

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of)	
Rocky Mountain Power for Authority)	DOCKET NO. 13-035-184
To Increase its Retail Electric Utility)	Exhibit DPU 3.0 Dir-Rev Req
Service Rates in Utah and for Approval)	
of Its Proposed Electric Service)	Testimony and Exhibits
Schedules and Electric Service)	Richard S. Hahn
Regulations.)	

**FOR THE DIVISION OF PUBLIC UTILITIES
DEPARTMENT OF COMMERCE
STATE OF UTAH**

REDACTED

**Testimony of
Richard S. Hahn**

May 1, 2014

TABLE OF CONTENTS

I. Introduction	1
II. Executive Summary of Testimony	3
III. Overview of Projected Plant In-Service	8
IV. Historical Summary of Capital Spending / Plant Additions.....	10
V. Summary of the Company’s Capital Planning Process	15
VI. Categories of Capital Projects	19
VII. Selection of Generic Projects	20
VIII. Analysis of Generic Projects.....	21
IX. Selection of Specific Projects Reviewed	30
X. Analysis of Specific Projects	33
A. Projects that will not be in-service by June 2015	34
B. Casper Outer Loop – New 115 kV Red Butte to WAPA	36
C. Sigurd – Red Butte 345 kV line.....	39
D. West Point- New 138 kV line & 40 MVA Substation.....	41
E. Whetstone 230-115 kV Substation Phase.....	44
F. EMS/SCADA Replacement Project	45
G. FC 200 to FC300 Replacement (Obsolescence)	50
H. Hydro Vehicles 2015	51
I. Vehicle Replacement	54
J. Mill Fork South Lease Acquisition.....	54
XI. Issues from the Prior General Rate Case	55
XII. Late-Filed Additions to Capital Projects Database.....	61
XIII. Additional Documentation.....	64
XIII. Conclusion	65

ATTACHMENTS

Exhibit DPU 3.1 Dir-Rev Req, Resume of Richard S. Hahn

Exhibit DPU 3.2 Dir-Rev Req, "Capital Database" (Data Request DPU 4.1)

Exhibit DPU 3.3 Dir-Rev Req, List of Generic Projects Analyzed

Exhibit DPU 3.4 Dir-Rev Req, List of Specific Projects Analyzed

Exhibit DPU 3.5 Dir-Rev Req, New Project Documentation (Data Request DPU 35.4)

Exhibit DPU 3.6 Dir-Rev Req, City Creek Documentation from Docket No. 11-035-200

1 **I. Introduction**

2

3 **Q: Please state your name, business address and title.**

4 A: My name is Richard S. Hahn. I am employed by La Capra Associates, Inc. (“La Capra
5 Associates”) as a Principal Consultant. My business address is One Washington Mall,
6 Boston, Massachusetts, 02108.

7

8 **Q: On whose behalf are you testifying?**

9 A: The Utah Division of Public Utilities (the “Division”).

10

11 **Q: Please summarize your educational and professional experience.**

12 A: I received my Bachelor’s in Science, Electrical Engineering, in 1973, and my Masters in
13 Science, Electrical Engineering, in 1974, both from Northeastern University. I received
14 my Masters in Business Administration from Boston College in 1982. Since joining La
15 Capra in 2004, I have worked on many projects related to energy markets, utility resource
16 planning projects, forecasts of wholesale market prices, and asset valuations. Prior to
17 joining La Capra, I was employed by NSTAR Electric & Gas (formerly Boston Edison
18 Company) from 1973 to 2003, where I was responsible for, among other activities,
19 integrated resource planning and procurement of power supplies via Requests For
20 Proposals (“RFPs”) and bilateral contract negotiations. Throughout my career, I have
21 gained and demonstrated considerable experience and expertise in utility planning

22 activities. I am a registered professional electrical engineer in the Commonwealth of

23 Massachusetts. My resume is provided in Exhibit DPU 3.1 Dir-Rev Req.

24

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

26 A: La Capra Associates was retained by the Division to assist in reviewing the Application
27 of Rocky Mountain Power (“RMP” or the “Company”) seeking approval from the Public
28 Service Commission of Utah (“Commission”) to increase electric rates. The scope of our
29 assignment was to review the proposed additions to plant in-service. This direct
30 testimony presents the results of and the conclusions from that review.

31

32 **Q: Have you previously testified before the Public Service Commission of Utah?**

33 A: Yes. I testified in the same capacity in the previous Rocky Mountain Power general rate
34 case, Docket No. 11-035-200. I testified in Docket No. 10-035-126 regarding the
35 Application of Rocky Mountain Power for Approval of a Significant Energy Resource
36 Decision Resulting from the All Source Request for Proposals. I testified in Docket No.
37 10-035-124 regarding the Application of Rocky Mountain Power for Authority to
38 Increase Its Retail Electric Utility Service Rates in Utah and for Approval of Its Proposed
39 Electric Service Schedules and Electric Service Regulations. I have also provided
40 testimony in the last two RMP energy balancing account reviews, Docket Nos. 12-035-67
41 and 13-035-32.

42

43 **II. Executive Summary of Testimony**

44

45 **Q: Can you summarize the results and conclusions of your review of the Application in**
46 **this proceeding?**

47 A: The results and conclusions of my review can be summarized as follows.

- 48 • I find that the Company's written capital planning and governance processes
49 themselves are reasonable.
- 50 • The Company has not always followed its capital planning process for many
51 proposed capital projects. In some cases, adequate documentation has not been
52 provided or the Company has acknowledged that such documentation does not yet
53 exist.
- 54 • The Company's filing projects plant additions (before netting retirements) from July
55 2013 through June 2015 to be \$2,578 million. The test year plant in-service is based
56 upon the thirteen-month average from June 2014 through June 2015. From July 2013
57 through May 2014, projected plant additions are approximately \$676 million, and
58 \$1,902 million is projected to be added from June 2014 through June 2015.¹
- 59 • Since its January filing, the Company has provided updated information based on
60 actual expenditures through February 2014 and revised forecasts for March 2014 to
61 June 2015. DPU staff's analysis of the updated information shows a revised forecast
62 of \$2,542 million in plant additions over the 24 month period.

¹ A portion of total Company plant additions will be allocated to Utah customers, as described later in this testimony. Unless specifically noted as Utah's share, the costs discussed in this testimony are total Company costs.

- 63 • Some proposed projects have currently expected in-service dates that are different
64 than the in-service dates included in the Company's projected plant additions.
- 65 • I have serious concerns about the Company's process for budgeting and accounting
66 for generic projects, which account for more than 20% of the forecast additions to
67 plant in service.
- 68 • Based upon my review of the original filing, I find that several adjustments to the
69 Company's proposed capital spending from July 2013 to June 2015 should be made.
70 Specifically, I recommend that the \$2,578 million in capital spending proposed by the
71 Company be reduced by \$442 million due to adjustments to 11 projects. The impact
72 on the 13-month test period average addition to plant is \$45 million, and Utah's share
73 of this reduction is about \$22 million. Figure 1 below summarizes the adjustments to
74 the Company's proposed capital spending for the July 2013 to June 2015 period
75 related to my sample review.
- 76 • Subsequent to its filing in this case, the Company has removed 20 projects from its
77 forecast of additions to plant in-service before or during the test period. These
78 projects, which contributed a total of \$58 million to the originally-proposed capital
79 additions, should also be removed from rate base.
- 80 • Subsequent to its filing in this case, the Company proposed 10 new projects forecast
81 to be in-service between March 2014 and June 2015, with total capital spending of
82 \$25.9 million. The Company failed to provide adequate documentation showing need
83 or internal approval for these projects, and so they should not be allowed in rate base.

- 84 • Division staff has estimated the effect on revenue requirements of adjusting projected
85 plant additions as recommended in my testimony. DPU updates based on actual plant
86 additions and other actuals through February 2014 and changes in the Company's
87 forecast of future plant additions increase Utah revenue requirements by \$0.232
88 million. My recommended adjustments to the 11 projects, as described in Section X
89 of my testimony, has the effect of reducing Utah revenue requirements by \$2.664
90 million relative to the DPU-adjusted amount. Disallowing the addition of the 10
91 newly-proposed projects, as described in Section XII of my testimony, has the effect
92 of reducing Utah revenue requirements by \$0.683 million relative to the DPU-
93 adjusted amount. The net effect of these changes is to reduce the revenue requirement
94 by \$3.3 million relative to the DPU-adjusted amount. This change is described
95 further in Exhibit DPU 5.0 Dir-Rev Req, the testimony of Matthew Croft on behalf of
96 the Division.
- 97 • The Company failed to follow its own policies and procedures with regard to
98 collecting contribution in aid of construction (CIAC) payments associated with the
99 City Creek project, which was completed and placed into service prior to July 2013.
100 The \$10.85 million shortfall in CIAC payment collection should be removed from
101 plant in-service in this case. Division staff has estimated that such a removal would
102 reduce the revenue requirement by \$1.3 million.

103

Figure 1

La Capra Associates Proposed Adjustments to Sample of RMP Forecasted Plant Additions

Project	Function	RMP Filing per DPU 4.1					LCA Proposed Adjustments					Change to UT Share 13-mo
		Factor	In-Service	July13 to Jun15 Plant Adds	Test Period 13 Month Avg. Plant Adds	UT Share - 13-mo Avg. Plant Adds	Factor	In-Service	July13 to Jun15 Plant Adds	Test Period 13 Month Avg. Plant Adds	UT Share - 13-mo Avg. Plant Adds	
FC200 to FC300 Replacement (Obsolescence)	GNLP	SG	Dec-13	1,127,016	1,127,016	480,428	UT	Dec-13	279,160	279,160	279,160	(201,268)
MILL FORK SOUTH LEASE ACQUISITION	MNGP	SE	Various	5,121,701	3,484,598	1,462,546	SE	Unknown	-	-	-	(1,462,546)
Casper Outer Loop - New 115kV Red Butte to WAPA	TRNP	SG	Jun-15	6,510,504	500,808	213,486	SG	Jun-15	267,000	20,538	8,755	(204,731)
Sigurd - Red Butte 345 kV line	TRNP	SG	Jun-15	363,731,733	27,979,364	11,927,132	SG	post-Jun15	-	-	-	(11,927,132)
West Point: New 138 kV Line & 40 MVA Substation	TRNP	SG	Apr-15	6,639,843	1,524,847	650,017	SG	post-Jun15	-	-	-	(650,017)
West Point: New 138 kV Line & 40 MVA Substation	DSTP	UT	Apr-15	8,758,441	2,002,422	2,002,422	UT	post-Jun15	-	-	-	(2,002,422)
Whetstone 230-115KV Substation phase 1 - TPL002	TRNP	SG	Jun-15	17,746,272	1,365,098	581,918	SG	post-Jun15	-	-	-	(581,918)
N1--N1--New Revenue/Connection - Residential	DSTP	UT	Various	46,374,853	33,850,979	33,850,979	UT	Various	41,247,063	30,742,347	30,742,347	(3,108,632)
Hydro Vehicles 2015	GNLP	SG	Jun-15	674,269	51,867	22,110	SG	Jun-15	377,239	29,018	12,370	(9,740)
VEHICLE REPLACEMENT	GNLP	SE	Jul-14	40,000	36,923	15,497	SE	Jul-14	-	-	-	(15,497)
EMS/SCADA Replacement / Upgrade (combined)	INTP/GNLP	SO	May-15	27,813,671	4,279,026	1,817,315	SO	post-Jun15	-	-	-	(1,817,315)
Bigfork Penstock 3 Headgate Upgrade	HYDP	SG-P	Oct-14	93,448	64,695	27,578	SG-P	Jul-05	-	-	-	(27,578)
Subtotal				484,631,752	76,267,642	53,051,428			42,170,462	31,071,064	31,042,632	(22,008,796)
Removed from Forecast by RMP*				33,946,877	10,244,280	4,366,964			-	-	-	(4,366,964)
Remaining Projects in LCA Sample				294,784,267	254,378,737	126,914,318			294,784,267	254,378,737	126,914,318	-
LCA Sample TOTALS:				813,362,896	340,890,659	184,332,710			336,954,730	285,449,800	157,956,950	(26,375,760)

* Per response to DPU 35.4. See Figure 14 for a list of these projects that were in the LCA sample. Adjustments related to other removed projects are made in DPU Staff Testimony.

104

105 **III. Overview of Projected Plant In-Service**

106

107 **Q: Can you summarize the Company's proposed additions to plant in-service?**

108 A: In this rate case, the Company proposes to use the average plant in-service balance for
109 thirteen months from June 2014 to June 2015. At the time the filing was prepared, it is
110 my understanding that the Company had actual plant in-service data as of June 30, 2013.
111 The Company projected net plant additions by month over the 24 month period from July
112 2013 through June 2015. Plant additions were projected by compiling estimates of
113 proposed capital spending on various projects. A project with a specific in-service date
114 was added to the plant in-service database in the month that the project was expected to
115 be in-service. For projects without any specific in-service date, spending was spread
116 across the 24 months using historical distributions. Because these generic projects
117 represent an aggregation of many smaller capital investments, the assumption of monthly
118 closings to plant-in-service is intended to simulate what will actually occur. Monthly
119 retirements were estimated using statistical analysis. Net plant in-service at the end of
120 any given month equals the beginning balance plus plant additions less plant retirements.

121

122 The Company's January filing includes a forecast of \$2,681 million in new capital
123 projects between July 2013 and June 2015. There are 1,885 individually identified
124 projects that sum to this total. Figure 2 below provides a summary of the Company's
125 proposed additions during this 24 month period. The data in Figure 2 is broken down by
126 plant category, project type (either "generic" or "specific"), and by spending level. A

127 specific project is typically a large discrete investment to address a particular, identified
 128 need. For example, if load growth causes transformers at a particular substation to be
 129 overloaded, the Company will replace those transformers with ones of higher capacity. A
 130 generic project is one where many small capital spending items may be aggregated into
 131 one cost category, such as storm costs. There is typically no single in-service date for
 132 these generic projects.

Figure 2

13-035-184 SUMMARY OF PROJECTED CAPITAL EXPENDITURES										
July 2013 to June 2015										
Sum of Costs (\$Millions)		Generic				Specific				Grand Total
Account	Category	>\$5M	\$5M to \$1M	<\$1M	Total	>\$5M	\$5M to \$1M	<\$1M	Total	
302-303	Intangible Plant	14.27	3.57	0.51	18.35	19.90	7.96	4.10	31.96	50.32
312	Steam Plant	0	0	0	0	209.10	80.32	117.83	407.25	407.25
332	Hydro Plant	0	0	0	0	58.80	32.21	27.21	118.22	118.22
343	Other Plant	0	0	0	0	737.84	8.95	20.60	767.40	767.40
355	Transmission Plant	60.84	36.99	21.50	119.33	578.31	59.01	14.50	651.81	771.15
360-373	Distribution Plant	228.76	101.06	37.88	367.70	21.45	13.52	9.09	44.06	411.76
397	General Plant	30.90	22.10	11.34	64.34	15.20	35.08	13.97	64.24	128.59
399	Mining Plant	0	0	0	0	5.12	11.02	10.48	26.62	26.62
Grand Total		334.77	163.72	71.24	569.73	1,645.71	248.07	217.77	2,111.56	2,681.29
Number of Projects		Generic				Specific				Grand Total
Account	Category	>\$5M	\$5M to \$1M	<\$1M	Total	>\$5M	\$5M to \$1M	<\$1M	Total	
302-303	Intangible Plant	1	1	2	4	1	3	30	34	38
312	Steam Plant	0	0	0	0	12	41	749	802	802
332	Hydro Plant	0	0	0	0	1	15	183	199	199
343	Other Plant	0	0	0	0	7	4	134	145	145
355	Transmission Plant	6	19	95	120	18	24	36	78	198
360-373	Distribution Plant	21	46	126	193	3	4	22	29	222
397	General Plant	3	12	49	64	2	14	154	170	234
399	Mining Plant	0	0	0	0	1	7	39	47	47
Grand Total		31	78	272	381	45	112	1,347	1,504	1,885

134
135

136 Forecast plant additions are \$2,681 million minus \$103 million in “Five Year Average
 137 Removals” which equals \$2,578M in plant additions (see Figure 3).

138

139

Figure 3

13-035-184 5 YEAR AVERAGE REMOVALS July 2013 to June 2015				
Sum of Costs (\$Millions)		[1]	[2]	
Account	Category	Capital Projects Database	5 Year Avg Removals	Plant Additions
302-303	Intangible Plant	50.3	0.0	50.3
312	Steam Plant	407.3	(41.7)	365.5
332	Hydro Plant	118.2	(2.7)	115.5
343	Other Plant	767.4	(2.2)	765.2
355	Transmission Plant	771.1	(11.7)	759.4
360-373	Distribution Plant	411.8	(42.8)	369.0
397	General Plant	128.6	(1.9)	126.7
399	Mining Plant	26.6	(0.1)	26.5
Grand Total		2,681.3	(103.1)	2,578.2
Notes:				
[1] Response to DPU 4.1				
[2] SRM-3, 8.6.21-8.6.23				

140

141 **IV. Historical Summary of Capital Spending / Plant Additions**

142

143 **Q: How does the Company’s projected capital spending for the purposes of this rate**
 144 **case compare to recent actual spending?**

145 **A:** The projected \$2,578 million over two years equates to annual additions to plant in-
 146 service of about \$1,289 million. Since being acquired by Mid-American Energy in early
 147 2006, the Company has invested on average \$1,598 million per year in new plant, with

148 \$1,214 million added in 2012. Figure 4 below provides this historic data based on the

149 Company's annual FERC Form 1 reports.

150 Figure 4

PacifiCorp Plant Additions 2006 through 2012								
(\$millions)								
Plant Category	2006	2007	2008	2009	2010	2011	2012	2006-12 Avg
distribution	\$239	\$283	\$282	\$257	\$222	\$243	\$209	\$248
general	\$81	\$72	\$75	\$76	\$89	\$131	\$87	\$87
hydro	\$15	\$19	\$43	\$57	\$32	\$80	\$161	\$58
intangible	\$34	\$18	\$81	\$33	\$101	\$51	\$27	\$49
other prod	\$360	\$586	\$780	\$588	\$252	\$27	\$36	\$376
steam	\$322	\$186	\$331	\$273	\$687	\$614	\$445	\$408
transmission	\$121	\$184	\$217	\$291	\$1,030	\$204	\$248	\$328
net adjustments	(\$0)	\$0	\$303	\$3	\$2	(\$1)	\$0	\$44
total	\$1,172	\$1,346	\$2,111	\$1,578	\$2,416	\$1,350	\$1,214	\$1,598

151

152 The Company projects retirements of about \$616 million from July 2013 through June

153 2015, resulting in net plant added of \$1,962 million (\$2,578 million in new capital

154 investments less \$616 million in retirements). Thus, plant in-service from July 2013

155 through June 2015 increases by \$1,962 million to \$26,106 million from \$24,144 million.

156 Figure 5 below shows plant in-service balances from 2005 through the test year

157 projection in this case. From 2005 through 2012, plant in-service increased at a

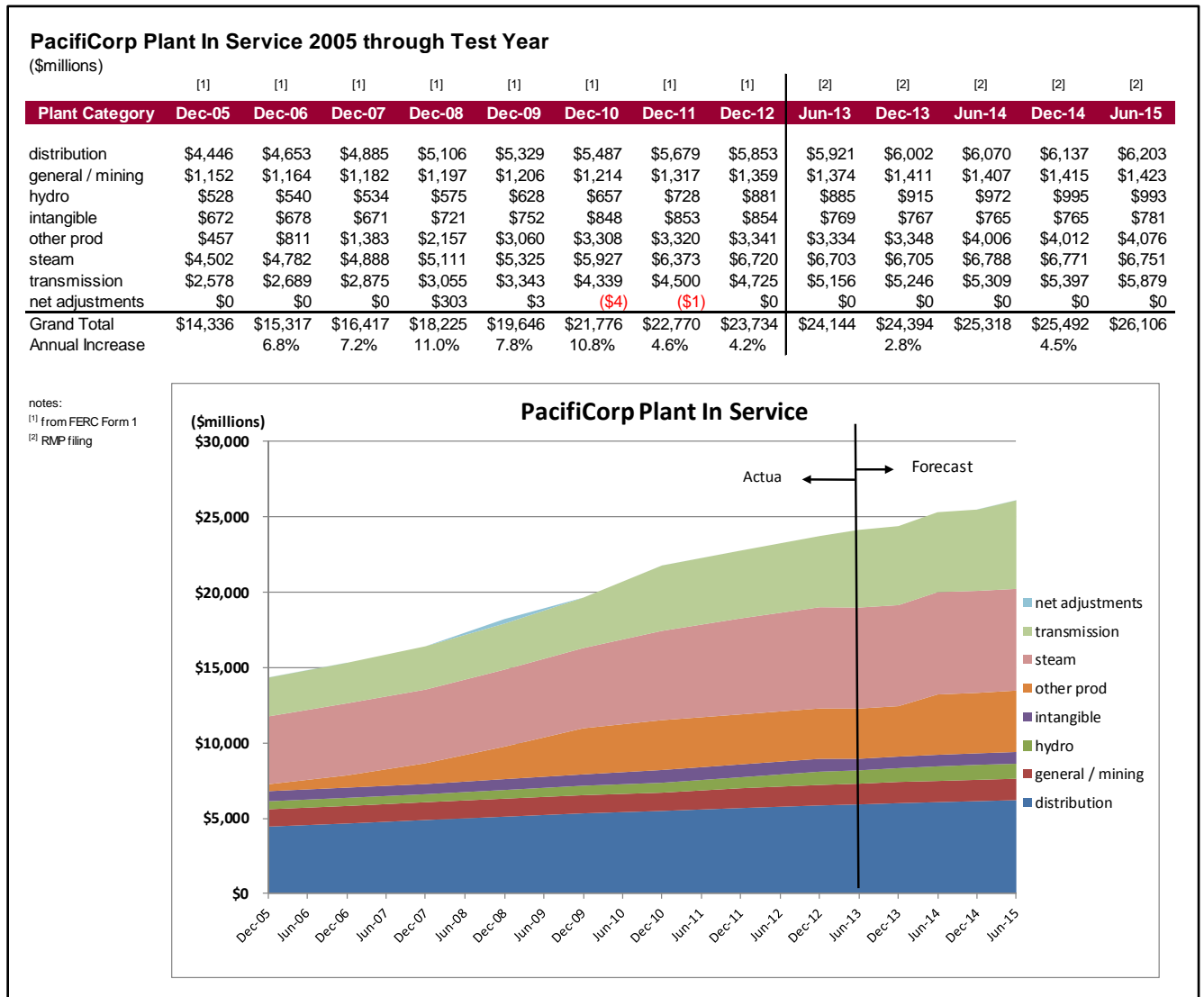
158 compound annual growth rate (CAGR) of 7.5% from \$14,336 million to \$23,734 million.

159 From July 2013 to June 2015 plant in-service is forecast to increase at a CAGR of 4.0%.

160

161

Figure 5



162

163 **Q: Have the proposed plant in-service additions changed since the Company filed its**
164 **case in January?**

165 A: Yes, as new information has become available the Company has provided updates to its
166 capital spending forecast in response to data requests. The updates include the following:

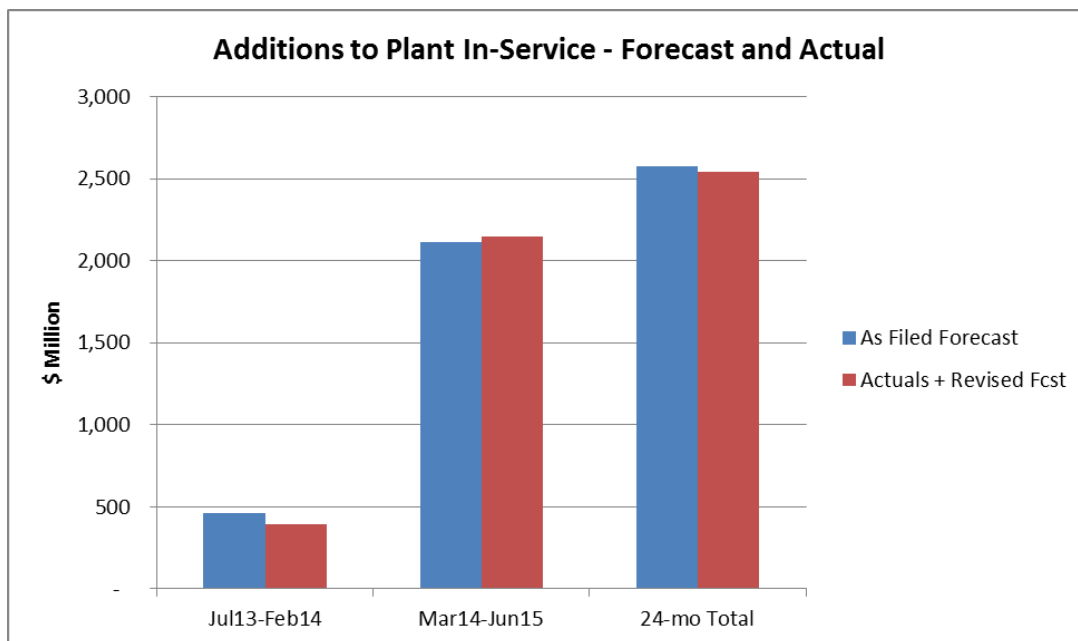
- 167 1) The Company has provided actual monthly plant in-service figures by
168 function through February 2014, as well as project-specific actual figures
169 for projects greater than \$1 million²;
- 170 2) The Company has identified 20 projects representing a total of \$57.8
171 million in proposed additions to plant in-service that have either been
172 cancelled or delayed beyond the test period³;
- 173 3) The Company has proposed an additional 10 projects representing \$25.9
174 million that were not in the filing but are now forecast to be in-service
175 between March 2014 and the end of the test period in June 2015⁴; and
- 176 4) The Company has revised the timing and spending amount from 11
177 projects representing a total of \$90.0 million in plant in-service additions
178 (revised to \$87.9 million)⁵.

179 The net impact of these revisions is to reduce the projected July 2013 to June 2015
180 additions to plant in-service from \$2,578 million to \$2,542 million. The figure below
181 shows how the as-filed forecast compares to actual plant additions in the 8-month period

² RMP Response to Data Request DPU 8.1
³ RMP Response to Data Request DPU 35.1
⁴ RMP Response to Data Request DPU 35.4
⁵ RMP Response to Data Requests DPU 35.2 and 35.3

182 from July 2013 to February 2014, and the revised forecast for the remaining 16-month
183 period from March 2014 to June 2015.

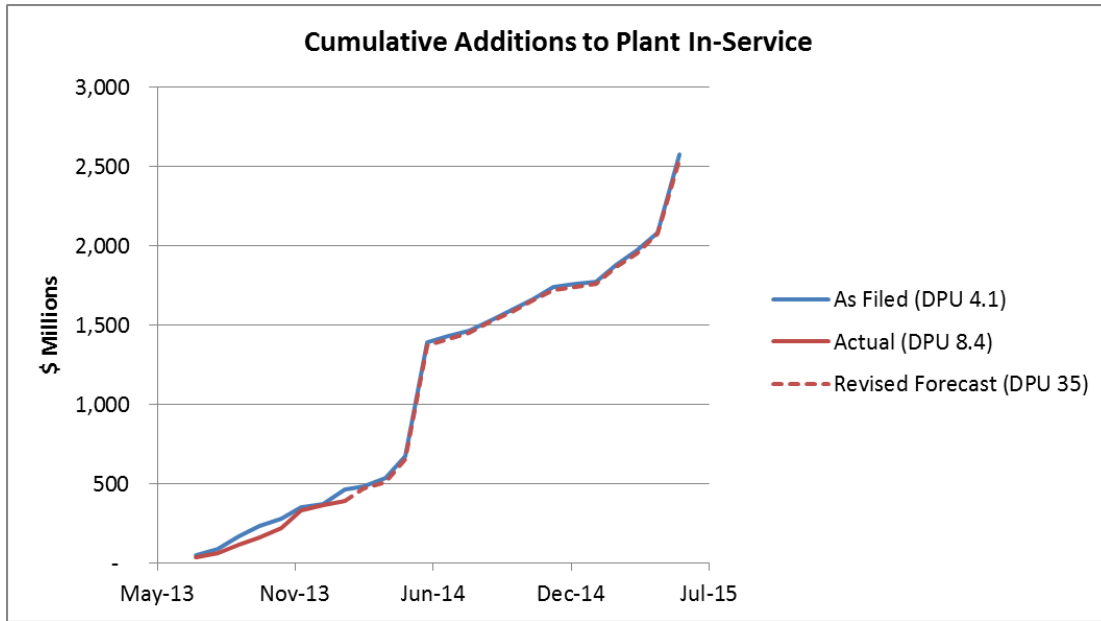
184 Figure 6



185
186 The cumulative additions to electric plant in-service are shown graphically in the figure below:

187

Figure 7



188

189

190 **Q: Do you recommend adjusting the Company's forecast of plant in-service based on**
191 **these actual spending and revised forecasts?**

192 **A:** Yes, with certain project-specific exceptions detailed later in my testimony, it is
193 appropriate to update the Company's filed figures based on new information that has
194 become available.

195

196 **V. Summary of the Company's Capital Planning Process**

197

198 **Q: What is the Company's internal process for developing its plans for capital**
199 **spending?**

200 **A:** DPU Data Request 9.2 asked the Company to provide copies of all internal
201 documentation describing the procedures or protocols for internal approval of capital

202 projects, including any criteria, such as benefit/cost analyses that are required to support
203 such approval. In its response the Company provided a document titled “Corporate
204 Governance and Approvals Process.”

205

206 **Q: What information about project approvals is provided in the Corporate Governance**
207 **and Approvals Process policy document?**

208 A: This documentation describes how the authority to approve capital projects is delegated
209 to various levels of management. For example, the President of Rocky Mountain Power
210 can approve capital projects with estimated costs up to \$25 million. For projects greater
211 than \$25 million, approval from the PacifiCorp CEO is required. The governance
212 process document also establishes organizational limits on who can approve certain types
213 of projects. For example, all hydro relicensing projects require the approval of the
214 PacifiCorp CEO, regardless of cost. Information technology projects must be approved
215 by the PacifiCorp IT organization. This delegation of authority is intended to assure that
216 large projects are reviewed at the appropriate levels of management and that proper
217 controls are in place to plan for and monitor capital spending. The policy explicitly states:
218 “Inclusion of a project in the approved budget/10-year plan does not constitute project
219 approval; specific project approval must be obtained and documented in accordance with
220 this policy.”⁶

221

⁶ Attachment DPU 9.2 at 5.

222 **Q: What policies regarding documentation of capital expenditure projects is provided**
223 **in the Corporate Governance and Approvals Process policy document?**

224 A: Section 3.1 of this document describes the guiding principles and policies for capital
225 expenditures that will be followed by the Company. The overview states, “The key
226 consideration is to ensure that projects provide clear, *documented* customer benefits in
227 order to maximize regulatory recovery of costs and earnings on investment (emphasis
228 added).”⁷ There are numerous prescriptions within the document with respect to required
229 approvals and documentation for projects. In particular, section 3.3 states that “a standard
230 proposal package, including financial modeling results, will be prepared for capital
231 projects \$1 million and above...”⁸

232
233 **Q: Are these the only documentation that you would expect to be available for capital**
234 **projects?**

235 A: No. These documents are only for gaining corporate authorization to spend the funds, as
236 well as facilitating regulatory oversight. They represent the paperwork for the financial
237 operations of the Company, including regulatory cost recovery. I would expect that there
238 would be other documentation for most capital projects, such as engineering and other
239 technical studies. These technical studies would describe more fully the need for the
240 project including the timing, the alternatives considered, the basis for the cost of each
241 alternative, the technical and economic evaluation of the alternatives, and a discussion of
242 how the preferred or recommended project was chosen. It would be my expectation that

⁷ Attachment DPU 9.2, at 5.

⁸ Attachment DPU 9.2, at 8.

243 such documentation would be prepared prior to the development of project proposals, and
244 that such documentation would be reviewed prior to approval of the project.

245

246 **Q: Does the Company’s process include monitoring and post-completion assessments?**

247 A: Yes. The governance process states that Post Investment Reviews (“PIRs”) are required
248 for a certain percentage of completed capital projects. A PIR is an after-the-fact analysis
249 that evaluates business control of the project and any lessons learned. They are required
250 for 30% of projects greater than \$10 million, 5% of projects between \$1 million and \$10
251 million, and 2% of projects between \$250,000 and \$1 million. An Interim Project
252 Appraisal (“IPA”) may be performed for projects with a duration greater than 1 year.

253

254 **Q: What is your assessment of the Company’s capital planning process?**

255 A: The approval and governance processes described above are similar to what I have seen
256 at other utilities. The implementation of this process and the compilation of all
257 appropriate documentation, including the technical analyses and supporting studies, are
258 the keys to a defensible plan. APRs / ERs / IADs / PCNs should be available for all
259 capital projects. These are the key documents as they represent an approved level of
260 capital spending. It is possible that certain projects may be included in the 10-year
261 Capital Plan that do not yet have approval or authorization. Thus, the fact that a project
262 is included in a capital budget is not sufficient to justify inclusion in a forecast of plant
263 in-service for a forward looking test year. The up-to-date APRs, ERs, IADs, and PCNs
264 should provide the latest basis upon which to base a forecast of plant in-service.

265

266 **VI. Categories of Capital Projects**

267

268 **Q: Earlier in this testimony, you discussed generic and specific projects. Can you**
269 **explain further how you chose these two categories and how the Company's capital**
270 **database was disaggregated into these categories?**

271 A: In response to DPU Data Request 4.1, details were provided on 1,885 individual capital
272 projects ("Capital database", provided as Exhibit DPU 3.2 Dir-Rev Req). As shown in
273 Figure 2 above, I have classified 381 of these projects as generic. By that, I mean that
274 these projects do not have a specific in-service date and they are not associated with
275 specific pieces of equipment or investments. These projects are for capital investments in
276 broad categories. For example, the Company has included capital expenditures for a
277 project named "Replace - Storm and Casualty". The Company does not project exactly
278 when storms will occur, nor what specific facilities will be replaced. However, from
279 experience, it knows that it typically spends capital dollars on storm restoration each
280 year. Projects such as this are treated differently from specific projects, where a specific
281 expected need exists and the facilities to be installed and the installation schedule can be
282 predicted. Generic projects are not assigned an APR or a Work Breakdown Service
283 (WBS) number. So, the 381 projects listed in the capital database that did not have an
284 assigned WBS or APR and had various in-service dates were deemed to be generic
285 projects. A review of the titles of these projects confirmed that designation.

286

287 **VII. Selection of Generic Projects**

288

289 **Q: How many of the 381 generic capital projects shown in Figure 2 did you examine in**
290 **further detail?**

291 A: It would not be practical to examine all 381 projects in detail. I created a sample of 34
292 generic projects to examine in more detail. I did not include in this sample any generic
293 projects that are directly assigned to other states besides Utah. Since customers of RMP
294 would not have to pay for any of these projects that are directly assigned or allocated to
295 other states, I did not review them. The sample list of generic projects was developed by
296 first examining the brief description provided by the Company and selecting those
297 projects with obvious questions. I also included some projects that were reviewed in the
298 prior rate case, but were not resolved by the Commission. The balance of the sample was
299 randomly chosen.

300

301 Of the 34 projects reviewed, 25 projects were associated with transmission plant, six
302 were associated with distribution plant, two were associated with intangible plant, and
303 one was associated with general plant. Figure 6 below provides a summary of the generic
304 projects analyzed. The total cost of the 34 projects reviewed is about \$160 million, or
305 roughly a quarter of the \$570 million total for all generic projects in the Company's
306 Capital Database. Exhibit DPU 3.3 Dir-Rev Req provides a listing of the individual
307 generic capital projects analyzed.

308

309

Figure 8

GENERIC PROJECTS ANALYZED		
Plant Type	Count	Projected Plant Additions (\$000s)
Intangible	2	\$17,843
Transmission	25	\$33,024
Distribution	6	\$90,684
General	1	\$18,572
Grand Total	34	\$160,122

310

311 **VIII. Analysis of Generic Projects**

312

313 **Q: Please explain your methodology for analyzing the projected capital spending for**
314 **generic capital projects.**

315 A: Because generic capital projects are by their nature not tied to a specific need or a single
316 asset or investment, it was necessary to analyze historical data and spending trends and
317 combine that analysis with any additional explanation provided by the Company in
318 responses to data requests.

319

320 **Q: Have you used this methodology in the past?**

321 A: Yes, I used the same basic methodology to evaluate generic projects in my Direct
322 Testimony in the prior general rate case (Docket No. 11-035-200).

323

324 **Q: What information did you seek from the Company to complete your analysis?**

325 A: In Data Request DPU 22.5, the Company was asked to provide for each of the 34 generic
326 projects in my sample:

- 327 1) An explanation of the difference between multiple projects with the same
328 name;
- 329 2) An explanation of the Company's method of establishing projected capital
330 spending amounts;
- 331 3) An explanation of any adjustments to reflect changes in economic conditions;
- 332 4) Budgeted and actual capital expenditures for the years 2008-2013;
- 333 5) Documentation of the reason for any significant variance between budgeted
334 and actual spending.

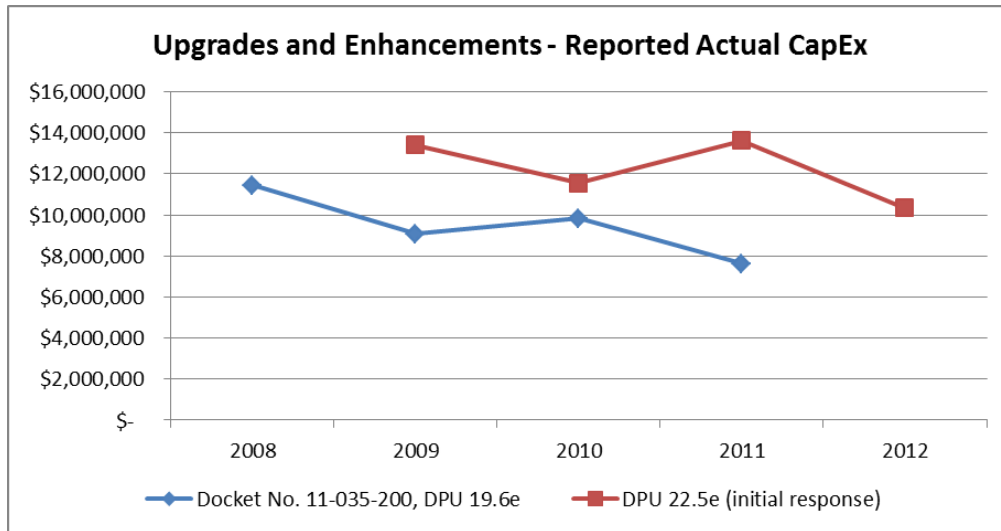
335 **Q: How would you characterize the Company's response to the data request?**

336 A: The Company's initial response to the data request was incomplete. It did not address all
337 the projects in the sample, and the documents that were provided did not contain the level
338 of detail necessary to review the Company's forecasts. More complete responses were
339 eventually provided in response to follow-up requests. However, I came to have serious
340 concerns about the accuracy of the data provided. Some of the projects in my sample
341 happened to be in my sample in the last rate case (Docket No. 11-035-200) as well. Since
342 the data request explicitly requested historical capital expenditure data in the same format
343 that it was provided in that case (for the years 2006-2011), I was able to compare actual
344 data for the overlapping years of 2008-2011. I found that the actual historical data for
345 some years was different in this case compared to the last rate case, and in many cases the

346 disparity was quite significant. The figure below shows an example of one project,

347 Upgrades and Enhancements.

348 Figure 9



349

350 **Q: What was the Company's explanation for the disparity?**

351 A: A conference call was held with Company representatives and DPU staff on April 14,
352 2014 to discuss the issues I identified with the generic projects data. Prior to the call, the
353 Company provided a 4th Supplemental response to DPU 22.5 with revised data for
354 several projects that corrected a double-counting mistake in the original response. This
355 revised data appeared to be consistent with data received in the last case. However,
356 during the course of the phone call, I became aware of several facts that decreased my
357 confidence that I can perform an effective review of these generic projects based on the
358 information the Company is able to provide.

359 **Q: What concerns do you have?**

360 A: One clarification that was offered is that four projects in the capital database -- Total
361 Obsolescence Management (TOM), Upgrades and Enhancements, Corp Optimization,

362 and IT Updates – are all tracked within a single category of IT Management. Actual or
363 planned IT expenditures are not assigned to an individual project code, so any numbers
364 provided for these projects are subject to the judgment of an analyst tasked with
365 providing the response. It appears that different analysts performed this disaggregation in
366 this case and the previous case. Furthermore, the Company clarified that “reason codes”
367 for other generic projects are periodically changed, and the changed codes are applied
368 retroactively to past expenditures. However, the Company keeps no records of when and
369 how such accounting changes are made.

370

371 While the designation of individual expenditures to generic project categories or “reason
372 codes” is not always precise and requires some measure of subjective decision-making, I
373 see no reason for the Company’s failure to maintain a stable and transparent accounting
374 of these decisions. It is very difficult, if not impossible, to review the capital budgeting
375 and expenditure decisions made by the Company if the underlying actual historical data
376 is inconsistent and subject to retroactive revision.

377

378 **Q: What do you recommend with regard to the Company’s process for forecasting**
379 **generic project budgets?**

380 A: The Company is forecasting almost \$600 million in additions to plant in service for
381 generic projects, or more than 20% of total forecasted capital additions. Though
382 individual expenditures tend to be smaller, they add up to a significant portion of the
383 capital budget. It appears to me that the Company does not have a consistent and

384 transparent methodology for recording actual historical data and making projections, and
385 it certainly hasn't documented its forecasting process satisfactorily. I recommend that the
386 Commission direct the Company to address these issues and improve the generic project
387 budgeting process in more detail to assure more effective oversight before— and in
388 conjunction with—filing its next rate case.

389

390 **Q: Have you reviewed the revised data for the sample generic projects?**

391 A: Yes, I have. Setting aside for the moment my underlying concerns about the data itself, I
392 still analyzed the final revised data provided according to the methodology I described
393 earlier. First I analyzed spending and budgeting trends to determine if the Company's
394 proposed additions are in line with recent history. In any cases when the proposed
395 spending was out of line with recent trends, I reviewed any additional explanation
396 provided by the Company in responses to data requests. The Company has stated that it
397 also examines recent spending trends in establishing its projected plant additions for
398 generic projects.⁹

399

400 **Q: Please describe your analysis of the N1–New Revenue/Connection – Residential**
401 **(UT) project.**

402 A: This project represents the costs incurred to connect new residential customers in Utah to
403 the RMP system. It is logical to treat this as a generic project because it consists of more
404 than 1,000 individual connection projects each year. The Company forecasts \$46.4

⁹ See response to Data Request DPU 22.5b.

405 million added to plant in-service between July 2013 and June 2015. The forecast is based
 406 on the customer forecast used in the Company's load forecast multiplied by a flat per
 407 connection cost.¹⁰

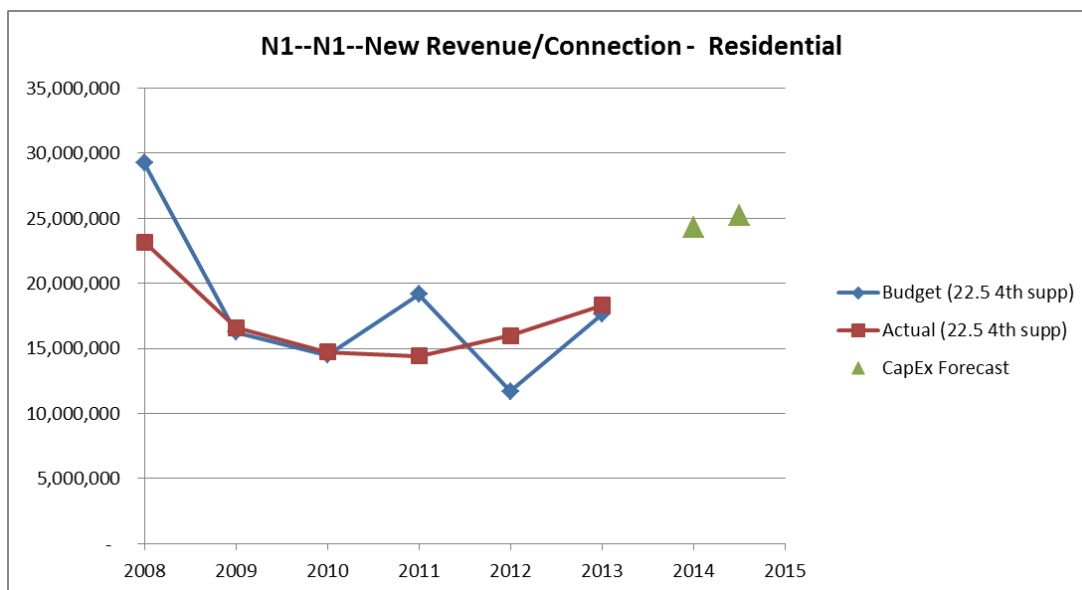
408 **Q: Do the capital expenditures for this project appear to line up with historical trends?**

409 A: Though actual expenditures in this category have been rising since 2011, it appeared to
 410 me that the projected spending was significantly above even the trend in the past few
 411 years. The figure below shows data provided by the Company for both actual spending
 412 (red line with square markers) and budgeted amounts (blue line with diamond markers)
 413 through 2013. The green triangles represent the proposed spending for 2014 and the 12
 414 month period ending in June 2015.

415

416

Figure 10



417

418

¹⁰ See response to Data Request DPU 22.7.

419 **Q: Has the Company provided documentation sufficient to support this step increase?**

420 A: No. Given the formula for producing the budget, the increase must be a result of either an
421 increase in the number of customers or an increase in per unit cost (or both) above recent
422 trends. The Company has provided no evidence that the per unit cost of connections has
423 risen materially. According to Company Witness Kelcey Brown, “the Company forecasts
424 the number of customers using IHS Global Insight’s forecast of number of households
425 and population as the demographic driver.”¹¹ The confidential figure below shows the
426 IHS Global Insight forecast of incremental household growth in Utah used in the load
427 forecast (red line with square markers).¹² The blue line with diamond markers shows
428 actual spending on new residential connections for the past six years. The trend for new
429 household growth is [REDACTED]. I see no evidence here to justify
430 such a marked increase above spending trends as proposed by the Company for this
431 project category. I recommend an adjusted forecast that maintains the historic spending
432 trend from 2011 to 2013 into 2014 and 2015 (see purple dashed line in figure below).

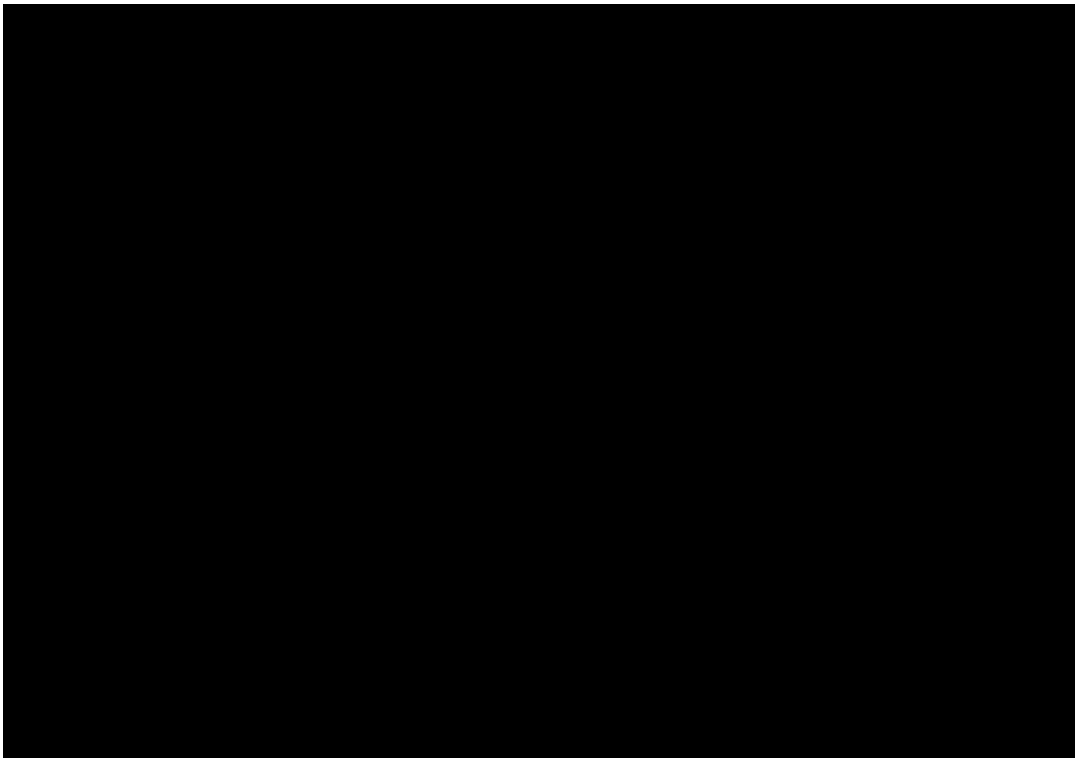
433

¹¹ Prefiled Direct Testimony of Kelcey Brown, lines 183-184.

¹² Response to Data Request DPU 10.15.

434

Confidential Figure 11



435

436 This adjustment results in higher plant additions in 2013 (in line with actual) and lower
437 additions in 2014 and 2015. I used the Company's monthly spending distribution
438 numbers to develop monthly figures for the test period. The resulting 24 month total
439 additions to EPIS total \$39.7 million, or an 11% reduction from the Company's proposed
440 \$46.4 million. The impact of this adjustment is described in Exhibit DPU 5.0, staff's
441 direct testimony in this proceeding.

442

443 **Q: Do you recommend reducing the budgeted capital additions for all generic projects**
444 **that are projected to be higher than their historical trends?**

445 A: No. Through discovery, the Company was provided the opportunity to explain any
446 variance between their projected expenditures and historic spending trend. In other cases

447 I found their explanations sufficient. Therefore, I am not recommending adjustments to
448 any other generic projects at this time.

449

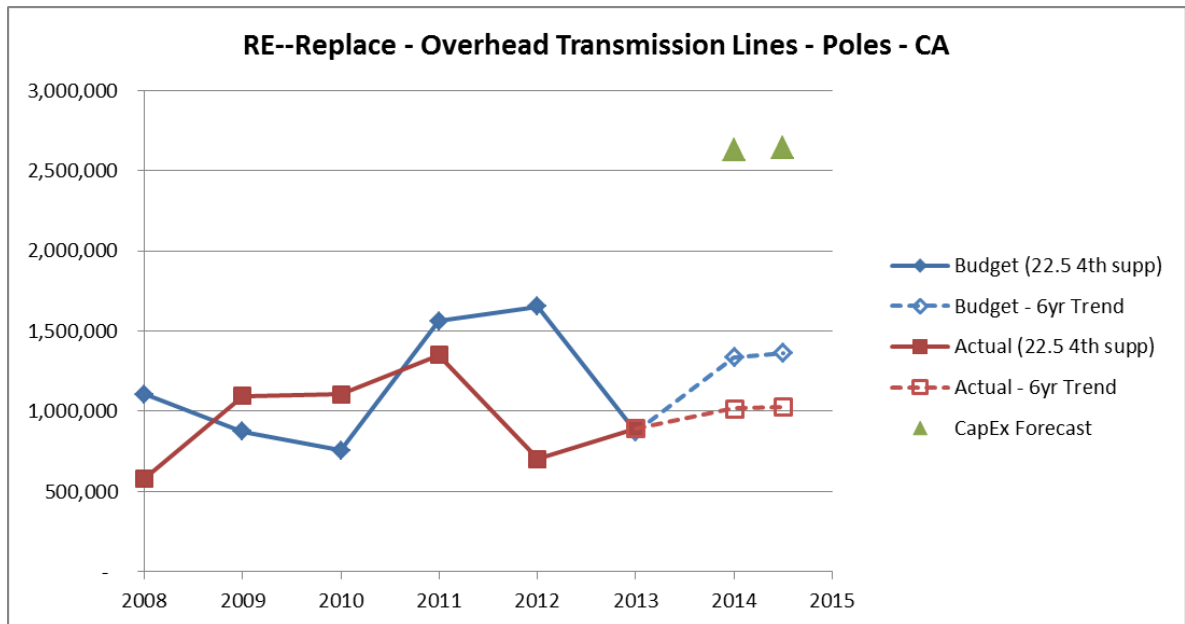
450 **Q: Did any other generic projects raise concerns?**

451 A: In the course of my review I did determine that the “RE – Replace - Overhead
452 Transmission Lines – Poles” capital expenditures forecast appeared to be above historic
453 trends. Upon more detailed review, I determined that this increase was largely due to a
454 large projected increase in spending in California, as shown in the figure below.

455

456

Figure 12



457

458

459 **Q: Did the Company offer any explanation for these numbers?**

460 A: In one of the workpapers supplied as documentation for this project, the Company
461 included the following note: “Oregon and California projections included the regulatory

462 *requirements for pole replacements. To reduce a steep increase in pole replacements in*
463 *CY16 in California, some of the regulatory required poles were brought into CY15.*
464 *Starting after CY16, the number of pole replacements in each state is escalated year on*
465 *year to correspond with pole deterioration.”¹³ The Company did not provide copies of,*
466 *or citations to, the stated regulatory requirements that are claimed to be the driver behind*
467 *such a large increase. Based on some high level research, it appears that the California*
468 *PUC did revise its guidelines for constructing and maintaining utility poles in January*
469 *2012. However, I cannot establish a direct link between these revisions and the*
470 *Company’s projections of capital spending in this area.*

471

472 **Q: What is your recommendation regarding this project?**

473 A: The Company should provide the new regulations that are causing the increase in capital
474 spending and show in detail how these new regulations were used to derive the forecast.
475 Assuming that the Company provides this information and the information justifies the
476 forecast, I would accept the increased capital expenditure forecast as being reasonable.

477

478 **IX. Selection of Specific Projects Reviewed**

479

480 **Q: Please describe the scope of your review of the “specific” projects?**

481 A: Of the \$2.7 billion in capital expenditures forecast by the Company from July 2013 to
482 June 2015, more than \$2.1 billion is budgeted for 1,504 specific projects. In contrast to

¹³ Response to Data Request DPU 22.5, “RE PP Budget Worksheet_KA.xlsx”

483 “generic” projects, these line items contain projected expenditures for discrete projects
 484 that will be completed and placed in-service on a specific date by June 2015. It was
 485 beyond the scope of my assignment to examine each and every specific project included
 486 in the Company’s projection. Instead, I selected a sample of 49 projects to review in
 487 some detail. Figure 13 below provides a summary of the specific projects analyzed.
 488 Exhibit DPU 3.4 Dir-Rev Req provides the full list of the specific projects that I
 489 reviewed.

Figure 13

SPECIFIC PROJECTS ANALYZED			
Account	Plant Type	Count	Projected Plant Additions (\$000s)
302-303	Intangible	1	\$19,900
312	Steam Plant	24	\$141,824
332	Hydro Plant	4	\$59,016
343	Other Plant	5	\$3,109
355	Transmission	6	\$402,955
360-373	Distribution	1	\$8,758
397	General	5	\$9,782
399	Mining Plant	3	\$7,896
Grand Total	Grand Total	49	\$653,241

492

493 **Q: How was the sample chosen?**

494 A: Two projects were included in my sample at DPU’s request. The two projects are (1)
 495 Blundell Proj Dev and Well Integration; and (2) Populus - Terminal 345 kV line -

496 condemnation settlements. Ten projects were selected based on previous experience with
497 the projects or similar projects in the previous rate case. Twelve projects were added to
498 the sample because they were scheduled for in-service dates of June 2015, at the very end
499 of the test period. For these projects, I wanted to determine if that scheduled in-service
500 date was still reasonably achievable at the time of my review, or if the expected in-
501 service date had been delayed beyond June 2015. Other projects were targeted for review
502 for various reasons, including the size of the capital expenditure, timing, or project
503 complexity. The EMS/SCADA replacement and the two projects for environmental
504 upgrades at Hunter unit 1 fall into this category. The Merwin Fish collection and the Mill
505 Fork Lease acquisition were chosen to ensure that there was at least one project in each of
506 the hydro and mining categories. Projects such as the new substation at West Point are
507 typically driven by load growth, and I wished to determine if the recent load projections
508 still justified the need for this project. The remaining 17 sample projects were selected
509 randomly.

510

511 **Q. Why did you use random selection to choose most of the projects in your sample?**

512 A. After specifically targeting certain projects based on the various reasons discussed above,
513 I also wanted to ensure that some projects were selected randomly to minimize the
514 potential for “blind spots” in my review. By selecting some projects randomly, I ensured
515 that any particular project had some chance of facing further review regardless of my or
516 the DPU’s impressions from our initial review of the database.

517

518 **Q. Please describe how you selected your random sample of projects for review.**

519 A. First, I excluded all projects whose costs would be allocated entirely outside of Utah, and
520 those already included in the sample. Of the 1,449 specific projects remaining in the
521 database after these exclusions were made, more than half (744) were steam plant
522 projects for less than one million dollars. I assigned a random real number between 0 and
523 1 to each of these small steam plant projects using Microsoft Excel's random number
524 generator function. I selected the ten small steam plant projects with the lowest
525 randomly-generated number. Finally, I used the same random selection technique to
526 select seven additional specific projects from among the remaining 705 projects.

527

528 **X. Analysis of Specific Projects**

529

530 **Q: Can you describe how you analyzed the specific capital projects?**

531 A: My review of the specific projects consisted of an examination of the documentation
532 provided by the Company in response to data requests. As a threshold matter, I first
533 reviewed whether the project authorization papers for each project were complete.
534 Projects without proper authorization should be and were excluded from the projected
535 capital spending. This is appropriate because if the Company has not yet authorized a
536 particular capital expenditure, it should not become part of the forward-looking test year
537 plant in-service that will be paid for by RMP customers. If a project was properly
538 authorized, I then examined the provided documentation to attempt to answer the
539 remaining questions listed below. Based upon this review, I determined if any changes to

540 the Company's proposed capital spending for the July 2013 to June 2015 time period

541 were appropriate.

- 542 1) Does the appropriate corporate documentation and supporting technical
543 studies exist?
- 544 2) Did the Company follow its own capital budgeting procedures?
- 545 3) What was the need for the project (i.e., load growth, reliability,
546 environmental compliance, etc.)?
- 547 4) Does that need still exist?
- 548 5) Is the project scheduled to be in-service prior to the end of the test year
549 (June 2015)?
- 550 6) Are the benefits to Utah commensurate with Utah costs?
- 551 7) Could / should the project be deferred?
- 552 8) How thorough / appropriate was the evaluation / justification?
- 553 9) Were there any cost overruns?
- 554 10) Are the costs reasonable?
- 555 11) Were any of the project components subject to competitive bidding?
- 556

557 Based upon this examination, I identified recommended adjustments to the capital
558 spending projection prepared by the Company and filed as part of this rate increase.

559 These specific adjustments are described in the ensuing sections.

560

561 **A. Projects that will not be in-service by June 2015**

562 **Q: Please discuss the adjustments that you recommend that are related to projects that**
563 **will not be in-service by 2015.**

564 **A:** In response to data request DPU 35.1 seeking additional information about sample
565 projects, the Company acknowledged that twenty projects are no longer projected to be

566 placed in service before the end of the test year. Nine of these projects are in my sample,
 567 and are summarized in the table below. In response to data requests seeking additional
 568 information about sample projects, the Company also acknowledged that the Bigfork
 569 Penstock 3 Headgate Upgrade project will not be placed in service until 2017. The
 570 projected spending for these projects should also be removed from the Company's test
 571 year plant in-service. The adjustments related to these and the other removed projects are
 572 shown in Exhibit DPU 5.0, staff's direct testimony in this proceeding. The adjustments
 573 related to projects in my sample are summarized in Figure 14 below.

574 Figure 14

SAMPLE PROJECTS NO LONGER FORECAST IN TEST PERIOD				
Project	EPIS FERC Account	July13 to Jun15 Plant Adds	Test Period 13 Month Avg. Plant Adds	UT Share - 13-mo Avg. Plant Adds
Craig CRGU1 U1 BFPT HOTWELL PUMPS UPGRADE	312	71,391	54,916	23,410
CRGU0 VEHICLE REPLACE CY14	397	26,953	14,513	6,187
HERMISTON U2 Buckets 1st Stage CY15	343	1,383,336	106,410	45,361
JB U3 APH Baskets 15	312	3,079,272	236,867	100,972
JB U3 Burners - Major 15	312	1,461,857	112,451	47,936
JB U3 Recoat Stack Lining 15	312	1,459,225	112,248	47,849
JB U3 Replace Cooling Tower 14/15	312	6,569,474	505,344	215,420
JB U3 Replace Finishing Superheater 15	312	11,693,325	899,487	383,436
Populus - Terminal 345 kV line - condemnation settlements	355	8,202,044	8,202,044	3,496,393
Bigfork Penstock 3 Headgate Upgrade	332	93,448	64,695	27,578
Total		34,040,325	10,308,974	4,394,542

575

576

577 **Q: Are the projects discussed above the only sample projects that you believe will not**
 578 **be placed in service before the end of the test year?**

579 A: No. In my review of sample projects I have determined that several others are highly
580 unlikely to be placed in service in the test year, among other reasons for adjustment.
581 These projects are discussed individually in the subsections below.

582

583 **B. Casper Outer Loop – New 115 kV Red Butte to WAPA**

584 **Q: Please describe the Casper Outer Loop – New 115 kV Red Butte to WAPA project.**

585 A: The Casper Outer Loop – New 115 kV Red Butte to WAPA project is the final phase of
586 an ongoing project to convert the Casper Outer Loop from 69 kV to 115 kV operations.
587 The cost of this project included in the Company's forecast of capital spending is \$6.5
588 million and the listed in-service date is June 2015. The upgrade is required to satisfy the
589 agreement outlined in Docket No. 20000-384-ER-10 between Rocky Mountain Power
590 Company and other parties. In addition, the new configuration will allow maintenance on
591 radial facilities and fulfill a reliability need in the area.

592

593 **Q. What documentation has the Company provided in support of the project?**

594 A. Based upon documents received in response to DPU Data Requests 6.6, 27.2 and 41.8 the
595 Company has provided the following electronic documents.

- 596 1. APR 240002315.pdf (2011)
597 2. APR 940002301.pdf (2012)
598 3. APR 940025535.pdf (2012)
599 4. APR 94002937.pdf (2013)
600 5. Casper_Outer_Loop_Complete_115kV_Loop-IAD_2_1_2013.doc (2013)

- 601 6. Casper_Outer_Loop_Complete_115kV_Loop-Maps-Drawings_2_1_2013 (2013)
602 7. 13-035-184 RMP's Response to DPU Data Request 27.2 – 03-25-2014-
603 Attachment.pdf

604 The first four documents include similar information on approved new project costs of

605 [REDACTED]
606 [REDACTED]
607 [REDACTED]
608 [REDACTED]
609 [REDACTED]
610 [REDACTED]

611 [REDACTED] The facility study or its status was not provided and the Company
612 confirmed in its response to DPU Data Request 41.8 that the documents referenced above
613 were the only ones available for this project.

614
615 The inconsistency between the approved cost included in the capital database and
616 approved cost provided by the appropriation request prompted me to request additional
617 information on the approved cost of the project. The Company responded with additional
618 information regarding the difference between the cost included in the Company's forecast
619 and the documentation provided. More specifically, in its response to DPU 27.2, the
620 Company claimed that the authorized expenditure approved by the multiple APR
621 included in the response to DPU 6.6 is for preliminary funding only. Once all preliminary

622 work is complete and the detailed estimate for the project is finalized, the Company
623 confirmed that it will authorize a new APR for the full project cost.

624

625 RMP's Response to DPU Data Request 27.2 includes two project schedules from two
626 different timeframes. The first, dated April 18th, 2013 is primarily focused on the
627 activities required for the feasibility study and the second, dated March 10th, 2014,
628 provides a high level estimation of the key delivery activities needed to meet the June
629 2015 in service date. These schedules are characterized by the Company as "high level"
630 with a potential of being adjusted in coordination with WAPA.

631

632 **Q. Is the provided documentation adequate for the project to be included in the**
633 **Company's forecast of capital spending?**

634 A. No. The Company has not provided any approved documentation to confirm the
635 requested \$6.5 million capital spending for this project. The four appropriation requests
636 included in the response to DPU 6.6 have information related to preliminary costs for a
637 facility study to be conducted by WAPA, but provide no additional information related to
638 approved cost for other activities.

639

640 **Q. Do you have any other observations on this project?**

641 A. Yes, I do. The schedule provided in the response to DPU 27.2 denoted potential risks for
642 the project's forecasted in service date. More specifically, the ROW easements have an
643 actual start of 11/15/2013, but the schedule indicates that this activity has not started yet,

644 resulting in a possible 4 month delay. The Company's response to DPU 41.8 confirmed
645 that no ROW has been acquired. In addition, the Company identified potential scheduling
646 risks due to the feasibility study results. As noted, the schedules provided are high level
647 and there exists a possibility of changing the in-service date after coordination with
648 WAPA regarding the construction schedule, which is in progress according to the
649 Company's response to DPU data requests.

650

651 **Q: What do you recommend?**

652 A. The APR for this project states that the approved budget for this project is [REDACTED], not
653 the \$6.5 million reflected in the filing. The projected capital spending for this project
654 should be reduced to \$267 thousand.

655

656 **C. Sigurd – Red Butte 345 kV line**

657 **Q: Please describe the Sigurd – Red Butte 345 kV line project**

658 A: The project consists of a new 345kV transmission line between the existing Sigurd
659 substation and the Red Butte substation in Utah. Besides the new transmission line, the
660 project includes significant substation and control system additions, and modifications at
661 both Sigurd and Red Butte substations. The cost of this project that is included in the
662 Company's forecast of capital spending is \$363 million and the listed in-service date is
663 June 2015.

664

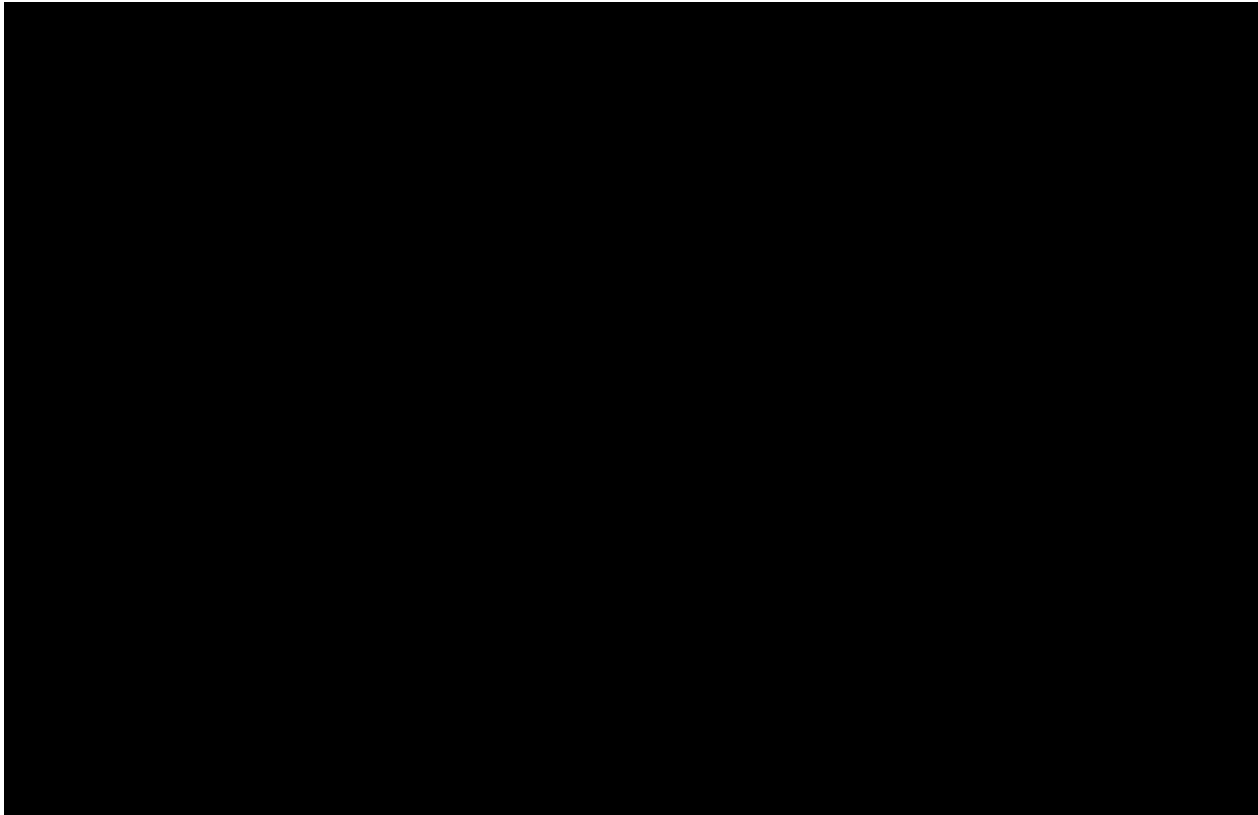
665 **Q. Please discuss the issues concerning the project schedule for the Sigurd Red Butte**
666 **transmission line project.**

667 A: In the capital database provided by the Company, this project showed an expected in-
668 service date of June 2015. DPU Data Request 27.3 requested a copy of the project
669 schedule. The original schedule provided did not contain sufficient detail in order to
670 assess whether the proposed in-service date was achievable. During a conference call
671 with Company representatives on April 14, 2014, I asked questions about project
672 scheduling in general and requested a more detailed project schedule for this proposed
673 transmission line. On April 17, 2014, I received two separate project schedules - one for
674 the transmission line and one for the substations. [REDACTED]

675 [REDACTED]
676 [REDACTED]
677 [REDACTED]
678 [REDACTED]
679 [REDACTED]
680 [REDACTED]
681 [REDACTED]
682 [REDACTED]
683 [REDACTED]
684 [REDACTED]
685 [REDACTED]
686 [REDACTED]

687 [REDACTED] I conclude it is unlikely that this project can be placed in service by
688 June 30, 2015 as the schedule provided by the Company calls for. As a result, this
689 project should be removed from the forecasted test year, as it will likely not be completed
690 within that window.

691 Confidential Figure 15



692

693

694 **D. West Point- New 138 kV line & 40 MVA Substation**

695

696 **Q: Please describe the West Point – New 138 kV line & 40 MVA Substation.**

697 A: The West Point – New 138 kV – New 138 kV line & 40 MVA Substation includes the

698 construction of a new 40 MVA substation with four distribution feeders at West Point

699 and the development of 4 miles of a new 138kV line that will connect the Clearfield
700 South substation with the new West Point substation. The cost of this project included in
701 the Company's forecast of capital spending is \$15.4 million and the listed in-service dates
702 of April and May of 2015. The \$15.4 million are distributed into \$8.8 million for the
703 transmission component of the project and \$6.6 million for the distribution component.

704

705 **Q. What documentation has the Company provided in support of the project?**

706 **A.** Based upon documents received in response to DPU Data Request 6.6, the Company has
707 provided the following electronic documents.

708 1. APR 94000991.pdf (2011)

709 2. APR 94001886.pdf (2012)

710 3. APR 94002534.pdf (2012)

711 4. Transmission Route.pdf

712 5. West Point New 138kv Ln 40mVA Rev2 ER.pdf (2009)

713 6. West Point IAD_02-03-2012.doc (2012)

714 7. WestPointRevIADAprdxCmpltr4.pdf (2010)

715 The Company provided information that confirmed the need for this project. More
716 specifically, the load analysis included in the IAD was confirmed with additional
717 information provided by the Company in response to Data Request DPU 41.10.

718

719 **Q. Is the provided documentation adequate for the project to be included in the**
720 **Company's forecast of capital spending?**

721 A: No. The Company did not provide adequate approved documentation pertinent to the
722 \$15.4 million total cost of the project. APR# 940002534 includes approved capital
723 expenditure of \$ [REDACTED] or \$ [REDACTED] less than the amount included in the capital
724 database. The Company, in its response to DPU. 41.10, explained that the \$15.4 million
725 included in the capital database is an updated cost estimate developed in 2013, and that
726 the Company is in progress of creating a new APR with the updated funding level.

727

728 **Q. Do you have other concerns related to the West Point project?**

729 A: Yes, I do. The Company did not provide any documentation related to the construction
730 schedule of the project, making it difficult for me to assess the attainability of the
731 proposed in service date. More specifically, the Company claimed in its response to data
732 request DPU 41.1 that there is no construction schedule available at this point, but the
733 construction of this project is slated to start in October 2014 with an in service date of
734 May 2015. Unfortunately, there was no way for me to confirm this schedule.

735

736 **Q: What do you recommend?**

737 A. The Company did not provide any documentation to confirm the West Point project will
738 be in service within the test year. Therefore, I recommend removing this project from the
739 capital database. If the Company can provide a schedule reasonably showing the project
740 completion to fall within the test year, I recommend allowing the project's inclusion at
741 the \$13.9 million figure in the currently approved APR unless an updated APR is also
742 properly completed that shows a different and reasonable expenditure.

743

744

E. Whetstone 230-115 kV Substation Phase

745 **Q: Please describe the Whetstone 230-115 kV Substation Phase**

746 **A:** The Whetstone 230-115 kV Substation Phase includes the construction of a new 230-115
747 kV substation at Whetstone and a new 230 kV transmission line. The cost of this project
748 that is included in the Company's forecast of capital spending is \$17.7 million and the
749 listed in-service date is June 2015.

750

751 **Q: Please discuss the issues concerning the project schedule for the Whetstone**
752 **substation project.**

753 **A:** In the capital database, the forecast in-service date of this project is June 2015. In
754 response to a data request for the project schedule the Company provided a schedule that
755 did not contain sufficient detail in order to assess whether the proposed in-service date
756 was achievable. During a conference call with Company representatives on April 14,
757 2014, I asked questions about project scheduling in general and requested a more detailed
758 project schedule for this proposed transmission line. On April 17, 2014, I received an
759 additional construction schedule for this project that contained some additional details as
760 of April 3, 2014. Upon review of that additional schedule, I noted that [REDACTED]

761 [REDACTED]

762 [REDACTED]

763 [REDACTED]

764 [REDACTED]

765 [REDACTED]
766 [REDACTED] This schedule places the in-service date
767 for this project outside the window of the test year. Thus, based upon the Company's
768 own schedule, I conclude that this project is unlikely to be placed in service by June 30,
769 2015, and should be removed from the capital database.

770

771 **F. EMS/SCADA Replacement Project**

772 **Q: Please describe the EMS/SCADA Replacement Project**

773 A: The Supervisory Control and Data Acquisition Energy Management System
774 (EMS/SCADA) is the core hardware and software system used to manage PacifiCorp's
775 transmission and distribution system. PacifiCorp's existing system is 10 years old and
776 relies on obsolete software and hardware that is no longer supported and must be replaced
777 for NERC reliability and compliance purposes. [REDACTED]

778 [REDACTED]¹⁴
779 According to the capital projects database, the project has a total cost of approximately
780 \$27.8 million, with \$19.9 million in software costs (categorized as Intangible) and the
781 remainder in hardware and facilities costs (categorized as General).¹⁵

782 The project is scheduled to be completed by [REDACTED]
783 [REDACTED].¹⁶

784

¹⁴ PacifiCorp Appropriation Request Summary Report. Attachment to RMP's Response to DPU 6.6.
¹⁵ RMP's response to DPU Data Request 27.1(a).
¹⁶ Project Schedule. Attachment to RMP's Response to DPU 27.1.

785 **Q. What documentation has been provided by the Company in support of this project?**

786 A. The Company has provided the following documentation related to the EMS/SCADA
787 Replacement Project:

- 788 • PacifiCorp Appropriation Request Summary Report¹⁷
- 789 • EMS/SCADA Replacement Project Proposal¹⁸
- 790 • Project schedules¹⁹

791

792 **Q. Has the project received proper approvals?**

793 A. Yes it has. Since the total cost of this project is greater than \$25 million, it requires the
794 approval of the PacifiCorp CEO.²⁰ The APR document lists [REDACTED] as the
795 project approver,²¹ but the Company has provided additional documentation that the
796 project has been approved by PacifiCorp CEO Greg Abel²² and his approval is acceptable
797 under corporate governance policies.

798

799 **Q. Did the Company consider alternatives to this project?**

800 A. Yes. According to the project proposal and the APR documentation, [REDACTED]

801 [REDACTED]

802 [REDACTED]

¹⁷ PacifiCorp Appropriation Request Summary Report. Attachment to RMP's Response to DPU 6.6.
¹⁸ EMS/SCADA Replacement Project Proposal. Attachment to RMP's Response to DPU 6.6.
¹⁹ Confidential Attachments to RMP's Response to DPU 27.1, Confidential Attachment to RMP's Response to DPU 22.5 (5th Supplemental).
²⁰ PacifiCorp Corporate Governance and Approvals Process. December 31, 2012, p. 13.
²¹ PacifiCorp Appropriation Request Summary Report. Attachment to RMP's Response to DPU 6.6.
²² Attachment to RMP's Response to DPU 41.32.

803 [REDACTED]

804 [REDACTED]

805 [REDACTED]

806 **Q. Do you have any concerns with the project?**

807 A. My primary concern with this project is the schedule. Based on the information provided
808 by the Company, I have little confidence that the project will be placed in service on
809 schedule, or prior to the June 30th, 2015 deadline to be included in the test year plant in
810 service total.

811 [REDACTED]

812 The Company has provided [REDACTED] versions of the detailed project schedule to date.²³ [REDACTED]

813 [REDACTED]

814 [REDACTED]

815 [REDACTED]

816 I have reviewed the various versions of the project schedule. The oldest schedule
817 provided was created on [REDACTED], and the most recent update is dated [REDACTED]

818 [REDACTED] A review of the intervening schedules demonstrates [REDACTED]

819 [REDACTED]

820 [REDACTED]

821 [REDACTED] However, the evidence
822 suggests that the final in-service date will be delayed due to the significant delays in key
823 tasks.

²³ Confidential Attachment to RMP's Response to DPU 27.1; Attachment to RMP's Response to DPU 27.5.

824

825 **Q. What leads you to conclude the project will be delayed beyond June 30, 2015?**

826 A. [REDACTED]

827 [REDACTED]

828 [REDACTED]

829 [REDACTED]

830 [REDACTED]

831 [REDACTED]

832

833 [REDACTED]

834 [REDACTED]

835 [REDACTED]

836 [REDACTED]

837 [REDACTED]

838 [REDACTED]

839 [REDACTED]

840 [REDACTED]

841 [REDACTED]

842 [REDACTED]

843 [REDACTED]

844 [REDACTED]

845 |

846

847

848 If this trend continues, the project will not be in service until well beyond the June 30,
849 2015 deadline.

850

851 **Q. Has the Company implemented any business arrangements that would provide**
852 **some protection to customers in the event of a delay in this project?**

853 A. It is my understanding that much of the work on this project is being performed by a
854 contractor, and that the Company has negotiated a “guaranteed” in-service date in its
855 contract with this contractor. Specifically, I understand that if the project is not
856 completed as scheduled, the contractor will pay liquidated damages to the Company.
857 Any liquidated damage payments received by the Company should serve to reduce the
858 capital costs that are included in plant-in-service, and ultimately in rates. I do not know
859 the value of these liquidated payments. However, if the project is delayed beyond June
860 30, 2015, as I believe it will be, any liquidated damage payments will not be received
861 until after June 30, 2015. While the receipt of liquidated damage payments should reduce
862 the capital cost of this project compared to what it would cost without liquidated
863 damages, such a reduction will not occur in this rate case but should occur in the next rate
864 case or in future rate cases. Therefore, the existence of the liquidated damages provision
865 does not affect my opinion that this project should be removed from the forecasted plant-
866 in-service levels to be used in setting rates in this proceeding.

867

868 **Q. What are your recommendations regarding the EMS/SCADA project?**

869 A. Based on the information provided by the Company, I am convinced that the actual in-
870 service date of this project will be delayed beyond June 30, 2015. Therefore, the capital
871 expenditures associated with the project should be removed from the test year plant in
872 service.

873

874 **G. FC 200 to FC300 Replacement (Obsolescence)**

875 **Q: Please describe the FC200 to FC300 Replacement (Obsolescence) project.**

876 A: The FC200 to FC300 Replacement project consists of an upgrade to the existing Itron
877 FC200 meter reading handheld devices installed in 2008 and used in the Company's Itron
878 Field Collection System. The current FC200 devices are no longer offered by the vendor
879 and vendor service support for PacifiCorp is scheduled to expire in March 2014. The cost
880 of this project that is included in the Company's forecasted capital spending is
881 \$1,127,016. The project was placed in-service in August 2013 with an actual addition to
882 plant in-service of \$1,328,135.

883

884 **Q: What documentation has the Company provided in support of this request?**

885 A: In response to data requests seeking all supporting documentation related to this project,
886 the Company has provided four documents.

887 1) Investment Appraisal 2012 (Attachment DPU 22.6-1)

888 2) Economic Project Evaluation (Attachment DPU 22.6-2)

889 3) Appropriate Request Summary Report (Attachment DPU 22.6-3)

890 4) Actual Cost Breakdown by State (Attachment DPU 41.37)

891 **Q: Has the project received required approvals?**

892 A: According to the Appropriation Request Summary Report, the project was approved on
893 11/15/2012.

894 **Q: Are the benefits to Utah commensurate with Utah costs?**

895 A: In response to DPU Data Request 41.37, the Company specifies the actual costs of the
896 project by state. The Company explicitly states and verifies in an attachment that
897 includes cost breakdown by state that 20% of total project costs are for Utah facilities.

898 In the capital expenditure database, Utah is assigned a percentage of this project's total
899 costs using the System Generation ("SG") allocator. Utah's share of costs allocated using
900 this factor is 42.63%. Under this allocation, Utah ratepayers are responsible for a
901 substantially higher portion of the total project cost than PacifiCorp's analysis.

902 **Q: What adjustment should be made to the projected plant in-service for this project?**

903 A: Expenditures for handheld meter reading devices are appropriate for direct allocation to
904 the jurisdiction in which they are used. Given the detailed cost breakdown and the
905 localized impact of the new meter readers, the allocation of cost for this project should be
906 changed from SG to in situs by state. The project cost directly allocated to Utah should be
907 \$279,160.

908

909 **H. Hydro Vehicles 2015**

910 **Q: Please describe the Hydro Vehicles 2015 project.**

911 A: This project appears to consist of the replacement of vehicles related to PacifiCorp's
912 hydro generators. The project cost in the capital database is \$674,269 and has an in-
913 service date of June 2015. This particular project is the 2015 budget for a recurring
914 capital project related to the purchase of new vehicles in order to provide safe and
915 reliable transportation for employees and reduced maintenance costs. There is also a
916 "Hydro Vehicles 2014" project in the database, and the Company has provided historical
917 spending on this project since 2008.²⁴

918

919 **Q: How did the Company determine the cost of this project?**

920 A: Despite data requests for project documentation in DPU 22.6, 41.17, and 41.18, the
921 Company has not provided any materials supporting the specific cost estimate. The only
922 explanation provided is that "The budget number is associated with past history and
923 approved budgets."²⁵ Based on the Company's responses to other discovery requests, I
924 believe that PacifiCorp has a forecasted budget amount for vehicle replacements as part
925 of their long term budget. Then, each December, they determine which vehicles will
926 need replacement in the following year.²⁶ Orders for these vehicles are placed in January
927 and APR documentation is prepared at that time.²⁷ Therefore, the Company currently has
928 no documentation for the 2015 expenses, and apparently no workpapers for determining
929 the specific amount included in the database. Instead, the Company states that cost

²⁴ Attachment to RMP's Response to DPU 41.16.

²⁵ RMP's Response to DPU 41.18.

²⁶ RMP's Response to DPU 41.17.

²⁷ Ibid., RMP's Response to DPU 41.19.

930 projections are “based on prior experience...”, and that: “timing specifics are addressed
931 and documentation is prepared when equipment failures occur.”²⁸

932

933 **Q: What is your recommendation for this project?**

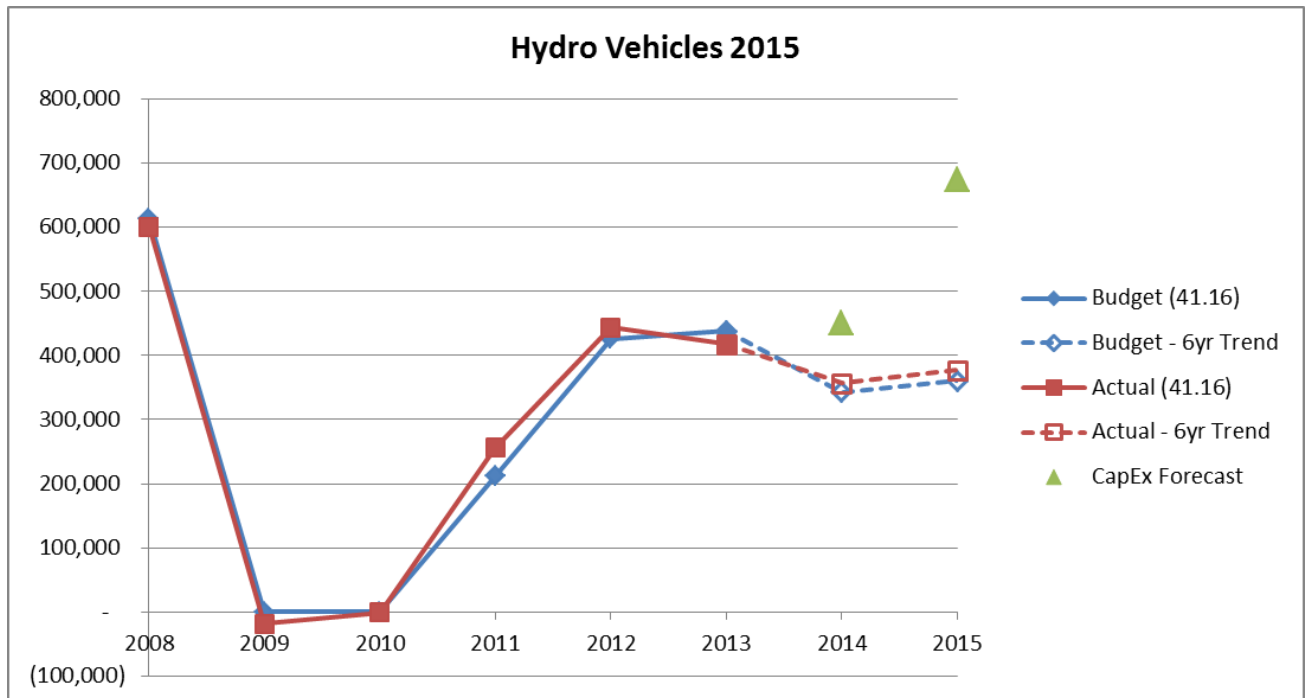
934 A: Based on the fact that this project is one year’s budget of an ongoing capital project, and
935 that the Company does not have documentation on specific vehicles to be replaced, I
936 think it is reasonable to treat this project in a similar manner as the generic project
937 discussed above. Therefore, I have used the historical data provided to perform a trend
938 analysis similar to the analysis on the generic projects discussed above.

939

²⁸ RMP’s Response to DPU 22.6.

940

Figure 16



941

942

943 **Q: What adjustment should be made to the projected plant in-service for this project?**

944 A: Based on the results of the trend analysis above, the forecasted expenses for hydro
945 vehicles in 2015 appear very high. Without any documentation of specific vehicle
946 replacements or explanation for how the budgeted amount was developed, I recommend
947 the amount be reduced to the level indicated by the trend analysis, \$377,239.

948

949 **I. Vehicle Replacement**

950 **Q: Please describe the Vehicle Replacement project.**

951 A: Despite discovery requests in DPU 22.6, 41.21 and 41.22 for project documentation, the
952 Company has not provided any materials explaining the purpose of the project and its

953 cost estimate of \$40,000. The Company’s claims that an APR is still pending, “the
954 project was approved in the development of the budget,” and that the “cost estimate was
955 based on an escalated historical cost of the item.” No technical or historical data or
956 approval documents have been provided nor a project schedule for an in-service date of
957 July 2014.

958
959 **Q: What adjustment should be made to the projected plant in-service for this project?**

960 A: Without any evidence of project approval or planning, this capital project should be
961 removed from the projected spending total.

962

963 **J. Mill Fork South Lease Acquisition**

964

965 **Q: Please describe the Mill Fork South Lease Acquisition project.**

966 A: The Mill Fork South Lease Acquisition is a project to [REDACTED]

967 [REDACTED]

968 [REDACTED]

969 [REDACTED]

970 [REDACTED]

971 [REDACTED]

972

973 **Q. What adjustment should be made to the projected plant in-service for this project?**

974 A. The plant in-service for this project should be removed from the test period. In the
975 confidential response to DPU Data Request 42.5, the Company states, “[REDACTED]
976 [REDACTED]
977 [REDACTED]
978 [REDACTED]” Given that this response was dated April 21, 2014, it appears that
979 the project is behind schedule in comparison to the Project Milestones given in the APR
980 dated [REDACTED]. The APR shows [REDACTED]
981 [REDACTED]. Because the project is behind schedule and the Company has
982 not provided an updated schedule, I believe it is unlikely that this milestone will occur
983 within the test period.

984

985 **XI. Issues from the Prior General Rate Case**

986

987 **Q. Please describe the City Creek project.**

988 A: The City Creek project is a new mixed residential and commercial development in
989 downtown Salt Lake City. The project was originally approved internally by the
990 Company in 2007 with an expected in-service date of July 2010. In Docket No. 11-035-
991 200, the documentation provided by the Company indicated a May 2012 in-service date.
992 According to the response to DPU 20.10, this project has been placed in service. In
993 Docket No. 11-035-200, I raised concerns about the Company’s forecast of capital
994 expenditures for this project. Specifically, I questioned whether the Company had sought
995 the proper amount from the developer of this project as a contribution in aid of

996 construction (CIAC). Since the prior rate case was resolved by a settlement, the
997 Commission did not decide this issue. Given that the issues I raised were not addressed, I
998 performed another review of this project in this proceeding.

999

1000 **Q: Please describe the issues raised in your previous testimony on City Creek in Docket**
1001 **No. 11-035-200.**

1002 A: The Company has a line extension policy that is described in Regulation 12. The
1003 Company will invest \$1,100 to interconnect each new residential customer. The
1004 extension allowance for commercial customers is determined by the expected annual
1005 revenue. The Company will invest an amount equal to 16 months' worth of annual
1006 revenue to interconnect each new commercial customer. If the cost to interconnect a new
1007 customer exceeds these extension allowances, the customer is asked to make a CIAC to
1008 make up the difference. Such a policy is commonplace for electric utilities. These
1009 policies maintain equity between existing and new customers, and avoid having the
1010 existing customer base support a large investment to add a new customer. According to
1011 the Company's response to DPU Data Request 30.16 in Docket No. 11-035-200, the
1012 Company does not waive the extension allowance.

1013

1014 In response to DPU Data Request 31.2 in Docket No. 11-035-200, the Company stated
1015 that it did not perform an estimate of a CIAC payment for City Creek. However, a \$7.0
1016 million payment from the developer was budgeted in the project documentation,
1017 indicating that the Company expected the developer to make a CIAC payment. Even

1018 when the developer constructed certain distribution facilities at its expense of \$5.55
 1019 million, it still made a payment of \$1.45 million, bringing the total cash and in-kind
 1020 contribution to the budgeted amount of \$7.0 million. In order to assess if the \$7.0 million
 1021 figure was reasonable, I calculated the estimated CIAC payment using data provided by
 1022 the Company, as shown in Figure 17 below. Based upon my analysis, I found that the
 1023 CIAC payment from the developer of City Creek should have been \$21 million, not the
 1024 \$7 million figure sought by the Company. Therefore, I recommended that the forecast of
 1025 capital additions to be included in the Company's base rates be reduced by \$14 million.

Figure 17

(Figure 15 from Hahn Direct Testimony in Docket No. 11-035-200)

ESTIMATE OF CITY CREEK CIAC				
Item	Total	PRI	Existing Load	Comment
City Creek Loads, MW	41.8	27.5	14.3	Attach DPU 2.29(2) file City Creek IAD6.pdf
% of total	100%	66%	34%	
Capital Cost, \$M				
phase I&II	\$9.50	\$9.50	\$0.00	Attach DPU 2.29(2) file City Creek IAD6.pdf
Phase III	\$34.20	\$22.60	\$11.60	Attach DPU 2.29(2) file City Creek IAD6.pdf
Total	\$43.70	\$32.10	\$11.60	
PRI commercial revenue		\$7.82		Response to DPU Data Request 31.1(3) - 05-15-2012 - Attachment.xlsx
Commercial allowance		\$10.43		16/12ths of annual revenue per Regulation 12
# Residential units		550		Response to DPU Data Request 31.1(3) - 05-15-2012 - Attachment.xlsx
Residential Allowance		\$0.61		\$1,100 per unit per Regulation 12
RMP Extension Allowance		\$11.04		
PRI Estimated CIAC		\$21.06		
PRI Actual CIAC		\$7.00		
difference		\$14.06		

1029

1030

1031 **Q: Did the Company respond to your recommendation described above in Docket No.**

1032 **11-035-200?**

1033 A: Yes. In the rebuttal testimony of Douglas Bennion, the Company disagreed with my
 1034 analysis and recommendation. In that testimony, the Company stated that there was no
 1035 requirement to collect CIAC from the developer of this project. Instead the Company
 1036 assigned \$7 million of the project’s cost estimate for “non-allowable trenching and vault
 1037 costs”. Figure 18 below provides an excerpt from Mr. Bennion’s rebuttal testimony in
 1038 Docket No. 11-035-200 that shows how he analyzed the City Creek project.

Figure 18

(Figure 1 from Bennion Rebuttal Testimony in Docket No. 11-035-200)

	PRI Non-Allowable ¹	PRI Allowable ²	RMP ³	Total
Phase 1 & 2	\$3.00	\$2.81	\$3.69	\$9.50
Phase 3	\$4.00	\$1.15	\$29.05	\$34.20
Total	\$7.00	\$3.96	\$32.74	\$43.70
PRI Commercial Revenue		\$7.82		
Commercial Allowance		\$10.43		
#Residential units		550		
Residential Allowance		\$0.61		
		Residential	Commercial	Total
PRI Allowable Project Costs ⁴		\$0.49	\$3.47	\$3.96
PRI Extension Allowance (min of allowance vs cost)		\$0.49	\$3.47	\$3.96
CIAC Requirement		\$0.00	\$0.00	\$0.00

1 PRI Non-Allowable costs include the work and equipment associated with the installation of vaults and conduits performed by PRI. RMP is given ownership of these assets upon completion.
 2 PRI Allowable costs include the work and equipment associated with installation of the facilities directly assignable to PRI excluding the trenching and vault costs contributed by PRI via the Non-Allowable costs.
 3 RMP costs include the work and equipment for the infrastructure considered as overall system improvements/upgrades.
 4 PRI allowable project costs were allocated between residential and commercial based on their respective loading portion of the total load.

1042

1043

1044 **Q: Has the Company’s rebuttal testimony in Docket No. 11-035-200 or any other**
 1045 **information provided in this proceeding caused you to change your opinion**

1046 **regarding how to determine the amount of contribution that the developer of City**

1047 **Creek should have paid?**

1048 A: No. I disagree with the analysis contained in the rebuttal testimony from Docket No. 11-
1049 035-200. It does not appear to be consistent with electric service regulation number 12
1050 regarding line extensions for new customers. In response to DPU 20.10 in this
1051 proceeding, the Company provided a Post Investment Review (“PIR”) of the City Creek
1052 project. In that document, it is clear that the \$7 million reimbursement from the
1053 developer is a CIAC payment. The PIR also states that “much of the existing distribution
1054 facility locations conflicted with the new development and required demolition”. Thus,
1055 in the absence of the proposed City Creek development it is unlikely that those
1056 distribution facilities would require relocation. I also point out that the PIR confirmed
1057 that the City Creek load is 32.2 MVA, which is even higher than the 27.5 MVA prior
1058 estimate for City Creek. Existing loads in this area were confirmed to be 14.3 MVA.
1059 Even though the City Creek project represent 66% to 69% of the total load in this area
1060 after City Creek is built, Mr. Bennion assigned only 25% of the costs of this project to the
1061 developer. This assignment of costs is inconsistent with the increase in load that is
1062 clearly driving the need for this project and the bulk of its costs.

1063

1064 **Q: Based upon information provided in this proceeding would you revise the estimate**
1065 **of CIAC that the developer of City Creek should have paid?**

1066 A: I believe that the method that I used in Docket No. 11-035-200 is still reasonable.
1067 However, it appears that project actual cost came in close to budget without the

1068 contingency allowance. Therefore, I revise my estimate by removing the amount of
 1069 contingency from the project costs and performing the same calculations as I did in the
 1070 previous proceeding. This results in a revised estimate of the proper CIAC of \$17.85
 1071 million. This is the amount that the Company should have collected. Since it only
 1072 collected \$7 million, I believe that it under-collected by \$10.85 million. I recommend
 1073 that the plant in service forecast in this proceeding be reduced by \$10.85 million. Figure
 1074 19 below shows the calculation of this revised amount.

Figure 19

REVISED ESTIMATE OF CITY CREEK CIAC				
Item	Total	PRI	Existing Load	Comment
City Creek Loads, MW	41.8	27.5	14.3	Attach DPU 2.29(2) file City Creek IAD6.pdf
% of total	100%	66%	34%	
Capital Cost, \$M				
phase I&II	\$9.50	\$9.50	\$0.00	Attach DPU 2.29(2) file City Creek IAD6.pdf
Phase III	\$34.20	\$22.60	\$11.60	Attach DPU 2.29(2) file City Creek IAD6.pdf
Total	\$43.70	\$32.10	\$11.60	
less contingency	\$4.37	\$3.21	\$1.16	
	\$39.33	\$28.89	\$10.44	
PRI commercial revenue		\$7.82		Response to DPU Data Request 31.1(3) - 05-15-2012 - Attachment.xlsx
Commercial allowance		\$10.43		16/12ths of annual revenue per Regulation 12
# Residential units		550		Response to DPU Data Request 31.1(3) - 05-15-2012 - Attachment.xlsx
Residential Allowance		\$0.61		\$1,100 per unit per Regulation 12
RMP Extension Allowance		\$11.04		
PRI Estimated CIAC		\$17.85		
PRI Actual CIAC		\$7.00		
difference		\$10.85		

1077

1078

1079 **XII. Late-Filed Additions to Capital Projects Database**

1080

1081 **Q: Has the Company proposed to include in its forecast of capital additions and plant**
1082 **in service any new projects that were not included in the filing requirements?**

1083 A: Yes. Four questions in DPU data request set 35 asked for projects that fell into the
1084 following categories.

- 1085 1) Projects in the capital database that have been delayed or canceled past
1086 June 2015 (DPU 35.1);
- 1087 2) Projects in the capital database that were originally forecasted to be placed
1088 into service in the July 2013 to February 2014 period but were delayed
1089 until the March 2014 to June 2015 time period (DPU 35.2);
- 1090 3) Projects in the capital database that were originally forecasted to be placed
1091 into service in the March 2014 to June 2015 time period that now have an
1092 earlier in-service date than the original filing (DPU35.3); and
- 1093 4) Projects that were not in the original July 2013 to June 2015 forecast that
1094 are now expected to be placed into service during the March 2014 to June
1095 2015 time period. (DPU 35.4)

1096

1097 In response to the fourth question in DPU 35.4, the Company provided a list of 10
1098 projects that it now proposes to include in its forecast of additions to plant in service
1099 between March 2014 and June 2015 that were not included in the original filing
1100 requirements. Exhibit DPU 3.5 Dir-Rev Req provide a description of those projects, the-
1101 service dates, and the amount expected to be spent. The total amount of capital
1102 expenditures during the forecast period is approximately \$25.9 million.

1103

1104 **Q: What is your reaction to this proposed list of new additions?**

1105 A: It is my understanding from discussions with DPU staff that, in recent general rate cases,
1106 it has been common practice to update forecasts of plant in service for actual capital
1107 spending that may have occurred since the preparation of the filing. Since the status of
1108 projects in the filing requirements is being updated, it is not unreasonable to also consider
1109 deleting some projects whose schedules have changed and adding new projects. I note
1110 that subsequent to our data requests on the timing and project schedules or several key
1111 originally proposed capital additions and in response to DPU 35.1, the Company has
1112 revised its schedule for approximately 20 projects which previously were projected to be
1113 in service prior to June 2015, but are now projected to be completed after June 2015.
1114 These schedule changes reduce the projected plant in service by \$57.8 million. Since the
1115 newly proposed projects were not in the original filing requirements, I have not yet
1116 analyzed them nor have I conducted detailed discovery on these projects. However,
1117 newly proposed projects should be subject to some level of assessment prior to being
1118 included in an approved forecast of plant service. The same types of information that I
1119 requested on projects listed in the original filing requirements should be provided for
1120 these newly proposed projects. This information should include authorization documents
1121 required by the Company's own policies (including but not limited to IADs, ERs, PCNs),
1122 technical assessments and studies that justify the need for these projects, and project
1123 schedules showing that they can be completed as forecast.

1124

1125 **Q: Was the Company asked to provide supporting documentation for any newly**
1126 **proposed projects?**

1127 A: Yes. DPU Data Request 35.4 specifically asked the Company to provide “all supporting
1128 documentation for these projects. Supporting documentation should include, but not
1129 necessarily be limited to expenditure requisitions, appropriation requests, investment
1130 appraisal documents, engineering service agreement studies, project change notices, or
1131 any other relevant studies, analyses, reports and spreadsheets (with formulae intact”).

1132

1133 **Q: Has the Company provided the documentation that was requested for these 10**
1134 **newly proposed projects?**

1135 A: Based upon discovery responses received to date, the Company has not provided
1136 sufficient documentation. In fact, the only document that I received is a one-page high
1137 level project schedule for the Pomona Heights substation work. Exhibit DPU 3.5 Dir-
1138 Rev Req contains a copy of that single page of documentation. No documentation was
1139 provided for any other of these 10 projects. Given the inadequacy of the supporting
1140 documentation provided to date, I would recommend that none of the 10 newly-proposed
1141 projects be included in the forecast of plant in service until such documentation has been
1142 provided, reviewed, and found to be adequate.

1143

1144 **XIII. Additional Documentation**

1145

1146 **Q: In your review of the Company's projection of plant in-service, you identified**
1147 **certain situations where inadequate documentation has been provided. Is it possible**
1148 **that additional documentation may be provided by the Company?**

1149 A: Yes, it is possible that additional documentation could be located and provided by the
1150 Company.

1151

1152 **Q: How do you recommend that such additional documentation be dealt with?**

1153 A: I believe that it would be reasonable to consider such additional documentation, so long
1154 as that documentation existed as of the date of the Company's filing in this proceeding.

1155 In providing such additional documentation, the Company should demonstrate that it

1156 existed as of the filing date. Any additional documentation must be provided

1157 immediately so that it can be meaningfully considered within the confines of this rate

1158 case schedule.

1159

1160 **XIII. Conclusion**

1161

1162 **Q: Does this conclude your testimony?**

1163 A: At this time, yes, it does. Should additional or new information become available, I will
1164 supplement this testimony as appropriate.