumer Services (“Office”) and various other parties during proceedings on the
302 Company’s application for an energy cost adjustment mechanism,²³ a proceeding
303 on management of natural gas price risk,²⁴ and its 2009 and 2011 general rate cases²⁵
304 regarding the Company’s hedging program. In its report on the collaborative, the
305 Division stated:

306 All parties agree that the forecast total requirement for natural gas should
307 not be fully hedged and a portion should remain open to short-term market
308 price exposure and for operational flexibility. . . . Because of relative market
309 illiquidity and potential inaccuracy of forecasted demand requirements,
310 hedges should normally be limited to 36 forward months, except to the
311 extent fundamental market analysis, including liquidity, support longer-

²³ See Docket No. 09-035-15.

²⁴ See Docket No. 09-035-21

²⁵ See Docket Nos. 09-035-23 and 10-035-124.

312 term purchases and acquisitions.²⁶

313 The Company's trading policies and procedures are outlined in the
314 PacifiCorp Risk Management Policy. That policy was modified based on the results
315 of the collaborative process. It sets forth how the Company identifies, assesses,
316 monitors, reports, manages and mitigates each of the various types of commercial
317 risk associated with energy trading. Energy commodities include, but are not
318 limited to, physical and financial transactions of electricity and natural gas, #2 fuel
319 oil, unleaded gasoline, renewable energy credits, SO₂ emission allowances, and
320 greenhouse gas allowances. PacifiCorp's energy management organization
321 (formerly known as the commercial and trading organization) manages the energy
322 commodity position and utilizes PacifiCorp's assets and liabilities (loads,
323 generating resources, contractual rights, and obligations) to (i) ensure reliable
324 sources of electric power are available to meet PacifiCorp's customers' needs and
325 (ii) reduce volatility of net power costs for PacifiCorp's customers.

326 PacifiCorp's commodity risks are managed through a control and limit
327 structure that defines the maximum levels of market risk and credit capacity
328 permissible for the Company to engage in trading and risk management activities.
329 Compliance with this policy is mandatory.

330 PacifiCorp's current practice is to actively manage electricity and natural
331 gas short and long positions that are 36 months out and nearer, meaning up to three
332 years from today. Traders have risk limits that they must maintain in order to limit
333 customer price exposure to the Company's open position over this three year time

²⁶ Collaborative Process To Discuss Appropriate Changes To PacifiCorp's Hedging Practices - Report to the Utah Public Service Commission (Mar. 30, 2012) at 6.

334 horizon. This trading practice ensures reliable sources of electric power are
335 available to meet PacifiCorp customers' needs and reduces volatility of net power
336 costs.

337 **Q. Do PacifiCorp traders actively manage or hedge positions beyond the prompt**
338 **36 months?**

339 A. No. The Company's practice since it completed the hedging collaborative
340 workshops in 2012 has been to limit hedges to 36 months or less unless stakeholders
341 express interest for longer term hedges. There has been no such expressed interest
342 for electricity hedges beyond 36 months since that time. The Company's risk
343 management metrics are also limited to 36 months.

344 **Q. Why are these risk management and hedging policies and requirements not**
345 **applicable to the Company's PURPA contracts?**

346 A. The Company is obligated by law to purchase electricity from QFs at prices and on
347 terms set forth by its state commissions. In this sense, the Company's primary
348 vehicle for risk management review of PURPA contracts are the policy decisions
349 made by each state commission.

350 **Q. Can you provide an example showing the inconsistency between the**
351 **Company's hedging policies and its PURPA contracting requirements?**

352 A. Yes. The Company cannot (without specific stakeholder interest and review) enter
353 into a 20-year hedge for the natural gas fuel cost at one of its gas plants, such as
354 Lakeside. But the Company is mandated to enter into a 20-year contract, with a
355 fixed-price hedge, with a QF who may be displacing or avoiding the operation of
356 that very same gas plant, effectively locking in the price of that output for 20 years.

357 The 20-year QF contract term is not consistent with the hedging policy put in place
358 as a direct result of input from stakeholders.

359 **Q. What process would PacifiCorp undertake when contemplating a non-PURPA**
360 **transaction that exceeds the typical 36-month time horizon?**

361 A. Non-PURPA transactions that exceed 36 months in effective transaction period
362 require extensive analysis and progressively higher level of management review.
363 The analysis includes a review of the need for the transaction, a comparison of the
364 contemplated transaction to other available transactions that meet the same need, a
365 thorough economic analysis to demonstrate that the transaction is the least-cost,
366 least-risk way to meet the identified need, and an extensive review of credit terms
367 and contract terms. Typically the level of detail, documentation, and review
368 increases commensurate with the size and duration of the transaction, which also
369 increases the level of management approval that is required.

370 The Company primarily enters into long-term transactions (those that
371 exceed 36 months) only when there is a clearly identified long-term resource need
372 in its IRP. Long-term resource needs are typically identified in the IRP only after
373 lower-cost, lower-risk short-term resource opportunities are exhausted such that a
374 long-term resource is required to meet customer load requirements.

375 **Q. When the Company enters into a long-term transaction as a result of the IRP**
376 **action plan, what additional steps are taken to protect customers?**

377 A. The Company typically utilizes a rigorous request for proposal ("RFP") process to
378 acquire any long-term transaction or resource need directed by the IRP action plan.

379 This process often involves extensive input from regulators in the drafting and

380 management of the RFP. In fact, the process often includes independent evaluator²⁷
381 review of the process and ultimate results. In Utah, if the resource or transaction
382 involves a generating resource that produces 100 MW or more or has a term of 10
383 years or more that will produce 100 MW or more, the Company is required to go
384 through this process.²⁸ This robust process ensures the Company acquires only what
385 is needed and results in a long-term transaction at the lowest cost possible. In
386 addition to the extensive RFP process, any long-term transaction goes through the
387 analysis and review process I described in conjunction with the PacifiCorp Risk
388 Management Policy.

389 **Q. Do these same steps occur prior to entering into a PURPA contract?**

390 A. No. PURPA contracts do not go through the same extensive IRP process to
391 determine if they are needed. PURPA contracts do not go through the same
392 competitive bid RFP process including oversight by an independent evaluator to
393 ensure they are lowest cost. PURPA contract executions are not limited to the size
394 of the resource need in the IRP action plan. And, PURPA contracts do not receive
395 the same upper management review and analysis because upper management does
396 not have the discretion to refuse the mandatory purchase obligation and the 20-year
397 contract term established by the Commission. The Company is asking the
398 Commission to use its discretion to implement the change necessary to protect
399 customers.

400 **Q. Why is such a rigorous review process necessary when entering into long-term**

²⁷ An independent evaluator is a third party who is appointed by the Company's regulators to oversee the RFP process to ensure fairness throughout the process and to ensure the bids are accurately evaluated. *See, e.g.,* Utah Code Ann. § 54-17-203.

²⁸ *See* Utah Code Ann. §§ 54-17-101, et seq.

401 **transactions, and why does the Company generally limit trading and hedging**
402 **activities to the prompt 36 months?**

403 A. The primary reason is long-term fixed price energy contracts carry significant price
404 risk. The market becomes more and more uncertain as you move further into the
405 future, and it is difficult to forecast with reasonable certainty what prices will be far
406 out into the future. Long-term fixed-price transactions often move in or out of the
407 money over time as the forward price curve changes. For these reasons, unless the
408 Company has a demonstrated need for resources in its IRP, it does not pursue long-
409 term transactions.

410 **Q. Is there additional market and industry evidence that supports the Company's**
411 **36-month trading and hedging horizon?**

412 A. Yes. In the unregulated wholesale energy marketplace, very few transactions occur
413 beyond a six-year time horizon and the highest volume is within one year. When
414 the Company has entered into long-term, non-QF transactions in the past several
415 years, it is the result of a specific need for a resource identified in the IRP and the
416 contracts are typically backed by an identified firm resource (*i.e.*, a utility has load
417 growth, generating unit retirements, or expiring contracts and needs a resource, so
418 it contracts to buy the output from a certain generator). Most of these long-term
419 transactions occur through a rigorous, transparent, and competitive RFP processes.

420 Further evidence of the industry preference for shorter-term fixed-price
421 contracts is found in the practices of most of PacifiCorp's combined heat and power
422 ("CHP") QFs. CHP QFs generally do not need long-term contracts for financing
423 purposes (most use balance sheet financing), so these types of QFs evaluate a

424 desired contract term from a risk management perspective. Like most utilities, CHP
425 QFs typically elect short-term contracts with PacifiCorp even when 20-year terms
426 are available. In fact, most elect annual contracts that are renewed each year at the
427 then-current avoided costs. These CHP QF customers have told PacifiCorp that
428 they are not energy traders and therefore prefer to take the spot or near-term avoided
429 cost price in order to eliminate the price risk that comes from long-term, fixed-price
430 contracts.

431 **Q. Can you provide an example of the price risk associated with a long-term fixed**
432 **price contract?**

433 **A.** Yes. The electricity and natural gas markets have fallen dramatically in the past
434 year as oil prices have also declined. On August 1, 2014, a 10-year fixed-price
435 contract for a seven-day by 24-hour electricity product at the Mid-Columbia ("Mid-
436 C") wholesale power market trading hub was priced at \$45.87 per MWh. On
437 February 2, 2015, just six months later, that same 10-year contract was priced at
438 \$38.11 per MWh. The 10-year electricity market declined 17 percent in just six
439 months. Hypothetically, had the Company purchased 100 MW of this 10-year
440 fixed-price electricity on August 1, 2014 at \$45.87 per MWh, just six months later
441 the Company would have a mark-to-market loss of \$68.0 million on the contract.

442 By comparison to this 100 MW 10-year example, the Company currently
443 has 2,253 MW of proposed PURPA contracts in Utah seeking 20-year fixed-price
444 contracts. The price risk associated with this large number of proposed long-term,
445 fixed-price contracts is substantial and should not be borne by customers.

446 **Q. How do you respond to the argument that market prices are currently "low"**

447 **and therefore the Company should lock in as much energy as possible?**

448 A. Locking in a price because you are speculating that the price is “low” is not risk
449 management or hedging – it is speculative trading. The Company and its customers
450 are not commodity traders. The Company’s customers expect the Company to
451 provide safe and reliable energy while employing the “least-cost, least-risk”
452 principle. Taking a long-term, fixed-price position in a commodity does not follow
453 this principle.

454 **Q. Has this long-term price risk been evidenced in the Company’s existing**
455 **PURPA contracts?**

456 A. Yes. The Company currently has 145 PURPA contracts totaling 1,991 MW of
457 nameplate capacity across its six-state system. Utah’s allocated share of these
458 contract costs averages approximately 43 percent. Over the next 10 years, the
459 Company is under contract to purchase 44.6 million MWhs under its PURPA
460 contract obligations at an average price of \$64.13 per MWh. The average forward
461 price curve for Mid-C over this same 10 years is \$38.11 per MWh,²⁹ or a difference
462 of \$26.02 per MWh.

463 **Q. Under current policies and QF pricing methods, can the Company protect**
464 **customers from long-term price risk when entering into PURPA contracts?**

465 A. No. Unlike a need based long-term transaction, a mandatory purchase under a
466 PURPA long-term fixed price contract must be executed regardless of need.
467 Consequently, these long-term contracts unnecessarily expose customers to price
468 risk that is not reflected in the contract price.

²⁹ Based on a February 2, 2015 forward price curve for a 7x24 (flat) electricity product.

469
470

**LONG-TERM RESOURCE PLANNING: PACIFICORP'S IRP PROCESS AND
CURRENT RESOURCE NEEDS**

471 **Q. How does the Company determine its long-term resource needs?**

472 A. The Company's long-term planning and resource decisions are thoroughly
473 evaluated through the Company's IRP process. PacifiCorp's IRP is developed with
474 participation from public stakeholders, including regulatory staff, advocacy groups,
475 and other interested parties. The planning process entails: (1) developing an
476 assessment of resource need via a load and resource balance, reflecting current load
477 growth forecasts and existing resources and contracts over a 20-year planning
478 horizon; (2) producing a range of different resource portfolios that could be used to
479 meet the projected resource need; and (3) evaluating the comparative cost and risks
480 of each resource portfolio, taking into consideration a wide range of planning
481 uncertainties, in order to identify the least-cost and least-risk preferred portfolio.
482 Once a preferred portfolio is selected, an action plan is developed that identifies the
483 specific resource actions the Company will take over the next two to four years to
484 implement its resource plan.

485 **Q. How does the IRP influence the types of long-term transactions entered into
486 by the Company?**

487 A. The Company would not plan to enter into long-term transactions unless a long-
488 term resource need is identified in the IRP preferred portfolio. As noted above,
489 long-term resource needs are typically identified in the IRP only after lower-cost,
490 lower-risk short-term resource opportunities are exhausted such that a long-term
491 resource is required to meet customer load requirements. If the IRP identifies the
492 need for a long-term resource in the near-term, an IRP action item would specify

493 the Company's plans to acquire the resource, which might include issuance of an
494 RFP.

495 **Q. What long-term transactions have been included in recent and current IRP**
496 **action plans?**

497 A. The 2013 IRP, which until the recent filing of the 2015 IRP was the reference for
498 avoided costs in Utah, included a combined cycle combustion turbine ("CCCT")
499 gas plant in 2024. Due to the timing of the identified need for this resource, the
500 2013 IRP action plan did not include any action items to procure this long-term
501 resource. The 2013 IRP Update, filed with the Commission in March 2014, pushed
502 the CCCT out to 2027. Again, due to the timing of this identified need, the
503 Company has not developed an action item to procure this long-term resource. The
504 Company's 2015 IRP has now been filed with the Commission. The 2015 IRP
505 preferred portfolio pushes the CCCT out even further to 2028. As in the 2013 IRP
506 and the 2013 IRP Update, the 2015 IRP draft action plan does not include any action
507 items to procure this long-term resource.

508 **Q. What conclusion can you draw from the 2015 IRP preferred portfolio and**
509 **associated draft action plan?**

510 A. The Company does not have a need for a new long-term resource until 2028, and
511 due to the timing of this need, the Company will not have any action items to
512 procure a new long-term resource in the next two to four years.

513 **Q. How is the Company's proposal to limit QF contract terms to three years in**
514 **length aligned with the IRP planning process?**

515 A. The full IRP is published every other year, with an update published in the off years.

516 As described earlier in my testimony, the IRP process includes a rigorous review
517 of the Company's resource needs by evaluating its load and resource balance and
518 establishing a least-cost, least-risk resource plan through comprehensive and
519 rigorous modeling of numerous resource alternatives. The planning environment is
520 constantly changing. This is evidenced by changes in the Company's load and
521 resource balance, state and federal environmental policies, wholesale power and
522 natural gas prices, market products, market rules and contracting practices, and cost
523 and performance of new generating technologies, to name a few. While the
524 Company's planning process is robust and designed to reasonably capture a wide
525 range of uncertainties, the magnitude of the various planning uncertainties grows
526 as you get further out into the IRP 20-year planning horizon. It is for this very
527 reason that IRP action items focus on the front two to four years of the planning
528 period and that the IRP planning process is repeated every two years with updates
529 in the off years. Even within these biannual planning cycles, material changes in
530 Company's resource needs have been observed from one IRP to the next. The
531 Company's proposal to limit QF contract terms to three years in length is more
532 aligned with the two-year IRP planning cycle, and the associated two- to four-year
533 action plan period. Aligning a QF contract term limit to the IRP planning cycle will
534 ensure avoided cost pricing remains consistent with the most up-to-date
535 information regarding the Company's resource needs and limit long-term price risk.

536

CONCLUSION

537 **Q. Please summarize your testimony and the Company's requested relief.**

538 A. The Company is seeking implementation of a modification to the term of QF
539 contracts. This change is necessary in order to maintain the ratepayer indifference
540 standard required by PURPA and to protect Utah customers. Specifically, the
541 Company is requesting an order from the Commission directing implementation of
542 a reduction of the maximum contract term for PURPA contracts from 20 years to
543 three years, to be consistent with the Company's hedging and trading policies and
544 practices for non-PURPA energy contracts and more aligned with the IRP cycle.

545 The Company is seeking this relief as a result of a significant increase in
546 PURPA contract requests received in 2014 and 2015, activity that Rocky Mountain
547 Power believes will harm customers unless the Commission directs modifications
548 to the Company's current Utah avoided cost contracts. As noted, PacifiCorp
549 currently has pending requests for 2,253 MW of new PURPA contracts in Utah, in
550 addition to the 1,041 MW of existing contracts. By comparison, Rocky Mountain
551 Power's minimum retail load in Utah in 2014 was 2,033 MW. Across its six-state
552 system, PacifiCorp currently has 3,693 MW of new PURPA contract requests, in
553 addition to the 1,991 MWs of PURPA power already under contract. This striking
554 increase in new QF activity exposes customers to higher price risk due to the sheer
555 volume of power that may become locked in at a fixed price for decades under
556 current QF PURPA contract terms.

557 The current Commission-approved PURPA contract length puts retail
558 customers at risk of harm due to significant and unnecessary exposure to long-term
559 price risk, a level of risk the Commission would not accept in the context of a non-

560 PURPA transaction. The Company has no control over this price risk; it must
561 purchase essentially an unlimited quantity of QF power under terms and conditions
562 the Commission controls. Under PURPA, only the Commission can mitigate this
563 price risk to customers.

564 The Company can mitigate the risk to customers of other long-term fixed
565 price transactions. The Company's practice since it completed the hedging
566 collaborative workshops in 2012 has been to limit hedges to 36 months or less
567 unless stakeholders express interest for longer term hedges. In the hedging
568 collaborative workshop, stakeholders made it clear that they did not believe long-
569 term gas hedges (and the corresponding long-term fixed-price risk) were in the best
570 interest of customers. The 20-year maximum QF contract term goes against this
571 conclusion reached by the collaborative stakeholders. For example, the Company
572 cannot (without specific stakeholder interest and review) enter into a 20-year hedge
573 for the natural gas fuel cost at one of its gas plants, such as Lakeside. But the
574 Company is mandated to enter into a 20-year contract, with a fixed-price hedge,
575 with a QF who may be displacing or avoiding the operation of that very same gas
576 plant, effectively locking in the price of that output for 20 years. The 20-year QF
577 contract term is not consistent with the hedging policy put in place as a direct result
578 of input from stakeholders.

579 As explained above, transactions that exceed 36 months require extensive
580 analysis and progressively higher level of management review. The primary reason
581 that such a rigorous review process is necessary when entering into long-term
582 transactions, and the reason the Company generally limits trading and hedging

583 activities to the prompt 36 months, is that long-term fixed price energy contracts
584 carry significant price risk. The market becomes more and more uncertain as you
585 move further into the future, and it is difficult to forecast with reasonable certainty
586 what prices will be far out into the future. Moreover, the Company does not
587 typically enter into long-term transactions unless those transactions have been
588 identified as least-cost, least-risk transactions through the IRP process. Even then,
589 the Company typically utilizes a rigorous RFP process to acquire any long-term
590 resource identified by the IRP action plan. At this point in time, the Company does
591 not have a need for a new long-term resource until 2028, and due to the timing of
592 this need, the Company will not have any action items to procure a new long-term
593 resource in the next two to four years.

594 The modification to the Company's current Utah avoided cost contract term is
595 required at this time to maintain the ratepayer indifference standard required by
596 PURPA and to protect Utah customers from ongoing harm.

597 **Q. Does this conclude your direct testimony?**

598 **A. Yes.**