BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

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In the Matter of the Application of Rocky Mountain Power for Authority to Increase Its Retail Electric Service Rates in Utah and for Approval of Its Proposed Electric Service Schedules and Electric Utility Service Schedules and Electric Service Regulations DOCKET NO. 09-035-23 DPU Exhibit No. 15.0SR Phase II

Surrebuttal Testimony and Exhibits of Dr. Abdinasir Abdulle

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

Surrebuttal Testimony of

Abdinasir Abdulle, PhD

April 7, 2010

Docket No. 09-035-23 DPU Exhibit 15.0SR Phase II Abdinasir Abdulle April 7, 2010

1 I. INTRODUCTION

2	Q.	Please state your name, occupation, and business address.
3	A.	My name is Dr. Abdinasir Abdulle. I am employed by the Utah Division of Public
4		Utilities ("Division") as a Technical Consultant. My business address is Heber M. Wells
5		Office Building, 160 East 300 South, Salt Lake City, Utah, 84114.
6	Q.	On whose behalf are you testifying?
7	A.	The Division.
8	Q.	What is the purpose of your rebuttal testimony?
9	A.	In my rebuttal testimony I will respond to the rebuttal testimonies of Ms. Wolf of Salt
10		Lake Community Action Program (SLCAP), Ms. Beck and Mr. Gimble of Office of
11		Consumer Services (OCS), Mr. Griffith of Rocky Mountain Power (RMP or the
12		Company), and Mr. Ralph Cavanagh on behalf of Utah Clean Energy (UCE) and
13		Southwestern Energy Efficiency Project (SWEEP).
14	II.	RESPONSE TO MS. WOLF AND MS. BECK'S REBUTTAL TESTIMONY
15	Q.	Would you please briefly describe the rebuttal testimonies of Ms. Wolf and Ms.
16		Beck?
17	A.	Yes. In their rebuttal testimonies, both Ms. Wolf and Ms. Beck recommended that the
18		Commission reject the decoupling mechanism proposed by the Division for a number of
19		reasons.
20		1. The timing of the proposal is inappropriate;

21 2. The proposal discriminates against the residential class;

22	3. The Division failed to demonstrate the need for a decoupling mechanism; and
23	4. The proposed decoupling mechanism negatively affects the low income customers.
24	Q. Are you going to address the issues listed above?
25	A. I will address items 2, 3, and 4 of the above list. Dr. Powell will address item 1.
26	Q. Please comment on the issue that the proposed decoupling mechanism singles out the
27	residential class.
28	A. Both Ms. Wolf and Ms. Beck interpreted the Division's proposed decoupling mechanism for
29	the residential class as singling out one rate class and therefore discriminatory. Neither of
30	them explained why it is not appropriate to introduce a decoupling mechanism for the
31	residential class as a pilot project.
32	The proposed decoupling mechanism is a pilot project. The Division chose to apply it to the
33	residential class because of its specific characteristics. The residential class is the only class
34	among the major classes where there are no separate energy and demand charges. That is,
35	for the residential class, both the fixed costs and the variable costs are collected
36	volumetrically. In addition, it is the only class where inclining block rates are applied.
37	These characteristics make the residential class ideal for a decoupling pilot project.
38	Q. Please comment on the issue that the need for decoupling has not been demonstrated.
39	A. Both Ms. Wolf and Ms. Beck indicated that it has not been demonstrated that there has been
40	a residential revenue shortfall warranting a decoupling proposal. The Division understands

41 this claim as suggesting that a revenue shortfall is both a necessary and sufficient condition 42 for decoupling. The Division does not believe that revenue shortfall is a necessary and 43 sufficient condition for decoupling, nor did it base its proposal upon the need to rectify past 44 revenue shortfalls. The Division did not claim that the residential class is earning below its 45 cost of service. Rather, the Division believes that because fixed costs are collected with 46 volumetric rates, the Company would face an increased risk of future under-collection (and a 47 symmetrical risk of over-collection) if high tail block rates were instituted without also 48 implementing decoupling. This was the Division's motivation to propose a decoupling 49 mechanism.

50 Usage levels vary with the rate per kWh. If the rate per kWh is increased and the customers 51 respond by lowering their energy usage, the Company may not be able to collect all of its 52 distribution fixed costs. In other words, since the distribution fixed costs are collected 53 volumetrically, the Company faces the risk under-collecting its fixed distribution cost. This 54 poses problem for any attempt to increase the tail block to promote energy efficiency.

55 That revenue volatility would increase, in the absence of decoupling, if more revenue is 56 collected from tail block rates in which usage levels are more variable than in the first two 57 blocks. The Division believes that, with current tail block rates, revenue volatility is not a 58 major problem. However, it recognizes that, in the future, the Company could under (or 59 over) earn with steeply inverted rates. Our decoupling proposal is based on a view toward 60 the future, not past performance, of the Company. It therefore should go without saying that, 61 if the Commission chooses not to implement a significant increase to the tail blocks rates, the 62 Division would not support decoupling, at this time.

63	Q. Would you comment on the issue that the proposed decoupling mechanism negatively
64	affects the low income customers?

- 65 A. Yes. The proposed decoupling mechanism involves an initial proposed rate design and
- 66 subsequent true-ups performed semiannually. The bill impact analysis of the Division's
- 67 proposed rate design indicates that the percentage change in the bills is higher for the high
- 68 usage customers as compared to low usage customers.
- 69 DPU Exhibit 15.4 filed in my direct testimony indicates that the first semiannual true-up will
- result in a rate per kWh reduction of \$0.000097 and the second semi-annual true-up will

result in an increase in the kWh rate of \$0.000113. This exhibit showed that the rate impact

- of the proposed decoupling mechanism is expected to be small and could result in either an
- 73 increase or in a decrease. The following Table shows the proposed rates and rates after the
- 74 true-ups.

	Proposed	After 1 st True-Up	After 2 nd True-Up	Overall
<u>Summer</u>				
Basic	\$3.00	\$3.00	\$3.00	\$3.00
kWh1	\$0.076045	\$0.075948	\$0.076061	\$0.076061
kWh2	\$0.09031	\$0.090213	\$0.090326	\$0.090326
kWh3	\$0.12391	\$0.123256	\$0.123369	\$0.123924
Minimum	\$0.00	\$0.00	\$0.00	\$0.00
HELP	\$0.23	\$0.23	\$0.23	\$0.23
DSM	4.82%	4.82%	4.82%	4.82%
Winter				
Basic	\$3.00	\$3.00	\$3.00	\$3.00
kWh	\$0.078789	\$0.078692	\$0.078805	\$0.078805
Minimum	\$0.00	\$0.00	\$0.00	\$0.00
HELP	\$0.23	\$0.23	\$0.23	\$0.23
DSM	4.82%	4.82%	4.82%	4.82%

DPU Exhibit 15.1SR Phase II shows the bill impact of the rate decrease resulting from the
first true-up. This exhibit shows that during the summer months, low usage customers
enjoyed a larger percentage bill reduction than high usage customers, whereas during winter
months, the opposite was true. However, in both cases the percentage bill reduction was very
small - about one tenth of a percent.

Similarly, DPU 15.2SR Phase II, shows bill impact of the rate increase resulting from the
second true-up. The exhibit shows that, throughout the year, the percent bill increase is
lower for the low usage customers compared to high usage customers. This clearly indicates
that the low-income customers will not be disproportionately impacted by the proposed
decoupling mechanism.

86 Another reason that Ms. Wolf is incorrect on this point is that decoupling true-ups will have 87 the effect of dampening swings in the total bills that customers pay. This is because the true-88 ups will seek to return rates to collecting only the allowed level of revenue for fixed 89 distribution costs. As an example, if a customer's usage increases drastically in a summer 90 month due to high temperatures, they can also expect a drastic increase in their bills for that 91 month. Assuming, however, that all customers' usage went up in that month, the Company 92 would over-collect for that period and would need to refund that amount (assuming it was not 93 cancelled out by later low-usage months) in future rates. Thus, the amount that the customer 94 would pay next period will actually decrease and their own long term energy costs will be 95 more stable.

96 Q. Can you respond to the argument that Ms. Beck and Ms. Wolf both make that high 97 usage customers might cause bill increases for low usage customers?

98 A. Yes. It is true that true-up rate changes will be driven more by high usage than low usage 99 customers, for the simple reason that, with volumetric rates, high usage customers will 100 always have a disproportionate effect upon revenues, especially when inclining block rates 101 are in effect. However, it is important to remember that there will be both minor rate 102 increases and decreases with partially decoupled rates, not just increases as Ms. Beck and 103 Ms. Wolf suggest. Therefore, high usage customers could also drive refunds to low-usage 104 customers. It is also important to keep in mind the magnitude of monthly changes that are 105 likely to be seen. Referring again to my Exhibits 15.1SR and 15.2SR, one will see, for 106 instance, that a low usage customer (600 kWh per month) would see summer rate changes of 107 only 6 cents and 8 cents, respectively. A high usage customer (1,200 kWh), on the other 108 hand, would see changes of 13 and 15 cents, respectively.

109 Q. What is the bill impact of the rate design proposed by Ms. Wolf?

A. In her direct testimony, Ms. Wolf proposed to increase the minimum charge to \$6 and to spread the remaining revenue increase equally between the customer charge and an equal increase in the summer second and third blocks rates. She proposed no increase to the summer first block rate and the winter rate. The Division performed a bill impact analysis of this proposal (DPU Exhibit 15.3SR) and found that during the summer months, bills of the high usage customers increased by about 3% whereas the bills for the low usage customers increase for

117	the low usage customers is about 2% whereas that of the high usage customers is about less
118	than 1%. During the winter season where there is no volumetric rate increase, the low usage
119	customers will be disproportionately impacted by the proposed increase in customer charge.
120	Overall, Ms. Wolf's proposed rate design is neither low usage customer friendly, nor does it
121	promote energy efficiency, and therefore it should not be adopted.

Q. Ms. Wolf indicated that SLCAP opposes the full revenue decoupling proposed in this rate case. Would you comment on that?

A. Yes. On page 3, lines 31-33 of her rebuttal testimony, Ms. Wolf indicated that "...SLCAP is
opposed to the concept of full revenue decoupling and is particularly troubled by the proposal
in this rate case." The decoupling mechanism proposed by the Division is a partial
decoupling because it includes only distribution fixed costs and not any of the generation and
transmission fixed costs. Therefore, characterizing the Division's proposed decoupling

- 129 mechanism as full revenue decoupling is not correct.

Q. Both Ms. Wolf and Ms. Beck indicated that the proposed decoupling mechanism would not guarantee Company investment in DSM programs. Please comment on that.

- 132 A. On page 4, lines 71-73, of her rebuttal testimony, Ms. Wolf states that "A revenue
- decoupling mechanism by itself in no way guarantees that utility companies will invest in
- 134 effective energy efficient programs." Similarly, on page 9, lines 261-263, of her rebuttal
- 135 testimony, Ms. Beck states that "Thus, removing disincentives via a decoupling mechanism
- 136 does not appear necessary to ensure DSM continues to play a vital role in RMS's future
- 137 resources and business plans." Both of these statements imply that the Division proposed a

138	decoupling mechanism to promote DSM. Though the Division agrees that DSM could a
139	motive to implement a decoupling mechanism, the Division's primary motive was not to
140	promote DSM, though this can be seen as a secondary benefit. Rather, the Division's intent
141	in proposing a decoupling mechanism was to send a strong price signal to high usage
142	customers by increasing the tail block rate considerably without exposing the Company to
143	the risk of revenue volatility that would otherwise result from pushing more revenue into the
144	tail block rates.
145	One has to realize that relying on DSM programs is not the only way to promote
146	conservation and efficiency. There is no DSM program and there are no utility rebates now
140	conservation and efficiency. There is no DSW program and there are no utility redates now
147	available or proposed that incent turning off the lights or turning up the thermostat. These
148	types of activities could be incented using a price signal. This is why the Division has
149	proposed a decoupling mechanism along with a rate design that increases the tail block rate
150	significantly.
151	Q. On page 12 of her rebuttal testimony, Ms. Wolf makes the argument that low income
152	customers do not have the same ability to access energy efficiency improvements. Do
153	you agree with that argument?
154	A. Only Partially. We recognize that because of financial problems low income customers may
155	not have the same ability to access energy efficiency improvements. However, this is not the
156	issue. The issue is promoting energy conservation. Energy efficiency programs are not the

157 only thing available for customers to conserve energy. Simple change changes in behavior

such as turning off the lights and turning down the thermostat could also be used to conserveenergy. These could be achieved through sending appropriate price signals.

160 III. RESPONSE TO MR. GRIFFTH'S REBUTTAL TESTIMONY

161 **Q.** Mr. Griffith is concerned as to whether the Division's proposed decoupling mechanism

162 allows for changes in the number of customers over time. Please comment on this.

- 163 A. The Division understands Mr. Griffith's concern about the apparent contradiction between
- 164 the information contained in DPU Exhibit 15.3 (a spreadsheet outlining the Division's
- 165 proposed decoupling mechanism) and DPU Exhibit 15.9 (the Tariff language). In DPU
- 166 Exhibit 15.3, the actual monthly revenue was calculated by multiplying monthly kWh sales
- by the fixed cost recovery rate per kWh (monthly kWh sales x \$0.02706613). However, in
- 168 DPU Exhibit 15.9, the Division inadvertently used the following formula to calculate the
- actual monthly distribution fixed cost revenue

170 (Number of Customers Served x \$3.00) + (Monthly kWh Sales * \$0.02706613)

171 This is where the contradiction is. To solve this problem, RMP proposed and the Division

- agrees with removing the first term (Number of Customers Served x \$3.00) from the formula
- shown in the proposed tariff language. This would clarify that the Division's proposed
- decoupling mechanism allows for changes in the number of customers over time.

175 Q. Are you going to suggest some changes to your primary and alternative rate designs?

- 176 A. Yes. In developing the Division's proposed rate designs I inadvertently missed collection of
- 177 customer charges from those customers who would be paying the minimum charge had I not

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183	change as I compared to what I filed earlier.	
182	the alternative rate design (DPU Exhibit 15.8 – Corrected), resulting in a minimal bill im	pact
181	with decoupling (DPU Exhibit 15.5 – Corrected), and from 12.067 cents to 12.0069 cent	s for
180	that the tail block rate will change from 12.3908 cents to 12.3353 cents for the rate desig	n
179	billing determinant into my proposed rate design. The impact of such inclusion would b	e
178	proposed eliminating the minimum charges. I am correcting that mistake by including the	nis

Q. Mr. Griffith proposes a customer charge of \$4.45 per customer per month. Please comment on that.

A. As I indicated in my direct testimony, a customer charge this high would collect all of the
Commission approved revenue increase as customer charge. It is true that, if one were to
base rate design strictly upon cost causation principles, that increasing the customer charge
would be appropriate. However, rate design is governed by a variety of principles, as I
outlined in my direct testimony. Placing all of the required revenue increase in the customer
charge is contrary to the principle of promoting conservation and efficiency in the use of
resources.

Another reason that one could argue that a high customer charge is necessary is to protect the financial integrity of the utility. The Division's decoupling proposal accomplishes this. The Division does not see any need for the Company to increase the customer charge if the Commission adopts the decoupling proposal because the Company is no longer facing the risk of under-collecting its distribution fixed costs. The Company seems, by continuing to argue for a high customer charge even with decoupling, to be asking for protection from a

199	problem that would no longer exist. Adopting <u>both</u> decoupling and a large increase in the
200	customer charge is not warranted, and Mr. Griffith's proposal to have both is not reasonable.
201	The Company's proposed customer charge is higher than the customer charge calculated
202	using the Commission approved methodology and cannot be accepted. The Division
203	believes that, if the Commission chooses not to adopt the proposed decoupling mechanism,
204	the customer charge should be increased gradually toward a cost based level while still
205	allowing room to increase the tail block to send the appropriate price signal to the high usage
206	customers. Therefore, the Division recommends that the Commission not adopt the
207	Company's proposed customer charge, with or without decoupling.
208	In earlier rate cases, the Division supported raising the customer charge closer to its cost
209	based level. This was because the Division was balancing issues of intra-class equity,
210	compensating the Company for its fixed costs, and conservation of resources. With the
211	proposed decoupling mechanism, the Company's compensation for its fixed distribution
212	costs is no longer a concern and the Division's primary policy target is to encourage
213	conservation and energy efficiency. That is why the Division proposed a decoupling
214	mechanism along with a rate design that encourages energy efficiency.

215 IV. RESPONSE TO MR. GIMBLE'S REBUTTAL TESTIMONY

216 Q. In his rebuttal testimony, Mr. Gimble indicated that the Division's proposed rate design

217 lacks the necessary cost and price elasticity evidence. Would you comment on that?

A. As described more completely in Dr. Powell's testimony, an elasticity study targeted
specifically at Utah might be interesting for a few economists, but would not add
significantly to our understanding of price elasticity for electricity, which we know from the
existing literature to be relatively inelastic. Additional study on this topic would result only
in delay, not enlightenment.

223 It is true that the Division has proposed a rate design that is not based on a recent marginal 224 cost study. We have concurred with the Office that it would be useful for future rate cases 225 for the Company to conduct such a study. The purpose of such a study would be to better 226 identify cost causation within the residential classes. As we have repeatedly pointed out in 227 this case, however, the Division is balancing several policy objectives, of which cost 228 causation is one. Assuming all of the parties were to give cost causation primacy, however, 229 the absence of a current marginal cost study would argue for the status quo in all aspects of 230 rate design. That is, in the absence of better information, one would increase revenues 231 evenly from the customer charge and all rate blocks. No party to the residential rate design 232 discussion has made such a proposal. All have placed various emphases on preferred 233 portions of the residential rates absent any clearly cited tie to a recent marginal cost study. 234 To accept the Office's argument that the Division's proposal should be rejected because it is 235 not tied to such a study would be to reject all parties' proposals, including that of the Office. 236 The Division believes that maintaining the status quo is not appropriate, and that movement 237 toward a rate design that sends conservation price signals in the current energy climate is 238 more appropriate.

239 V. RESPONSE TO MR. CAVANAGH'S REBUTTAL TESTIMONY

240	Q. Please comment on Mr. Cavanagh's proposition that the decoupling mechanism should
241	adjust for customer count.
242	A. The Division's proposed decoupling mechanism allows for changes in the number of
243	customers over time, as I discussed above in addressing a similar concern from Mr. Griffith.
244	V. RESPONSE TO MR. TOWNSEND'S REBUTTAL TESTIMONY
245	Q. On Page 6, lines 4-6, Mr. Townsend states that inverted block rates for commercial and
246	industrial customers are entirely inappropriate and should not be considered. Please
247	comment on that.
248	A. The Division does not agree that it is necessary for the Commission to explicitly disavow
249	inverted block rates for industrial and commercial customers (essentially an advisory
250	opinion, since no one has proposed such rates in this rate case), but does agree that such rates
251	are not appropriate for industrial and large commercial customers. Mr. Townsend's
252	summary of the rationale for inverted block rates in the residential class is essentially correct,
253	as is his judgment that the lack of relative homogeneity among the industrial and large
254	commercial classes runs contrary to the rationale for inverted blocks. As a result, we have
255	not, and do not plan, for the foreseeable future, to propose them. One exception, however,
256	may be the small commercial class (Schedule 23), for which some degree of homogeneity is
257	more likely than for other classes. Though the Division has not at this time considered

- 258 whether to pursue such rate structures for this class, if the Commission chooses to make a
- statement such as that requested by Mr. Townsend, we would recommend that Schedule 23
- 260 not be included in such a statement at any time.

261	Q. On page 6, lines 20-22, Mr. Townsend indicates that he opposes the decoupling
262	mechanisms because they are typically unwarranted applications of single-issue rate
263	making. Please comment.
264	A. The Division disagrees with the assertion that decoupling mechanisms are single-issue rate
265	making. Since decoupling mechanisms do not change the total revenue requirement or total
266	cost of service for any class, it is not clear how one can argue that it is even a ratemaking
267	issue. Typically, ratemaking takes place in an environment where there is a need to increase
268	or decrease a revenue requirement. Decoupling adjusts and evens out collection of a revenue
269	requirement that results from a rate case, but does not change the overall amount that is to be
270	collected from a given class over time.
271	Nevertheless, decoupling mechanisms are explicitly authorized by Utah Code Ann. § 54-4-
272	4.1 (2) (c) and is thus exempt from the single-item ratemaking prohibition.
273	Q. Does this conclude your rate design surrebuttal testimony?

A. Yes, it does.