



1 **I. INTRODUCTION**

2 **Q. Please state your name and occupation?**

3 A. My name is Abdinasir Abdulle. I am employed by the Utah Division of Public Utilities  
4 (“Division”) as a Technical Consultant.

5 **Q. What is your business address?**

6 A. Heber M. Wells Office Building, 160 East 300 South, Salt Lake City, Utah, 84114.

7 **Q. On whose behalf are you testifying?**

8 A. The Division.

9 **Q. What is the purpose of your Phase II direct testimony?**

10 A. I will present the Division’s rate design proposal for the residential and non-  
11 residential classes in this case. Specifically, for the residential classes, Schedules 1, 2,  
12 and 3, the Division is proposing a pilot decoupling mechanism to decouple Rocky  
13 Mountain Power’s (RMP) recovery of its fixed distribution costs from its energy sales. I  
14 will also present the Division's proposed residential rate design that will encourage  
15 energy efficiency. For the non-residential classes, the Division is proposing no change in  
16 the rate design except that the rates are calibrated to collect the Commission ordered  
17 revenue increase.

18 **Q. Do your rate design recommendations incorporate the rate increases ordered in the**  
19 **Commission’s order issued on February 22, 2010?**

20 A. Yes. The rate designs I am recommending result in increases of 2.2% for all  
21 major rate classes except for Schedules 9 and 10 (3.52%).

22 **II. PROPOSED DECOUPLING MECHANISM**

23 **Q. Would you please explain how the mechanics of the proposed revenue decoupling**  
24 **pilot work?**

25 A. The Division's proposed residential decoupling tariff or mechanism is designed  
26 similarly to that of Questar's Conservation Enabling Tariff (CET). The purpose of this  
27 mechanism is to ensure that only those distribution fixed costs approved by the  
28 Commission based on the cost of service results are collected. For the residential  
29 classes, Rocky Mountain Power will calculate the difference between the actual monthly  
30 revenues the Company collects to cover its distribution fixed costs and the Commission  
31 allowed monthly revenues. That difference will go into a balancing account. Every six  
32 months the balance in this account will then be amortized using the kWh of the next 12  
33 months. This monthly revenue difference is produced by consumption levels deviating  
34 from the consumption levels that went into the construction of the proposed base rates.  
35 This could be due to a change in the monthly customer counts or average usage per  
36 customer due to weather, conservation and efficiency, or other factors. The essence of  
37 this approach is to recapture the revenues that would have been lost if either or both the  
38 average consumption per customer or the customer count differed from the levels that  
39 were used in establishing the residential rates. This mechanism also has the effect of  
40 refunding to customers over collections that can result from unusually high consumption,  
41 such as extreme or prolonged heat waves. The mechanics of this approach are explained

42 below. The indicated spreadsheet cell and column notations refer to DPU Exhibit 15.3  
43 Phase II.

44 Total fixed distribution cost (FDC) will be determined through this and  
45 succeeding rate cases. The Commission-determined cost of service results will serve as  
46 the basis for determining FDC. The allowed annual residential revenue per customer to  
47 collect the residential FDC is calculated by dividing the test period residential fixed  
48 distribution costs by the test period average residential customer count (cell D39, DPU  
49 Exhibit 15.3 Phase II<sup>1</sup>). A portion of this allowed revenue per customer will be collected  
50 with the current customer charge (\$3.00 per month) and the rest would be collected  
51 volumetrically (allowed annual revenue per customer minus the annual revenue collected  
52 with the customer charge) (E39). This allowed revenue per customer to be collected  
53 volumetrically is then spread across the months (Column G) in proportion to each  
54 month's share of the revenue per customer (Column F) to obtain the monthly allowed  
55 revenue per customer. Similarly, the test year average customer count (C39) is spread  
56 across the months (Column I) using the proportion of each month's average customer  
57 count to the average annual customer count (Column H). Multiplying the monthly  
58 revenue per customer by the test period monthly number of customers and adding the  
59 product across the twelve months of the year, yields the allowed test period revenues to  
60 collect the residential fixed costs (J 26).

61 Suppose that a true-up exercise is conducted 6 months after the decoupling is  
62 implemented. The monthly actual revenues during these 6 months (Column M), obtained

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<sup>1</sup> Only the cell numbers or columns are referenced going forward.

63 by multiplying the actual kWhs (Column K) by the fixed cost recovery rates per kWh  
64 (I39), are compared to the monthly allowed revenue (Column J) calculated by  
65 multiplying the monthly allowed revenue per customer (Column G) by the actual  
66 monthly customer count (Column I). The difference (Column J minus Column L) is put  
67 into the balancing account (Column M). A positive difference in any month means that  
68 the Company has under-collected its allowed revenue for that month. Summing these  
69 differences (Column M) across the six months yields the total amount of money the  
70 Company has under/over collected. In this example, the Company needs to collect an  
71 under recovered amount of \$3,896,191 (M27).

72 The \$3,896,191 will be amortized over the next 12 months. The amortization rate  
73 is calculated by dividing the \$3,896,191 by the total kWh of the next 12 months (E43).  
74 The revenues that the Company will collect over the next 12 months to cover its fixed  
75 costs (Column O) will be obtained by multiplying the monthly kWh by the sum of  
76 allowed fixed cost recovery rate per kWh (I39) and the per kWh amortization rate (E44).

77 **Q. Does the above described revenue decoupling mechanism imply that the allowed**  
78 **revenue collected to recover the distribution fixed cost will change between rate**  
79 **cases only by changes in the number of customers?**

80 A. Yes. The allowed revenue to recover the distribution fixed cost is a function of  
81 the number of customers and not the usage per customer. Thus, the allowed revenue will  
82 increase or decrease only with an increase or decrease in the number of customers.

83                    However, the amount of money that is accruing into the balancing account is not a  
84 function of only the allowed revenue, but also the actual revenue, which is a function of  
85 the sales volume. Therefore, the amount of money that is accruing into the balancing  
86 account will change both with the number of customers and the sales volume.

87 **Q. How would the balancing account be managed?**

88 A.                    As I mentioned earlier, I am proposing that the balancing account be true-up  
89 once every six months. Dr. Powell explains the Division's reasons for choosing  
90 semiannual true-ups in this balancing account. Any amount of money that is accrued in  
91 the account will be amortized over the forecasted kWh for the next 12 months. That is,  
92 the dollars in the balancing account at the end of the sixth month will be distributed  
93 evenly over the total kWh of the next 12 months. The resulting \$/kWh would be added to  
94 the fixed cost recovery per customer to obtain the per kWh charge for the next six  
95 months. This will result in the volumetric rates changing slightly up or down once every  
96 six months. However, to avoid any serious swings in rates during the pilot program, the  
97 Division proposes a 2.5% cap on the amount of additional charge or refund.  
98 Additionally, the Division proposes a 5% cap on the total amount that can be accrued to  
99 the balancing account in any given 12 months. These caps, which are the same as  
100 currently used for Questar's conservation enabling tariff, are explained in detail herein  
101 and in Dr. Powell's testimony.

102 **Q. Will the adoption of the proposed revenue decoupling mechanism have implications**  
103 **on the Company's willingness to minimize the costs associated with the provision of**  
104 **the desired service quality and safety standards?**

105 A. Yes. The Company wants to maximize its profit. With the revenues fixed, the  
106 only way the Company could increase its profit is by minimizing its cost. Therefore, the  
107 Company will have the same incentive to minimize costs with or without revenue  
108 decoupling. Dr. Powell will discuss in his testimony more about the incentives  
109 associated with the proposed mechanism.

110 **Q. The proposed revenue decoupling mechanism described above protects RMP from**  
111 **revenue losses resulting from reduced energy sales due to energy efficiency**  
112 **programs. Are there any other causes of reduced sales besides energy efficiency?**

113 A. Yes. Besides energy efficiency, sales volume could be adversely affected by cool  
114 summer or warm winter temperatures, current inclining rates, and macroeconomic  
115 fluctuations, just to name some. RMP currently does not have a weather normalization  
116 adjustment to customer's energy usage to protect them from revenue losses due to  
117 changes in the weather conditions. This puts RMP at risk of not collecting its distribution  
118 fixed costs. Similarly, if the customers respond to the price signals given by the inclining  
119 block rates, the Company may risk not collecting its fixed costs. This proposed revenue  
120 decoupling is designed to protect the Company from these types of revenue risks thereby  
121 removing the disincentives it faces to promote inclining block rates that promote energy  
122 efficiency.

123 **Q. What would be the expected rate impact of the proposed decoupling mechanism?**

124 A. Though there are some who would claim that the decoupling would result in more  
125 frequent and significant rate increases, there is no evidence to suggest that. A study on

126 the rate impact of gas and electric utility decoupling conducted by Ms. Lesh<sup>2</sup> indicates  
127 that “decoupling adjustments are both refunds to customers as well as charges and tend to  
128 be small.” Lesh found that the magnitude of the adjustment is plus or minus \$2 per  
129 month for electric customers.

130 The bill impact of the proposed decoupling mechanism can best be viewed by  
131 investigating what the bill impact would have been had the proposed decoupling  
132 mechanism been adopted in the last rate case. DPU Exhibit 15.4 Phase II shows that a  
133 true-up conducted after six months of implementation of the mechanism would result in a  
134 refund to customers of 0.009 cents per kWh. The true-up that would be conducted six  
135 months after the first would result in customer surcharge of 0.0113 cents per kWh.  
136 Therefore, the rate impact of the proposed decoupling mechanism could go either way  
137 (surcharge or refund to customers) and could be expected to be relatively small.  
138 However, as a precaution to any possible detrimental impact to either the customers or  
139 the Company, the Division proposes that this mechanism be implemented as a pilot  
140 project, have caps on balancing fund accruals and amortization amounts, and be closely  
141 monitored.

142 **Q. Can you explain the caps you are proposing?**

143 A. The Division is proposing a cap on the amount of money that could be accrued in  
144 the deferred account and cap on the money that could be amortized in any given 12-  
145 month period corresponding to the semi-annual true-ups. In any 12-month period, the

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<sup>2</sup> Lesh P. M., 2009. Rate Impact and Key design Elements of Gas and Electric Utility Decoupling: A Comprehensive Review. The Electricity Journal. Vol.22. Issue 8. Pp. 65-71.



146 Company may not accrue in the deferred account more than 5% of the authorized annual  
147 DFC. The Company may also not amortize DFC revenue accrual more than 2.5% of the  
148 authorized total DFC revenue for the previous 12-month period at the time of the  
149 application. The purpose of these caps is to avoid extreme swings in the rates. The  
150 Residential Distribution Fixed Cost Tariff, DPU Exhibit 15.9 Phase II, explains how the  
151 proposed pilot project would work in more detail.

152 **III. RESIDENTIAL RATE DESIGN**

153 **Q. What are the Division's Rate Design objectives?**

154 A. Based on the state code, the Division's rate design objectives are for the rates to  
155 be stable, simple, understandable and acceptable to the public, economically efficient, to  
156 promote fair apportionment of costs among individual customers within each customer  
157 class with no undue discrimination, and to protect against wasteful use of utility services  
158 (UCA 54-4a-6.)

159 **Q. What are the Division's guiding principles to achieve these objectives?**

160 A. To balance these objectives, Lowell Alt, a former Division employee, developed  
161 guiding principles consistent with the Division's statutory obligation. These guiding  
162 principles, with some modifications necessitated by the changes in operating conditions,  
163 are as follows<sup>3</sup>:

164 1) *Simple* – Simple rates are likely to be accepted by customers. Tariff descriptions  
165 should be clear, unambiguous and understandable by the public.

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<sup>3</sup> Docket No. 97-035-01, Direct Testimony of Lowell E. Alt, Jr. pages 24-25.

- 166 2) *Correct price signal* – if rates are correctly based on costs, customers can make the  
167 right decision about energy use including energy conservation decisions. A  
168 complicated rate that is not understood cannot be a good price signal. Some customer  
169 classes are better able to understand complicated rates than others.
- 170 3) *Multi-part rates* – three part rates with customer, energy, and demand components  
171 will more fairly apportion the costs among individual customers than one or two part  
172 rates. However, a demand component for the residential class is normally not  
173 recommended since the added cost of demand meters usually outweighs the benefit of  
174 better cost apportionment.
- 175 4) *Gradualism* – to promote rate stability and to minimize impacts on individual  
176 customers, rate changes should be done gradually.
- 177 5) *Marginal and embedded costs* – regulated rates must recover the embedded revenue  
178 requirement of a rate schedule. Marginal and average unit embedded costs should be  
179 reviewed and taken into account when setting prices.
- 180 6) *Customer charges* – costs that generally increase with the number of customers, but  
181 are not caused by each customer should be excluded from the customer charge and  
182 instead be included within the commodity portion of rates. This customer charge  
183 position was stated by the PSC in its Order in Mountain Fuel Case No. 82-057-15.

184 **Q. These principles were developed over ten years ago. Are there any new principles**  
185 **or points of emphasis in the Division's principle?**

186 A. Yes. While not a wholly new principle, in recent years the Division has come to  
187 place a greater emphasis on energy efficiency and conservation as important policy goals.

188 This is especially the case in the current economic and policy environment that Utah  
189 faces.

190 This rate case is largely driven by the need to build new generating facilities and  
191 to account for increasing fuel prices. In general terms, there are many conservation and  
192 efficiency measures that customers can undertake that can mitigate (if not eliminate)  
193 these issues and at a low overall cost. Demand reduction is a cost-effective strategy in an  
194 environment of rapidly rising energy costs.

195 The Division's increased emphasis on efficiency and conservation also follows  
196 the increased recognition, both within Utah and elsewhere, that energy use imposes costs  
197 upon society generally that are not recovered in customers' rates. While these costs  
198 (emissions, for instance) are difficult to quantify at this time, they suggest that an  
199 emphasis on cost-effective demand reduction has even greater benefits than those that can  
200 be accounted for in first-order economic costs.

201 The Division's proposed decoupling mechanism along with the rate designs for  
202 residential customers will help achieve this energy efficiency goal while at the same time  
203 minimizing the Company's risk of not recovering its DFC.

204 **Q. What are the Division's recommendations in relation to Schedule 1 Rate Design?**

205 A. If the Commission adopts the above proposed decoupling mechanism and the rate  
206 spread proposed by the Division in phase I of this rate case, the Division would  
207 recommend keeping the monthly residential customer charge at its current level of \$3,  
208 eliminating the minimum bill, increasing the tail block rate to encourage high usage

209 customers to use energy more efficiently, and increasing the first and second block rates  
210 and winter rate slightly. The Division has alternative proposals if the Commission rejects  
211 the Division's proposed decoupling mechanism or rate spread or both. These alternative  
212 rate design proposals will be discussed later in my testimony.

213 **Q. What are the Division's justifications for keeping the monthly residential customer**  
214 **charge at its current level, \$3?**

215 A. Though the monthly residential customer charge calculated per the Commission  
216 approved methodology is more than \$3 and the Division recommended, in the most  
217 recent rate cases, that the monthly customer charge be set at its cost based level, the  
218 Division believes that with the adoption of the proposed decoupling mechanism, the  
219 Company will no longer face with the risk of not being able to collect its fixed  
220 distribution costs. Hence, the need to increase the customer charge is no longer as urgent  
221 if the decoupling mechanism is adopted.

222 The monthly residential customer charge calculated per the Commission approved  
223 methodology is \$3.83 (DPU Exhibit 15.2 Phase II). Raising the customer charge to this  
224 level will leave not enough money for the non-basic charges to effectively send the  
225 appropriate price signals to induce customers to use energy more efficiently.  
226 Furthermore, the adoption of the decoupling mechanism will mitigate the Company's risk  
227 of not being able to collect its DFC, therefore, the Division does not believe that raising  
228 the customer charge is needed at this time. For this case, raising the tail block rate is a  
229 higher priority.

230 **Q. How did the Division calculate the monthly residential customer charge?**

231 A. DPU Exhibit 15.2 Phase II shows the Division's calculated monthly residential  
232 customer charge. This calculation is based on the Division's guiding principles stated  
233 earlier and the Commission's accepted methodology for calculating the customer charge.  
234 The Division's calculations included only those items that the Commission has  
235 previously recognized as appropriate to be included in a customer charge.

236 **Q. What specifically has the Commission recognized as belonging in the customer**  
237 **charge?**

238 A. In its Rate Design and Spread Issues Report and Order in Case No. 84-035-01,  
239 dated on July 1, 1985, the Commission stated the following:

240 *5. The Commission has previously made the finding (Mountain Fuel Supply Company*  
241 *Case No. 82-057-15) that a customer charge results in the payment by each customer*  
242 *of those costs that he imposed upon the system, which are independent of actual*  
243 *energy consumption during a given month. A customer of UP&L, who uses no*  
244 *electricity in a given month, must nonetheless have his meter read, be issued a billing*  
245 *statement and have his meter maintained in good operating conditions. Those*  
246 *activities represent costs to UP&L. We find that a customer charge, as opposed to a*  
247 *minimum billing, allows such costs to be recovered reasonably and properly.*

248 One needs to recognize that the list in the above Commission statement is not  
249 comprehensive and the Commission did not intend to make it comprehensive of all fixed  
250 costs. Rather, the Commission's intent was to include all individual-customer-related  
251 costs into the customer charge. For example, the above Commission statement does not

252 include the meter, service drop, and their respective depreciations which all rightfully are  
253 costs that the customer imposes on the system regardless of energy consumption.

254 **Q. Rocky Mountain Power proposed to increase the monthly customer charge from**  
255 **\$3.00 to \$5.55. Do you agree with its proposal?**

256 A. No. Rocky Mountain Power calculated the customer charge by dividing the total  
257 revenue requirement (meters, services, poles and conductors, transformers, and retail  
258 fixed costs) associated with the distribution fixed cost by the average customer count.  
259 The customer charge calculated this way was \$23.64. However, RMP proposed a  
260 customer charge of \$5.55. This increase from \$3.00 to \$5.55 represents virtually all of  
261 their proposed revenue increase for the residential classes.

262 The method the Company used to calculate the customer charge is contrary to the  
263 Commission approved methodology and over estimated the customer charge. The  
264 Company proposed customer charge is approximately 45% higher than the one calculated  
265 using the Commission approved methodology (\$3.83) (DPU Exhibit 15.2 Phase II).  
266 Therefore, the Division believes that the Company proposed customer charge is  
267 inappropriate and will result in that approximately 97% of the revenue increase to be  
268 collected with a customer charge. Pushing more revenue into the fixed portion of a  
269 customer's bill would not promote energy efficiency.

270 **Q. Rocky Mountain Power is also proposing no increase in any of the residential**  
271 **volumetric rates. Would you comment on that proposal?**

272 A. Yes. This proposal does not recognize the need for customers to use energy  
273 efficiently. Utah has a high summer peak that is growing and is expensive to serve. The  
274 rate design must reflect this simple fact. A rate design that increases the tail block  
275 considerably would induce customers to use energy more efficiently.

276 **Q. Would you like to propose a rate design for the residential customers?**

277 A. Yes. The Division proposes a rate design that decouples the revenues associated  
278 with the distribution fixed cost from the energy sales. The Division also proposes that the  
279 customer charge be kept unchanged from its current level of \$3, the minimum charge be  
280 eliminated, the summer first and second block rates and the winter block rate be increase  
281 by 1% from their respective current levels, and the tail block be increased from its  
282 current level of 11.1216 cents to 12.3908 cents (an 11.4% increase) to a more appropriate  
283 price signal to the customers with usage levels higher than 1,000 kWh. DPU Exhibit 15.5  
284 Phase II summarizes the Division's proposed residential rate design.

285 **Q. What is the bill impact of your proposed residential rate design?**

286 A. The bill impact of the Division's proposed rate design is reported in DPU Exhibit  
287 15.6 Phase II. This exhibit shows that the bill impact for the Division's proposed  
288 summer rates sends the appropriate price signals to the high usage customers while  
289 having a minimal impact on low usage customers. Customers with a usage level of up to  
290 1,000 kWh will see an increase of less than a dollar in their summer monthly bills.  
291 Customers with usage levels between 1,000 kWh to 2,000 kWh will see a substantial  
292 increase in their summer monthly bills ranging from \$2.15 per month for those with a  
293 usage level of 1,100 kWh to \$33.26 per month for those using 2,000 kWh.

294           The Exhibit also shows that the proposed rate design will raise the monthly winter  
295 bills by less than \$1 and less than \$2 for low and high usage customers respectively.  
296 Hence, the proposed rate design sends the appropriate price signals and therefore  
297 promotes energy efficiency during the high-cost summer months while removing the  
298 Company's disincentives towards energy efficiency.

299 **Q. Your proposed rate design is based on the premise that the Commission will adopt**  
300 **the Division's proposed decoupling mechanism. Do you have an alternative rate**  
301 **design proposal if the Commission rejects your proposed decoupling mechanism?**

302 A.           Yes. The purpose of my proposed decoupling mechanism was to promote energy  
303 efficiency by increasing the tail block without subjecting the Company to the risk of not  
304 being able to collect its fixed costs. In the case where the Commission chooses not to  
305 adopt the proposed decoupling mechanism, the Division proposes an alternative rate  
306 design that would still encourage energy efficiency while reducing the Company's  
307 vulnerability to the risk of under-collecting its distribution fixed cost. The specific  
308 alternative rate design proposal is to increase the customer charge by approximately half  
309 way between its current level of \$3.0 and the cost based level calculated based on the  
310 Commission approved methodology, \$3.83 rounded to the nearest cent and to eliminate  
311 the minimum charge. Specifically, the Division proposes the customer charge to be set at  
312 \$3.40. The Division also proposes an increase in the summer first and second block rates  
313 and the winter rate by 1% each, and the summer third block by approximately 8.5%.  
314 Such a design would collect most of the distribution fixed cost on a customer charge  
315 minimizing the Company's risk of not being able to collect its distribution fixed cost. It



316 also sends the appropriate price signal to induce all customers regardless of their usage  
317 level to use energy efficiently. This is specially so for high usage customers. DPU  
318 Exhibit 15.7 Phase II summarizes the Division's proposed residential rate design.

319 **Q. What is the bill impact of your proposed alternative residential rate design?**

320 A. The bill impact of the Division's proposed alternative rate design is reported in  
321 DPU Exhibit 15.8 Phase II. This exhibit shows that the bill impact for the Division's  
322 proposed summer rates is minimal for low energy users and substantial for high energy  
323 user. Customers with a usage level up to 1,000 kWh will see bill increases ranging from  
324 \$0.33, for those who use 100 kWh to 1.1 for those who use 1,000 kWh. Customers with  
325 usage levels between 1,000 kWh to 2,000 kWh will see substantial increase in their  
326 summer monthly bills ranging from \$2.07 for those with a usage level of 1,200 kWh to  
327 \$25.25 per month for those using 2,000 kWh.

328 The Exhibit also shows that the proposed rate design has minimal bill impact  
329 during winter, less than \$1 and \$2 for low and high usage customers, respectively.  
330 Hence, the proposed rate design, while having minimal bill impact during winter, will  
331 promote energy efficiency during summer when we are more concerned about the  
332 increasing peak. It will also reduce the Company's risk in relation to collecting enough  
333 revenue to cover its distribution fixed cost.

334 **Q. What was the Division's general approach to the remaining rate classes?**

335 A. The Division was in general agreement with the Company's proposals for the  
336 remaining rate classes. However, since the Company's original request was premised on  
337 approximately \$66 million rate increase and the Commission has ordered instead a \$34

338 million increase, we are proposing to decrease by one half the customer charge increases  
339 that the Company proposed for the major non-residential classes. We also are not  
340 contesting the basic structures of these other classes in this case.

341 **Q. What rate design would you propose for Schedule 6 customers?**

342 A. The Division's proposal is summarized in DPU Exhibit 15.10 Phase II. In short, the  
343 Division proposes that the customer charge be increased from \$27 to \$36 and to increase  
344 the demand and energy charges 1.84% both during the summer and winter months.

345 During the last few rate cases, the Division proposed a bigger increase in the  
346 energy charge than in demand charge. With that proposal, the Division was trying to  
347 undo the disproportionate high payments by those low load factor customers that was  
348 imposed during the 04-035-42 rate case. Because of the heterogeneity of the customers  
349 in this class, it is difficult to design rates that would encourage energy efficiency and  
350 conservation. Increasing the demand or energy charge more proportionately than the  
351 other would disproportionately hurt the low or high load factor customers. The Division,  
352 though it believes that increasing the energy charge relative to the demand charge may  
353 promote energy efficiency, recommends that further study be conducted to objectively  
354 determine how this heterogeneous class be handled.

355 **Q. What is the bill impact of your proposal?**

356 A. DPU Exhibit 15.15 Phase II shows that the percent bill increase is higher for those  
357 customers with low load factor than those with high load factor even though the energy  
358 and demand charges were increased equally. Increasing the energy charge more than the

359 demand charge would impact more on the high load factor customers. This shows the  
360 need for further study as to how to manage and design rates for this class.

361 **Q. What rate design would you propose for Schedule 8?**

362 A. The Division's proposal is summarized in DPU Exhibits 15.11 Phase II. For this  
363 Schedule, the Division proposes that the customer charge be increased from its current  
364 level of \$27 to \$41. The Division also proposes that to collect the remainder of the  
365 revenue increase, the energy and demand charges be increased 2.16% each. Because  
366 the current basic rate designs are seen as just and reasonable by the Commission, the  
367 Division proposes no changes to these rate design structures.

368 **Q. What are the bill impacts of your proposal for Schedules 8?**

369 A. DPU Exhibits 15.16 Phase II shows the bill impacts of the Division's proposed  
370 rate design for Schedule 8. These exhibits show that the bill impact is relative the same  
371 for all customers regardless of the demand and usage levels. The specific bill impacts is  
372 approximately 2.1%.

373 **Q. What rate design would you propose for Schedule 9?**

374 A. The Division's proposal is summarized in DPU Exhibits 15.11 Phase II. The Division  
375 proposes no change in the basic rate structure for this class except scaling the rates up to  
376 collect the Commission approved revenue increase. The Commission considered the  
377 current rate structure as just and reasonable. Therefore, the Division proposes the  
378 customer charge be increased from its current level of \$183 to \$192 and to increase the  
379 demand and energy charges by 3.52% each.

380 **Q. What are the bill impacts of your proposal for Schedule 9?**

381 A. DPU Exhibits 15.17 Phase II shows the bill impacts of the Division's proposed  
382 rate design for Schedule 9. These exhibits show that the bill impact is relative the same  
383 for all customers regardless of the demand and usage levels. The specific bill impact is  
384 approximately 3.5%.

385 **Q. What rate design would you propose for Schedule 10?**

386 A. The Division's proposal is summarized in DPU Exhibits 15.18 Phase II. For this  
387 Schedule, the Division proposes no change in the rate design except adjusting the current  
388 rates to collect the Commission approved revenue increase. This will amount to  
389 increasing both the demand and energy charges by 4.23%. The also proposes that annual  
390 customer service charge-secondary and monthly customer service charge be increased  
391 from their respective current levels of \$29 and \$11, respectively, to \$30 and \$11.5,  
392 respectively.

393 **Q. What are the bill impacts of your proposal for Schedules 10?**

394 A. DPU Exhibits 15.18 Phase II shows the bill impacts of the Division's proposed  
395 rate design for Schedule 10. These exhibits show that the bill impact is the same for all  
396 customers regardless of the demand and usage levels. The specific bill impact is  
397 approximately 4.2%.

398 **Q. What rate design would you propose for Schedule 23?**

399 A. The Division's proposal is summarized in DPU Exhibits 15.19 Phase II. For this  
400 Schedule, the Division proposes that the customer charge be increased from its current

401 level of \$6 to \$7. The Division also proposes that to collect the remainder of the revenue  
402 increase, the energy and demand charges be scaled up 1.39%. Because the current  
403 basic rate designs are seen as just and reasonable by the Commission, the Division  
404 proposes no changes to these rate design structures.

405 **Q. What are the bill impacts of your proposal for Schedule 23?**

406 DPU Exhibit 15.19 Phase II shows the bill impact of the Division's proposed rate  
407 design for schedule 23. This exhibit shows that within the low load sizes, the percentage  
408 bill impact decreases with the energy consumption level. This should not be taken as that  
409 dollar increase in the bill gets smaller as energy consumption increase. Rather, it  
410 increases. For higher load sizes, the bill impact remains relatively the same with an  
411 increase in consumption level.

412 **Q. Does this conclude your Phase II direct testimony?**

413 A. Yes, it does.