# -BEFORE THE UTAH PUBLIC SERVICE COMMISSION-

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IN THE MATTER OF THE APPLICATION OF ROCKY MOUNTAIN
POWER FOR AUTHORITY TO INCREASE ITS RETAIL ELECTRIC
UTILITY SERVICE RATES IN UTAH AND FOR APPROVAL OF ITS
PROPOSED ELECTRIC SERVICE SCHEDULES AND ELECTRIC

DOCKET NO. 10-035-124 DPU EXHIBIT 6.0SR-RR

SURREBUTTAL TESTIMONY

Artie Powell, PHD

Pre-Filed Surrebuttal Testimony

**Revenue Requirement** 

**Division of Public Utilities** 

July 19, 2011

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	ARTIE POWELL, PHD
	Pre-Filed Surrebuttal Testimony
	Revenue Requirement
	DOCKET NO. 10-035-124
INTF	RODUCTION
Q:	WILL YOU PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND POSITION?
A:	My name is Artie Powell; my business address is 160 East 300 South, Salt Lake City,
	Utah; I am the manger of the Energy Section in the Division of Public Utilities.
Q:	ARE YOU THE SAME DR. POWELL THAT FILED DIRECT TESTIMONY IN THIS PROCEEDING?
A:	Yes. I filed direct testimony, DPU Exhibit 6.0D-RR, on behalf of the Division on May 26,
	2011.
Sco	PE OF SURREBUTTAL TESTIMONY
Q:	WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
A:	I will respond to the pre-filed rebuttal testimony of the Office of Consumer Service's
	(Office) witnesses Ms. Michelle Beck and Ms. Donna Ramas; the Company's witnesses
	Mr. Steve McDougal and Mr. Dean Brockbank; UIEC's witness Dr. Robert Malko; and
	UAE's witness Mr. Kevin Higgins.
Q:	WILL YOU PLEASE SUMMARIZE YOUR SURREBUTTAL TESTIMONY?
A:	On behalf of the Office, Ms. Ramas raises four concerns regarding the Division's
	recommendation on the Company's generation overhaul expense (GOE). These
	concerns are tangential to the issue of estimating the test year GOE and are
	I N T F Q: A: Q: A: S C O Q: A: Q: A:

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22	unpersuasive. Therefore, the Division continues to recommend that the Commission
23	adopt for the purpose of estimating GOE the method described in by direct testimony.
24	Ms. Beck and Mr. Higgins point out that the Klamath removal surcharge is
25	allocated to Utah under Rolled-In as filed by the Company and should be removed from
26	Utah's revenue requirement. I agree with this adjustment and the change is reflected in
27	the Division's surrebuttal position. The adjustment decreases the Company's revenue
28	requirement by approximately \$7.4 million. I also correct an error in my direct
29	testimony regarding the adjustment due to removing the accelerated depreciation of
30	the Klamath plant. Finally, I address Ms. Beck's argument that the relicensing and
31	settlement costs need to be removed. I show that Ms. Beck's position is inconsistent
32	with a Rolled-In allocation methodology and past Commission decisions.
33	In addressing Mr. McDougal's rebuttal of the Division's position on uncollectable
34	expense, I demonstrate that the Division's position presented by Ms. Salter is based on
35	sound logic.
36	Finally, I address the Office's and UIEC's concerns that the Division is proposing
37	an unorthodox method of determining the Company's revenue requirement in this case.
38	I clarify the Division's position in this regard and demonstrate that it is consistent with
39	traditional regulatory practice.

# 40 Response to Office Witness Ms. Ramas—Generation Overhaul 41 Expense

- 42 Q: THE OFFICE'S WITNESS MS. RAMAS RAISES SEVERAL OBJECTIONS TO YOUR RECOMMENDATION ON THE
   43 TREATMENT OF GENERATION OVERHAUL EXPENSE. COULD YOU SUMMARIZE YOUR RECOMMENDATIONS
   44 REGARDING THE ESTIMATION OF GENERATION OVERHAUL EXPENSE?
- 45 A: Yes. In my direct testimony, I compared and contrasted two methods for estimating
- 46 generation overhaul expense (GOE). I referred to these two methods as Method 1 and
- 47 Method 2. Method 1 escalates or inflates the average of four historical values; Method
- 48 2 averages the escalated historical values. A summary of these two methods are in
- 49 Equations 1 and 2 of my direct testimony, which for convenience, I repeat here.
- 50 Assuming G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub>, and G<sub>4</sub> are the historical annual GOE values, Method 1 is given by,

$$\hat{G}_5 = \frac{(1+\pi)}{4} \Big[ G_1 + G_2 + G_3 + G_4 \Big] = \frac{(1+\pi)}{4} \sum_{i=1}^4 G_i$$
 Eq. 1

- 51
  - where  $\pi$  is the inflation rate. In contrast, Method 2 is given by,

$$G_{5}^{\prime 0} = \frac{1}{4} \left[ G_{1} \left( 1 + \pi \right)^{4} + G_{2} \left( 1 + \pi \right)^{3} + G_{3} \left( 1 + \pi \right)^{2} + G_{4} \left( 1 + \pi \right) \right] = \frac{1}{4} \sum_{i=1}^{4} G_{i} \left( 1 + \pi \right)^{5-i} \quad \text{Eq. 2}$$

In my direct testimony, I demonstrated that Method 1 on average will
underestimate the fifth year value, while the estimate from Method 2 on average will
equal the fifth year value. Therefore, I recommended, and still recommend, using
Method 2 to estimate the test year GOE.

#### 56 Q: Would you summarize the objections that Ms. Ramas raises in her rebuttal testimony?

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57	A:	Ms. Ramas raises four issues with respect to my recommendation on estimating the test
58		year GOE. First, Ms. Ramas indicates that based on the testimony in past cases the
59		Commission chose not to use an escalation factor in estimating the test year GOE.
60		Second, Ms. Ramas correctly points out that I "did not use historical escalation factors
61		specific to those periods." <sup>1</sup> Third, Ms. Ramas argues that I did not accurately represent
62		the position of parties or the method adopted by the Commission in previous rate cases.
63		Fourth, Ms. Ramas claims that I have presented no new evidence to support my
64		recommendations in this case.
65	Q:	Do you agree with the objections that Ms. Ramas raises?
66	A:	No, I do not. I believe Ms. Ramas objections miss the mark and are unpersuasive, and in
67		some cases, incorrect.
68	Q:	WHAT DO YOU MEAN THAT MS. RAMAS' OBJECTIONS MISS THE MARK?
69	A:	The issue at hand I believe is to estimate the GOE that the Company will face in the rate
70		effective period. The objections raised by Ms. Ramas do not address the merits or logic
71		of my recommendation or methodologies—her objections are tangential to this issue
72		and do not address the economic or statistical justifications and evidence for using
73		Method 2 as opposed to Method 1.

## 74 Q: WOULD YOU EXPLAIN WHY YOU FIND MS. RAMAS' OBJECTIONS UNPERSUASIVE?

<sup>&</sup>lt;sup>1</sup> "Rebuttal Testimony of Donna Ramas for the Office of Consumer Services," Docket No. 10-035-124, June 30, 2011, p. 6, lines 132-133.

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75	A:	I shall discuss each of Ms. Ramas' objections in turn. First, Ms. Ramas points out that
76		based on testimony provided in prior cases, the Commission chose not use an inflation
77		factor to estimate the test year GOE. While this is correct, I believe the Commission's
78		decision was based on incomplete information. In his rebuttal testimony in this case,
79		the Company's witness, Mr. McDougal, provides a short explanation and example <sup>2</sup>
80		supporting my recommendation. This part of his testimony is similar to Mr. McDougal's
81		testimony in Docket No. 09-035-23, <sup>3</sup> which is far less complete than the testimony I
82		have provided in this case.
83		As Ms. Ramas points out, in the prior rate case, Docket No. 09-035-23, I provided
84		the results of a simulation <sup>4</sup> similar to the one I have provided in this case. As in this
85		case, the simulation results support my recommendation of using Method 2 to forecast
86		the test year GOE. However, since I was responding to the rebuttal testimony of Mr.
87		McDougal in the prior case, my testimony and evidence on the Company's GOE was
88		limited to that simulation and its results. In this case I have provided more detail and
89		new evidence in support of my recommendation. Given the limited nature of the
90		evidence presented in prior cases, I find Ms. Ramas' objection unpersuasive.

<sup>&</sup>lt;sup>2</sup> See "Confidential Pages of the Rebuttal Testimony of Steven R. McDougal—Revenue Requirement," Docket No. 10-035-124, pp. 16-17, lines 307-336.

<sup>&</sup>lt;sup>3</sup> See Rebuttal testimony of Mr. Steven R. McDougal, Docket No, 09-035-23, pp. 24-25, lines 518-535.

<sup>&</sup>lt;sup>4</sup> See, "Pre-filed Surrebuttal Testimony of William A. Powell, PhD On Behalf of the Division of Public Utilities," November 30, 2009, pp. 8-13, lines 138-219.

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91	Second, Ms. Ramas correctly states that I "did not use historical escalation
92	factors specific to those periods." I conclude from Ms. Ramas' statement that she
93	believes if an inflation rate is to be used, one should use inflation rates specific to the
94	historical periods. For example, in this case the historical GOE values are for the years
95	2007 through 2010. The GOE for 2007 would first be inflated using a 2008 inflation
96	rate—this would bring the 2007 value to a 2008 equivalent value; the 2008 equivalent
97	value would then be inflated using a 2009 inflation rate; the 2009 equivalent would then
98	be inflated using a 2010 inflation rate; and the 2010 equivalent value would then be
99	inflated using a 2011 inflation rate. <sup>5</sup> A similar procedure would be applied to the other
100	three historical values. While this would certainly increase the complexity of the
101	derivations shown in my direct testimony, it would not change the qualitative results:
102	Method 2 would still be superior to Method 1.
103	Additionally, the inflation rates I used are fairly modest ones. <sup>6</sup> For example, the
104	inflation rates I used in the estimation of the GOE are for the most part less than or
105	approximately equal to the inflation rates for the years 2007 through 2010 calculated
106	from the Consumer Price Index. (See Table 1) <sup>7</sup> Confidential DPU Exhibit 6.2SR-RR

<sup>&</sup>lt;sup>5</sup> Since this process only inflates through the end 2011, the resulting value is not matched perfectly with the end of the test year. In other words, the resulting value loosely represents an average value for the test year. In this regard, this is similar to how I applied the single inflation value in direct testimony.

<sup>&</sup>lt;sup>6</sup> See Confidential DPU Exhibit 6.6D-RR in this docket.

<sup>&</sup>lt;sup>7</sup> Average annual CPI figures derived from St. Louis Federal Reserve CPI data base, All Urban Consumers, All Items. <<u>http://research.stlouisfed.org/fred2/series/CPIAUCSL?cid=9</u>>

107	contains a similar comparison to Global Insight escalation rates for the same period.
108	The rates were taken from those filed by the Company in this case as well as from the
109	previous rate case, Docket No. 09-035-23. This comparison shows that my inflation
110	factors are greater in some years and less in others, but on average my inflation factors
111	are less than the year to year Global Insights numbers.

### 112 Table 1: CPI Inflation Rates

Year	CPI	Inflation
2006	201.56	
2007	207.34	2.87%
2008	215.25	3.82%
2009	214.55	-0.33%
2010	218.08	1.65%
2011 <sup>8</sup>	223.21	2.35%

113	In summary, I agree one could do as Ms. Ramas implies and use specific
114	historical inflation rates to estimate the GOE. However, Ms. Ramas' objection should be
115	viewed for what it is, namely, an argument about the appropriate inflation rate(s) and
116	does not address the merits of my recommendation. Thus, Ms. Ramas' digression into
117	appropriate interest is unpersuasive.

<sup>&</sup>lt;sup>8</sup> Data for 2011 include only January through May, 2011.

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118	Third, in her rebuttal testimony, Ms. Ramas states
119	However, Dr. Powell's summarization of the methods or
120	approach advocated in prior cases completely excludes the
121	method recommended by the OCS in prior cases, which
122	was adopted by the Commission in those cases, that a
123	straight four year average approach be used without any
124	escalation applied. <sup>9</sup>
125	This statement is not accurate. The method advocated by the Office that Ms.
126	Ramas refers to is a special case of Method 1 described here and in my direct
127	testimony. <sup>10</sup> This is reflected in DPU Exhibit 6.4D-RR, Equation 5 by setting the inflation
128	rate, $\pi$ , to zero. <sup>11</sup> With this assumption, Equation 7 that follows would be rewritten as,
	$[1 + (1 + \pi)^{-1} + (1 + \pi)^{-2} + (1 + \pi)^{-3}]$

$$\theta = (1 + \pi)^{-1} * \frac{[1 + (1 + \pi)^{-1} + (1 + \pi)^{-2} + (1 + \pi)^{-3}]}{4}$$
 Eq. 3

129 And the qualitative results discussed in my direct testimony would still hold. Namely,

130 Method 1 would on average systematically underestimate the GOE while Method 2 on

<sup>&</sup>lt;sup>9</sup> Rebuttal Testimony of Donna Ramas, p. 6, lines 167-171.

<sup>&</sup>lt;sup>10</sup> In DPU Exhibit 6.4D-RR I provide a generalization of Method 1 on page 3. The generalized model is summarized in Equations 10 and 11. To see that the Offices method is a special case of Method 1, set k equal to zero in those two equations.

<sup>&</sup>lt;sup>11</sup> The inflation rate in Equation 5 of DPU Exhibit 6.4D-RR is the assumed inflation rate chosen for the estimation. The Inflation rate that is left in Equation 7 of that exhibit or as rewritten here in Equation 3 is the actual inflation rate that defines the relationship as described in Equation 2 of that exhibit. In summary, the Office's proposal assumes that the chosen inflation rate used in the estimator is zero, while the actual inflation rate reflected in the value being estimated is not zero. In general, this mismatch will not yield an accurate estimate or forecast.

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131	average would equal the fifth year GOE value. Again, Ms. Ramas' concern does not
132	address the merits of the issue and are unpersuasive.

Finally, Ms. Ramas incorrectly claims that I have not presented any new evidence 133 in this case to support my recommendation.<sup>12</sup> As I discussed previously, the evidence 134 presented in prior rate cases has been limited. For example, while I presented the 135 results of a similar simulation in the prior rate case, my evidence was limited to that 136 137 simulation and its results. In this case, I have provided extensive statistical support and justification for my recommendation, evidence that the Commission is seeing for the 138 139 first time. This includes the theoretical statistical derivations represented in Equations 2 140 through 7 of my direct testimony with the accompanying discussion, and the detailed derivations and discussion in DPU Exhibit 6.4D-RR. Additionally, using basic economic 141 142 principles, I discussed in my direct testimony why comparing two values on a nominal basis separated in time can lead to erroneous conclusions.<sup>13</sup> 143 144 Would you summarize your recommendations regarding the estimation of GOE? **Q**: 145 The objections raised by Ms. Ramas in her rebuttal testimony regarding my A:

- 146 recommendations on estimating GOE are unpersuasive. Additionally, Ms. Ramas fails to
- address the underlying logic or evidence I have presented in this case to support my

<sup>&</sup>lt;sup>12</sup> Rebuttal Testimony of Ms. Ramas, pp. 6-7, lines 150-169.

<sup>&</sup>lt;sup>13</sup> "Direct Testimony—Revenue Requirement," DPU Exhibit 6.0D-RR, Docket No. 10-035-124, pp. 28-29, lines 473-493.

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148		recommendations. One could use, as Ms. Ramas appears to imply, inflation factors
149		specific to the historical values. However, in this case the inflation rates I chose are
150		relatively modest and would not affect the qualitative differences between the
151		forecasting methods. That is, Method 2 would yield superior statistical results relative
152		to Method 1, or its special case as advocated by the Office. Therefore, I continue to
153		recommend that Method 2 as described in my direct testimony be used to estimate the
154		test year GOE.
155	Res	PONSE TO UAE WITNESS KEVIN HIGGINS—KLAMATH REMOVAL
155 156	Res Sur	PONSE TO UAE WITNESS KEVIN HIGGINS—KLAMATH REMOVAL CHARGE
155 156 157	Res Sur Q:	PONSE TO UAE WITNESS KEVIN HIGGINS—KLAMATH REMOVAL CHARGE Responding in his rebuttal testimony to your direct testimony on the Klamath adjustment,
155 156 157 158	Res Sur Q:	PONSE TO UAE WITNESS KEVIN HIGGINS— KLAMATH REMOVAL CHARGE Responding in his rebuttal testimony to your direct testimony on the Klamath adjustment, UAE witness Mr. Higgins states, "The upshot is that recognition of the Klamath surcharge
155 156 157 158 159	Res Sur Q:	PONSE TO UAE WITNESS KEVIN HIGGINS — KLAMATH REMOVAL CHARGE Responding in his rebuttal testimony to your direct testimony on the Klamath adjustment, UAE witness Mr. Higgins states, "The upshot is that recognition of the Klamath surcharge revenue as an offset to Utah's revenue requirement does require a further adjustment in
155 156 157 158 159 160	Res Sur Q:	PONSE TO UAE WITNESS KEVIN HIGGINS — KLAMATH REMOVAL CHARGE Responding in his rebuttal testimony to your direct testimony on the Klamath adjustment, UAE witness Mr. Higgins states, "The upshot is that recognition of the Klamath surcharge revenue as an offset to Utah's revenue requirement does require a further adjustment in the Division's revenue adjustments." <sup>14</sup> Do you agree with Mr. Higgins?
155 156 157 158 159 160 161	Res Sur Q: A:	PONSE TO UAE WITNESS KEVIN HIGGINS — KLAMATH REMOVAL CHARGE Responding in his rebuttal testimony to your direct testimony on the Klamath adjustment, UAE witness Mr. Higgins states, "The upshot is that recognition of the Klamath surcharge revenue as an offset to Utah's revenue requirement does require a further adjustment in the Division's revenue adjustments." <sup>14</sup> Do you agree with Mr. Higgins? Yes I do. As Mr. Higgins explains, the Klamath removal surcharge is allocated to Utah
155 156 157 158 159 160 161 162	Res Sur Q:	PONSE TO UAE WITNESS KEVIN HIGGINS — KLAMATH REMOVAL CHARGE RESPONDING IN HIS REBUTTAL TESTIMONY TO YOUR DIRECT TESTIMONY ON THE KLAMATH ADJUSTMENT, UAE WITNESS MR. HIGGINS STATES, "THE UPSHOT IS THAT RECOGNITION OF THE KLAMATH SURCHARGE REVENUE AS AN OFFSET TO UTAH'S REVENUE REQUIREMENT DOES REQUIRE A FURTHER ADJUSTMENT IN THE DIVISION'S REVENUE ADJUSTMENTS." <sup>14</sup> DO YOU AGREE WITH MR. HIGGINS? Yes I do. As Mr. Higgins explains, the Klamath removal surcharge is allocated to Utah under the Rolled-In methodology. <sup>15</sup> Removing this surcharge from Utah rates would

- 164 \$7.4 million dollars. (See Table 2) This additional adjustment is reflected in the
- 165 Division's final revenue requirement position contained in Ms. Brenda Salter's
- 166 Surrebuttal Testimony, DPU Exhibit 8.2SR-RR.

<sup>&</sup>lt;sup>14</sup> "Rebuttal Testimony of Kevin C. Higgins (Revenue Requirement)," Docket No. 10-035-124, June 30, 2011, pp. 3-4, lines 68-70.

<sup>&</sup>lt;sup>15</sup> Office witness Ms. Michele Beck makes a similar observation in her rebuttal testimony.

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UNDER REVISED PROTOCOL			
TOTAL			UTAH
COMPANY (\$)	FACTOR	FACTOR %	ALLOCATED
15,824,000	OR	0.0	0.0
1,376,0000	CA	0.0	0.0
UNDER ROLLED-IN (\$)			(\$)
15,824,000	SG	0.43284	6,849,260
1,376,0000	SG	0.43284	595,588
		TOTAL	7.444.848
		ADJUSTMENT	-7,444,848

### 167 Table 2: Klamath Removal Surcharge

### 168 **RESPONSE TO OFFICE WITNESS MS. BECK-KLAMATH ADJUSTMENT**

### 169 Q: REFERRING TO PART OF YOUR KLAMATH ADJUSTMENT, MS. BECK STATES, "IT IS NOT CLEAR THAT THE

170 ENTIRE \$4.5 MILLION DESCRIBED IN LINE 442 OF DR. POWELL'S DIRECT TESTIMONY HAS BEEN INCLUDED,

171 AS THE ONLY KLAMATH ADJUSTMENT IDENTIFIED IN DPU EXHIBIT 8.2 (DIRECT) IS FOR \$3.4 MILLION."<sup>16</sup>

- 172 CAN YOU SHED LIGHT ON MS. BECK'S COMMENT?
- 173 A: Yes. The \$3.4 million in DPU Exhibit 8.2 is the correct total adjustment. The \$4.5 million
- in my direct testimony is incorrect and should have been \$3.3 million. Let me explain.

<sup>&</sup>lt;sup>16</sup> "Rebuttal Testimony of Michele Beck on Behalf of the Office of Consumer Services," Docket No. 10-035-124, p. 4, lines 83-86.

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175	As explained in my direct testimony, <sup>17</sup> depreciation reserve acts as an offset to
176	the rate base. Removing the accelerated depreciation as I recommended, has the effect
177	of decreasing depreciation reserve <sup>18</sup> and, thus, increasing rate base. In the body of my
178	direct testimony, I incorrectly added the effects of the removal of the accelerated
179	depreciation and the associated adjustment in the depreciation reserve, which are
180	respectively summarized in Tables 3 and 4. These adjustments should have been
181	subtracted from one another. The adjustment in Table 3 summarizes removal of the
182	accelerated depreciation, and adjusts the Company's revenue requirement by
183	approximately (\$3.90) million. Table 4 summarizes the adjustment to the Company's
184	depreciation reserve, approximately \$3.88 million. I applied a rough rule-of-thumb of
185	16.5% to the change in depreciation reserve, which yields a revenue requirement
186	impact of approximately \$640,000. Adding or netting the two adjustments, adjusts the
187	Company's revenue requirement by approximately (\$3.3) million. Thus DPU Exhibit 8.2
188	correctly reflects the Division's adjustment.
189	Several small changes to my direct testimony will clarify my recommendation.
100	First on line 426, where it reads "will decrease the Company's" should be shared to
190	First on line 456, where it reads, will decrease the company's should be changed to
191	read, "will increase the Company's". Similarly on line 437 where it reads, "The impact of

this adjustment decreases" should be changed to read, "The impact of this adjustment

192

<sup>&</sup>lt;sup>17</sup> See my direct testimony, lines 434-435.

<sup>&</sup>lt;sup>18</sup> See DPU Exhibit 6.3D-RR, pp. 2-3.

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194		"\$3.3". Finally, in Table 4, the negative signs on the numbers in the last column on the
195		right, "Revenue Requirement Impact", should be removed.
196	Q:	Ms. Beck objects to your recommendation that the Klamath relicensing costs should be
197		RECOVERED THROUGH RATES. SPECIFICALLY, SHE STATES THAT YOU DO NOT "ADDRESS THE FACT THAT
198		THESE COSTS WERE INCURRED AND PAID FOR A HYDRO RESOURCE, THE BENEFIT OF WHICH AT THAT TIME
199		WAS RESERVED BY THE REVISED PROTOCOL FOR PACIFIC POWER JURISDICTIONS." DO YOU AGREE WITH
200		Ms. Beck?
201	A:	No. I believe the position Ms. Beck articulates contradicts her testimony advocating a
202		movement in this case to Rolled-In and is inconsistent with Commission direction on
203		inter-jurisdictional allocations. In fact, her position is similar (if not identical) to the
204		position taken by the Company with respect to the gain on the sale of the Centralia
205		plant in Docket No. 99-2035-03. <sup>19</sup>
206		In the Centralia case the Company argued that since Utah, under various inter-
207		jurisdictional allocation methods, had paid only approximately five percent of
208		accumulated depreciation on the Centralia plant, it should be allocated only five percent
209		of the gain. The Company also argued that the entire gain should go to shareholders.
210		The Commission rejected both of these arguments. In its order in the Centralia docket,
211		the Commission stated,

increases". And as previously explained, on line 442, "\$4.5" should be changed to

193

<sup>&</sup>lt;sup>19</sup> See Ms. Beck's further rebuttal comments at lines 125-127; 133-137; 139-141; 142-144; and 146-148.

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212	Our conclusion that 95 percent of the gain on the
213	sale must come to ratepayers as compensation for the
214	future risks the sale imposes on them means that the
215	Company's proposal to allocate just 5 percent of the
216	ratepayers' share of the gain to Utah is inadequate. A 5
217	percent share of the gain is wholly inadequate given
218	record evidence that this jurisdiction will bear
219	approximately 35 percent of the going-forward risks.
220	PacifiCorp's proposal to allocate but 5 percent of
221	the gain to Utah follows from its view of the importance of
222	history. By its calculation, Utah customers have paid just 5
223	percent of the accumulated depreciation on Centralia. This
224	calculation is based on interjurisdictional allocation
225	methods employed since the merger between Pacific
226	Power and Utah Power occurred in 1989, plus the
227	application of the fully rolled-in method for the period
228	following its adoption in April 1998 by Utah Commission
229	order. Regardless of such history, and without according it
230	decision making significance, the Division argues that the 5
231	percent proposal is unfair. Five percent of the gain cannot
232	compensate Utah ratepayers who must bear 35 percent of
233	the risk. The [Office] regards this as the crucial issue if sale
234	is permitted, arguing that the Commission should support
235	the conclusions of the April 1998 Order on

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236	interjurisdictional allocations and allow Utah the benefits
237	of the fully rolled-in method. <sup>20</sup>
238	Relevant to the issue at hand, the Commission concluded,
239	As we have repeatedly held, historical cost
240	causation is an improper basis for interjurisdictional
241	allocation of system revenue requirement. In the April
242	1998 Order, we reaffirmed that current, not historical,
243	characteristics of cost causation are what count The
244	Utah jurisdictional share will be about 35 percent, the
245	precise amount to be determined by application of the
246	fully rolled-in allocation method. <sup>21</sup>
247	In summary, the Commission determined that, despite the fact that Utah
248	ratepayers had paid only a small portion of the accumulated depreciation on the
249	Centralia plant, Utah ratepayers were entitled to a fully allocated share of the gain
250	(minus a small amount to indemnify shareholders for its remaining risk) as
251	compensation for the potential going forward risk. Similarly, since going forward Utah
252	ratepayers will under Rolled-In receive a fully allocated share of the benefits from the
253	Klamath plants, it should receive a fully allocated share of the costs, including the
254	relicensing and settlement costs, necessary to maintain the operations of the plant. The
255	Division's recommendation is consistent with both the regulatory principles of matching

<sup>&</sup>lt;sup>20</sup> "Report and Order: Sale of the Centralia Plant and Mine," Docket No. 99-2035-03, March 14, 2000, pp. 19-20.

<sup>&</sup>lt;sup>21</sup> "Report and Order: Sale of the Centralia Plant and Mine," p. 20.

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256		benefits with costs and the Commission's long-standing position that current, not
257		historical, characteristics of cost causation are the appropriate basis for inter-
258		jurisdictional allocations.
259		If, on the other hand, the Commission determines none of these costs is
260		recoverable from Utah ratepayers, then the Commission should consider removing part
261		or all of the benefits from the case as well. However, I caution that this is dangerously
262		similar to situs assigning generation resources, a practice that the Commission and other
263		Utah parties have resisted since the merger between Pacific Power and Utah Power and
264		could open the floodgates for similar requests through the MSP process. <sup>22</sup>
265	Q:	MISS BECK ARGUES THAT YOU DID NOT SUPPORT YOUR CONCLUSION THAT THE RELICENSING AND
266		SETTLEMENT COSTS WOULD BE INCURRED REGARDLESS OF THE PATH TAKEN, RELICENSING OR REMOVAL.
267		DO YOU HAVE ANY COMMENTS?
268	A:	I based my conclusions on a careful review of the Company's testimony in this case,
269		conversations with Company representatives, and a review of many of the Klamath
270		related data requests in this case. In addition, Mr. Brockbank addresses in lines 84-125
271		of his rebuttal testimony many of the objections raised by the Office in its direct

<sup>&</sup>lt;sup>22</sup> Wyoming representatives have pushed (unsuccessfully) for the MSP standing Committee to consider a Wyoming situs assigned coal plant. Similarly, in the MSP discussions leading to the 2010 Protocol, Oregon representatives requested an allocation study based on situs assignment of resources by operating area as a means of determining the benefits (or costs) of breaking up the Company. Some Utah parties vigorously opposed both proposals. While the Company performed Oregon's requested study, the Oregon requested study design was so flawed as to make the results, in my opinion, unusable. In addition, situs assigning resources was part of the basis of the Company's original Strategic Realignment Proposal or SRP in Docket No. 00-035-15 a proposal that the Utah Commission rejected.

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272		testimony. Mr. Brockbank's references to his direct testimony and the KHSA agreement
273		are part of what I reviewed for my direct testimony. I have found no evidence to refute
274		the Company's claim, summarized by Mr. Brockbank in response to the Office's direct
275		testimony that the intent of KHSA process and agreement was to address the relicensing
276		and continued operation of the Klamath facilities. <sup>23</sup>
277 278	Resp Adju	ONSE TO COMPANY WITNESS MR. MCDOUGAL—KLAMATH STMENT
279	Q:	IN YOUR DIRECT TESTIMONY YOU RECOMMEND THAT THE RELICENSING AND SETTLEMENT COSTS BE
280		DEPRECIATED OVER TWENTY YEARS AND NOT TEN AS THE COMPANY REQUESTS. IN REBUTTAL, MR.
281		McDougal argues that your adjustment "misaligns the benefits with the costs causing
282		INTERGENERATIONAL SUBSIDIES." <sup>24</sup> DO YOU AGREE WITH MR. MCDOUGAL?
283	A:	Not entirely. Mr. McDougal's claim that my recommendation leads to inter-
284		jurisdictional subsidies is ironic. If the KHSA does not move forward, then the
285		Company's recommendation to accelerate the depreciation of the Klamath facilities will
286		also lead to the same type of inter-jurisdictional subsidies. The real issue is not the
287		inter-jurisdictional subsidies, which, because the depreciation will be trued-up when the
288		outcome is known, will be short-lived, but the uncertainty of the outcome of the KHSA
289		agreement and the removal of the Klamath dam. My recommendation acknowledges

<sup>&</sup>lt;sup>23</sup> See "Rebuttal Testimony of Dean S. Brockbank," Docket No. 10-035-124, p. 5, lines 98-107.

<sup>&</sup>lt;sup>24</sup> "Confidential Pages of the Rebuttal Testimony of Steven R. McDougal," Docket No. 10-035-124, pp. 66-67, lines 1451-1453.

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this uncertainty and attempts to mitigate the rate impact of any depreciation true-up inthe future. Let me explain.

292 My recommendation to depreciate the relicensing costs over 20 years is a 293 compromise between the Company's request to accelerate the depreciation over ten 294 years in anticipation of the removal of the plant and depreciating the plant over its 295 remaining life, approximately 44 years. I recognize that whether the Klamath plant is 296 removed in ten years or not, that under my recommendation an adjustment to the 297 depreciation of the plant will take place. On the one hand, if the KHSA goes forward, 298 the depreciation would need to be increased. On the other hand, if the KHSA does not 299 go forward, the depreciation would need to be decreased to match the remaining life. In contrast, the Company's recommendation would have the Company over collect the 300 301 depreciation if in fact the KHSA does not move forward.

I anticipate that the Company will file its next general rate case within the next
 year and possibly as early as this winter before the end of the current calendar year. A
 decision by the Secretary of the Interior is anticipated after March 2012 and thus
 possibly available during the next rate case proceeding. His decision will, I believe, grant
 more certainty to the outcome of the KHSA. Therefore, at most, the mismatch
 indentified by Mr. McDougal would exist for approximately one year. The intent of my

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recommendation is to mitigate the impact of the change in depreciation regardless of
the outcome of the KHSA agreement.

# Response to Company Witness Mr. McDougal—Uncollectable Expense

312 Q: **REGARDING THE DIVISION'S ADJUSTMENT TO UNCOLLECTABLE EXPENSE, COMPANY WITNESS MR.** 313 McDougal states in his rebuttal testimony, "Ms. Salter's adjustment seems to be guided 314 MORE BY TRYING TO GET A LOWER AMOUNT THAN TO REDUCE VOLATILITY."<sup>25</sup> DO YOU AGREE WITH MR. McDougal's characterization of the Division's adjustment to uncollectable expense? 315 No I do not. In his direct testimony, Mr. McDougal explains why the Company chose not 316 A: to use a three year average (as the Commission decided in the previous rate case), but 317 318 instead used for the test year the same rate as the June 2010 unadjusted value. On 319 page 34 of his direct testimony, Mr. McDougal provides the historical values for June 320 2008, June 2009, and June 2010. The average of these three values—respectively 321 0.311%, 0.367% and, 0.315%—is 0.331%. Looking at the graph in Mr. McDougal's direct 322 testimony, it appears that the value for June 2009 is an anomaly—relative to the other two values it appears on the high side. However, determining whether the June 2009 323 value is indeed an anomaly in this manner is highly subjective—there is no statistical 324 325 basis for drawing any such conclusion from only three values. The Division's purpose in 326 proposing using a five year average was not only to address the issue of volatility in the historical values, but also to address the apparent concern that the Company expressed 327

<sup>&</sup>lt;sup>25</sup> "Confidential Pages of the Rebuttal Testimony of Steven R. McDougal," Docket No. 10-035-124, p. 42, lines 885-886.

328	in its choice that one or more of the historical values may constitute an anomalous or
329	outlying value.
330	In recognition of the Companies apparent concern over anomalous values, in
331	direct testimony, Division witness Ms. Brenda Salter states,
332	The 12 months ending December 2008 uncollectible
333	expense and the 12 months ending June 2009 appear to
334	be <b>anomalous</b> periods. In order to get a better picture of
335	what a <b>normal</b> uncollectible expense would be one could
336	remove the anomalous periods from a 3-year average and
337	include periods prior to the recession, or smooth the five
338	years with a rolling average. Rather than removing data,
339	the better fit was to use a rolling average. <sup>26</sup> (Emphasis
340	added)
341	Ms. Salter went on to conclude,
342	The Company's uncollectible expense has proven to be
343	volatile with swings in both directions. My adjustment has
344	incorporated a smoothing mechanism that has the ability
345	to remove some of the volatility. The Company's
346	adjustment in the 2009 rate case used the uncollectible
347	expense in the base year and escalated it. In this case the
348	Company chose to use the base year uncollectible expense

<sup>&</sup>lt;sup>26</sup> "Direct Testimony of Brenda Salter," DPU Exhibit 8.0D-RR, Docket No. 10-035-124, pp. 18-19, lines 337-341.

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349		rate as explained in Mr. McDougal's Exhibit RMPSRM-2
350		page 32 and 33. Neither of the Company's methods took
351		into account the volatility of the uncollectible expense. <sup>27</sup>
352		From Ms. Salter's testimony it is clear that the Division's adjustment and
353		methodology was designed to address both the volatility in the historical data as well as
354		the potential for anomalous values. The Company's approach in this case, on the other
355		hand, only attempted to deal with the apparent anomalous nature of the 2009 value,
356		but did so in an arbitrary manner.
357	Q:	WHY DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE?
357 358	<b>Q:</b> A:	WHY DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE? As I mentioned above, there is not enough information in three values on which to base
357 358 359	<b>Q:</b> A:	WHY DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE? As I mentioned above, there is not enough information in three values on which to base a judgment concerning outlying values. With five values, exploratory data analysis
357 358 359 360	<b>Q:</b> A:	WHY DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE? As I mentioned above, there is not enough information in three values on which to base a judgment concerning outlying values. With five values, exploratory data analysis methods, such as Box Plots, could be used to help make a determination about outlying
357 358 359 360 361	<b>Q:</b> A:	WHY DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE? As I mentioned above, there is not enough information in three values on which to base a judgment concerning outlying values. With five values, exploratory data analysis methods, such as Box Plots, could be used to help make a determination about outlying values. Five is the minimum number of data points that can be used to construct a Box
357 358 359 360 361 362	<b>Q:</b> A:	WHY DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE? As I mentioned above, there is not enough information in three values on which to base a judgment concerning outlying values. With five values, exploratory data analysis methods, such as Box Plots, could be used to help make a determination about outlying values. Five is the minimum number of data points that can be used to construct a Box Plot. <sup>28</sup> The Box Plot graphically depicts the first, second, and third quartiles for a
357 358 359 360 361 362 363	<b>Q:</b> A:	Why DID THE DIVISION PROPOSE USING FIVE YEARS INSTEAD OF THREE? As I mentioned above, there is not enough information in three values on which to base a judgment concerning outlying values. With five values, exploratory data analysis methods, such as Box Plots, could be used to help make a determination about outlying values. Five is the minimum number of data points that can be used to construct a Box Plot. <sup>28</sup> The Box Plot graphically depicts the first, second, and third quartiles for a sample, and an upper and lower fence. Data points beyond the fences are usually

<sup>&</sup>lt;sup>27</sup> Direct Testimony of Ms. Salter, p. 19, lines 345-351.

<sup>&</sup>lt;sup>28</sup> John D. Emerson and Judith Strenio, "Boxplots and Batch Comparison," in <u>Understanding Robust and Exploratory</u> <u>Data Analysis</u>, [John Wiley & Sons: New York, New York], 1983, p. 61. A copy of this article is provided as DPU Exhibit 6.1SR-RR.

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365		However, caution must be exercised when applying a Box Plot to a small sample
366		of data. For example, when drawing a large random sample of data from a normal
367		distribution, one would expect approximately seven-tenths of one percent (0.7%) of the
368		sample values to be beyond the fences <sup>29</sup> and, thus, qualify as outliers. <sup>30</sup> In other words,
369		if a very large sample (say, 10,000 data points) were drawn from a standard normal
370		distribution, then it would be expected that approximately 0.7% of the sample (70 data
371		points) would be classified as outliers. In a sample of five data points, however, the
372		number of outliers can be understated. For example, the authors of one study found
373		"that 67% of samples had no values beyond the outlier cutoffs." <sup>31</sup>
		, ,
374	Q:	WHY ARE OUTLIERS A CONCERN?
374 375	<b>Q:</b> A:	WHY ARE OUTLIERS A CONCERN? There are several reasons why one would be concerned about the presence of outliers
374 375 376	<b>Q:</b> A:	WHY ARE OUTLIERS A CONCERN? There are several reasons why one would be concerned about the presence of outliers in a sample. Relevant to the issue at hand, the sample mean can be unduly influenced
374 375 376 377	<b>Q:</b> A:	WHY ARE OUTLIERS A CONCERN? There are several reasons why one would be concerned about the presence of outliers in a sample. Relevant to the issue at hand, the sample mean can be unduly influenced by the presence of one or more outliers in the data. Remember that the sample mean is
374 375 376 377 378	<b>Q:</b> A:	WHY ARE OUTLIERS A CONCERN? There are several reasons why one would be concerned about the presence of outliers in a sample. Relevant to the issue at hand, the sample mean can be unduly influenced by the presence of one or more outliers in the data. Remember that the sample mean is the sum of the sample values divided by the sample size. Thus, the sample mean gives
<ul> <li>374</li> <li>375</li> <li>376</li> <li>377</li> <li>378</li> <li>379</li> </ul>	<b>Q:</b> A:	WHY ARE OUTLIERS A CONCERN? There are several reasons why one would be concerned about the presence of outliers in a sample. Relevant to the issue at hand, the sample mean can be unduly influenced by the presence of one or more outliers in the data. Remember that the sample mean is the sum of the sample values divided by the sample size. Thus, the sample mean gives equal weight to each observation in the sample. The problem, for example, is the
<ul> <li>374</li> <li>375</li> <li>376</li> <li>377</li> <li>378</li> <li>379</li> <li>380</li> </ul>	<b>Q:</b> A:	WHY ARE OUTLIERS A CONCERN? There are several reasons why one would be concerned about the presence of outliers in a sample. Relevant to the issue at hand, the sample mean can be unduly influenced by the presence of one or more outliers in the data. Remember that the sample mean is the sum of the sample values divided by the sample size. Thus, the sample mean gives equal weight to each observation in the sample. The problem, for example, is the presence of a high outlier may yield a mean that is unjustifiably large relative to

<sup>&</sup>lt;sup>29</sup> The lower and upper fences are defined respectively as  $Q_1 - 1.5^*IQR$  and  $Q_3 + 1.5^*IQR$ , where  $Q_1$  and  $Q_3$  are the first and third quartiles respectively, and  $IQR = Q_3 - Q_1$  is the interquartile range.

<sup>&</sup>lt;sup>30</sup> Emerson and Strenio, p. 63.

<sup>&</sup>lt;sup>31</sup> Emerson and Strenio, pp. 64-65.

382	Q:	Are there any outliers in the data that Ms. Salter used to calculate the Division's
383		UNCOLLECTABLE EXPENSE RECOMMENDATION OF?
384	A:	No. I have reproduced Ms. Salter's uncollectable expense ratios from DPU Exhibit 8.4 in
385		Table 3. I have also provided the basic values for a Box Plot in the same table. As can be
386		seen, the minimum and maximum values of the sample are within the calculated fences
387		and, therefore, none of the sample values would be classified as outliers.

# 388 Table 3: Uncollectable Expense

Uncollectable Exp	ense Ratios	_			
Dec 06	.002688				
Jan 07	.002344	Quartiles			
Dec 07	.002468	Q1	.002501		
Jun 08	.003113	Q3	.003220	IQR	.000719
Dec 08	.003633				
Jun 09	.003665	Fences			
Dec 09	.003244	Lower Fence	.001422	Min Value	.002099
Jun 10	.003147	Upper Fence	.004298	Max Value	.003665
Dec 10	.002600				
 Jul 10 – Mar 11	.002099				

389	Q:	You previously indicated that when using small samples caution should be exercised in
390		APPLYING THE TECHNIQUES YOU DESCRIBE. WHAT PRECAUTIONS DID MS. SALTER EMPLOY?
391	A:	If outliers are detected in a sample, some researchers and analysts advocate or practice
392		throwing the offensive data out. In general, I am not in favor of this practice. Instead, I
393		would recommend possibly using the median instead of the mean as a representation or
394		estimate of the central tendency.

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395		In this case, the analysis does not detect an outlier. Nevertheless, Ms. Salter
396		investigated the recent trend in the uncollectable expense and the Company's
397		practices. <sup>32</sup> From this investigation Ms. Salter concluded that the Company's
398		uncollectable expense would be expected to decrease, which supports Ms. Salter's
399		reduction to the Company's requested uncollectable expense.
400	Q:	WHAT DO YOU CONCLUDE FROM THIS?
401	A:	I support Ms. Salter's recommendation. Contrary to the Company's claim that the
402		Division was trying to game the adjustment, Ms. Salter's recommendation is based on
403		sound reasoning and judgment.
404	Resp	ONSE TO OFFICE WITNESS MS. BECK-REVENUE REQUIREMENT
405	Q:	Ms. Beck makes a statement in her rebuttal testimony starting at line 242 that some might
406		INTERPRET AS IMPLYING THAT THE DIVISION IS ASKING THE COMMISSION TO SET A RETURN ABOVE THAT
407		WHICH IS JUSTIFIED BY THE EVIDENCE IN THIS CASE. IS THIS AN ACCURATE CHARACTERIZATION OF THE
408		DIVISION'S POSITION?
409	A:	No, it is not. The statement in my direct testimony that Ms. Beck is responding to, is in
410		lines 30-46. <sup>33</sup> I do not believe that the Office and the Division are actually at odds over
411		what we are asking the Commission to do in this case, namely, to set just and

<sup>&</sup>lt;sup>32</sup> Direct testimony of Ms. Salter, pp. 15-17, lines 287-307.

<sup>&</sup>lt;sup>33</sup> Dr. Malko, on behalf of the UIEC, draws a similar conclusion. I will address separately specific comments to his rebuttal testimony later in my surrebuttal testimony.

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412	reasonable rates. However, given the confusion surrounding the Division's statement, I
413	will clarify the Division's position and recommendation to the Commission.
414	In her rebuttal testimony, Ms. Beck states, "My purpose was solely to clarify that
415	while the Office may agree with adjustments of other parties in addition to those it
416	proposes, it does not advocate that a decrease in base rates is warranted at this time." <sup>34</sup>
417	And therein lays the rub. Similar to the Office's position, the Division believes a rate
418	decrease is unwarranted in this case. However, if the Commission were to adopt just
419	the minimum adjustment in each category presented by the various parties in this case,
420	the weight of those adjustments would lead to a rate decrease. If the Commission
421	adopted the average or maximum adjustment in each category, the rate decrease would
422	be relatively substantial. (See DPU Exhibit 6.3SR-RR) The Division was aware of the
423	potential of this outcome prior to filing its direct testimony in this case and attempted
424	to convey its concern. The Division's recommendation was not that the Commission
425	would allow the recovery of costs it determined were imprudent but, that the
426	Commission would review each potential adjustment in light of its impact on the public
427	interest.
128	As Mr. Scott Hempling points out
720	

<sup>&</sup>lt;sup>34</sup> "Rebuttal Testimony of Michele Beck on Behalf of the Office of Consumer Services," Docket No. 10-035-124, June 30, 2011, p. 10, lines 225-227.

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429	Regulatory statutes require regulators to make
430	decisions 'consistent with the public interest
431	Derived from these components [Economic
432	Efficiency, Sympathetic Gradualism, and Political
433	Accountability], the public interest is both a composite and
434	a compromise: a compromise not among private interests,
435	but among components of the public interest
436	The public interest can accommodate private
437	interests—in their legitimate formBut private
438	interests can press for illegitimate ends—a consumer's
439	desire for below-cost power prices with above average
440	reliability an investor's desire for above-market returns
441	with below average risks management's desires for
112	market domination
442	
443	The purposeful regulator does not seek
444	"compromise" or "balance" among private interests
445	appearing before her. <sup>35</sup>
446	In short, "The purposeful regulator must establish boundaries, to align [private]
447	interests with the public interest." <sup>36</sup>

<sup>&</sup>lt;sup>35</sup> Scott Hempling, Preside of Lead?: The Attributes and Actions of Effective Regulators, National Regulatory Institute, 2010, pp. 3-5.

<sup>&</sup>lt;sup>36</sup> Scott Hempling, p. 5.

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448	Consistent with Mr. Hempling's comments, the Division's concern was that a
449	balancing or averaging of parties positions would lead to an outcome that was not in the
450	public interest. Instead, the Division recommends that the Commission seek guidelines
451	or principles that promote the public interest. Later in my testimony, I recommend that
452	the Commission pursue a series of technical conferences to address some of these
453	issues in an open forum. For the present case, perhaps Professor Bonbright said it best
454	when, after a short introduction on the criteria of a fair return, he stated,
155	The main nurnose of this introduction is to guard against a
+55	
456	tendency to treat rate-base measurement and rate-of-
457	return measurement as if they were governed by different
458	standards of fairness instead of being merely two steps by
459	which to determine corporate revenue requirements.
460	Let it be noted that the criteria under review are
461	relevant, not just to the determination of the fair return in
462	a given rate case but to the choice of an entire system of
463	rate regulation applied with reasonable consistency over
464	an extended period of years. What makes an allowed
465	return fair in any specific rate case must be its fair
466	conformity with the general principles applicable also in
467	other years and under different conditions. Apart from

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468	such conformity, the fairness of the allowance at any one
469	time is simply indeterminate. <sup>37</sup>

470	In summary, the Division recommends that the Commission deliberate carefully
471	on each adjustment and weigh its merits, not simply on the basis of the legitimacy of

- 472 each argument, but also in light of general regulatory and public policy principles that
- 473 promote the public interest and the consistency with past and possibly potential future
- 474 applications.

### 475 **RESPONSE TO UIEC WITNESS DR. MALKO-REVENUE REQUIREMENT**

- 476 Q: IN HIS REBUTTAL TESTIMONY FOR THE UIEC, DR. MALKO ARGUES THAT THE DIVISION IS RECOMMENDING
- 477 THAT THE **C**OMMISSION "ALLOW AND APPROVE IMPRUDENT OR UNREASONABLE COSTS TO BE INCLUDED
- 478 IN **RMP'**S REVENUE REQUIREMENT AND RATES."<sup>38</sup> IS THE DIVISION IN ANY WAY SUGGESTING OR
- 479 RECOMMENDING THIS TO THE COMMISSION?
- 480 A. No. If this were the Division's position, I would agree with Dr. Malko, it would be a
- 481 violation of fundamental regulatory principles. However, in addressing Ms. Beck's
- 482 concerns on this issue, I have previously clarified the Division's position and
- 483 recommendations to the Commission. The Division is not recommending that the
- 484 Commission approve costs that it previously determined were imprudent.

<sup>&</sup>lt;sup>37</sup> James C. Bonbright, <u>Principles of Utility Rates</u>, [Columbia University Press: New York, New York], 1961, p. 151.

<sup>&</sup>lt;sup>38</sup> "Rebuttal Testimony and Exhibits of J. Robert Malko: On Behalf of the Industrial Consumers," Docket No. 10-035-124, June 30, 2011, pp. 1-2, lines 14-19.

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485	Q:	DR. MALKO ARGUES THAT YOU HAVE PLACED TOO MUCH EMPHASIS ON THE FINANCIAL INTEGRITY OF THE
486		COMPANY WHILE UNDEREMPHASIZING RATE PAYERS INTERESTS AND TRADITIONAL REGULATORY
487		PRINCIPLES. <sup>39</sup> HOW DO YOU RESPOND?
488	A:	While the Division is concerned with the financial integrity of the Company, <sup>40</sup> I believe
489		the Division's position in this case belies Dr. Malko's assertion. At the time of filing
490		surrebuttal testimony, the Division has supported and recommended, either in the first
491		instance or by adoption, adjustments totaling over \$130 million in revenue requirement
492		reductions to the Company's case. Additionally, through legal brief, the Division
493		opposed the Company's motion to bring the deferred net power costs from Docket No.
494		11-035-46 in to this case. Finally, as clarified herein, I have shown that the Division's
495		recommendations are consistent with traditional regulatory policy.
496	Q:	DR. MALKO ARGUES THAT YOU ARE "RECOMMENDING A FORM OF 'TOP-DOWN,' AS OPPOSED TO
497		'BOTTOM-UP,' DETERMINATION OF A REVENUE REQUIREMENT FOR A REGULATED UTILITY, RMP. THE
498		TRADITIONAL REGULATORY APPROACH IS TO CONSTRUCT A REVENUE REQUIREMENT FROM THE 'BOTTOM-
499		UP." FIRST OFF, DO YOU AGREE WITH DR. MALKO THAT THE "TRADITIONAL" APPROACH IS FROM THE
500		BOTTOM UP?
501	A:	Theoretically, yes I agree with Dr. Malko if by "bottom-up" he means that the parties
502		look at each cost presented by the Company and determine its reasonableness or

<sup>&</sup>lt;sup>39</sup> See Rebuttal Testimony of Dr. Malko, p. 2, lines 22-24.

<sup>&</sup>lt;sup>40</sup> Utah State Code Ann § 54-4a-6(4) among other things states, "For purposes of guiding the activities of the Division of Public Utilities, the phrase 'just, reasonable, and adequate' encompasses, but is not limited to the following criteria: (a) maintain the financial integrity of public utilities by assuring a sufficient and fair rate of return."

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503	prudence. However, practice is usually far different from theory and appears to a blend
504	of both bottom-up and top-down approaches. For example, in this case, the Office has
505	stated, and the Division agrees, that a rate decrease is not warranted. Each of our case
506	was determined by analyzing individual adjustments, an approach that I consider a
507	bottom-up approach. While neither the Division nor the Office has drawn a line in the
508	sand regarding a minimum revenue requirement, some could see in the Division's
509	approach, as Dr. Malko apparently does, elements of a top-down methodology.
510	Similarly, interveners other than the Division and the Office typically do not take a
511	position on an overall revenue requirement but, instead, promote select adjustments
512	and recommendations. While this latter approach is not wrong or inconsistent with a
513	bottom-up approach, it does not represent the full development of a bottom-up case $^{41}$
514	that Dr. Malko appears to advocate.
515 <b>O</b> :	DR. MALKO ARGUES THAT YOU HAVE NOT APPROPRIATELY CONSIDERED THE ROLE OF ECONOMIC
516 <b>Q</b> .	REGULATION. DO YOU AGREE WITH DR. MALKO?
517 A:	No.
518 <b>Q</b> :	AT LINES 114 TO 120, DR. MALKO QUOTES FROM PROFESSOR BONBRIGHT. IS THIS THE FIRST TIME IN

519 THIS CASE THAT DR. MALKO HAS USED THIS QUOTATION?

<sup>&</sup>lt;sup>41</sup> The Division recognizes that interveners interests are often narrowly focused, likely defined by its constituency group, and have limited funds with which to prosecute a rate case.

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A.	No. I believe he used the same quotation in his test year testimony earlier in this case. <sup>42</sup>
Q:	TO WHAT PURPOSE DOES DR. MALKO USE THIS PARTICULAR QUOTE?
A:	I am not sure, since the quotation does not accurately represent Professor Bonbright's
	conclusion on the role of regulation as a substitute for competition. Rather this
	quotation is part of Professor Bonbright's framing a question to be systematically
	debated. To see this, consider Professor Bonbright's statement in the context of the
	entire paragraph from which Dr. Malko quotes:
	Before turning in the next chapter to those
	unorthodox principles of rate making often called "social
	theories," we may consider the merits of a general
	standard of reasonable rates that has received at least
	verbal support both from public service commissions and
	from public utility spokesmen. This is the standard of the
	hypothetical competitive price. Regulation, it is said, is a
	substitute for competition. Hence its objective should be
	to compel a regulated enterprise, despite its possession of
	complete or partial monopoly, to charge rates
	approximating those which it would charge if free from
	regulation but subject to the market forces of competition.
	<b>Q:</b> A:

<sup>&</sup>lt;sup>42</sup> See "Surrebuttal Testimony and Exhibits of J. Robert Malko on Test Period Selection," Docket No. 10-035-124, March 21, 2011, lines 28-34.

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539		In short, regulation should be not only a substitute for
540		competition, but a closely imitative substitute. <sup>43</sup>
541		Since Professor Bonbright is suggesting that we "consider the merits" of
542		competitive pricing as a standard for reasonable rates, I fail to see any support for Dr.
543		Malko's arguments from this particular quotation.
544	Q:	WHAT CONCLUSIONS DOES PROFESSOR BONBRIGHT REACH REGARDING THE ROLE OF REGULATION AS A
545		SUBSTITUTE FOR COMPETITION?
546	A:	In the same chapter from which Dr. Malko quotes, Professor Bonbright states,
547		Regulation, then, as I conceive it, is indeed a
548		substitute for competition; and it is even a partly imitative
549		substitute. But so is a Diesel locomotive a partly imitative
550		substitute for a steam locomotive, and so is a telephone
551		message a partly imitative substitute for a telegraph
552		message. What I am trying to emphasize by these crude
553		analogies is that the very nature of a monopolistic public
554		utility is such as to preclude an attempt to make the
555		emulation of competition very close.44
556	Q:	DO YOU AGREE WITH DR. BONBRIGHT'S CONCLUSION?
557	A:	Yes. I agree that regulation is a substitute for competition, but not necessarily a
558		particularly close imitative one.

<sup>&</sup>lt;sup>43</sup> James C. Bonbright, p. 93. (Emphasis added)

<sup>&</sup>lt;sup>44</sup> James C. Bonbright, p. 107.

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559	Q:	What reasons does Professor Bonbright give for his qualified conclusion?
560	A:	As I stated earlier, the statement Dr. Malko quotes frames a debate that Professor
561		Bonbright explores in the remainder of the chapter. <sup>45</sup> In that debate, Professor
562		Bonbright discusses six competitive pricing principles that, if closely emulated, would
563		pose particular problems for regulation. Indeed, I believe that a close emulation under
564		these conditions would require a fundamental departure from traditional regulation, <sup>46</sup>
565		and may even require legislative action.
566	Q:	WHAT SIX PRINCIPLES DOES PROFESSOR BONBRIGHT DISCUSS?
567	A:	The six conditions or principles are:
568 569		<ol> <li>Rates Should Correspond to Production Costs Only Under Conditions of Equilibrium;</li> </ol>
570		2. If Market-Clearing Rates Yield Excess Profits, a Commission Should Compel
571		the Expeditious Enhancement of Plant Capacity;
572		3. Rates Would be Required to Equal Both Average Costs and Marginal Costs;
573		4. The Relevant Costs Would be Future Costs, Not "Sunk" Costs;
574		5. All Rate Discrimination Would be Outlawed; and
575		6. The Rates of Return Should Correspond to the Profit-and-Loss Differentials of
576		a Competitive Economy.
577	Q:	CAN YOU EXPLAIN THE DIFFICULTIES THESE PRINCIPLES POSE FOR REGULATION?

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<sup>&</sup>lt;sup>45</sup> James C. Bonbright, Chapter VI, pp. 93-108.

<sup>&</sup>lt;sup>46</sup> See James C. Bonbright, p. 103.

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578	A:	Professor Bonbright provides a partial explanation for each principle. However,
579		Professor Bonbright does not explain all of the underlying economic theory necessary
580		for a full understanding of the difficulties inherent in regulation emulating competitive
581		pricing closely. A complete explanation, however, would take a considerable amount of
582		space and time. While I believe these issues are important, I will leave the space and
583		time to another time and place. However, let me briefly explain one problem as
584		discussed by Professor Bonbright under the second principle: If Market-Clearing Rates
585		Yield Excess Profits, a Commission Should Compel the Expeditious Enhancement of Plant
586		Capacity. <sup>47</sup>
587		Under the theory of competitive pricing, if firms are earning excess profits, other
588		firms enter the market to take advantage of the prevailing market conditions. As firms
589		enter the market, market supply expands, driving prices down and eliminating the
590		excess profits. However, under the theory of monopoly pricing, the unregulated
591		monopoly would have no incentive to increase output knowing that the expansion
592		would tend to eliminate the excess profits. Therefore, in order to emulate closely the
593		competitive outcome, <sup>48</sup> regulators would need to determine the level of output

<sup>&</sup>lt;sup>47</sup> James C. Bonbright, p. 99.

<sup>&</sup>lt;sup>48</sup> The notion of the competitive outcome relative to the monopoly is a topic often discussed in economic texts. However, few of those texts point out the implicit assumptions that the transition from the monopoly to competition imposes no loss of efficiency. In other words, the sum of the cost structures of the resulting competitive firms is equal to the total cost structure of the original monopoly firm. A condition that is doubtful if existing economies of scale or scope drove the creation of the monopoly in the first instance. Even if the conservation of efficiency were true, note the competitive outcome would leave the monopoly earning excess

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594		necessary to eliminate the excess profits and compel the regulated monopoly to expand
595		its investments to achieve that output level. In short, regulators would become de-facto
596		managers of the utility, a practice the Commission has consistently rejected
597 598	Q:	DOES THIS MEAN THAT THE THEORY OF COMPETITIVE PRICING HAS LITTLE OR NO ROLE TO PLAY IN REGULATION?
599	A:	No, just the opposite. I believe a thorough understanding of the theory of competitive
600		pricing and its implications is essential to regulation. Professor Bonbright puts it this
601		way:
602		Lest the reader of this chapter gain the impression
603		that it is intended to deny the relevance of any tests of
604		reasonable rates derived from the theory or the behavior
605		of competitive prices, let me state my conviction that no
606		such conclusion would be warranted. On the contrary, a
607		study of price behavior both under conditions of
608		competition and under actual conditions of mixed
609		competition is essential to the development of sound
610		principles of utility rate control. Not only that: any good
611		program of public utility rate making must go a certain
612		distance in accepting competitive-price principles as
613		guides to monopoly pricing. <sup>49</sup>

profits. Thus, the six issues discussed by Professor Bonbright are not independent of one another but must be addressed simultaneously.

<sup>49</sup> James C. Bonbright, pp. 106-107.

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- 614 I think it would behoove the Commission to explore the "distance in accepting
- 615 competitive pricing principles" that it is willing to travel; or the degree to which
- 616 regulation in Utah should serve as a substitute for competition.

#### 617 Q: DO YOU HAVE FURTHER COMMENTS ON DR. MALKO'S REBUTTAL TESTIMONY?

A: No. The basis of Dr. Malko's remaining arguments is the erroneous assertion that the

- 619 Division is recommending that the Commission allow and approve for recovery
- 620 imprudent costs. I have already explained that this is not the Division's position and,
- 621 therefore, there is no need to address individually the remaining points in Dr. Malko's
- 622 rebuttal testimony. Silence on these issues does not mean I necessarily agree with all
- 623 the underlying principles asserted by Dr Malko in these arguments.

### 624 **Q: DO YOU HAVE ANY FINAL COMMENTS OR RECOMMENDATIONS?**

Yes. Dr. Malko refers to the drawbacks of rate of return regulation. Likewise, before, 625 A: 626 pursuing a form of regulation that is a close imitative substitute for competition, the Commission should thoroughly understand the consequences and limitations of such an 627 approach. Given the apparent confusion or controversy over the role and implications 628 629 of economic theory in regulation, I recommend that the Commission consider issuing a 630 white paper on the matter. In preparation of the paper, the Commission may want to consider holding a series of interactive technical conferences lead by an independent 631 third party. 632

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- 633 Q: DOES THAT CONCLUDE YOUR SURREBUTTAL TESTIMONY?
- 634 A: Yes, it does.