

**BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH**

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<b>IN THE MATTER OF THE APPLICATION OF</b>	)	
<b>ROCKY MOUNTAIN POWER FOR AUTHORITY</b>	)	<b>DOCKET NO. 13-035-184</b>
<b>TO INCREASE ITS RETAIL ELECTRIC UTILITY</b>	)	
<b>SERVICE RATES IN UTAH AND FOR APPROVAL</b>	)	
<b>OF ITS PROPOSED ELECTRIC SERVICE</b>	)	
<b>SCHEDULES AND ELECTRIC SERVICE</b>	)	<b>DPU Exhibit 10.0 DIR-COS</b>
<b>REGULATIONS</b>	)	

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**COST OF SERVICE**

**DIRECT TESTIMONY OF LEE SMITH**

**ON BEHALF OF**

**THE UTAH DIVISION OF PUBLIC UTILITIES**

**May 22, 2014**

1    **I.    INTRODUCTION**

2    **Q.    What is your name and business address?**

3    A.    My name is Lee Smith, and I work for La Capra Associates, One Washington Mall, Boston,  
4        MA 02108.

5  
6    **Q.    On whose behalf are you testifying in this proceeding?**

7    A.    I am testifying on behalf of the Utah Division of Public Utilities (Division).

8  
9    **Q.    Please describe your background and experience.**

10   A.    I am an Independent Consultant, working with La Capra Associates. I worked for this  
11        energy planning and regulatory economics firm for 28 years, and have been consulting  
12        independently for 2 years. I have prepared testimony on gas and electric rates, rate  
13        adjustors, cost allocation and other issues regarding more than 40 utilities in 21 states and  
14        Nova Scotia, and before the Federal Energy Regulatory Commission. Prior to my  
15        employment at La Capra Associates, I was Director of Rates and Research, in charge of  
16        gas, electric, and water rates, at the Massachusetts Department of Public Utilities. Prior  
17        to that period, I taught economics at the college level. My resume is attached as DPU  
18        Exhibit 10.1 DIR-COS.

19

20 **Q. Please describe your educational background.**

21 A. I have a bachelor's degree with honors in International Relations and Economics from  
22 Brown University. I have completed all requirements except the dissertation for a Ph.D.  
23 in economics from Tufts University.

24

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

26 A. I have been retained by the Division to review and analyze the cost allocation and rate  
27 design presented by Rocky Mountain Power ("RMP" or "the Company"). I have  
28 developed a cost allocation study which reflects the Division's revenue requirements as a  
29 basis for determining class revenue requirements. The Division's rate objectives and  
30 class revenue requirements then become the basis for rate designs, which will be  
31 presented by Division witnesses Dr. Artie Powell and Mr. Stan Faryniarz.

32

33 **Q. Please summarize your testimony.**

34 A. I have reviewed and analyzed all aspects of the Company's allocation of costs to  
35 customer classes and proposed class rates. I address a number of other issues related to  
36 the Company's allocated cost of service study. I have reflected the Division's revenue  
37 requirement adjustments in the cost of service model and reflected my recommended  
38 allocation changes in that model.

39 I have found that:

- 40
- There are allocations in the JAM study that should be revisited, but this
- 41 proceeding is not the correct venue;

- 42           • There are a number of problems in the intrastate allocated cost of service study;  
43           and  
44           • Correcting the problems that I have identified results in changing class  
45           deficiencies, although the changes are relatively minor.

46

47 **Q. There appear to be a number of issues with regard to the estimation of class costs.**

48 **Have you presented tabular information regarding these various issues?**

49 A. Yes. I present the results of the cost of service modifications that I recommend based on  
50 the Division's revenue requirement, and based on an alternative revenue requirement that  
51 is higher than the Division's but lower than the Company's. These results are then used  
52 by Mr. Faryniarz in his testimony on rate spread and rate design.

53

54 **Q. What have you reviewed with regard to RMP's allocation of costs?**

55 A. I have compared the allocations between states and the allocations of the same cost  
56 categories within Utah classes. I have also critically reviewed the Utah allocation  
57 methodologies. There are a number of aspects of the Company's intrastate allocation  
58 which warrant discussion and in some cases correction.

59

60 **II. INTERSTATE OR JAM ALLOCATIONS**

61 **Q. Have you reviewed the interstate allocation process?**

62 A. Yes. I have not identified significant problems, but there are a number of aspects of the  
63 Company's intrastate allocation which warrant discussion.

64

65 **Q. Has the Company made changes to its model that resolve some issues that were raised**  
66 **in the last GRC, regarding consistency between the JURISDICTIONAL**  
67 **ALLOCATION MODEL (“JAM”) and its COS model?**

68 A. Yes. It has modified the following, to reflect the DPU’s 2012 recommendations:

- 69 • The relationship between cash working capital, interest expense, and income taxes;
- 70 • How state income taxes are determined; and
- 71 • The use of the income to revenue multiplier.

72

73 **Q. Are the allocators that RMP has used in its Utah class cost of service study the same**  
74 **as those used in its JAM?**

75 A. Yes.

76

77 **Q. Why should most JAM and Utah allocators be similar if not identical?**

78 A. The JAM allocators for generation and transmission determine the Utah jurisdiction’s  
79 generation and transmission costs. However, if conditions have changed such that some  
80 JAM allocators no longer reflect cost causation at the multistate level they should be  
81 modified. I understand that this would require agreement among all of the states, and that  
82 this may be difficult to achieve.

83

84 **Q. Do you believe all of the JAM allocations correctly reflect cost causation?**

85 A. The answer is neither a simple yes or no. The current JAM allocations determine how  
86 PacifiCorp, RMP's parent, allocates or assigns costs to RMP. However, the JAM  
87 allocators do not always reflect the underlying cost causation. In other words, the  
88 interstate allocation is not always a good representation of cost incurrence. However,  
89 they result directly in the creation of costs which RMP customers must pay.

90

91 **Q. What JAM allocations do you think do not reflect cost causation accurately?**

92 A. The allocation of generation and transmission costs and the allocation of some  
93 Administrative and General ("A&G") costs. The JAM allocation of production and  
94 transmission plant and non-fuel expenses is based on treating 75 percent as demand-  
95 related and 25 as percent energy-related. The demand-related portion is then allocated  
96 using 12-monthly peaks coincident with the Company's total system firm peak  
97  
98 The 75/25 classification method which has been used may have been reasonable based on  
99 the mix of generation plant in the generation portfolio that existed in 1984 when the  
100 method was introduced. Since that time there have been big changes in the generation  
101 portfolio. If the portfolio at that time had reflected renewable mandates and the amount  
102 of renewable energy that now exists, the treatment of generation and transmission would  
103 probably have been different, as wind generation is built in order to supply cheap energy  
104 and/or to meet state requirements for renewable power. Wind gets little capacity credit, as  
105 it is not guaranteed to be available at the times capacity is needed to meet load and  
106 reserve requirements. Treating 75% of its capital costs as demand related is not  
reasonable. Since there is a higher portion of wind in the portfolio than when the method

107 was adopted, I would expect a reexamination of cost causation would change the existing  
108 classification and allocation among the states. Different state Renewable Portfolio  
109 Standards should also be considered in this allocation.

110 Another problematic allocation is that of most A&G costs. I believe that most A&G  
111 accounts are most closely related to labor costs, or to expenses, which are usually close to  
112 labor costs. A good example is Administrative and Supervisory labor – the more labor  
113 serving a given state, the more supervision required. When asked in DPU 17.9 how  
114 functionalizing (and allocating) on a plant allocator reflected cost causation the Company  
115 responded that “[m]ost A&G expenses are functionalized on the “PTD” functionalization  
116 factor. A&G expenses that are functionalized on the “LABOR” functionalization factor  
117 include employee pensions & benefits, duplicate charges, and miscellaneous general  
118 expenses which are treated as labor-related costs.” The costs that are currently allocated  
119 in the COS on plant include all A&G accounts except for the three listed in the responses  
120 above, including the very large account for Administrative and Supervisory labor,  
121 described above. In Docket No. 97-035-01 the Company proposed switching to a plant  
122 allocator for most A&G accounts. The proposal was rejected because allocating within  
123 Utah on this basis would be inconsistent with the JAM allocation.

124

125 **Q. Are you recommending in this case that the allocation of generation and**  
126 **transmission and of A&G expense be changed in this case?**

127 A. No. I am recommending that these allocations should be reexamined and modified at the  
128 interstate level, which will make it possible to modify the allocation of A&G expenses at

129 the intrastate level in the next rate case. I understand that the existing agreement will  
130 expire at the end of 2015 leaving adequate time to review existing allocators, especially  
131 these.

132

133 **III. INTRASTATE ALLOCATIONS**

134 **Q. Are there any problems with RMP's allocation of distribution plant in the Utah cost**  
135 **of service study?**

136 A. Yes, I believe there are. There are problems with the allocation of substations, of  
137 secondary distribution lines, and of service plant.

138

139 **A. Allocation of Substations**

140 **Q. Please discuss how RMP allocates substations and primary distribution lines.**

141 A. Substations and primary lines are allocated on monthly Coincident Peaks ("CPs"). The  
142 CPs of all customer classes that take service at distribution level are weighted. The  
143 monthly weights are based on the percent of total substations that peak in each month.  
144 The resulting weight for July, for instance, is 36.73%, while the January weight is 3.06%.  
145 This method has been approved in past cases.

146 Distribution CPs are weighted based on the concept that substations are sized to meet  
147 relatively local peaks, and these peaks are not all coincident with the system peak. While  
148 the system as a whole peaks in July, there are geographic areas that peak in different  
149 months, and the Company must size substations to meet the peaks in these months. As a  
150 result, a single CP alone is not the only cost driver for distribution substations. Some of



151 the investment in substations is driven by the load in the month in which the substation  
152 peaks.

153 While it is reasonable to weight the CPs rather than using a single CP, the weighting  
154 should reflect the cost of substations constructed to meet different peaks. Weighting by  
155 the number of substations that peak in a month does not necessarily reflect the cost of  
156 substations built to meet peaks in different months. The number of substations does not  
157 reflect the relative cost or the peak load served by those substations

158

159 **Q. Do you recommend a modification to the substation allocator, F20?**

160 A. Yes. It would be most accurate if monthly peak loads were weighted by the cost of  
161 substations peaking in the month. However, determining a more accurate weighting by  
162 the net book value of substations would be very data intensive. I have chosen as an  
163 alternative to weight months by the sum of the peak loads on those substations that peak  
164 in the month.

165

166 **Q. Please contrast this to the Company's weighting method.**

167 A. The peak loads of the substations that peak in July are 43.03% of the peaks of all  
168 substations. In January, 3.06% of substations peaked – but the load of these substations  
169 equaled 1.07% of total peak loads. The number of substations peaking in this month  
170 overstated the size of these substations relative to the whole. These are not large  
171 differences, but for classes with significant load in July or January they will make a  
172 difference – and will improve accuracy of the cost allocation process.

173

174 **Q. Are primary lines always allocated in the same manner as substations?**

175 A. No, they are not. Primary lines are sized to meet the peak on the lines, which is not  
176 exactly the same as the coincident peak load on the system. In situations where particular  
177 primary lines tend to serve one class of customer, the maximum class load whenever it  
178 occurs (which I and most others label the Noncoincident Peak (NCP) load) determines  
179 the capacity needed on the line. For this reason, primary lines are frequently allocated on  
180 NCP loads at the primary service level.

181 The major determinant of primary line costs will be Coincident Peak loads when most  
182 classes tend to peak at the same time, or when most primary lines serve a mix of  
183 customer classes that matches the system mix.

184

185 **Q. Did you consider allocating primary lines on your definition of Noncoincident Peak**  
186 **load, and what was your conclusion?**

187 A. Yes. I reviewed RMP's NCP data. There was an immediate problem, however, in that it  
188 would have allocated primary lines to street lighting as if some lines had been sized to  
189 meet the nighttime street lighting plant. This is generally not the case, as streetlights are  
190 spread geographically throughout the territory. I also found that except for street lighting  
191 the relationship between NCPs and CPs in RMP territory was very close. If coincident  
192 peaks were substituted for the street lighting classes, the resulting allocator would be  
193 extremely close to the substation allocator. It appears that using the same allocator for

194 substations and primary plant is appropriate in RMP's territory because there is very  
195 close correspondence between class noncoincident peaks and class coincident peaks.

196

197 **B. Allocation of service plant**

198 Service plant is allocated to customer classes (the classes that RMP treats as secondary  
199 classes) as if each customer requires an individual service, the cost of which varies by  
200 class. It is clear many residential customers – those who live in multifamily housing - do  
201 not have individual services. It is likely that the Company's approach overallocates  
202 service plant to residential customers as a class. The cost of service study shows the net  
203 book value of service plant to be \$172 million and the service plant related revenue  
204 requirement to be \$30 million, so this is a significant cost category.

205

206 **Q. Has the allocation of service plant been an issue in prior cases, and how has RMP**  
207 **responded to this issue?**

208 A. Yes, it has been an issue in a number of prior cases. The OCS attempted to "correct" this  
209 in Docket No. 10-035-124, and in Docket No. 11-035-200 both the OCS and the Division  
210 recommended that allocation of service plant be modified to reflect the impact of  
211 multifamily housing.

212 Prior to this case the Company did some research on multifamily housing, which I will  
213 refer to below. However, it has not followed through with more complete data and a  
214 more accurate allocation.

215

216 **Q. How have parties attempted to make such a modification in past rate cases?**

217 A. This effort has generally focused on estimating how many residential customers live in  
218 multifamily housing, and reducing the allocation to the residential class based on services  
219 that are not needed because of multifamily housing

220

221 **Q. What has been the Company's reaction to attempts to modify the service plant  
222 allocation?**

223 A. The Company has described the complications in response to OCS 11.28. It notes that  
224 the assumption of one service drop per multi-family housing complex is not correct, that  
225 a service drop connecting more than one customer would cost more than a standard  
226 residential service, and in some cases other customer types also share service drops.

227

228 **Q. Do we have data in this proceeding that can be used to estimate a more accurate  
229 service plant allocator?**

230 A. Yes. I will describe this data below.

231 1) The response to OCS 11.28-2 provided the results the Company gathered by  
232 attempting to identify the types of buildings serving Classes 1, 6, and 23. There are  
233 153,280 residential customers identified as located in multifamily units. These will  
234 range from two family units to apartment buildings with more than fifty customers.  
235 Table 1 shows the percentage of customers in each of these classes that have been  
236 identified as being in multiunit buildings.

237 2) The response to OCS 11.23 provides detailed data on transformers. I have analyzed  
238 this information to review numbers of customers in Schedules 1, 6, and 23 who are  
239 served by transformers which serve more than one customer. This data does not directly  
240 identify all customers who may be sharing services, since many transformers will serve  
241 more than one customer, but customers who share services will also share transformers.

242 3) Another complication is that services for multiunit buildings may be more expensive  
243 than the typical service for single units. Data on the cost of services for different classes  
244 is contained in Attachment OCS 11.21. The data shows that the cost of larger services  
245 does not increase proportionally with the size of the service

246 **Table 1**

247 **Percentage of customers in multiunit buildings<sup>1</sup>**

Dwelling Code Description	Rate Class			Total
	Residential	Schedule 6	Schedule 23	
Apartment/Condo Complex	150,399	1	18	150,418
Apartment/Condo Master Metered	1,373	5	18	1,396
Apartment/Condo Seasonal Use	1,504	-	-	1,504
Multiple units (non-residential only)	-	1,870	18,875	20,745
Residential Common Areas	4	140	8,687	8,831
Total Multi-Unit Customers	153,280	2,016	27,598	182,894
% of Rate Class Total	21.9%	13.7%	34.9%	23.1%

248

249 **Q. How have you used this data to estimate a service plant allocator?**

250 A. First, I estimated the number of customers in classes 1, 23, and 6 who were in  
251 multifamily or multicommercial units by applying the ratio from the table above to cost

<sup>1</sup> Attachment to RMP's Response to OCS Data Request 11.28-2.

252 of service data on the number of customers. This was necessary because the multiunit  
253 building data only covered 95% of total customers. Second I estimated the average  
254 number of customers who were sharing services in each class. The assumptions were as  
255 follows: residential, 8; Schedule 23, 4; Schedule 6, 2. These estimates are derived from  
256 analysis of shared transformers. Third, I used this data to calculate the cost of the  
257 services for the multiunit customers. Finally, I calculated total service costs for the class  
258 as a basis for a new services allocator. The table below shows the modified allocator  
259 compared to the Company allocator. The full calculation is contained in Exhibit DIR-  
260 COS 8.2.

261 **Table 2**

262 **Modified Service Allocator**

	FACTOR 70									
	Res Sch 1	Gen Large Dist. Sch 6	Gen. +1 MW Sch 8	St. Lightin g Sch. 7,11,12	Gen. Trans. Sch 9	Irr. Sch 10	TS Sch 15	OL Sch 15	Gen. Small Dist. Sch 23	Total
RMP Original	79.96 %	7.67 %	0.69 %	0.00%	0.00 %	0.00 %	0.29 %	0.06 %	11.32 %	100 %
LCA Recommended	79.56 %	8.74 %	0.83 %	0.00%	0.00 %	0.00 %	0.35 %	0.07 %	10.45 %	100 %

263

264

265 **Q. What do you recommend regarding the allocation of service plant?**

266 A. I recommend using this alternative allocator set out above in Table 2. While it utilizes a  
267 number of assumptions, I believe that they are fairly conservative assumptions, and that  
268 even better data is likely to establish that the allocation to the residential class in  
269 particular should be less. I think it is appropriate to account for the impact of shared

270 services, even if it requires using the less than perfect data upon which I have had to rely  
271 I strongly recommend that the Company provide more complete data and analysis of this  
272 issue in its next filing.

273

274 **C. Designation of Primary/Secondary Distribution Plant and Customers**

275 **Q. Do the questions of whether customers are secondary or primary and how much of**  
276 **distribution plant is primary have much impact on cost allocation?**

277 A. Yes, it has a large impact. Primary plant serves all customers (except possibly for some  
278 large sub-transmission level customers). It must be sized to meet the maximum  
279 coincident load on it and is therefore allocated to all distribution customers. Secondary  
280 plant serves only customers who take service at secondary voltage level. Almost all  
281 residential and small general service customers take service at secondary voltage. Larger  
282 general service customers often take service at primary voltage, and therefore should not  
283 be allocated any secondary plant. RMP allocates secondary plant only to residential  
284 customers and Schedule 23, and also assigns an amount of secondary distribution plant to  
285 the street lighting classes.

286

287 **Q. Do you think that secondary plant should be allocated to other classes?**

288 A. Yes. Some Schedule 6 customers are served at secondary voltage and may use secondary  
289 distribution plant. For instance, in a strip mall, when transformers reduce power to the  
290 secondary level, either there will be services directly to the secondary meter or there may  
291 be secondary lines that bring power to several meters. The record does not support the

292 non-allocation of secondary plant to Schedule 6. The Company justifies not allocating  
293 any secondary plant by saying “Schedule 6 customers do not use secondary lines and are  
294 served from a single service drop.” (DPU 49.5 d.) However, the data provided in  
295 response to OCS 11.28 clearly indicates that 13.7% of Schedule 6 customers are in shared  
296 or connected facilities. Thus a single transformer will step down power to secondary.  
297 There may be a single service to the building, but the power must then be delivered to the  
298 two or more customers by means of secondary conductor. While in some configurations  
299 this conductor may be internal and owned by the customer, in others there will be  
300 secondary lines to different customers sharing a building. Moreover, the failure to treat  
301 any Schedule 6 as secondary is contradictory to the principle espoused in the response to  
302 DPU 17.1 part c: “Allocations of secondary lines only occur where transformers are  
303 shared.” Transformer data clearly indicates that many Schedule 6 customers share  
304 transformers, yet secondary plant has not been allocated to them. Additional evidence  
305 that some Schedule 6 customers are secondary is that the data that adjusts from sales data  
306 to input data labels Schedule 6 not as “primary” but as “combined”, and the line losses  
307 applied are higher than if the class were entirely primary.

308

309 **Q. How do you recommend allocating some secondary plant to Schedule 6?**

310 A. It is possible that some multi-unit customers may not be utilizing RMP’s secondary plant  
311 because the relevant plant is within customer premises and owned by customers. In the  
312 interest of being conservative, I am assuming that of the 13.7% of Schedule 6 customers  
313 that are in some type of multi-units, half of these require the use of some secondary plant



314 to connect to common services. Reflecting some use of secondary plant by Schedule 6  
315 in the cost allocation will result in allocating more costs to Schedule 6 and less to  
316 Schedules 1 and 23. The comparison of the Company's secondary distribution allocator  
317 and mine is shown below

318 **Table 3**

	FACTOR 22			
	Res Sch 1	Gen Large Dist. Sch 6	Gen. Small Dist. Sch 23	Total
RMP Original	88.86%	0.00%	11.14%	100%
LCA Recommended	86.70%	2.43%	10.87%	100%

319

320 **Q. How does Rocky Mountain Power determine how much of its distribution lines are**  
321 **primary and how much are secondary?**

322 A. According to the response to DPU 17.1 part d "Distribution split percentages for FERC  
323 Accounts 364-367 are based on data extracted from Company mainframe computer  
324 records and represent the five-year average value of materials issued from Company  
325 warehouses for the state of Utah." The average primary plant percentage is about 69%  
326 for these accounts.

327

328 **Q. Are you recommending any change at this time to RMP's primary/secondary split**  
329 **of plant?**

330 A. I am not. While the data is less than complete, the resulting percentage of primary plant  
331 is similar to the proportions that I have seen from other utilities.

332

333 **D. Results of Revised Revenue Requirements and Allocations**

334 **Q. Have you calculated class cost of service results based on the Division's**  
335 **recommended revenue requirement before modifying the Company's allocators?**

336 A. Yes I have. The summary of these results is shown in the table below.

337 **Table 4**

Schedule No.	Description	Annual Revenue	Total Cost of Service	Increase (Decrease) to = ROR	Percentage Change from Current Revenues
1	Residential	661,595,338	683,847,009	22,251,671	3.36%
6	General Service - Large	520,951,038	478,820,658	(42,130,380)	-8.09%
8	General Service - Over 1 MW	162,435,073	159,870,327	(2,564,746)	-1.58%
7,11,12	Street & Area Lighting	12,123,902	10,388,706	(1,735,196)	-14.31%
9	General Service - High Voltage	274,874,422	296,551,052	21,676,630	7.89%
10	Irrigation	13,948,796	14,760,935	812,139	5.82%
15	Traffic Signals	682,028	620,210	(61,818)	-9.06%
15	Outdoor Lighting	1,234,602	907,563	(327,039)	-26.49%
23	General Service - Small	137,738,935	130,987,486	(6,751,449)	-4.90%
SpC	Customer 1	27,176,952	31,199,110	4,022,158	14.80%
SpC	Customer 2	35,062,890	34,784,992	(277,898)	-0.79%
	Total Utah Jurisdiction	1,847,823,976	1,842,738,049	(5,085,927)	-0.28%

338  
339 **Q. Are there any other changes to the COS Study other than those made by the**  
340 **Division reflected in your results?**

341 A. Yes. Schedule 15 revenues have been adjusted to correct an error in the Company's COS  
342 model. This is discussed in more detail in Division witness Mr. Faryniarz's testimony.

343  
344 **Q. Please summarize the changes that you have recommended and made to the cost**  
345 **allocation study.**

346 A. My recommended changes are:

- 347           • Weight the substation/primary plant allocator according to peak loads of various  
348           substations;  
349           • Modify the allocation of service plant; and  
350           • Modify the secondary plant allocator to allocate some secondary plant to  
351           Schedule 6.

352

353 **Q. Have you analyzed the impact of your various allocation adjustments to the cost of**  
354 **service recommended by the Division?**

355 A. Yes. The class rates of return and deficiencies resulting from these adjustments are  
356 shown in the following table.

357  
358

**Table 5**

359

**Class Allocations of Division Revenue Requirements**

Schedule No.	Description	Annual Revenue	Total Cost of Service	Increase (Decrease) to = ROR	Percentage Change from Current Revenues
1	Residential	661,595,338	682,976,484	21,381,146	3.23%
6	General Service – Large	520,951,038	479,887,586	(41,063,452)	-7.88%
8	General Service – Over 1 MW	162,435,073	159,831,397	(2,603,676)	-1.60%
7,11,12	Street & Area Lighting	12,123,902	10,341,236	(1,782,666)	-14.70%
9	General Service – High Voltage	274,874,422	296,550,807	21,676,385	7.89%
10	Irrigation	13,948,796	14,890,298	941,502	6.75%
15	Traffic Signals	682,028	638,531	(43,497)	-6.38%
15	Outdoor Lighting	1,234,602	900,662	(333,940)	-27.05%
23	General Service – Small	137,738,935	130,737,001	(7,001,934)	-5.08%
SpC	Customer 1	27,176,952	31,199,085	4,022,133	14.80%
SpC	Customer 2	35,062,890	34,784,964	(277,926)	-0.79%
	Total Utah Jurisdiction	1,847,823,976	1,842,738,049	(5,085,927)	-0.28%

360

361 **Q. What are the results of these various modifications to the allocation of costs?**

362 A. Utilizing the Division revenue requirements, these modifications as a whole result in  
363 relatively small differences to class rates of return and deficiencies. I recommend that  
364 the Commission approve of these methodological changes. Although the combined  
365 changes do not have a large impact in this case, they may have more impact in the future  
366 as class characteristics change and as better data is provided. I further recommend that  
367 we reflect these modifications in revenue requirements. It also shows that the range of  
368 deficiencies is not very large. Mr. Faryniarz will refer to these results in his testimony.  
369 Since he recommends setting class revenue requirements equal to the cost of service,  
370 subject to some mitigation, it is most appropriate to use the best available cost of service.

371

372 **Q. Have you analyzed what class results would be under any other assumptions about**  
373 **revenue requirements?**

374 A. Yes. I also calculated results based on a revenue requirement that would result from all  
375 of the Division's adjustments except with a return on equity of 9.8%. These results are  
376 shown in the table below.

377

378

**Table 6**

379

**Class Results with Intermediate Revenue Requirement**

Schedule No.	Description	Annual Revenue	Total Cost of Service	Increase (Decrease) to = ROR	Percentage Change from Current Revenues
1	Residential	661,595,338	693,523,302	31,927,964	4.83%
6	General Service - Large	520,951,038	487,031,191	(33,919,847)	-6.51%
8	General Service - Over 1 MW	162,435,073	162,132,576	(302,497)	-0.19%
7,11,12	Street & Area Lighting	12,123,902	10,456,458	(1,667,444)	-13.75%
9	General Service - High Voltage	274,874,422	300,377,559	25,503,137	9.28%
10	Irrigation	13,948,796	15,118,895	1,170,099	8.39%
15	Traffic Signals	682,028	646,949	(35,079)	-5.14%
15	Outdoor Lighting	1,234,602	911,037	(323,565)	-26.21%
23	General Service - Small	137,738,935	132,723,338	(5,015,597)	-3.64%
SpC	Customer 1	27,176,952	31,601,703	4,424,751	16.28%
SpC	Customer 2	35,062,890	35,178,915	116,025	0.33%
	<b>Total Utah Jurisdiction</b>	<b>1,847,823,976</b>	<b>1,869,701,923</b>	<b>21,877,947</b>	<b>1.18%</b>

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382 **Q. Are you or the Division supporting such a revenue requirement?**

383 A. No, we are not. I have calculated and presented these results so that Mr. Faryniarz can  
384 analyze what a reasonable rate spread would be if the Company were granted a higher  
385 revenue requirement than that recommended by the Division. In the absence of such an  
386 analysis of an intermediate position, the parties would have little guidance regarding class  
387 revenue targets if the full Division position is not accepted.

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389 **Q. Does this conclude your testimony?**

390 A. Yes, it does.