

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

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 Service
Regulations

Docket No. 13-035-184

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HEARING PROCEEDINGS (VOLUME I)  
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TAKEN AT: Public Service Commission
 Hearing Room 403
 160 East 300 South
 Salt Lake City, Utah

DATE: Monday, July 28, 2014

TIME: 9:00 a.m.

REPORTED BY: Scott M. Knight, RPR

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Hearing Proceedings (Volume I)

July 28, 2014

PROCEEDINGS

THE HEARING OFFICER: Good morning, ladies and gentlemen. This is the time and place duly noticed for a hearing in Docket No. 13-035-184, 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 service regulations, otherwise known as the Rocky Mountain Power general rate case.

My name is David Clark. To my left is Commission Chair Ron Allen. To his left is Commissioner Thad LeVar. We appreciate you being with us today. Let's begin by taking appearances of counsel. And, then, we'll address preliminary matters. A number of counsel present have already entered appearances, but for clarity in the record, let's have all counsel enter their appearances at this time. Thank you. We'll begin with the applicant.

MR. MOSCON: Matt Moscon and Yvonne Hogle on behalf of Rocky Mountain Power.

MR. JETTER: Justin Jetter representing the Utah Division of Public Utilities. And with me at the table is Dr. Artie Powell.

MR. COLEMAN: Brent Coleman with the Attorney

1 General's Office representing the Office of Consumer Services.
2 And with me at the table is Dan Gimble.

3 MS. HAYES: Sophie Hayes representing Utah
4 Clean Energy. And with me at the table is Mr. Rick Gilliam.

5 MR. PLENK: Good morning, Commissioners. My
6 name is Bruce Plenk, along with Thad Culley. We're
7 representing The Alliance for Solar Choice, otherwise known as
8 TASC.

9 MS. ROBERTS: Good morning. Casey Roberts for
10 the Sierra Club. And also here today on behalf of the Sierra
11 Club is Dan Dansie, our local counsel.

12 THE HEARING OFFICER: Thank you. Anyone else
13 who's present in the hearing room that is not--oh, pardon me.

14 MR. ROSSETTI: I'm Mike Rossetti of UCARE. And
15 I'm not an attorney. Thank you.

16 THE HEARING OFFICER: Thank you, Mr. Rossetti.
17 Anyone else physically present in the hearing
18 room?

19 I believe we have some participants on the
20 telephone. If any counsel are present who desire to enter their
21 appearance--present telephonically, that is, please do so now.

22 MR. BOEHM: This is Kurt Boehm for Kroger.

23 THE HEARING OFFICER: Thank you, Mr. Boehm.
24 Anyone else?

25 Thank you very much. We appreciate the Office of

1 Consumer Services working with the parties to develop an order
2 of witnesses. I assume you're all aware of that order. It's--it
3 was filed in the docket last week. Are there any questions
4 about that, or are there any other preliminary matters the parties
5 would like to raise?

6 Mr. Jetter.

7 MR. JETTER: One of the Division's witnesses,
8 Stan Faryniarz, is not here yet. He's had some flight delays.
9 And, so, we are hoping that he'll be here early afternoon. And
10 I've discussed it with all the parties. I think that we've all
11 accepted that if he's not here we may switch the order just a
12 little bit.

13 THE HEARING OFFICER: We won't hear from him
14 until he gets here. I promise you that.

15 MR. JETTER: Thank you.

16 MS. HAYES: Mr. Commissioner, also due to
17 traveling constraints on the going-home side, it turns out that
18 Mr. Gilliam will have to be completed with his testimony around
19 2:00 tomorrow afternoon. I just wanted to raise that in case it
20 becomes an issue.

21 THE HEARING OFFICER: Thank you. And when
22 you feel that it is, please let us know and we'll work through that
23 issue so that we can hear completely from Mr. Gilliam. Thank
24 you.

25 Other preliminary matters?

1 I should--

2 MS. ROBERTS: Commissioner, Sierra Club would
3 appreciate the opportunity to make an opening statement, if the
4 Commission would allow.

5 THE HEARING OFFICER: Other parties have a
6 view on that?

7 MR. MOSCON: Yeah. If I could respond, I
8 suppose, I guess I'd note, it's evident to the Commission
9 already, that that's quite unconventional in these proceedings.
10 We have entire rate cases without openings, much less a single
11 issue. I assume that's because, unlike a traditional litigation
12 format where you need to orient the tribunal to the testimony
13 that's about to be presented--in this case, the parties and the
14 commissioners have been receiving, reviewing the prefiled
15 testimony for weeks, if not months now. So, I guess I'm
16 wondering about the need for it.

17 I also wonder--the time--the effective use of time.
18 There are seven parties here. And even if seven parties limited
19 themselves to ten minutes, which, as you know, once you allow
20 an attorney to start talking, it is sometimes difficult to stop--that
21 would take up a significant amount of time. So, I suppose I
22 would say of the Company would resist or think that it's not
23 necessarily the best use of time and this proceeding with the
24 testimony put forward. If the Commission feels like it would be
25 useful, I suppose we'd like the opportunity to go afterwards,

1 because I'm not sure what we would be responding to because
2 we have not come prepared with a traditional formal opening
3 statement.

4 THE HEARING OFFICER: Any other parties desire
5 to address the request?

6 It is not our typical practice to do so. We have
7 reviewed the testimony extensively, but we're also very desirous
8 of assuring that every party has a full opportunity to present
9 information to us in as effective a way as they can. So, given
10 those considerations, what is your final view of your request?

11 MS. ROBERTS: Thank you, Commissioner. The
12 opening statement that I've prepared would be less than five
13 minutes. And although I'm aware the commissioners, I'm sure,
14 have been following testimony that's been filed, this case is
15 obviously one of tremendous interest to the public and there are
16 many divergent views. And I do feel that there is a role in this
17 case for an opening statement to frame the issues before the
18 Commission, especially as it's been narrowed down to just a
19 single issue out of the general rate case. My opening statement
20 is very focused.

21 MR. MOSCON: If I could just raise a question that
22 maybe I should have before: I guess the thing I'm trying to
23 consider is, in addition to these proceedings, we have the
24 witnesses themselves prepare a two to four-minute summary of
25 their testimony. And as I was hearing the counsel for the Sierra

1 Club talk, it caused me to think, Okay. Well, right there, it
2 seems like, again, that amounts to a repetition of what each
3 witness will put forward as a summary of their own testimony.

4 So, again, we'll be happy to comply with whatever
5 the Commission orders but do believe it would be a little
6 repetitious of not only the prefiled testimony but the summaries
7 that we're about to hear, as well.

8 THE HEARING OFFICER: Any other counsel wish
9 to speak?

10 We'll be in recess for about two minutes. Please
11 stay where you are. We'll be back quickly, I promise. Thank
12 you.

13 (Recess taken, 9:09-9:10 a.m.)

14 THE HEARING OFFICER: On the record.

15 I hope this is at least one promise fulfilled today.
16 We're back quickly.

17 We are going to receive opening statements. We'd
18 ask you to be brief, recognize that witnesses will be offering
19 summaries and that we've received all of the testimony, but if
20 counsel for Sierra Club would like to begin. And, then, we'll just
21 work our way around the table. Thank you.

22 MS. ROBERTS: Thank you very much.

23 Commissioners, my name is Casey Roberts. And I'm here today
24 on behalf of the Sierra Club and its over 3,000 Utah members
25 who are Rocky Mountain Power ratepayers. Sierra Club

1 appreciates the opportunity to participate in this hearing about a
2 matter that is of significant importance to our members and
3 supporters. Rocky Mountain Power is seeking to impose a
4 monthly fee on net metering customers, based on its estimate of
5 how much less electricity these customers purchase from the
6 Company. This fee is not justified for two reasons. First, the
7 fee is arbitrary. It applies to all net metering customers even if
8 they purchase enough electricity to contribute more than their
9 assigned share of fixed costs. On the other hand, it only applies
10 to net metering customers and not to other customers that
11 consume relatively little electricity, as well.

12 The Company has singled out for this fee one tiny
13 group of ratepayers that is similar to the rest of the residential
14 class in its consumption, without even considering the benefits
15 that net metering customers provide, which leads me to my
16 second point.

17 While the company has very roughly quantified the
18 costs that an average net metering customer supposedly shifts
19 to others, it has not provided any estimate of the benefits that
20 net metering customers provide to the grid. Generation from
21 customer-owned solar reduces the utility's need to generate or
22 purchase electricity during times of the day and year when it's
23 most expensive, prevents the utility from incurring costs related
24 to meeting capacity and ancillary service requirements, and, by
25 slowing load growth, defers the need for transmission and

1 distribution system expansion.

2 The Utah Legislature has called for an analysis of
3 costs and benefits of net metering prior to the imposition of any
4 charges, credits, or other changes in the rate structure. Sierra
5 Club and Utah Clean Energy have both submitted evidence as to
6 the benefits of distributed solar that shows, at a minimum, that
7 the benefits balance the costs. However, the record in this case
8 simply does not contain enough information to compare costs
9 and benefits in a way that fully informs this Commission
10 regarding the need for a net metering fee. Without a
11 comprehensive analysis, as called for by the Legislature, Rocky
12 Mountain Power cannot meet its burden of showing that the fee
13 it seeks to impose on net metering customers is supported by
14 cost causation principles, and this Commission cannot uphold
15 its obligation to impose just and reasonable rates.

16 There's no need to rush to impose a fee before this
17 important analysis can be done. While it is true that rooftop
18 solar is growing in Rocky Mountain Power's service area, the
19 amount of electricity generated by these systems is still
20 extremely small. There is time to do a proper cost-benefit
21 analysis that looks at the question from several different
22 perspectives, including that of the utility, all ratepayers, and the
23 State of Utah as a whole. That process will also allow further
24 stakeholder discussion as to what assumptions should be made
25 for a base case and what sensitivities will be evaluated. The

1 study recently completed for the Nevada utility commission is a
2 good example of the type of well-conceived and thoroughly
3 vetted study that this Commission should have the benefit of
4 before it takes this significant step of singling out net metering
5 customers for a new fixed charge.

6 I have one final point for the Commission's
7 consideration: Utah will be developing a plan over the next few
8 years to reduce the emission rate of greenhouse gases from its
9 electric generating sector. Carbon-free generation, like rooftop
10 solar, will become increasingly valuable in the coming decade.
11 And that value must be taken into account when assessing the
12 costs and benefits of net metering to Rocky Mountain Power's
13 ratepayers. Prematurely imposing a fee that will slow the
14 growth of rooftop solar just as those resources will become
15 more valuable would be counterproductive.

16 Thank you very much.

17 THE HEARING OFFICER: Other parties who desire
18 to make opening statements? It's not compulsory, but this is
19 your opportunity.

20 MR. CULLEY: Well, thank you, Commissioners. In
21 the interest of time, I think TASC's position in this case is well
22 established and would say we'd concur with the opening remarks
23 of the Sierra Club, so thank you.

24 THE HEARING OFFICER: Thank you.

25 MR. ROSSETTI: Commissioners?

1 THE HEARING OFFICER: Mr. Rossetti.

2 MR. ROSSETTI: Thank you. I did actually prepare
3 a short presentation, but not being experienced in these
4 matters, had anticipated being able to do that just before--what
5 do we call it, cross-examination?

6 THE HEARING OFFICER: And that would be
7 entirely appropriate and consistent with our practice.

8 MR. ROSSETTI: Okay.

9 THE HEARING OFFICER: So, you'll have that
10 opportunity then.

11 MR. ROSSETTI: Thank you.

12 THE HEARING OFFICER: Thanks, Mr. Rossetti.

13 Any others?

14 Mr. Moscon.

15 MR. MOSCON: Thank you. I suppose there was
16 some value despite my protestation to having the opening
17 statement of the Sierra Club, because it actually appears to me
18 how much has been misunderstood about the position that my
19 client is taking in this proceeding. So, if I might simply
20 introduce what my client is asking for and some of the reasons
21 why very briefly to clarify and to direct the Commission to where
22 in this case it will find that evidence.

23 One thing that is clear is that net metered
24 customers are connected to my client's grid. They need to be.
25 They rely on the grid. Solar, for instance, is simply not

1 available 24 hours a day, 7 days a week.

2 Maybe the easiest way that I can make this
3 point--and this is something that will come up in some of the
4 cross-examination that you'll hear today or maybe tomorrow--is
5 if the Commission were to envision a subdivision going in with
6 ten houses, and each of those houses in the backyard has a
7 pole and a transformer and a wire that connects that house to
8 the grid, when the Company puts in that infrastructure, when
9 that subdivision is built, has that cost that goes out to its
10 customers. If one of those customers then puts solar panels on
11 its roof, those costs are still there. It's not like the Company is
12 able to get a rebate from its contractor for the price of that pole,
13 that distribution wire, that transformer. That cost is still there.

14 Furthermore, if that customer that has the solar
15 panels on its roof experiences a cloudy day, needs power at
16 night, its system fails, shade from a tree comes by, it's going to
17 be relying on that pole, that transformer, and that wire.

18 Now, during the day, when it is generating,
19 someone could come along and do a study and say, Hey, look at
20 this. We're doing a study. And theoretically, right now, the
21 Company's distribution system is not at its peak capacity. That
22 distribution line's not being used. And, so, based on my
23 theoretical calculations, there's excess capacity in that system.
24 That's a value. That's a benefit. And why that's hypothetically
25 true, in the real world it's not a benefit, because it's not like that

1 company can take that pole or that wire or that transformer and
2 do anything else with it. It has to be there. It has to be there to
3 serve that house. And it can't serve anyone else.

4 The Company can't move it, because that solar
5 customer may need it. A cloud can go in front of the sun.
6 Nighttime rolls around. And even if there is a capacity, it's not
7 like the Company could build anything different. It's not like it
8 could build a different design, because it doesn't know when
9 that house will or will not need that solar power.

10 And I guess--before I leave that analogy, I guess
11 the point is true, even if that house had solar when the
12 subdivision was built, it wouldn't change what the Company
13 would have to do. They would still have to put a pole and a
14 transformer and a wire to connect that house.

15 And I think that analogy helps the Company--or
16 excuse me--the Commission hopefully see the direction that the
17 testimony will take in this case.

18 This is not an attempt by my client, contrary to what
19 we just heard, to single out net metered customers because
20 they use less power. That's incorrect. It's because whether you
21 use a tiny amount, a large amount, a middle amount, you use
22 that connection to the grid. Everyone uses it simply by being
23 connected to the grid. You use it, period.

24 It is true that this facility charge only applies to net
25 metered customers. That is correct, but it is not an attempt to

1 single them out in their harassment. They're already singled
2 out. They have themselves opted into an existing special tariff.
3 They are an identifiable class that they opt into by electing to
4 net meter.

5 I dispute that we haven't--my client hasn't
6 considered benefits. And the Commission will hear testimony
7 about the cost deferral or avoided cost of 3 cents a
8 kilowatt-hour. It will hear about studies that examined whether
9 deeper solar penetration would allow the Company to defer
10 generation costs and found out that it could not. So, there will
11 be testimony to refute the statements that the Commission just
12 heard.

13 And, finally, as far as the point being that the
14 Commission should not rush into this, that it should take its time
15 and seek further analysis, I suppose I'd simply ask the
16 Commission to consider when a better time would be, when
17 there would be less impact on the system, when there would be
18 less impact on the customers that are the ones that this
19 Commission watches over. These distributed generation net
20 metered customer have been growing at a rate of 30 percent
21 annually. And as Ms. Steward's testimony indicates, it grew by
22 an additional 20 percent just between her filing of direct and
23 rebuttal testimony. Delaying this proceeding will only have a
24 greater impact and a greater source of disruption for the system
25 to customers.

1 My client's witnesses will demonstrate that there
2 are quantifiable costs and benefits and that the costs do
3 outweigh those benefits and that the charges that it seeks are
4 just and reasonable and that witness--or excuse me--that
5 testimony will be brought forth this morning.

6 Thank you.

7 THE HEARING OFFICER: Thank you.

8 Any other preliminary matters before we begin?

9 Mr. Jetter.

10 MR. JETTER: I'd like to just give a very brief
11 opening statement for a few additional things for the
12 Commission to consider. What we currently have in the net
13 metering program is the benefit of being provided to the net
14 metering customers at the full cost of retail service to them.
15 And under the Senate Bill 208 requirements--if, as has been
16 suggested by some of the parties, there's insufficient evidence
17 to reach any conclusion about what a just and reasonable
18 charge would be or the cost-benefit analysis isn't sufficient in
19 this docket, I think that Senate Bill 208 requires that those
20 benefits also be suspended in addition to denying the imposition
21 of an additional monthly fee.

22 And so, in light of that, the Division isn't requesting
23 that the net metering benefits be suspended, but something that
24 the Commission should very carefully consider in light of how
25 Senate Bill 208 actually applies to both new and existing tariffs.

1 And the existing tariff provides a fairly significant benefit
2 currently to net metering customers. Beyond that, the Division
3 is not opposed to an additional proceeding to more fully analyze
4 the benefits and costs associated with the net metering program
5 and how it would look going into the future.

6 Thank you.

7 THE HEARING OFFICER: Thank you.

8 Just one other preliminary matter that should be
9 mentioned at this stage: This is an evidentiary hearing. We
10 have a public witness hearing scheduled for tomorrow evening
11 at 5:00 p.m. If anyone's here to participate in that process, our
12 apologies, but we will have that hearing, again, this location,
13 beginning at 5:00 p.m. tomorrow evening.

14 So, if there are no other preliminaries, we'll look to
15 the applicant to call its first witness.

16 MR. MOSCON: Thank you. We'll call Mr. Richard
17 Walje.

18 THE HEARING OFFICER: Thank you.

19 Mr. Walje, will you raise your right hand, please?
20 Do you solemnly swear that the testimony you are about to give
21 shall be the truth, the whole truth, and nothing but the truth?

22 THE WITNESS: I do.

23 THE HEARING OFFICER: Thank you very much.
24 Please be seated.

25 RICHARD WALJE, being first duly sworn, was

1 examined and testified as follows:

2 THE WITNESS: Good morning, Chairman Allen,
3 Commissioner Clark, Commissioner LeVar. I have a few
4 summary comments I'd like to make about our filing. I'm
5 pleased to introduce the company's technical witnesses who will
6 provide testimony that demonstrates the Company's proposed
7 \$4.65-per-month facilities charge on net metering installations is
8 in the public interest.

9 Mr. Douglas Marx will present evidence that
10 distributed photovoltaic solar generation does not materially
11 reduce the peak generation system capacity needed by net
12 metering customers. He also explains that regardless of the
13 amount of electricity that is generated by these installations,
14 distribution costs are not necessarily reduced.

15 He also provides a preview of the potential impacts
16 and additional cost on the distribution system when the number
17 of installations on a circuit increases.

18 Ms. Joelle Steward will present evidence supporting
19 the appropriateness and the fairness of the 4.65 charge and
20 how that was developed through the Company's analysis. The
21 charge is consistent with longstanding cost causation principles.

22 Mr. Greg Duvall will describe why the avoided cost
23 recently determined by the Commission for smaller solar PV
24 generation projects is the appropriate value for the energy from
25 net metered installations.

1 In totality, these witnesses provide the Commission
2 with the information it needs to make a determination in support
3 of the Company's proposal.

4 We believe the Company has a responsibility to
5 meet the needs of its customers while also responding as it can
6 and as requested to changing societal and environmental
7 considerations. We applaud the efforts of those who are making
8 choices they believe benefit society. We work with our
9 customers to provide solutions that meet their preferences,
10 while assuring those solutions allow us to continue to provide
11 fairly-priced service to all of our customers.

12 The docket has generated a great deal of public
13 interest through the media coverage. Some believe that asking
14 net metering customers to pay a relatively nominal fee for their
15 use of the distribution system will hinder the further
16 development of solar in Utah. Though I understand this is a
17 view held by some, I haven't seen the information that validates
18 that assertion.

19 We also understand that the current number of PV
20 solar net metering installations in Utah is very low, but we have
21 observed the passion and controversy surrounding the
22 determination of the value in net metering in States where the
23 number of solar installations is large. As has happened in other
24 States, we believe the number of installations in Utah is likely to
25 grow significantly, so now is the time to address the issues

1 associated.

2 The Company is ready, willing, and able to support
3 more net metering installations. We do want customers to
4 understand the impacts on the distribution system. And
5 because of the current rate design, net metering customers are
6 not fully paying for their use of the distribution infrastructure
7 and customer services. In essence, we are only asking that
8 they pay for the facilities they continue to use.

9 Ironically, without a connection to the distribution
10 system, net metering is not even possible. Additionally, I can't
11 remember the time when the Office of Consumer Services, the
12 Division of Public Utilities, and the Company all agreed on the
13 need for a fundamental change to a residential rate design.

14 It is important to note the Company's revenues will
15 not increase as a result of the implementation of this monthly
16 charge. Some parties in the case have reached a settlement
17 with the Company on a revenue requirement. That amount is
18 not contingent one way or another on what the Commission
19 decides on the monthly charge.

20 We've been providing safe, reliable, and affordable
21 electricity to our customers for more than a hundred years, and
22 intend to do so for another hundred years or more. My
23 comments on the evolving trends on the U.S. electric utility
24 industry call into question whether the current decades-old
25 regulatory construct will allow us, the Company, to provide the

1 electric infrastructure that will be required in order to provide
2 customers with a platform they need to exercise choice and
3 energy supply options and to deploy more sophisticated energy
4 efficiency technologies.

5 In the end, I understand the Commission's role is to
6 ensure that the policies are developed wisely and serve the best
7 interest of all customers. If the Commission determines that it
8 needs more information to further assess the cost of potential
9 benefits of net metering, the Company welcomes the opportunity
10 to participate in that process. However, consistent with the
11 positions the Commission has previously taken in related
12 dockets and the evidence and analysis provided by the
13 Company, we believe we have more than adequately justified
14 the proposed \$4.65 monthly charge. The requested net metering
15 charge clearly, in our view, is in the public interest.

16 Thank you for the opportunity to make some
17 opening remarks.

18 THE HEARING OFFICER: Thank you.

19 BY MR. MOSCON:

20 Q. Thank you, Mr. Walje. Before I turn you loose for
21 cross-examination, maybe it makes sense if I move to admit
22 your testimony into the record. So, would you describe for us,
23 Mr. Walje--did you cause to be filed in this proceeding direct
24 and rebuttal testimony?

25 A. I did.

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Q. And are you aware of any corrections or changes that need to be made to your testimony?

A. I am not.

Q. And if I were to ask you the questions set forth in the prefiled testimony, would your answers today be the same as the testimony as set forth?

A. They would be.

MR. MOSCON: Okay. Based on that, Commission, I move to admit the direct and rebuttal testimony of Mr. Walje.

THE HEARING OFFICER: Any objections?

It's received.

And let me note, for the record, that all of the direct testimony filed in the docket was received subject to objection at this time. It was received when we had our last hearing in this matter that addressed the revenue requirement and settlement of actually all the other issues in the case. And, so, I just wanted to note that for the record.

Let me also state: We have, as an order of witness presentation, first the Company, then the Division, Office, UCARE, TASC, the Sierra Club, and UCE. Let's use that same order for cross-examination and--unless there's objection to that. And if Mr. Walje is now available for cross, we'll turn to Mr. Jetter.

MR. MOSCON: He is. Thank you.

MR. JETTER: I have no questions for Mr. Walje.

1 Thank you.

2 MR. COLEMAN: I have no questions from the
3 Office. Thank you.

4 THE HEARING OFFICER: Mr. Rossetti.

5 EXAMINATION

6 BY-MR.ROSSETTI:

7 Q. Just one quick question. If we recover the fixed
8 costs for a net metering customer once for the net metering
9 customer and once for the neighbor for whom the excess energy
10 is delivered, would the Company financially benefit from that?

11 A. We have not done that analysis, but I don't believe
12 so, because as demonstrated, we
13 are--in Witness Steward's testimony, we are only trying to cover
14 the gross amount of cost for the distribution system.

15 Q. Thank you for clarifying that.

16 EXAMINATION

17 BY-MR.CULLEY:

18 Q. Good morning, Mr. Walje. And good morning,
19 Commission. My name is Thad Culley. I represent The Alliance
20 for Solar Choice. So, I just want to start with page .11 of your
21 direct testimony. We're going to start with line 228.

22 Okay. Great. So, starting there, you say, "As our
23 Utah customers increasingly pursue self-generation and energy
24 efficiency, retail sales and revenues will continue to decline. As
25 discussed in my earlier testimony"--"in my"--"earlier in my

1 testimony, the weather-related 2014 Utah sales forecast has
2 decreased by approximately 2.0 percent for the sales forecast
3 used in the 2012 general rate case." So, first of all, let me ask:
4 Have you heard the phrase "utility death spiral"?

5 A. I have.

6 Q. And as a CEO, you're aware that public statements
7 are closely read by those in the financial markets.

8 A. I am.

9 Q. And you would agree that "utility death spiral" is
10 hyperbole.

11 A. I would agree with that.

12 Q. And if the market saw the Company was in the
13 death spiral, it might have a hard time attracting new capital. Is
14 that correct?

15 A. Yes. I believe that would be the case.

16 Q. Okay. And do you agree that your statements that I
17 just quoted are fairly measured and should not induce market
18 panic?

19 A. I would hope that they wouldn't produce market
20 panic.

21 Q. And is it fair to say that you see distributed
22 generation as a major business risk but also an opportunity?

23 A. Correct.

24 Q. And is it fair to say that you see customer-owned
25 distributed--generated specifically as both a risk and an

1 opportunity?

2 A. Yes.

3 Q. Okay. Let's turn to page .9--your direct,
4 again--starting with line 201. Okay. You state there in that
5 addition--"In addition to remaining a vertically integrated electric
6 utility and a producer and provider of electricity, our role is
7 changing to also include being a facilitator of energy services
8 provided by other entities." So, I find this interesting. When
9 you say "energy services," do you mean services that involve
10 provision of electricity or does that also include a broader
11 sweep?

12 A. I would say considering a broader sweep when I
13 made that statement.

14 Q. So, if one of your customers entered into, say, an
15 energy-savings contract with an entity that came in and helped
16 do installation, install automated lighting controls, etc., would
17 that be an example of a service that your company facilitates?

18 A. That would be.

19 Q. Even if they didn't use your grid to accomplish that
20 service?

21 A. Because we believe that customers are desirous of
22 being able to accomplish those sorts of things and we're happy
23 to facilitate them as long as we recover the costs that are
24 required for us to pull up that platform that gives them that
25 opportunity.

1 Q. Okay. So I see. So, if an energy services company
2 provided a service to a customer, there might be an opportunity
3 for recovery.

4 A. I think it goes back to the point of net metering,
5 where unless that customer can assure that facility's available
6 all the time, demand reduction, for instance, they're still going
7 to need poles and wires at those other points in time.

8 Q. Okay. Thank you. And in the context of that
9 metering, an entity providing a net metering system to your
10 customer, would you agree they really only need the grid when
11 that system exports?

12 A. I believe they need that grid all the time.

13 Q. But the entity that's providing the service to the
14 customer, do they need that--need the grid to provide that
15 service?

16 A. If there is an entity that is providing energy directly
17 to a customer, that entity does not need the grid; the customer
18 does.

19 Q. All right. Thank you. So, in this vein, on page
20 .9--let's see--starting with the last word on line 192, so-- ". . .
21 that our monopoly position actually places a higher standard of
22 care in asking for a price increase and providing customer
23 service, because our customers can't 'vote with their feet or
24 pocketbook' to do business with another electricity provider."
25 First off, would you agree that this statement applies equally to

1 all ratepayers?

2 A. I would.

3 Q. And would you agree that you meet this higher
4 standard of care by performing due diligence and making sure
5 that an increase is necessary and justified?

6 A. Yes. That's the purpose of all of the evidence filed
7 in our general rate case.

8 Q. Okay. Thank you. And in your opinion, do net
9 metering customers currently have the opportunity to vote with
10 their feet or pocketbook?

11 A. Under Utah State law, they're not allowed to go to
12 another utility, but in essence, when they make decisions to
13 invest in their own generation, they're making that decision.

14 Q. You agree they can't totally vote with their feet.

15 A. They could if they wanted to invest in some storage
16 that would allow them to completely disconnect from our system.

17 Q. Okay. And that would not be in the long-term
18 business interests of your company.

19 A. It depends upon many factors that are unknown
20 today, whether that would or would not be.

21 Q. Okay. But as a facilitator, then, would you agree
22 that your company has a long-term interest in reflecting the fair
23 value of the grid for those services and your charges to
24 customers?

25 A. Yes.

1 Q. Okay. Let's flip to page .10. I have a little bit more
2 for you. And this is starting at 221, line 221. You state there
3 that, quote, "We understand to some degree . . . these changes
4 are inevitable, but we need to assure that we receive the
5 funding that will be necessary to provide electric infrastructure
6 that enables these opportunities," end quote. So, is your
7 company's electric infrastructure currently inadequate to enable
8 higher penetrations of customer self-generation?

9 A. Our current distribution network is not inadequate;
10 however, as the penetration rate gets higher for distributed solar
11 photovoltaic generation, it may, in fact, not be adequate
12 because of the impacts that those technologies have on the
13 distribution grid.

14 Q. Okay. And are you referring here to, I guess,
15 proactive upgrades to the grid that would happen before
16 additional interconnections?

17 A. No. I'm referring to the information that was
18 provided in Witness Marx' testimony about the impact of
19 increased penetration rate on the distribution assets as
20 experienced by other utilities.

21 Q. Okay. I'll be sure to bring that up with Witness
22 Marx.

23 And when you mention funding, am I to assume that
24 these upgrades, if these are going to be--let me back up again.
25 So, these would not be proactive upgrades, these would be

1 responsive.

2 A. They may or may not be, depending upon the
3 circumstances of serving 740,000 Utah customers. I can't distill
4 it down to one circumstance. This is primarily meant to say if,
5 in fact, customers start using less electricity and we still have to
6 have in place the electric infrastructure--either investments we
7 made long ago or future investments we need to make to
8 facilitate other services--then we should be able to receive that
9 funding in order to provide the platform that customers want and
10 need.

11 Q. Okay. And would you agree that this might include
12 smart grid investments that would enable the utility to integrate
13 renewables?

14 A. It might include smart grid investments and other
15 sorts of investments, as well, to manage power quality and
16 voltage changes brought on by photovoltaic solar.

17 Q. Okay. And for funding those, I'm--am I to assume
18 that these upgrades would be paid for by ratepayers and
19 included in the rate base?

20 A. Yes.

21 Q. Okay. But if you have these smart grid
22 investments, these might also unlock additional benefits. Is that
23 correct?

24 A. They might.

25 Q. And if those benefits are recognized, they might

1 help justify the investment over time.

2 A. They might.

3 Q. Okay. And would the Company justify investments
4 like this with some kind of viability screening?

5 A. We would only propose making those investments
6 that we could demonstrate hard-dollar savings for customers, as
7 well as other benefits that we could measure and assure people
8 that those benefits were derived from that investment.

9 Q. Okay. And I think you mentioned these types of
10 modernization improvements or upgrades would not be
11 necessary in the immediate future.

12 A. Correct.

13 Q. Okay. And if it turns out that increased solar
14 penetration enables your Company to delay, modify, or cancel
15 specific distribution upgrades, would you agree that the high
16 standard of care you owe to ratepayers would require passing
17 along these savings to ratepayers?

18 A. If we could identify the savings in such a way that
19 we could assure that we continue the high level of reliable
20 service we do today and we could aggregate enough solar
21 generation to achieve that on a specific circuit, we would clearly
22 look at that as an option.

23 Q. Okay. And that was on a specific circuit. So, let's
24 see. On page .8 of your direct testimony, starting with line 168,
25 you state that, "At the local transmission and distribution level,

1 projects are directly aligned with customer needs repeatedly
2 during the course of the year. As an example, even though
3 energy efficiency or local economic factors might reduce overall
4 load increases, there can be local pockets of growth or areas of
5 inadequate reliability that still must be addressed by distribution
6 system improvements [sic]; and conversely, in cases where local
7 load growth has slowed, projects are delayed, modified, or
8 canceled." Did I read that correctly?

9 THE HEARING OFFICER: I know the question's for
10 the witness. My copy says "investments," not "improvements."
11 Second-to-the-last line.

12 MR. CULLEY: Right.

13 THE HEARING OFFICER: There's a word on line
14 172.

15 MR. CULLEY: It's on my page, too. I read it
16 incorrectly. Thank you, Commissioner, for the correction.

17 BY MR. CULLEY:

18 Q. So, Mr. Walje, is it your point that some factors like
19 energy efficiency and some economic conditions might have a
20 more general effect and might not necessarily translate into
21 local benefits?

22 A. Yes.

23 Q. And would you agree that it's difficult to pin down
24 exactly where and when customer-initiated energy efficiency
25 improvements are occurring?

1 A. It is. And that's why we do this periodically, to
2 make sure we are attuned to what is actually needed by our
3 customers.

4 Q. But I think as you noted, you would be able to
5 identify aggregate customer generation on a circuit?

6 A. That is part of our process, yes.

7 Q. And would the company's demonstrated experience
8 in studying solar output profiles--do you feel that you could
9 conclude with confidence that the Company could estimate how
10 much the system would generate on a particular day in a
11 particular lotion?

12 MR. MOSCON: Before you answer, Mr. Walje--and
13 I don't mean to cut you off--I'd simply like to kind of, I guess,
14 raise one objection, which is, a lot of the question is tending to
15 go into detail that goes beyond the scope of Mr. Walje's
16 testimony, which simply was introducing testimony of other
17 witnesses. He's--I don't object to a-- continuing answering this
18 question, but I'll simply note questions such as forecasting
19 future loads and whatnot certainly goes beyond the scope of
20 testimony.

21 THE HEARING OFFICER: I'm sure--
22 pardon me--I'm sure the witness will inform us at that point.

23 THE WITNESS: Okay. Well, I will inform you right
24 now that the way I was going to answer this question was, I
25 think, in alignment with what counsel said, which is Mr. Marx's

1 testimony demonstrates that we don't actually achieve any
2 capacity reduction needs on our distribution system. So, it's
3 somewhat irrelevant for the distribution system how much PV
4 solar's available on that circuit, because we will still have to
5 design it to the peak demand that can occur when solar
6 generation is not available. And, so, my answer to the question
7 is that would not be a solution that we seek today in order to
8 solve distribution capacity problems. And Mr. Marx goes into
9 that in detail.

10 BY MR. CULLEY:

11 Q. Okay. Thank you. I just have a few more here. I
12 know I said that last time, but this time I'll keep it. So, we're on
13 page .1 of your rebuttal testimony at this point. Give you a
14 second.

15 Okay. And starting with line 15, you describe Mr.
16 Marx's testimony and state that the contribution from PV
17 generation to meet the company's summer peak load serving
18 requirement is negligible. So, in providing your overview of Mr.
19 Marx's testimony, were you aware that he based that conclusion
20 on a particular study that was produced by the Company in this
21 proceeding?

22 A. I am aware of that.

23 Q. And that study referred to a single-circuit peak not
24 the summer load serving requirement across the system.

25 A. I will defer to Mr. Marx. And you can ask him that

1 question.

2 Q. Thank you. Well, with that--and since we were
3 talking about the possibility of deferring substation upgrades,
4 are you aware that Mr. Marx's testimony states that the purpose
5 of the study was to consider the potential of rooftop solar to
6 defer distribution upgrades?

7 A. I am.

8 Q. And is it also your understanding that this was the
9 purpose--I'm sorry. Strike that. Are you aware of any other
10 study that has subsequently been undertaken by the Company
11 to address the same question?

12 A. I am not.

13 Q. And would you be interested to know if any such
14 study had occurred?

15 A. Yes.

16 Q. Okay. And because the grid is dynamic, your
17 company tends to reevaluate its policies based on conditions
18 and maybe emerging technologies. Is that correct?

19 A. Correct.

20 Q. So, what doesn't work today might work tomorrow.

21 A. Perhaps, but that's a very open-ended question. I'd
22 have to have much more information in order to answer it.

23 Q. Sure. And one last very open-ended question: So,
24 what doesn't work here might work there. Would you agree with
25 that?

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A. Again, same answer.

MR. CULLEY: Fair enough. Thank you, Mr. Walje.
Appreciate your time.

THE HEARING OFFICER: Ms. Roberts.

MS. ROBERTS: Thank you.

EXAMINATION

BY-MS.ROBERTS:

Q. Good morning, Mr. Walje.

A. Good morning.

Q. Appreciate your swiveling here, getting eye contact
with me.

A. I'm getting my--I'm working my core.

Q. This is the first time that Rocky Mountain Power
has sought to impose a special fee--

THE REPORTER: Can you speak up a little bit?

BY MS. ROBERTS:

Q. My apologies.

This is the first time that Rocky Mountain Power
has sought to impose a special fee on net metering customers,
correct?

A. To my knowledge.

Q. Okay. And you filed direct testimony on the net
metering issue.

A. I did.

Q. As did Ms. Steward.

1 A. Yes.

2 Q. Did any other witness file direct testimony relating
3 to the net metering fee?

4 A. I am not certain.

5 Q. Okay. Are you aware of what the Company's direct
6 case says about the benefits of net metering?

7 A. I do not.

8 Q. Okay. Please turn to page .16 of your direct
9 testimony.

10 At the bottom of that page and continuing on to
11 page .17, you state, ". . . it is important that the customers
12 making the significant economic decision to invest in
13 customer-owned generation understand the full cost implications
14 they will see with self-generation ownership." Got ahead--

15 A. Yeah. I opened the wrong tab. Please give your
16 citation again.

17 Q. Okay. Page .16 of your direct, beginning on line
18 359.

19 A. Page .16 of my direct, line 359.

20 Q. Yes.

21 A. Yes.

22 Q. So, read it again: ". . . it is important that the
23 customers making the significant economic decision to invest in
24 customer-owned generation understand the full cost implications
25 they will see with self-generation ownership." Did I read that

1 correctly?

2 A. Yes.

3 Q. In light of that principle, is Rocky Mountain Power
4 seeking to apply this fee to current net metering customers or
5 only to those that install after the fee is approved?

6 A. In this filing, we are proposing that it applies to all
7 net metering customers.

8 Q. So, customers who currently have rooftop solar
9 installed on their roof have already made a significant
10 investment decision without knowing the full cost implications,
11 correct?

12 A. They have.

13 Q. You also mention in our direct testimony that there
14 is an immediate larger impact on net metering customers,
15 correct?

16 A. If our proposed increase for a facilities charge is
17 approved by the Commission, the answer to that would be yes.

18 Q. I'm sorry. Could you repeat your answer?

19 A. Could you repeat your question?

20 Q. In your testimony--and I apologize; I don't have a
21 page reference handy--you refer to the--basically, the small
22 level of existing net metering customers, correct?

23 A. Correct.

24 Q. But you say that there is an immediate impact on
25 non-net metering customers and that's why the Company needs

1 to go forward with this fee at this time.

2 A. There is.

3 Q. How large is the impact at this time on non-net
4 metering customers? Can you quantify it?

5 A. Roughly 100,000, I believe.

6 Q. A hundred thousand dollars in total revenue?

7 A. Yes.

8 Q. And how many residential customers does the utility
9 currently have?

10 A. Seven hundred and forty thousand, roughly.

11 Q. So, what is the per bill impact for non-net metering
12 customers, if you can estimate that?

13 A. I do not have that information handy.

14 Q. Okay. Has Rocky Mountain Power received any
15 complaints from non-net metering customers about this issue?

16 A. We have heard a few informal comments, but no
17 formal complaints.

18 Q. Okay. Thank you.

19 A. None--excuse me--that I'm aware of.

20 Q. Thank you. Rocky Mountain Power offers a solar
21 incentive program, correct?

22 A. Yes.

23 Q. And you recover the costs for that incentive
24 program from other ratepayers.

25 A. Correct.

1 Q. And that recovery is being just and reasonable,
2 correct?

3 A. Yes.

4 Q. And Rocky Mountain Power is allowed to ask other
5 ratepayers to contribute to the solar incentive program because
6 the distributed solar resource is viewed as an asset that
7 benefits the entire system, correct?

8 A. I guess I would answer in this way: As a
9 determination that the Commission decided to continue with that
10 program, we had actually concluded that that wasn't necessarily
11 a value to the--all of the customers, but when the decision was
12 made, we fully implemented it.

13 Q. So, the Commission's view was that solar resource
14 provided a value to other customers.

15 A. Yes. Our analysis was that it was not
16 necessarily--not necessary to continue the evolution of solar in
17 the State.

18 Q. Thank you. Mr. Walje, are you aware that the
19 mayor of Salt Lake City has asked this Commission to decline
20 your proposed fee?

21 MR. MOSCON: Before he begins, I guess I'll just
22 again renew--we have a lot of questioning that seems to go
23 beyond the scope of Mr. Walje's testimony, commenting on
24 political commentators and the like. So, I guess I'll just object
25 to questioning that goes beyond the testimony he's filed in the

1 proceeding.

2 THE HEARING OFFICER: I'll allow the question.

3 Do you have it in mind, Mr. Walje?

4 THE WITNESS: I am aware that multiple entities
5 and elected officials have actually gone on record as opposing
6 the increase. So, we don't need to ask about every one of
7 them.

8 BY MS. ROBERTS:

9 Q. I wasn't planning to do that, to allay any concerns.
10 How many years have you been with Rocky

11 Mountain Power?

12 A. I started on February 11 of 1986.

13 Q. And are you aware of this level of interest from
14 political officials in any previous issue pending before this
15 Commission?

16 A. Occasionally. There was an effort some time back
17 to restructure the Office of Consumer Services that created
18 quite a ruckus. So, indeed, I have been involved in one of
19 these.

20 MS. ROBERTS: Thank you very much. No further
21 questions.

22 THE HEARING OFFICER: Ms. Hayes.

23 MS. HAYES: Thank you.

24 EXAMINATION

25 BY-MS.HAYES:

1 Q. Good morning, Mr. Walje.

2 A. Good morning.

3 Q. If I could direct you to page .12 of your direct
4 testimony, starting at line 264, you say, "Perhaps illogically, we
5 continue to provide an award-winning portfolio of energy
6 efficiency programs to meet our customers' and policymakers'
7 expectations; even though when the insufficient monthly charge
8 is coupled with the Company's changing role, increased energy
9 efficiency investments and increasing number of residential net
10 metering installations with the resulting lower sales, our ability
11 to earn our authorized return becomes highly
12 weather-dependent."

13 As the president of Rocky Mountain Power, are you
14 familiar with PacifiCorp's integrated resource plan?

15 A. I am.

16 Q. Are you aware that in the 2013 IRP, the portfolio
17 that contained the most aggressive energy efficiency acquisition
18 was found to be the least costly and least risky of all the
19 portfolios?

20 A. I did not supply evidence on the content of the IRP
21 and how it interacts with this filing.

22 Q. All right. So, I'll just ask you, then, that--based on
23 your testimony, is it your position that it's illogical to pursue
24 cost saving and risk mitigating energy efficiency programs
25 because they result in lower energy sales and a lower rate of

1 return?

2 A. Let me--I wish I'd put that testimony a little
3 differently, but I would answer like this: Because such a large
4 component of our fixed costs are recovered by usage,
5 volumetric usage, we rely on continued actual growth on most of
6 energy consumption and hot weather to assure that we receive
7 enough revenue through usage in order to pay for our fixed cost.

8 So, my comment about illogicality was, we're
9 working, as society wants us to, policymakers, to reduce the
10 amount of energy consumed which we are okay with. We just
11 want the regulatory construct to be in alignment with that
12 societal and policy goal. Therefore, we do get a delay in
13 revenues unless we file constant periodic rate cases, which is
14 not one of the things we enjoy doing and our customers don't
15 enjoy us doing.

16 Q. Thank you. I just wanted to clarify.

17 When the Company filed its rate case, the current
18 rate case, including a request for a solar fee, did the Company
19 request that the Commission look at the costs and benefits of its
20 net metering program as required by the net metering statute in
21 effect at the time you filed your case?

22 A. Well, I'm not an attorney, so I'm not going to opine
23 on what the statute said. The attorneys will spend a lot of time
24 on that topic. And, so, I can't answer that. I think it's up to the
25 Commission, who have legal representation to determine

1 whether the evidence that's been provided meets 208, from their
2 perspective.

3 Q. Sure. And did you--when the Commission issued
4 its public notice of its obligations pursuant to the recently
5 enacted SB 208, which changed the net metering law, did the
6 Company supplement its case, its direct case, with evidence of
7 the costs and benefits of its net metering program?

8 A. It did not, because our filing was specifically
9 focused on the under-recovery of the use of the distribution
10 system by current net metering customers.

11 MS. HAYES: All right. No more questions.

12 THE HEARING OFFICER: Thank you. Redirect?

13 MR. MOSCON: No. Thank you.

14 EXAMINATION

15 BY-THE HEARING OFFICER:

16 Q. Mr. Walje, I have a question. You referred to the
17 incentives, the financial incentives that exist for residential
18 customers to implement photovoltaic self-generation. Why did
19 the Company take the position that those incentives were no
20 longer necessary? Why does the Company take--

21 A. Commissioner Clark, we believe that residential
22 customers have access to a Federal tax incentive, an
23 investment tax incentive. The State provides an incentive. And
24 the net metering structure itself, as represented in Witness
25 Duvall's testimony, shows that the retail credit that a customer

1 gets for a kilowatt-hour of generation out of their net metering
2 far exceeds the benefit of the energy provided by those
3 installations, and that the five-dollar that--the fee--excuse
4 me--the amount that's billed to all Utah customers in order to
5 fund the Utah State and--solar incentive program isn't required
6 under those circumstances.

7 THE HEARING OFFICER: Thank you. That's all
8 my questions.

9 Any others?

10 Counsel for Rocky Mountain Power?

11 MR. MOSCON: Thank you, Mr. Walje. You can
12 step down.

13 THE WITNESS: Thank you, Commission.

14 THE HEARING OFFICER: Thank you, Mr. Walje.

15 MR. MOSCON: So, we will call, as our next
16 witness, Mr. Douglas Marx.

17 THE HEARING OFFICER: Please raise your right
18 hand. Do you solemnly swear that the testimony you are about
19 to give shall be the truth, the whole truth, and nothing but the
20 truth?

21 THE WITNESS: I do.

22 THE HEARING OFFICER: Thank you. Please be
23 seated, Mr. Marx.

24 DOUGLAS MARX, being first duly sworn, was
25 examined and testified as follows:

1 EXAMINATION

2 BY-MS.HOGLE:

3 Q. Good morning, Mr. Marx.

4 A. Hi.

5 Q. Can you please state your name and your position,
6 for the record?

7 A. My name is Douglas Marx. I'm the director of
8 engineering standards and technical services for Rocky
9 Mountain Power.

10 Q. And can you give us a little bit of your background?
11 I believe that this is the first time that you've testified before
12 this Commission. Am I correct?

13 A. That's correct. This is the first time I've testified.
14 I've spent 33 years working with Rocky Mountain Power. I
15 started out as a distribution engineer. I've worked progressively
16 through the company up through operations management,
17 through metering, smart grid. And now I'm the director of
18 engineering standards and technical services.

19 Q. Thank you. And as a witness for the Company, did
20 you cause to be filed your rebuttal testimony with exhibits in this
21 case?

22 A. I did.

23 Q. And do you have any changes to that rebuttal
24 testimony?

25 A. I do not.

1 Q. So, if I were to ask you the questions in that
2 testimony again here today, would your answers be the same?

3 A. They would.

4 Q. Thank you.

5 MS. HOGLE: Your Honors, at this time, I'd like to
6 submit Mr. Douglas Marx's rebuttal testimony, with exhibits, into
7 the record.

8 THE HEARING OFFICER: Any objection?

9 It's received.

10 MS. HOGLE: Thank you.

11 BY MS. HOGLE:

12 Q. Mr. Marx, do you have a summary that you would
13 like to provide to the Commission today?

14 A. I do.

15 Q. Please proceed.

16 A. Good morning, Commissioners. The purpose of my
17 testimony is to demonstrate that customers with solar
18 generation do not contribute in any material way to the
19 reduction in peak loading requirements of the distribution
20 network. And, in fact, due to the operating characteristics of
21 present inverter technology, current conditions would require the
22 Company to install additional equipment to mitigate voltage
23 issues caused by voltage [sic] systems and incur additional
24 costs to properly operate the system.

25 My key points are:

1 That the distributions are sized on electric demand;
2 they are not sized on energy use. Electric demand is at its
3 highest when the rooftop solar is approaching its lowest
4 production level of the day. Rooftop solar generation does not
5 reduce the peak load at a significant level enough to change
6 design practices.

7 As customer load continues to increase, additional
8 investments in distribution network will be required to continue
9 to operate a safe and reliable service. Rooftop solar does not
10 mitigate this need and does nothing for existing local
11 distribution network capacity needs.

12 High penetrations of solar generation create
13 operational and voltage challenges that require additional
14 design and equipment to mitigate their effects.

15 As an electric utility, we have an obligation to
16 supply safe and reliable electric energy at the time it is
17 demanded; and in turn, this requires that we size our electrical
18 infrastructure to meet the expected peak electrical demand. We
19 must do this in an economical and cost-effective manner and in
20 compliance with all applicable codes and standards, including
21 voltage management. We study the system at various levels of
22 granularity to determine load characteristics and patterns. And
23 we build on this knowledge in using our experience to design
24 and operate a very complex electrical distribution network.

25 At very low penetration levels of rooftop solar,

1 which the Company is presently witnessing, we see very little
2 impact in the distribution system. What we have learned from
3 other utilities is that as the penetration level increases, the
4 operating characteristics of the electric system will change and
5 present challenges that will need to be addressed. Being
6 proactive in evaluating these effects will allow us to be prepared
7 for an evolving network.

8 In 2010, the Company completed a very
9 comprehensive rooftop solar study. The study was completed to
10 understand whether a high penetration of rooftop solar could
11 reduce the need for local system upgrades. Local system
12 upgrades occur primarily for load growth and safety. In this
13 case, load growth in the area was stressing the system to a
14 point that a power transformer upgrade was needed. Local
15 residents challenged the Company, asserting that rooftop solar
16 would make the power transformer upgrade unnecessary.

17 In this study, the contribution of rooftop solar was
18 calculated through complex solar modeling using data obtained
19 from Federal resources, as well as self-collected LiDAR
20 information for the specific area under consideration. It is
21 important to note that LiDAR data was collected at a very high
22 density to allow us to finitely determine the best application of
23 individual solar panels on each rooftop in the study area.

24 The calculated solar generation contribution shown
25 in the peak day chart of my testimony was derived from this data

1 and then compared to the circuit loading information. We
2 analyzed the impacts for the highest circuit loading day for that
3 year, which was August 2, 2010. This circuit has a mix of
4 residential and commercial loads, as detailed in the study
5 report. It is important to note that the load curves for
6 residential customers are similar throughout the summer
7 months.

8 In an effort to be highly conservative in the solar
9 generation estimates, we assumed a best-case solar
10 performance. This means clear-day conditions and no
11 degradation in the generation output due to performance,
12 dusting, or ambient temperature. In reality, there are many
13 times when, due to overcast days, the solar contribution to the
14 peak will be near or at zero. Thus, you can see that a 7 percent
15 contribution level is a generous estimate. Based on our
16 experience, and from a system perspective, this level of
17 generation contribution will not change the design requirements
18 for the network. I should also point out that the study assumed
19 that every rooftop surface that had the proper sun exposure
20 could be used for panels and that everyone in the study area
21 would participate.

22 I appreciate the chart titled "The 3 States of Net
23 Metering" supplied by Witness Miksis in his testimony. It is a
24 realistic representation of a residential customer's energy usage
25 pattern and the solar generation that is easy to understand.

1 The chart coincides directly with our 2010 rooftop solar study
2 and the resultant peak day chart derived from the study. Both
3 charts also show that the customer's electric demand is at its
4 highest in the evening hours, coincident with the time period
5 that solar generation is at its lowest output level. Furthermore,
6 his chart shows that the solar generation drops to zero during
7 the same time period.

8 Additionally, the chart displays the conditions when
9 voltage management becomes problematic. If you extrapolate
10 this chart to a residential area with the assumption that a large
11 portion of those customers have solar generation, the
12 compounding effects become quickly apparent and traditional
13 voltage management techniques may no longer be suitable.

14 These are the practical impacts of rooftop solar.
15 They are demonstrated every day in areas that have high
16 penetration of rooftop solar and utilities are working hard to
17 minimize the operational problems and maintain a safe and
18 reliable electric system.

19 Thank you.

20 MS. HOGLE: Mr. Marx is available for
21 cross-examination.

22 THE HEARING OFFICER: Thank you.

23 MR. JETTER: The Division has no questions.

24 Thank you.

25 MR. COLEMAN: The Office has no questions.

1 THE HEARING OFFICER: Mr. Rossetti.

2 EXAMINATION

3 BY-MR.ROSSETTI:

4 Q. Well, that was quick. Let me ask a couple
5 questions in my naive way. If they're wrong, let me know.

6 There's about a 2.6 cents per kilowatt-hour impact
7 by net metering customers that flows into this, about \$100,000.
8 How much of that is related to peak load versus billing, etc.,
9 etc.? Do you have any idea?

10 A. I do not. It's probably a better question for another
11 witness.

12 Q. Great. I'll save it. Have there been--
13 we've heard that when customers install solar--yes, when a
14 customer installs solar, that there are costs that are still
15 there--you're addressing those costs for the infrastructure.
16 When a residential customer employs conservation or efficiency
17 measures, are those costs still there; i.e., they reduce their
18 peak load, but have we actually realized any improvement in the
19 equipment or reduction of the transformer, replacement, etc.,
20 etc.?

21 A. Not on a local level, you don't see that.

22 Q. Okay. Is there no peak reduction at all from solar?

23 A. In a practical standpoint, no, because you have to
24 take into consideration the operational characteristics of the
25 solar panel, and the sunlight, the available characteristics of it,

1 and when the residential usage actually does occur at its peak
2 level, not the total energy used.

3 Q. Uh-huh (affirmative) . Okay. So, between the hours
4 of 5:00 and 7:00, supposedly, there's--when it's peak load at
5 residential houses, there's no reduction at all in the peak
6 attributable to solar.

7 A. You're assuming the peak occurs between 5:00 and
8 7:00. There are several instances where it occurs later in the
9 day.

10 Q. Okay. How about later in the day, between 7:00
11 and 8:00?

12 A. Yeah. There's no contribution from solar at that
13 time. Given when you install solar panels for the highest energy
14 production in Utah, there's no contribution at that time.

15 Q. Okay. Thank you. When it is overcast and solar
16 contribution is reduced, has the Company done anything to
17 measure the, say, air conditioning usage reduction that comes
18 along with having reduced solar radiation flying into the house
19 and heating up the walls, etc., etc.?

20 A. That's an interesting question, because you're
21 assuming a single point in time. If you look at the system as a
22 whole, especially as we start to build demand over several days
23 of heat, I can actually get a higher peak on a cloudily day than I
24 can on a sunny day.

25 Q. A higher peak? Would you mind explaining that?

1 A. The residual buildup over time in a home, what you
2 will see is that our residential peak load actually occurs over a
3 three to four-day period as the nighttime temperatures do not
4 relax on the system. My load maintains itself and the residual
5 heating on the home stays there. The air conditioners will
6 continue to run at a higher level for a larger amount of time
7 each day to reduce that temperature differential.

8 Q. Okay. So, you're saying that the peak on those
9 days actually goes higher than on a day when the sun is . . .

10 A. As I stated, it's dependent on the characteristics
11 over time.

12 Q. Okay. I'll address that later.

13 I think . . .

14 Thank you.

15 THE HEARING OFFICER: Mr. Culley.

16 MR. CULLEY: Thank you.

17 THE HEARING OFFICER: Pardon me. Mr. Culley.

18 MR. CULLEY: Thank you very much.

19 EXAMINATION

20 BY-MR.CULLEY:

21 Q. Mr. Marx, my name is Thad Culley. I'm counsel
22 for--co-counsel for The Alliance for Solar Choice. And just for--I
23 should apologize up front. I do have a lot of questions to ask
24 you. And I'll try to keep this as short as possible. I estimate
25 between somewhere 30 and 45 minutes for the Commission's

1 benefit. I don't know how that impacts our scheduling today.

2 THE COURT: Mr. Culley, if that schedule holds,
3 we'll take a break somewhere during your cross-examination--

4 MR. CULLEY: Okay.

5 THE HEARING OFFICER: --just so you're aware.

6 MR. CULLEY: Great.

7 THE HEARING OFFICER: We'll probably break in
8 the next 10 or 15 minutes.

9 MR. CULLEY: Thank you for that heads-up. I
10 appreciate that.

11 BY MR. CULLEY:

12 Q. Okay. So, let's start--actually, just with the
13 comment you just made, this phenomenon of residual heat. Is
14 that a phenomenon that's confined to residential class?

15 A. It's not a phenomenon.

16 Q. It's not a phenomenon. But would you say that
17 whatever it is is confined to residential class?

18 A. No, it is not.

19 Q. Okay. Let's move on to page .1 of your rebuttal
20 testimony. Okay. So, you state that you've worked at RMP for
21 33 years now and your current title, director of engineering
22 standards and technical services. And when did you assume
23 the duties of this position?

24 A. In the spring of 2012.

25 Q. And what was your previous title with RMP

1 immediately before that?

2 A. I was the director of smart grid.

3 Q. Director of smart grid. And when did you begin that
4 position?

5 A. The previous year--

6 Q. Do you happen to know what--

7 A. --2011. I think it was about June, July.

8 Q. Okay. So, it was hot out.

9 A. Yeah.

10 Q. So, can you give a brief overview of your general
11 duties as director of smart grid?

12 A. The position of director of smart grid actually
13 evolved from my previous position before that was--which was
14 the director of metering assets and technology. So, with the
15 increase in interest in smart grids and smart grid technologies
16 as--coupled with the requirements of several State commissions
17 to file annual or biannual smart grid reports, it became a point
18 that we felt it necessary to create a department to specifically
19 look at those issues.

20 Q. Okay. Great. And, currently, does the director of
21 smart grid report to you or does that position evolve into your
22 current position?

23 A. It has evolved into my current position. There is a
24 manager of smart grid.

25 Q. Okay. Manager of smart grid.

1 So, you state here on line 12 that you--"I oversee
2 all non-routine technical studies including"--I'm
3 sorry--"distributed generation, power quality, and smart grid
4 reports." Is that correct?

5 A. That's correct.

6 Q. And do your duties to oversee all non-routine
7 reports extend to reports that are conducted in other
8 jurisdictions?

9 A. Yes. In some cases, it does.

10 Q. Okay. And in overseeing these reports, do you
11 have a hand in developing and designing the studies?

12 A. Yes, depending on the study.

13 Q. Okay. And selecting the team that's going to do the
14 study.

15 A. Yes.

16 Q. Okay. Great. And would you--when you say
17 "non-routine," does this mean the reports are typically more
18 conceptual or more white papers or how would you describe it?

19 A. There are reports that are white papers. There are
20 reports that are conceptual. There are reports that deal with
21 specific problematic issues--

22 Q. Okay.

23 A. --I do work on.

24 Q. So, would you agree that reports like this that you
25 oversee would be more generally applicable developing

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company-wide policy?

A. They could be, yes.

Q. Okay. And do you agree with, I guess, your CEO, that evaluating the need for upgrades in specific locations is a matter that occurs fairly routinely.

A. Yes, it does. It's a different department.

Q. Sure. Okay. Let's look on page .2 of-- sticking with rebuttal here, line 36. The question is asked, "Has Rocky Mountain Power studied the impacts or potential benefits or impacts of large penetrations of conventional rooftop solar in its service area?" So, is it your understanding that this question refers to grid or operational impacts as opposed to the customer impacts that are alleged in this--in the application?

A. The question was kind of open-ended. I assumed it was talking about any study that we had done.

Q. Okay. And in answering this question, you state, on line 39, that, "Yes. In 2011, the Company completed a study to evaluate the viability of rooftop solar and its ability to offset utility infrastructure upgrades" Would you consider the ability to offset utility infrastructure upgrades an issue of systemwide relevance for the Company?

A. Yes.

Q. And would you agree that a report on this topic would be the sort of non-routine technical study that you might be charged with overseeing?

1 A. Depending on the nature of the study requested,
2 yes.

3 Q. Okay. And was this study, in particular, the one
4 that was attached to your testimony, one that you oversaw?

5 A. Yes, it was.

6 Q. Okay. And is it fair to say the knowledge you have
7 to gain from a study like this is whether solar might provide
8 some benefit across the system in offsetting utility upgrades?

9 A. Yes.

10 Q. And if you wanted to develop a study that is
11 informative to the Company system as a whole, would you want
12 that study to consider the conditions under which an upgrade
13 might be deferred?

14 A. Yes.

15 Q. And you agree with Mr. Walje that these factors
16 that drive these upgrade decisions are location-specific.

17 A. Yes. What drives an upgrade is a location-specific
18 item.

19 Q. Okay. And do you agree each circuit is fairly
20 unique and might have its own time of peak, its own class
21 characteristics?

22 A. No, not each circuit. I mean, when you look--when
23 you start to model the system as a whole and then you look at
24 the individual elements, they have similarities that can be used
25 on other applications.

1 Q. Okay. But would you agree that each circuit may
2 have unique amount of customer class--amount--unique amount
3 of customers on that circuit?

4 A. Yeah. They all have a unique number of
5 customers.

6 Q. Okay. I'm sorry. Let me rephrase that. So, if
7 you're looking at the mix of residential to commercial
8 customers--

9 A. Okay.

10 Q. --on a circuit, each circuit might have a different
11 contribution to peak from those classes?

12 A. If I understood your question correctly, you asked
13 that each class has a different characteristic depending on the
14 circuit in which it's connected.

15 Q. Okay. Let me--maybe we need to rephrase this.

16 A. Yeah.

17 Q. We're getting down the wrong rabbit hole.

18 And, so, you would agree that circuits on the
19 system peak at different times.

20 A. If you get down to finite numbers, yeah. We're
21 talking minutes. We're not talking several hours of difference--

22 Q. Okay.

23 A. --depending on the circuits.

24 Q. But if a circuit was mostly commercial load,
25 wouldn't you expect that to peak near midday, closer to noon or

1 1:00 or 2:00?

2 A. It depends on the type of commercial use.

3 Q. Okay.

4 A. Depending on the characteristic of the commercial
5 customer, its load will peak at various times of day, depending
6 on what kind of processes and equipment they run inside there.

7 Q. And that's something you would want to study and
8 determine whether an upgrade would be required down the road.

9 A. We wouldn't study individual customer classes. We
10 would study the circuit as a whole to see when it's reaching its
11 overload capacities and when we need to deal with the issue.
12 We're not dealing with the individual customer characteristics on
13 that circuit to determine whether an upgrade is needed. The
14 characteristics of the circuit as a whole need to be taken into
15 account. You need to look at when does this circuit peak, what
16 is the manner I have to design this circuit for. If it's 100 percent
17 residential, yes, it will be a little bit different than if it's 100
18 percent industrial.

19 Q. And in a general matter, if you're to design a study,
20 would multiple circuits and multiple substations, you know,
21 provide more informative value to the extent that some may be
22 similar to others in your system?

23 A. Yes. It would give you more value.

24 MR. CULLEY: Okay. At this time, I'd like to pass
25 out a cross exhibit. Have my co-counsel distribute this.

1 THE HEARING OFFICER: We'll mark it as TASC
2 Cross Exhibit 1.

3 MR. CULLEY: Apologies in advance for the kind of
4 odd printing and flipping the pages around, so my apologies
5 there.

6 BY MR. CULLEY:

7 Q. So, you have that in front of you, Mr. Marx.

8 A. I do.

9 Q. Okay. And would you--subject to check, this is a
10 printout of a PowerPoint format document titled "2011 Integrated
11 Resource Plan"--at least the front page is--"Smart Grid Update,"
12 dated December 14, 2012.

13 A. Yes.

14 Q. And if you flip it over to what it's numbered as page
15 .5 on the PowerPoint presentation, which is page .3 of the cross
16 exhibit, see this slide is titled "Conservation Voltage Reduction."

17 A. Correct.

18 Q. And you're familiar with all the studies that have
19 been done on CVR.

20 A. Not all of them.

21 Q. Not all of them, but you're familiar with this general
22 process.

23 A. I am.

24 Q. Okay.

25 MS. HOGLE: Excuse me, Your Honor. I'm sorry. I

1 apologize. Can he just ask whether the witness is familiar with
2 this? I don't know what context this study will be used, so I just
3 want to make sure that Mr. Marx is familiar with it, first.

4 THE HEARING OFFICER: I'll just receive that as a
5 foundation objection.

6 Mr. Culley, will you pursue that, please?

7 MR. CULLEY: Sure.

8 BY MR. CULLEY:

9 Q. Mr. Marx, have you taken part in preparing smart
10 grid updates in your role as director of smart grid?

11 A. Yes.

12 Q. Okay. And in your current role, do you generally
13 follow the smart grid updates that are put out by the company?

14 A. I do.

15 Q. Okay. So, are you familiar with the 2011 integrated
16 resource plan smart grid update that's before you?

17 A. I'm familiar with the smart grid update that I believe
18 was used for the integrated resource plan. I am not familiar
19 with the IRP in its entirety.

20 Q. Okay. That's fair.

21 Now, are you familiar with--as we said, the CVR,
22 you're not familiar with all of them, but are you familiar with the
23 initial study that was undertaken in Washington State?

24 A. I am familiar with it.

25 Q. Okay. Great. And would you agree that--if you turn

1 to page .5 on the second bullet, that this says, "To study the
2 realistic value of CVR, four Washington circuits from the initial
3 study were chosen for the 2012 pilot study"?

4 A. I'm familiar with that.

5 Q. Okay. And down to the third bullet, are you familiar
6 with the second phase of the CVR study, where they expanded
7 the number of circuits they were looking at?

8 A. I am.

9 Q. Okay. Great. And if I read this correctly, it says
10 the 25 Washington circuits were examined for potential savings.

11 A. Correct.

12 Q. And nine circuits were viable for CVR application.

13 A. Yes.

14 Q. And, then, the last bullet says, "High-level CVR
15 viability screening of 40 percent of distribution circuits." And
16 each State was completed. Was this completed in Utah?

17 A. No. This was a specific team, Washington. What
18 we did was just a cursory review of each of the circuits. It was
19 a recommendation, but it was not implemented in its entirety.

20 Q. Okay. And I think we can skip some material.
21 Would you agree that from a 40 percent of distribution circuit
22 screening, that eventually the Company did 100 percent
23 circuits?

24 A. I think there's a point to be made here, because
25 when you're looking at conservation voltage reduction, you're

1 looking at reductions in energy usage. You are not finding
2 reductions in peak demand. And I think that's the issue we're
3 discussing, if I'm not mistaken.

4 Q. Sure. But in terms of developing a company-wide
5 policy of this--this study went about it in a certain way. Would
6 you agree?

7 A. Correct. The study went about it in a certain way.

8 Q. And at the very end of the day, it developed a
9 screening tool that was applied to 100 percent of its distribution
10 circuits. Is that correct?

11 A. It never did go to 100 percent of its distribution
12 circuits.

13 Q. But a pretty substantial percentage.

14 A. A substantial portion.

15 Q. Okay. That's fair. I'll take that.

16 THE HEARING OFFICER: Mr. Culley, is it a good
17 time--

18 MR. CULLEY: Perfect time.

19 THE HEARING OFFICER: --is it a good time for a
20 break?

21 MR. CULLEY: Perfect time. Thank you,
22 Commissioner.

23 THE HEARING OFFICER: We'll be in recess until
24 25 minutes to the hour.

25 (Recess taken, 10:29-10:36 a.m.)

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THE HEARING OFFICER: Mr. Culley. We're on the record.

MR. CULLEY: The microphone's--

THE HEARING OFFICER: Let's be off the record.

(A discussion was held off the record.)

THE HEARING OFFICER: We're on the record.

Mr. Culley.

MR. CULLEY: Thank you, Commissioner.

BY MR. CULLEY:

Q. Mr. Marx, let's take back to your rebuttal testimony, page .2. We had already quoted this, but you said that the purpose of the study, the solar pilot study, was to, quote, evaluate the viability of rooftop solar and its ability to offset utility infrastructure upgrades. Is that correct?

A. Yes.

Q. And you know that through firsthand knowledge.

A. Yes.

Q. Okay. And did you personally select the team used for this study?

A. For the roof solar study?

Q. Uh-huh (affirmative) .

A. Yes. Yeah. For the most part, yeah.

Q. And did the team include any engineers?

A. Yes, it did.

Q. So, this was a GIS team.

1 A. It was a cross-department effort using our GIS
2 crews who looked at the geo-spatial data that can be used for
3 this kind of a study. We used our engineers, who are very
4 familiar with distribution engineering, as well.

5 Q. Okay. But in terms of who prepared the study, it's
6 just listed as three of the GIS personnel. Is that correct?

7 A. Correct.

8 Q. Okay. And I think you would agree that GIS folks
9 are pretty good at, you know, mapping available rooftops and
10 accounting for spatial factors like shade.

11 A. Our guys are very good at it.

12 Q. Uh-huh (affirmative) . And this--you'd stand by, with
13 a lot of confidence, that the solar output modeling was good and
14 accurate.

15 A. Yes.

16 Q. Okay. Was the purpose of this study to specifically
17 evaluate the ability of the modeled solar to offset upgrades to
18 the Northeast 16 circuit?

19 A. This study was, yes, with the intent of extrapolating
20 that to a wider group.

21 Q. Okay. Well, I've distributed a--during the break, a
22 second exhibit. I would ask that that be marked--identified at
23 this time.

24 MR. PLENK: Counsel has this, but not the
25 commissioners.

1 THE HEARING OFFICER: Thank you. We marked
2 as TASC Cross Exhibit 2.

3 BY MR. CULLEY:

4 Q. And again, Mr. Marx, you would be familiar with
5 smart grid annual reports--

6 A. Yes.

7 Q. --I imagine? Okay. So, let's take a look at just a
8 few spots in this document. If you turn to the second page of
9 the exhibit and step down to the third paragraph, it says,
10 "PacifiCorp has performed studies to evaluate potential sites for
11 solar installation and continues to work with customers, city
12 officials, and other stakeholders interested in connecting
13 distributed generation systems to the Company's electric grid."
14 And you would agree that the smart grid solar pilot study in your
15 testimony is just one study, right?

16 A. Yes.

17 Q. And would you agree that the copy of the smart grid
18 solar study in your testimony is a full representation of the study
19 prepared by the Company?

20 A. It's a representation of the study.

21 Q. Okay. And does the study, as it is attached to your
22 testimony, address a discussion of the cost of solar panels?

23 A. Not the study itself.

24 Q. Okay. Is there more than one study related to the
25 Northeast 16 circuit that was conducted by the smart grid

1 group?

2 A. In regards to solar or just in regards to system
3 upgrades?

4 Q. In regards to the stated purpose of this study,
5 which was to look at the ability to offset upgrades.

6 A. This was the only solar study that looked at
7 Northeast 16. There are other studies that looked at the load
8 growth in the area and the required remediations for that load
9 growth.

10 Q. Okay. So, we step down another paragraph, the
11 report provides more detail on this single study. It says,
12 "PacifiCorp performed a detailed study on a distribution circuit
13 in Salt Lake City to determine the viability of distributed solar
14 generation in an urban setting. The evaluation included
15 identifying the percentage of rooftops within the study area that
16 were viable for solar panel installations, total project cost to
17 install solar panels, and the required metering infrastructure."

18 A. Yes.

19 Q. And, so, I read that correctly. Does this sound like
20 an accurate description of the study goals and methods that you
21 describe?

22 A. Of that--okay. Let me make sure I understand. If
23 you're referring to this study (indicating) --

24 Q. Uh-huh (affirmative) .

25 A. --okay--this study didn't go into the cost. After this

1 study, we started looking into the cost. We started looking at
2 the applications. So, that study in and of itself did not--we used
3 that study as a springboard to perform other analysis in the
4 area, and thus the chart we used when we started looked at
5 circuit loading.

6 Q. Okay. And the study you held up has several
7 appendix--or appendices that gives some data on how the study
8 was--or the assumptions used and the numbers used in the
9 study, correct?

10 A. Correct.

11 Q. And for this other, I guess, analysis you state, is
12 any data or supporting information given in the record for that?

13 A. I don't believe so, no.

14 Q. Okay. So, turning to the next page of the cross
15 exhibit, there's a figure which should be familiar to everyone.
16 And this is titled "Figure 6." And this is substantially the same
17 chart that appears in your rebuttal testimony, with a few
18 changes to the text. Would you agree?

19 A. Yes.

20 Q. And would you agree, if you flip to the next
21 page--two pages, actually--correct that--it would be the seventh
22 page of the cross exhibit--
23 that this same chart appears in the 2014 smart grid report?

24 A. Yes.

25 Q. And do you still oversee the compilation of these

1 reports?

2 A. Yes, I do.

3 Q. Now, turning to the last bit of this exhibit, it's the
4 Smart Grid Annual Report for 2012, which is dated June 29, but
5 I believe for locating this in that--in the docket, it
6 would--because it was a correction that was later filed. And, so,
7 you would agree on this last page, this is, again, the same chart
8 that appears in the 2012 update.

9 A. Yeah. I'll take your word for it. It's the same chart
10 we've been using, yes.

11 Q. Okay. Are you aware of whether this was submitted
12 to the Commission and whether comment was provided by
13 parties on this?

14 A. I know the report was filed with the Commission
15 and I know in the report that there were comments filed on it,
16 yes.

17 Q. Do you recall whether the Office filed comments?

18 A. I do not recall who all filed comments, no.

19 Q. Okay. Do you recall any party raising the question
20 of whether this study submitted any evidence of cost of metering
21 or--cost to the utility?

22 A. I don't recall that, no.

23 Q. Okay. So, let's turn back now to page .2 of your
24 rebuttal, starting at line 41, where you state that, "We selected
25 a single distribution circuit located near the University of Utah

1 campus in Salt Lake City, Utah, for the study. This area has a
2 very modest annual load growth of 2 percent and was an ideal
3 candidate, as it has a diverse mixture of residential and
4 commercial customers." So, when you say this was an ideal
5 candidate for the study, are you saying that it was a good case
6 study that could be relied upon to form company-wide policy?

7 A. Yes. It could be relied upon to form the basis, yes.

8 Q. Okay. So, in other words, would the results of a
9 study on this circuit be informative to the Company on a broader
10 basis as it looked at the question of deferring upgrades?

11 A. Yeah. I think we could use it for that purpose.

12 Q. And would the relevant criteria for that circuit be
13 looking at when the circuit experiences its peak demand?

14 A. Again, there's some variability amongst the circuits
15 depending on the customer mix. You know, you look at this
16 specific circuit with its mix of residential and commercial. It
17 may not be representative of a circuit that's 100 percent
18 industrial or commercial or one that's largely populated with
19 residential.

20 Q. And in your estimation, would this area, the study
21 area, be one that is heavily populated residential?

22 A. It's pretty heavy, yeah. It's not--yeah, it's pretty
23 heavy.

24 Q. And would you accept, subject to check that
25 according to U.S. Census data, it's the--the ZIP code for the

1 study area included is the most dense in terms of population in
2 all of Utah?

3 A. Yeah. I'll accept that.

4 Q. And do you still characterize that study area as
5 typical of the system?

6 A. Typical as far as rooftop solar production goes,
7 yes.

8 Q. And would you agree that the study you held up
9 that's in your testimony, that it does not identify the amount of
10 solar production that would need to occur at the time of circuit--
11 to offset infrastructure upgrades?

12 A. Can you say that one again?

13 Q. So, the study does not identify a target number for
14 solar production that would have actually offset an upgrade on
15 that--

16 A. Oh. No, it does not.

17 Q. And would you agree that the, quote, viability of
18 using solar to offset upgrades would involve an analysis of the
19 cost of installation versus the benefit it produced?

20 A. I'm not sure how to answer the question, because
21 where I look at a distribution circuit, I'm looking at the peak
22 loading requirements. I'm not looking at the energy production
23 of the solar panels. And even on this circuit here, if I was to
24 take these panels and tilt them to the west to maximize the
25 offset of peak demand, it's not significant enough to change my

1 design parameters. So, I'm not sure how the energy plays into
2 this.

3 Q. But you would agree that the only information about
4 circuit peak in the study is Figure 8? We're back just to the
5 study that's in the record here.

6 A. That's--yeah, that's the only chart that shows
7 contribution to circuit peak.

8 Q. Okay. Does that show that solar production is
9 minimal at the precise hour the circuit peaked on August 2,
10 2010?

11 A. It does.

12 Q. And the solar study--let's see--so, looking on page
13 .13--

14 MR. COLEMAN: I'm sorry. Page .13?

15 BY MR. CULLEY:

16 Q. Yeah. I'm sorry. Let me be specific there. Page
17 .13 of the solar study that is attached to your testimony,
18 DLM-1R. So, the last paragraph says, "However, distribution
19 system peaks do not occur on the same day as solar insolation
20 peaks." And would you agree that the chart--the figure under
21 there shows days and not hours?

22 A. Yes. That's the annual load curve for that circuit.

23 Q. But it says distribution load peaks occur on or
24 about August 2, 2010--

25 A. Correct.

1 Q. --and that the peaks usually occur within two
2 weeks. But does it give an hour that those peaks occur?

3 A. It does not.

4 Q. So, are you aware of--or maybe you have already
5 indicated you're aware of this other analysis, but can you
6 provide a little more detail on when that analysis occurred that
7 looked at the actual hour--hourly peak information of that
8 circuit?

9 A. When did we do the analysis to compare with the
10 circuit?

11 Q. Uh-huh (affirmative) .

12 A. We did it roughly the same time we actually did the
13 report itself.

14 Q. Okay. So, that was not included in--

15 A. It was not included in the report.

16 Q. So--

17 A. We talked it occurs on August 2. We're not specific
18 on the hour that it hit.

19 Q. Okay. So, is it your opinion that the solar output
20 model that--was determined here is only relevant to that circuit,
21 or is it relevant company-wide?

22 A. The solar output for that circuit is the same across
23 Utah. I mean, it's dependent on the daylight availability in
24 different geographic areas in Utah. And that only varies plus or
25 minus ten minutes east to west in the State.

1 Q. Okay. So, would this model be helpful in verifying
2 similar analyzes on other circuits?

3 A. Yes, it would be. You can see the best case solar
4 is in the middle of the day.

5 Q. Okay. And if solar could be shown to have a strong
6 location with, we'll say, 9 out of 25 circuits, might that be
7 something that would be worth studying for?

8 A. Yeah, if we could find that.

9 Q. Okay. Would you recommend that the Company
10 undertake this kind of analysis when it does its load research
11 later, as indicated in this proceeding?

12 A. I don't think I can make that recommendation one
13 way or the other, because you're talking about an area of load
14 research that's used in general ratemaking, that I'm not familiar
15 with how we do those samples and selections.

16 Q. Okay. But would this be the kind of analysis that
17 would be relevant and potentially useful to look at in a
18 cost-benefit analysis of the entire net metering program?

19 A. Yeah. Sure.

20 Q. And would you agree that if solar does correlate
21 well with specific circuits or substation peaks, that even the
22 smallest net metering system provides some reduction?

23 A. It provides--I'll agree with that on the basis that you
24 assume that you consider the fact that it's not available 100
25 percent of the time, nor 100 percent time when a system may

1 peak on a cloudy day.

2 Q. And if you added up all known solar circuit or
3 substation, you would be able to estimate the potential
4 reduction when all things are working.

5 A. You could.

6 Q. Okay. Let's back up for a minute. I think I'm able
7 to trim this down quite a bit, so I appreciate you . . .

8 So, on page .3 of your rebuttal, starting around line
9 56, you describe how this study came about in response to an
10 upgrade project at Northeast Substation. And does the
11 Company's analysis show solar contribution to peak at Northeast
12 Substation?

13 A. In best-case solar, it does.

14 Q. Do you happen to know if the--when measured at
15 substation level, that the peak occurs at the same time or is it
16 possibly earlier in the day?

17 A. It seemed to be really close. I don't know--I don't
18 have the substation data with me to tell you exactly what it is,
19 but there's an interesting point there when you bring up the
20 measurements at the substation level you're talking about four
21 individual circuits coming off of this.

22 Q. Uh-huh (affirmative) .

23 A. And you're talking about the contribution--the mix
24 on all of those are going to be relatively the same, because
25 they're in the same geographical area. So, I would say the

1 contribution of that level's going to be about the same in that
2 the particular peak's going to be--the substation peak's going to
3 be relatively the same time, as well.

4 Q. Okay. And if this were a circuit that was a more
5 mixed load--so, say two of the circuits were heavily
6 commercial--that's going to shift the substation peaks earlier in
7 the day, won't it?

8 A. It's could shift it. I'm not going to say it's earlier or
9 later in the day without the precise data. It depends on the load
10 characteristics of those commercial customers.

11 Q. Sure. I would agree with that. I think I just want to
12 hit one last point. You mentioned--let me find it in your
13 testimony. This is responding to something you said earlier.

14 Okay. On page .7 of your rebuttal, question is
15 asked on page .135 that--"What other experience does Rocky
16 Mountain Power have with large penetrations of solar or other
17 renewable resources?" And you give a couple of anecdotes
18 from Oregon. Is that correct?

19 A. That's correct.

20 Q. And, so, these are--would you consider these fairly
21 large systems, 500 kW and 363 kW?

22 A. Yes. They are large systems.

23 Q. Okay. And are you aware what the average
24 residential net metering system is, as established by the record?

25 A. I remember reading it. I don't remember the

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precise number. It's pretty small.

Q. Ballpark of two to three kilowatts--

A. Yeah. It sounds right.

Q. And do you recall answering--maybe say if you did answer--this data request for TASC that asked about these two examples?

A. Yes. I did answer a data request.

MR. CULLEY: It might be helpful if I just hand this out as another cross exhibit. And portions of it are in the record--are already attached as an exhibit to surrebuttal, but I'll go ahead and hand this out.

THE HEARING OFFICER: Off the record.

(A discussion was held off the record.)

On the record.

MR. CULLEY: Okay. Great.

BY MR. CULLEY:

Q. So, I guess it might be helpful to have two things in front of you. One would be your rebuttal on page .7. And if you could turn the exhibit that's just handed to you, TASC Data Request No. 11--

A. I wasn't given an exhibit.

Q. Oh, you weren't? I'm sorry.

MR. PLENK: My apologies.

THE WITNESS: I have been.

MR. CULLEY: Okay. Great. Thank you.

1 MR. COLEMAN: Just to be clear, we're talking
2 about Data Request 2.11.

3 MR. CULLEY: Yes. Data Request--TASC Data
4 Request 2.11.

5 BY MR. CULLEY:

6 Q. So, on line 139 of your rebuttal--start there--you
7 say, "Pacific Power has incurred the cost of replacing
8 distribution systems transformers to accommodate increasing
9 numbers of"--"levels of NEM customers in its service territory.
10 The primary reason for the need to replace transformers was the
11 absence of a primary neutral connection on the existing
12 transformer [sic]."

13 And in that Data Request 2.11, TASC asks the
14 question, "Is replacing the transformer with no primary neutral
15 connection required in each of those jurisdictions?" and--which
16 you answered, "Yes." Is that correct?

17 A. Yes.

18 Q. And, then, when asked what levels of NEM
19 penetration has Pacific Power had in Oregon, California,
20 Washington, you provided a table below, which shows Oregon
21 has 1.3 percent of--as a measure of capacity as percentage of
22 system peak demand, California is at 1.9, and Washington is at
23 0.2 percent. Do you happen to know what the current
24 penetration is for Utah for net metering customers as a measure
25 of peak demand?

1 A. I do not know that.

2 Q. Okay. And then, in Question C, or subpart C of
3 2.11, it's asked, "If a transformer placement is required to
4 accommodate interconnection of a NEM system, does the
5 customer or utility pay the cost for placing the transformer?
6 And please answer for each of Pacific Power's jurisdictions."
7 And you answer for each that the customer does pay for the
8 transformer to operate. Is that correct?

9 A. Yes. That's correct.

10 Q. And is that also the case in this jurisdiction, that
11 interconnection customers will pay the cost?

12 A. If a transformer upgrade is required, yes.

13 Q. And just one last question: In terms of voltage
14 regulation, is this something that could be addressed in IEEE
15 standards that are being developed for smart inverters?

16 A. It's addressed right now in IEEE 1547.

17 Q. But, currently, smart inverters are not included in
18 that for use. Is that correct?

19 A. That's correct.

20 Q. But that process is ongoing.

21 A. It is.

22 Q. And the Company is keeping itself informed of
23 when this might change.

24 A. Yes, we are.

25 Q. And would you agree that when this becomes a

1 reality and smart inverters can be used, some of these voltage
2 problems are not going to exist anymore?

3 A. I can't agree to it, because I'm assuming--in that
4 context, I would have to assume that the customer's equipment
5 is operating as intended. And I don't have to put in any kind of
6 conditions for the eventual problematics we saw. That's the--like
7 you said, the anecdotal evidence we gave in the State of
8 Oregon is that failure of customer equipment that caused
9 problems on my distribution system that we needed to mitigate.

10 Q. Sure. So, that's just maybe the price of doing right
11 business, right? We expect things to fail every now and then,
12 as a small percentage.

13 A. Yeah. You do expect things to fail. And they do
14 fail.

15 Q. So, let's see. If--smart inverters can provide a
16 benefit in that regard. Would you agree with that?

17 A. Yeah. I think smart--absolutely, smart inverters can
18 provide a benefit.

19 Q. And do you have any projection of when--what level
20 penetration Utah would need to see before you're going to have
21 the same problems you've identified anecdotally here in
22 Oregon?

23 A. No. I have no projections on that.

24 Q. Okay. So, it's possible that by the time Utah
25 reaches significant penetration the landscape has changed and

1 smart inverters are commonplace.

2 A. It's possible. Yes.

3 MR. CULLEY: Thank you. I have no further cross.

4 THE WITNESS: Okay.

5 THE HEARING OFFICER: Ms. Roberts, your
6 witness.

7 MS. ROBERTS: Thank you very much.

8 EXAMINATION

9 BY-MS.ROBERTS:

10 Q. Good morning, Mr. Marx.

11 A. Howdy.

12 Q. I'd like to ask one follow-up question relating to
13 TASC Cross Exhibit No. 3, which I believe you still have in front
14 of you. That's the data request.

15 THE HEARING OFFICER: Let me just note for the
16 record, I haven't marked it. Do you intend to offer it, Mr.
17 Culley? I--

18 MR. CULLEY: Yeah. Sorry, Commissioner. I
19 would like to have that marked. I'm sorry.

20 THE HEARING OFFICER: We'll mark it as TASC
21 Cross Exhibit 3. Thank you.

22 MS. HOGLE: I'm sorry. Your Honor, I do not
23 believe Mr. Culley has submitted any of these into evidence. He
24 has just--

25 THE HEARING OFFICER: Not yet.

1 MS. HOGLE: Okay.

2 MR. CULLEY: Commissioner, do you prefer that I
3 do that now or is that commonplace to do at the end of the
4 witness's testimony?

5 THE HEARING OFFICER: I think now's entirely
6 appropriate. You've concluded your cross, so you offer all three
7 of them into evidence and--

8 MR. CULLEY: I would move to have all three
9 exhibits marked, 1, 2, and 3, into evidence.

10 THE HEARING OFFICER: All right. Any
11 objections?

12 MS. HOGLE: Yes, Your Honor. I have an objection
13 as to, I believe, Cross Exhibit 1 and 2. The reason being is
14 that, for example, if you look at his Cross Exhibit No. 2, there
15 are numerous pages to these smart grid reports that are
16 missing. I believe there's a page here, No. 59--if he provides
17 the entire studies, I would have no objection; but otherwise, I
18 have an objection to just pulling out a few excerpts given
19 anything that--that is offered that is not in its full entirety could
20 be taken out of context.

21 And the same thing with his Cross Exhibit No. 1, I
22 believe. I note for the Commission several pages are missing.
23 And I'm not sure that Mr. Culley asked any questions in regards
24 to the minutes that are attached to that cross Exhibit No. 1.

25 Those would be my objections. Thank you.

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THE HEARING OFFICER: Thank you.

Mr. Culley.

MR. CULLEY: I would certainly concede anything I did not use on cross to be--not be included. But as a convenience, these are voluminous documents that are filed in the Commission's, you know, docket website, which could be--I could provide links to those if that would be acceptable.

THE HEARING OFFICER: I think that depends on your purpose, but if you're intending for the Commission to consider those aspects of the documents that you used in cross-examination exclusively, then we can receive them on that basis. And is that acceptable? Is that your intent?

MR. CULLEY: Yes. Yes, Commissioner.

THE HEARING OFFICER: And, so, we'll consider only those portions that were addressed by the witness and the--and counsel. And those-- they'll be received in evidence for that purpose.

MR. CULLEY: Thank you, Commissioner.

THE HEARING OFFICER: Ms. Roberts.

MS. ROBERTS: Thank you very much, Commissioner.

BY MS. ROBERTS:

Q. Referring to TASC Exhibit 3, which is the data request and back to the Company's response to TASC Data Request 2.11 and the table showing the net metering



1 penetrations for California, Oregon, Washington.

2 A. Okay.

3 Q. Okay. Mr. Culley asked you whether you knew what
4 Utah's penetration was on this same criteria as listed in this
5 table. And you weren't sure of that answer. Do you know how it
6 compares to the level of net metering penetration in these
7 States? Is it lower? Is it higher?

8 A. I really don't know, to be honest with you, if it's
9 lower or higher. I don't know what the total--what we have to
10 look at is the total nameplate rating of all the systems installed
11 that we have record of, which I don't have at my hands here.

12 Q. Okay. That's fine. Thank you.

13 You use the phrase "conventional rooftop solar"
14 several times in your rebuttal testimony.

15 A. Uh-huh (affirmative) .

16 Q. What do you mean by "conventional"?

17 A. To me, that's rooftop solar that's installed on the
18 same plane as the angle of the rooftop on which it's installed
19 and to maximize the annual energy production of that panel,
20 so . . .

21 Q. So, would unconventional roof solar be installed to
22 perhaps the west-facing maximize peak--

23 A. Yes.

24 Q. I also have questions for you related to this solar
25 pilot study which you and Mr. Culley were discussing and is

1 attached to your testimony. The distribution circuit highlighted
2 in that study, was it selected due to the need for the substation
3 upgrade or was it selected because of the characteristics you
4 mentioned, the modest annual load growth and so on?

5 A. It was selected because of the response from the
6 citizens in the city in the area stating that rooftop solar would
7 completely eliminate the need for a transformer upgrade. And,
8 so, we wanted to either prove or disprove that theory.

9 Q. Okay. On page .2 of your rebuttal testimony, you do
10 say that this area has very modest annual load growth of 2
11 percent, correct?

12 A. Yes.

13 Q. You also state on page .3 that the--on line 56 of
14 your rebuttal testimony that there was a need for a substation
15 expansion to address load growth.

16 A. Correct.

17 Q. So, there was--the--despite the modest load growth
18 in the area, there was a need to expand the substation.

19 A. Yes.

20 Q. And do you recall--and--because I don't think it's
21 referred to in that study--how many years out the substation
22 upgrade was anticipated to be required.

23 A. It was an immediate need.

24 Q. An immediate need. Okay.

25 And the substation involved in this study was the

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northeast substation.

A. Correct.

Q. Is that correct?

Okay. And does that substation serve other circuits besides this circuit that is discussed in your exhibit?

A. Yes, it does.

Q. How many other circuits?

A. I believe three.

Q. Three? Are they also primarily residential circuits?

A. As I recall the area, they're indicative of each other, yes.

Q. Okay. Thank you. So, the objective of this solar pilot study was to figure out whether you could install enough solar to avoid the substation upgrade, correct?

A. Yes.

Q. And as part of that study, did your GIS gurus give any consideration to orienting--to unconventional solar to orienting the panels to the west?

A. In the initial study, we did not, but subsequent to that, we've done preliminary estimates that show what would happen if we did tilt those to the west.

Q. Are those preliminary estimates part of the record in this case?

A. They're included in my rebuttal testimony on page .6.

1 Q. I see where that's discussed in your testimony on
2 page .6, but are there any exhibits documenting the Company's
3 evaluation of the different orientation of the panels?

4 A. No. I did not submit any exhibits.

5 Q. Okay. Thank you. On page .4 of your rebuttal
6 testimony, there's an unnumbered exhibit which you and Mr.
7 Culley were discussing earlier. And this figure shows a peak
8 reduction of 7 percent, correct?

9 A. With best-case solar, yes.

10 Q. Okay. Can you please direct me where in the
11 exhibit to your rebuttal testimony the 7 percent figure is
12 calculated?

13 A. I don't show the calculations for it.

14 Q. Are the data that one would need to re-create the 7
15 percent number be available in the exhibit to your testimony?

16 A. We have that data available. It is not in the
17 exhibits.

18 Q. Okay. And that data is not available anywhere else
19 in the record for this matter.

20 A. Not that I'm aware of.

21 Q. You mention that the load growth of the circuit was
22 about 2 percent per year.

23 A. (Moves head up and down.)

24 Q. Was that load growth in the peak or the overall load
25 growth? Do you recall?

1 A. We measure load growth at the peak because that's
2 how I size my system.

3 Q. Okay. Thank you.

4 MS. ROBERTS: At this time, I'd like to introduce
5 an exhibit.

6 Make sure the witness gets a copy.

7 UNIDENTIFIED SPEAKER: Yes.

8 BY MS. ROBERTS:

9 Q. I'd like to mark this document Sierra Club Cross
10 Exhibit No. 1. Mr. Marx, will you please let me know when
11 you've had a chance to review the exhibit?

12 A. Okay. I've looked at it.

13 Q. Would you please describe this exhibit, Mr. Marx?

14 A. It's data request from--looks like the OCS to Rocky
15 Mountain Power.

16 Q. And have you seen the spreadsheet that's included
17 in this exhibit before?

18 A. I have not, no.

19 Q. Looking at that spreadsheet and the preceding text
20 of the data request, the data included in the spreadsheet
21 provides information for various substations in Rocky Mountain
22 Power system and gives the peak date and time for each of
23 those substations, correct?

24 A. Yes.

25 Q. Okay. And I'd like to turn briefly, if you could,

1 these substations are listed in alphabetical order. If you could
2 turn to the northeast substation, which is--I told you the pages
3 aren't numbered, but I believe it's about five or six pages in.

4 A. Okay.

5 Q. Okay. The Northeast Substation and the column
6 headers have not carried over here, so this may require a bit of
7 flipping back, so take your time. But when did the peak occur
8 on the Northeast Substation in the summer of 2013?

9 A. It states on July 1, 2013, at 1600 hours.

10 Q. And 1600 hours is 4:00 p.m., correct?

11 A. Yes.

12 Q. And, so, this substation corresponds to the circuit
13 in your solar pilot study that's attached to your testimony.

14 A. Yes.

15 Q. So, the 4:00 p.m. peak for the substation is several
16 hours earlier than the peak for the circuit that is shown in the
17 figure in your rebuttal testimony on page .4, correct?

18 A. In 2013, the substation was--

19 (Reporter/witness discussion to clarify the record.)

20 THE WITNESS: It's--it shows the substation peak
21 in 2013 was earlier than the circuit peak was in 2010.

22 BY MS. ROBERTS:

23 Q. Thank you. That's correct. These are different
24 years of data.

25 Why might the substation peak occur earlier than

1 an individual circuit peak?

2 A. The loading characteristics of the substation,
3 the--there's numerous factors: customer usage, daily
4 temperatures, etc., you know, what preceding days heating
5 looked like.

6 Q. Can you please describe the impact of loading on
7 the other circuits and how that combined with a load on the
8 circuit that you studied to give you the substation distribution
9 peak?

10 A. The power transformer's metered separately and
11 independently of the circuits, so it's just coincidental data that
12 you see at the substation level.

13 Q. Okay. Thank you. So, your study showed that
14 solar--the maximum solar production reduced the peak load by 7
15 percent, correct?

16 A. On that day, yes.

17 Q. On that day.

18 And earlier we discussed that the increase in peak
19 load growth on that circuit was 2 percent per year.

20 A. Correct.

21 Q. So, wouldn't a 7 percent peak reduction offset over
22 three years' worth of load growth--of peak load growth for that
23 circuit?

24 A. Yes. It would defer for about three years.

25 Q. So, you could defer an upgrade for three years

1 based on a 7 percent reduction, in general.

2 A. Yes. If you had 7 percent reduction, yes. And it
3 was available all the time.

4 Q. Starting on page .4 of your rebuttal testimony, you
5 discuss a study that you undertook, or the Company undertook,
6 in an effort to validate the model. I'm going to refer to this as
7 the interval meter study.

8 A. Okay.

9 Q. Did the Company write up the results from the
10 interval meter study?

11 A. There was no specific report on it. What we looked
12 at was just to see where our assumptions for the peak time of
13 energy usage did validate what we saw in the model--

14 Q. Okay.

15 A. --and solar production, yes.

16 Q. Okay. And you state--this is on--
17 beginning on line 80--that, "We installed interval meters on
18 several NEM customers to measure their total solar production,
19 energy delivered to Rocky Mountain Power, and energy received
20 by the customer from Rocky Mountain Power." How many
21 customers were involved in this interval meter study?

22 A. Seven.

23 Q. Seven customers. And were these customers on
24 the same circuit?

25 A. No, they were not.

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Q. I should clarify my question: Were they on the same circuit as each other?

A. No, they were not.

Q. They were--okay. Were any of them on the circuit profiled in the solar pilot study?

A. No.

Q. But this interval meter study was designed or intended to validate the results of the solar meter study.

A. Yeah. To validate our assumptions in the output, yes.

Q. Okay. Were the seven customers all residential customers?

A. They were.

Q. And how did you select those seven customers to be included in the study?

A. Based on when they were putting in their rooftop solar system so that we could work with their electrical contractor to get a production meter installed at the same time. We did not go back and do any retrofits.

Q. Thank you.

In selecting those seven customers, did you make any effort to ensure that they were somewhat of a statistically valid sample of your net metering customers?

A. No.

Q. So, they could have had much larger or much

1 smaller solar panel installations than your other customers.

2 A. Oh, yes.

3 Q. And do you remember--you do discuss, beginning
4 here on page .5 of your rebuttal testimony, this data for when
5 their systems production peaked and when their consumption
6 peaked, correct?

7 A. Yes.

8 Q. One thing that's not in your testimony--
9 and I'm wondering if you recall this--is what their contribution
10 was at the system peak. You know, you give the 7 percent
11 figure relating to the other study. And I'm wondering if there's a
12 similar--
13 similar data regarding the percentage contribution to peak for
14 those seven customers from this study.

15 A. I don't remember calculating that. What we were
16 looking at was when does their peak occur. And that's all we
17 were looking at.

18 Q. Okay. So, it's possible that those customers' solar
19 production at the time of peak could have offset 80 percent.

20 A. No.

21 Q. It's impossible.

22 A. Not 80 percent peak.

23 Q. More than 7 percent?

24 A. Yeah. There was a few that would give you more
25 than seven.

1 Q. Okay. But these data aren't part of the record.

2 A. No, they're not, because, like you said, they're not
3 statistically significant. We just used it as a benchmark
4 measure, what the meter has, per se, to see what we could get,
5 make sure our assumptions were accurate, which they were.

6 Q. Does the Company have any plans to install--to do
7 further interval meter studies?

8 A. We actually do that all the time, as far as the load
9 research data. And--I mean, we do break that out according to
10 customer class--
11 residential, industrial commercial. If there's a rate tariff for a
12 customer class, we generally do a study to make sure that it's
13 valid, it's statistically significant, and it's valuable. And the
14 reason I did bring the chart for the residential load study for the
15 test case with me, just because it was of interest when it
16 showed the residential peaks on Utah residential load curve,
17 so . . .

18 Q. How many customers have interval meters--how
19 many net metering customers have these meters installed now?

20 A. I don't know that--the true number. I know we quit
21 collecting data on the seven that we had installed for my
22 purposes.

23 Q. So, data are available from the Company relating to
24 total generation, total consumption from some number of
25 customers.

1 A. For a finite period of time. We quit collecting the
2 data after we validated our model.

3 Q. The meters are still operational on the residences,
4 though.

5 A. I don't know if they still are or not.

6 Q. Okay. Thank you. I have a few more questions
7 relating to Sierra Club Cross Exhibit No. 1. And this relates to a
8 response that you gave Mr. Culley's question earlier about the
9 variation in when different substations peak.

10 A. Uh-huh (affirmative) .

11 Q. And I would just like--let's just turn to the first page
12 of this actual spreadsheet beginning with Substation 106 South.

13 A. Okay.

14 Q. And these substations are listed in alphabetical
15 order, so I haven't manipulated this spreadsheet in any way that
16 you can discern, correct?

17 A. Correct.

18 Q. Okay. Could you go down the list for the first, say,
19 half of this page and just indicate the times that each of these
20 substations peaked? If you could convert to the 12-hour clock
21 for the rest of us in this room, that may help. So, just read off a
22 dozen or so of the peak times for the substations.

23 A. And you want them in order? So, we have 4:00
24 p.m., 4:00 p.m., 3:00 p.m., 6:00 p.m.

25 Q. That's 4:00 p.m., isn't it?

1 A. 1800 hours?

2 Q. Oh, I'm sorry. I thought you were on the next line.

3 My apologies.

4 A. 1800 hours is 6:00 p.m.

5 Q. Absolutely.

6 A. And, then, we have 4:00 p.m., 4:00 p.m., 5:00 p.m.,
7 4:00 p.m., 4:00 p.m. Skip a couple. 4:00 p.m., 1:00 p.m. 5:00
8 p.m., 6:00 p.m.

9 Q. Okay. Thank you. Now, the circuit that you studied
10 in the solar pilot study that you and Mr. Culley were discussing--

11 A. Uh-huh (affirmative) .

12 Q. --the past-year exhibit, that peaked at
13 approximately 7:00 p.m., correct?

14 A. The circuit did in 2010, yes.

15 Q. The circuit in 2010 peaked.

16 That peak time is later than all of the other
17 substation peak times that you just read off this exhibit, correct?

18 A. Of the ones I read off, yes. I haven't read the
19 entire list, though, so I can't speak to the list in its entirety.

20 Q. Of course.

21 A. I'm sure you've looked at it.

22 Q. But is it fair to say that the 7:00 p.m. peak time on
23 that circuit is not necessarily representative of all of the
24 substation distribution peaks on your system?

25 A. I think it's fair enough, yeah.

1 Q. It's fair enough.

2 A. Like I said, I haven't looked at the entire list, so I
3 don't know how it comes in.

4 Q. Okay. But you're confident that based on that
5 single study, you can say that there are no distribution reduction
6 benefits for your entire system based on the study of that one
7 circuit.

8 A. Right. Remember, I'm not relying just on the fact
9 that it's a 7 percent reduction at that hour of the day. We also
10 look at the availability of that. I have to size for the demand
11 peak that will be seen on that circuit at any time of the year so
12 that I can maintain my voltage so that I can maintain the
13 customer's energy demands. That's what I'm designing for is
14 the peak of the system. So, if that solar system is not
15 contributing at the time of the peak, the time of the peak shifts
16 when solar production's not available--that's what I have to size
17 my distribution network. I can't size it based on energy
18 reduction. It doesn't work.

19 Q. So, your study did show a 7 percent energy
20 reduction on that day.

21 A. On a best-case solar, assuming every rooftop in
22 that area had solar production on it.

23 Now, you know, if you want to look at that as a
24 mandate and say that every customer on that circuit must have
25 it, that's what we are basically referring to in that study.

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Q. The Company's net--requested net metering facilities charge is not based on any estimates of the cost of adapting the electrical grid to handle export from net metering customers, correct?

A. I really don't know what's all embedded in that cost request.

Q. Have you quantified any cost to the utility of adapting the grid to handle distributed generation?

A. Not for Rocky Mountain Power. As I've said, we don't have the level of penetration that would require that yet. But talking to other utilities, seeing the challenges they face, we know there will be some challenges with that.

Q. Considering the current growth in net metering customers, has the Company estimated how many years it has before it reaches the penetration level experienced by these other utilities?

A. I have not, no.

MS. ROBERTS: Okay. Thank you. No further questions.

THE HEARING OFFICER: Ms. Hayes.

MS. HAYES: Thank you.

EXAMINATION

BY-MS.HAYES:

Q. Good morning, Mr. Marx. I just have a very few questions. You mentioned several time this morning that you

1 size your system for demand. And your estimates of demand
2 don't differentiate based on the attributes of specific customers,
3 do they?

4 A. Our load size will give you that information, yes. It
5 can tell you, but we don't on individual circuits break it down by
6 that category, no.

7 Q. Okay. And do your studies assume a diversity of
8 load, that is that not all appliances will be on at the same time
9 all--at--

10 A. Yes.

11 Q. Okay. And, then, the residential distribution peaks
12 are different from system peak. Is that correct?

13 A. That's correct, yes.

14 Q. And, then, at--let's see. At higher penetrations of
15 solar, would storage or demand response possibly help facilitate
16 the integration of higher penetrations of solar?

17 A. Storage will.

18 Q. But not demand response.

19 A. Demand response would be impartial to the source
20 of the energy.

21 MS. HAYES: Okay. Thank you. That's all.

22 THE HEARING OFFICER: Redirect, Ms. Hogle?

23 MS. HOGLE: I don't have any. Thank you, Your
24 Honor.

25 THE HEARING OFFICER: Questions?

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Thank you, Mr. Marx. You're excused.

THE WITNESS: All right. Thank you.

MR. ROSSETTI: Is it possible I ask follow-up questions, you know, redirect? Is that what it's called?

THE HEARING OFFICER: Redirect is for the counsel that is sponsoring the witness, typically, so . . .

Ms. Roberts, you--did you have something you--

MS. ROBERTS: It's a matter for the commission--I would simply like to move that Sierra Club Cross Exhibit No. 1 be moved into the record.

THE HEARING OFFICER: Any objections?

And, again, we'll receive these for the matters that were addressed by counsel with the witness.

Thank you.

Your next witness.

MS. HOGLE: The Company calls Ms. Joelle Steward.

THE HEARING OFFICER: Please raise your right hand. Do you solemnly swear that the testimony you are about to give shall be the truth, the whole truth, and nothing but the truth?

THE WITNESS: Yes.

THE HEARING OFFICER: Thank you. Please be seated.

JOELLE STEWARD, being first duly sworn, was



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examined and testified as follows:

EXAMINATION

BY-MS.HOGLE:

Q. Can you please state your name and place of employment for the record?

A. My name is Joelle Steward. I'm the director of pricing, cost of service, and regulatory operations for PacifiCorp.

Q. And as a witness in this case, did you prepare rebuttal and surrebuttal testimony in Phase II in this case?

A. Yes.

Q. With exhibits?

A. Correct.

Q. And do you have any changes--
(Dial tone interruption.)

THE WITNESS: No.

THE HEARING OFFICER: Off the record.

(A discussion was held off the record.)

THE HEARING OFFICER: We're on the record.

Go ahead, Mrs. Hogle. Thank you.

BY MS. HOGLE:

Q. And, so, if I were to ask you the questions in those two pieces testimony again here today, would your answers be the same?

A. They would.

1 MS. HOGLE: The Company moves for the
2 admission of the rebuttal and surrebuttal testimony with exhibits
3 of Ms. Joelle Steward.

4 THE HEARING OFFICER: Objections?

5 They're received.

6 BY MS. HOGLE:

7 Q. Ms. Steward, do you have a summary for the
8 Commission today?

9 A. I do.

10 Q. Please proceed.

11 A. Thank you. The summary encompasses my
12 rebuttal--my direct, my rebuttal, and my surrebuttal testimony in
13 support of the Company's net metering facilities charge. Rocky
14 Mountain Power is proposing to implement a net metering
15 facilities charge of \$4.65 per month for recovery of costs related
16 to the distribution system and customer services. The facilities
17 charge is an addition to the \$6 monthly customer charge agreed
18 to in the stipulation for all residential customers.

19 Alternatively, the Company is agreeable to
20 recovering these facilities costs through a charge based on the
21 installed facilities--facility size for each installation. This was
22 the approach that was proposed by the Office of Consumer
23 Services. The Company calculates this charge at a \$1.55 per
24 installed kW.

25 The proposed charge is applicable to only

1 residential net metering customers. The calculation of the
2 charge is shown in my exhibit RMP __JRS-1R. The need for the
3 charge is due to the residential rate structure in which a
4 significant portion of the fixed costs are recovered through
5 energy charges.

6 As a result of this structure, when net metering
7 customers reduce their usage and receive a kilowatt-hour credit
8 for the excess generation based on the retail energy rate, these
9 customers significantly reduce their contribution to the recovery
10 of the fixed cost. The recovery of these costs then shifted to
11 other customers through higher energy rates. These higher
12 energy rates further increases the compensation to the net
13 metering customer.

14 The Company is not proposing a similar charge for
15 nonresidential customers who are on net metering, because the
16 rate structures for these customers typically include demand
17 charges, which provide this recovery of a fixed cost related to
18 the distribution system and customer services.

19 As I've noted, the costs included in the proposed
20 charge are related only to the distribution system and customer
21 services. The calculation of the charge is based on the average
22 cost per residential customer for these services. The
23 distribution system costs are comprised of the substations, the
24 poles, the transformers, the wires, the meters, the service
25 drops. All of this infrastructure is necessary to serve these

1 customers.

2 The customer service cost in the charge are
3 comprised of the cost for meter reading, for billing, for
4 answering or responding to phone calls, customer
5 communications, processing payments, and providing online
6 access to accounts.

7 These costs do not go away with the existence of or
8 the growth in net metering. These distribution and customer
9 service costs are allocated to classes based on essentially three
10 drivers: the contribution to the distribution system peak; the
11 non-coincidental peak, which is the maximum usage for all
12 customers; and by the number of customers. None of these
13 costs are allocated or incurred based on overall energy usage;
14 however, the costs are entirely recovered through energy rates.

15 The current rate structure is heavily dependent on
16 energy rates for recovery of costs and were historically
17 developed for full requirement service. This essentially just
18 means that customers--full requirement service is where
19 customers take all their service from the utility and are not
20 self-generating, as well.

21 The rates, therefore, have been developed for
22 customers with these characteristics of taking all service from
23 the utility. The net metering customers, however, are not
24 similarly situated to the other residential customers because
25 they serve a portion of their usage through their own generation,

1 which is typically solar. These customers have a different load
2 factor and a different load shape than the average residential
3 customer.

4 The proposed net metering charge is essentially
5 designed to ensure that net metering customers pay as much as
6 the average residential customer for the distribution and
7 customer service cost. Even with the proposed charge, nearly
8 60 percent of these costs will be recovered through the energy
9 charge and 100 percent of the transmission and generation
10 costs will continue to be recovered through the energy charges.
11 So, even with the charge, the net metering customers continue
12 to receive a price signal and a significant benefit through their
13 reduced energy use.

14 Ensuring that net metering customers pay at least
15 as much as the average customer is fair because these
16 customers take from our system about the same amount of
17 electricity as the average residential customer, and therefore
18 the distribution infrastructure and the customer services are in
19 place and necessary to serve these customers. And as was
20 explained in--by Mr. Marx, the timing of the output of that solar
21 generation does not readily coincide with the timing of the
22 distribution system peaks which occur over the hours of 4:00 to
23 7:00 p.m., which is when the solar generation is rapidly
24 diminishing. Therefore, the system is still designed to serve that
25 maximum expected usage during the period.

1 However, because the costs are in the energy
2 charges, they are not recovered from the net metering
3 customers commensurate with the demands placed on the
4 distribution system, since they are not billed for their full energy
5 usage, but they are billed just for the energy net of the excess
6 generation.

7 While some parties argue that this reduction in
8 energy is similar to customers who undertake energy efficiency
9 efforts, a net metering customer's avoidance of a kilowatt-hour
10 purchase from the grid is not the same as a customer's
11 avoidance of kilowatt-hour of consumption by energy efficiency.
12 With energy efficiency, a customer avoids both consumption and
13 the purchase of electricity and generally reduces their
14 consumption at the time of the distribution peak, reduces their
15 maximum peak, or their non-coincidental peak--NCP, we call
16 it--and increase their load factor. Whereas, when a customer
17 adds contributed generation, purchases from the grid may be
18 reduced, but the total consumption may remain unchanged,
19 which the Company must be prepared to serve in the event of
20 cloud cover or an outage of the customer's facility.

21 Additionally, the customer's non-coincidental peak
22 may remain relatively unchanged, which can be seen in the
23 diagrams included in my rebuttal testimony. And this
24 non-coincidental peak drives the allocation of any distribution
25 investments, such as the secondary lines and transformers.

1 Several parties have argued that the Commission
2 cannot impose this charge at this time because there's
3 insufficient evidence that the costs exceed the benefit, as
4 required by Senate Bill 208. However, the Company believes
5 there is sufficient evidence, based on the Commission's own
6 finding about what costs and benefits can be reflected in
7 avoided cost. Mr. Duvall explains this in more detail; however, I
8 will summarize it to say that the avoided cost value for solar is
9 about 3 cents per kilowatt hour in 2015. This compares to a
10 retail energy rate that the net metering customer avoids or is
11 credited with, which ranges from 8.8 cents to 14.4 cents. This
12 results in a gap of about 6 to 11 cents that benefits would have
13 to exceed.

14 So, while the Company is not opposed to the
15 Commission undertaking a more detailed evaluation of the costs
16 and benefits for net metering the current gap between the
17 monetary value that customers receive for their generation and
18 the avoided cost value that the other--that other solar
19 generators receive is wide enough to support the conclusion
20 that the benefits of customer solar generation, particularly in
21 regards to the distribution system and customer services--
22 they do not exceed the costs; and therefore, adoption of a net
23 metering facilities charge at this time is appropriate.

24 The proposed \$4.65 per month translates to less
25 than 1 cent per kilowatt-hour in closing that gap of 6 to 11

1 cents.

2 The Company believes it's important to adopt this
3 change now--this charge now while the number of impacted
4 customers remains small but it is growing, and the level of cost
5 shifted to other customers is small. The Company is planning to
6 continue to study the impacts on the system and allocations due
7 to customer generation and may propose additional changes to
8 rates in the future. However, this additional data is not
9 necessary to support the proposed change at this time, which--
10 because these costs, which are limited to distribution system
11 and customer services, are supported by cost causation, and it
12 is therefore reasonable to adopt it at this time.

13 And that concludes my summary.

14 MS. HOGLE: Ms. Steward is available for
15 cross-examination.

16 THE HEARING OFFICER: Thank you.

17 MR. JETTER: No questions from the Division.

18 MR. COLEMAN: The Office has no questions.

19 Thank you.

20 THE HEARING OFFICER: Mr. Rossetti.

21 MR. ROSSETTI: Thank you.

22 EXAMINATION

23 BY-MR.ROSSETTI:

24 Q. First of all, thank you for responding to all of our
25 data requests.

1 A. You're welcome.

2 Q. I do have a couple of questions--well, more than
3 that, I suppose. Let's see how it goes. Would you please
4 briefly summarize the factors that have been used to determine
5 the \$4.65 charge? Feel free to skip over the elements
6 contributing to the total distribution retail costs. So, in your
7 spreadsheet, you show a number of factors such as
8 kilowatt-hours and that.

9 A. Correct. So, essentially, what we did is we
10 calculated the average cost per customer for all of these
11 facilities for the distribution facilities and for customer service
12 costs. We subtracted out the revenue we'll collect through the
13 \$6 customer charge, the remaining amount translates to 162
14 million, or \$18.19 per customer that we would need to recover
15 through the energy charges.

16 That's--\$162 million, if you take it over the total
17 kilowatt-hours, becomes 2.6 cents per kilowatt-hour in all energy
18 rates, recovers for distribution and customer service costs. So,
19 we then took that, applied to the--the energy--forecast energy
20 net billed energy we would receive from net metering customers
21 to determine what the deficiency is that net metering customers
22 would not be paying compared to the other residential
23 customers.

24 Q. Okay. Thank you. So, the--what would you ask for
25 to completely recover the fixed cost? I believe in your testimony

1 you said that this doesn't recover it all but it recovers a certain
2 portion of it. Is that--was that a correct--

3 A. Correct, because we still assume that we're getting
4 recovery of a portion of these costs through the energy usage
5 that is being billed to net metering customers. So, we've not
6 tried to double-count. We've tried to take into account that we
7 will be getting recovery through some energy charges, but not
8 enough.

9 Q. Is there any intention to increase that in the future
10 to more fully recover the fixed charges?

11 A. Well, what we're looking to do in the future is
12 actually possibly propose a new rate design, rate structure
13 mechanism that may be better suited to these customers and
14 this type of service. And that mechanism could more closely
15 resemble a nonresidential customer where there is a demand
16 charge in addition to an energy charge and the regular customer
17 charge. And that structure may actually help capture both the
18 benefits and the cost more fairly for these customers, because
19 that demand charge could be based on the time of the
20 distribution peak and the energy charges could be based on
21 time of day. So, if these customers are offsetting their usage
22 during a higher priced period but taking usage during lower
23 price period, that would all be captured through a more refined
24 rate design.

25 Q. Okay. Thank you. Would you please repeat the

1 definition of line 11, the net metering kilowatt-hours? What does
2 that represent?

3 A. This represents the forecasts for the net billed
4 kilowatt-hours for the net metering customers.

5 Q. Thank you. Are there any fixed costs recovered
6 from net metering customers currently?

7 A. Yes.

8 Q. Okay. And that is recovered from the portion of the
9 gross minus the excess. Is that correct?

10 A. Well, it would be recovered through both the
11 customer charge, which is currently \$5 and through some
12 portion of their energy usage.

13 Q. Great. Just wanted to be clear on that.

14 What is the percentage of total consumption--let me
15 make sure I say this right, because I can't read my writing
16 because I'm nervous--what percentage of total consumption
17 does net metering excess represent, say, today or at the end of
18 the study period, June of 2013, whichever you prefer?

19 A. Well, I know that the excess generation--
20 if I'm understanding you correctly--of what they were--their
21 usage was essentially netted against was--it was about 161
22 kilowatt-hours, on average, per customer. So, while their net
23 billed usage is--I think it was about 511, once you take into
24 account that usage that was excess generation being applied,
25 you know, later in the billing period or even carried forward into

1 other months, they actually approach more of an average
2 residential customer.

3 Q. Okay. Why is gross consumption used as the basis
4 for the net metering fixed cost calculation?

5 A. Gross consumption is not used. Gross
6 consumption for whom? For--which line?

7 Q. On line 11.

8 A. That's the net amount. So, that's not a gross
9 number; that's a net.

10 Q. Okay. And I hope it's okay to say this, but in one
11 of the rebuttals--in the rebuttal to my testimony, I was told that
12 that represented the gross consumption by the customer, not
13 the net production. And that actually coincides with the
14 numbers provided in other exhibits from the Company.

15 A. No. I believe we maybe have a misunderstanding
16 of terminology.

17 Q. Okay.

18 A. This is the amount of energy they took from the
19 Company net of any excess. This is what we would bill on.
20 Maybe point me where
21 you're . . .

22 Q. Yes. I'm--scampering here.

23 Anyone else see it, let me know.

24 THE HEARING OFFICER: Let's be off the record.

25 THE WITNESS: I've found it. It's in my rebuttal,

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on line 352.

THE HEARING OFFICER: Just a moment.

On the record.

THE WITNESS: I think the line you're referring to is on line 352 in my rebuttal. And it says, Instead, the \$13 million in kilowatt-hour is the annual net billed usage by the net metering customers.

BY MR. ROSSETTI:

Q. Okay. So, the net billed usage.

A. Correct.

Q. Not the net excess generation.

A. Right. It does not include that excess generation.

Q. Okay. I'm struggling to understand this.

THE HEARING OFFICER: Do you need a minute, Mr. Rossetti, to look through your papers?

We can go off the record.

MR. ROSSETTI: I'll think about it for a minute.

BY MR. ROSSETTI:

Q. Is wear and tear and requirement system modifications due to net metering relevant to the establishment of a facilities charge?

A. We have not, as part of the calculation of this charge, assumed any additional cost related to these customers. But I think in looking at costs and--you want to consider that there are additional costs represented, but we have not even

1 tried to capture those costs for net metering. This is just a
2 charge to try to have the net metering customers pay the same
3 as the average residential customer for the same facilities.

4 Q. Okay. It's been used in some justification. Let's
5 see. Would you say that the average residential net metering
6 customer's excess perfectly offsets their grid consumption?

7 A. No.

8 Q. What has been the growth in residential net
9 metering excess generation--back into the grid--which I think
10 you're calling net metering kilowatt-hours--

11 A. (Moves head up and down.)

12 Q. --since your original testimony was filed in
13 percentage? Do you have a rough idea?

14 A. No. I don't know what the net usage change has
15 been.

16 Q. How about capacity change?

17 A. You mean how many new installations have been in
18 place?

19 Q. Well, the capacity of the new installations.

20 A. I know it's exceeded--I know we've responded to
21 data responses that provided that information. I don't know it
22 off the top of my head.

23 Q. Yeah. I think it's somewhere around 30 percent
24 was the claim.

25 And, then, might as well not ask what percentage of

1 the total gross consumption this represents.

2 Do you have any idea what the net metered
3 production, meaning the outflow from a residential customer,
4 represents for total residential consumption going into the meter
5 for all customers, residential customers? Do you know what
6 percentage that is?

7 A. I'm not sure I followed that. Can you ask it again?

8 Q. For all the solar--or net metering customers who
9 generate excess--

10 A. Uh-huh (affirmative) .

11 Q. --the total of that excess compared to the total
12 consumption by all residential customers. So, the total kilowatt
13 hours in here is 6,203,000.

14 A. Oh, what the total? No, but if we take that--

15 Q. That's 6 million and divide it by the 13 million.

16 A. Well, if we take the 13 million--if I'm following you
17 here, we know that 13 million does not take into account the
18 excess generation. And I know through the data we provided in
19 data responses, that that excess generation is about 161
20 kilowatt-hours per customers. If we take that by the number of
21 customers, we could get there, but I can't do it off the
22 top--without a calculator.

23 Q. They're handy.

24 So, if you will bear with me, let's say a--just--I don't
25 know--can I ask what-ifs in this?

1 THE HEARING OFFICER: You can ask what-ifs as
2 long as you're clear about doing it.

3 BY MR. ROSSETTI:

4 Q. Okay. I have a couple of what-ifs. What if a
5 customer has solar, they consume 1,400 kilowatt-hours in a
6 month, they generate 700 kilowatt-hours of excess, which means
7 they get billed for 700 hours kilowatt-hours? That's the
8 break-even point, right? That's the average customer
9 consumption is 700 kilowatt-hour.

10 A. Did you say they used 1,400?

11 Q. They use 1,400.

12 A. From the utilities--from the utility, not just what's
13 offset by the generation at the time of the generation?

14 Q. They sucked in through the power line 1,400
15 kilowatt.

16 A. Okay.

17 Q. And they pushed out 700, but they were billed for
18 700 because they got credit.

19 A. Right.

20 Q. Is that the break-even point? At that point, have
21 they paid the average fixed cost recovery?

22 A. Yeah. So, about 700 kilowatt-hours is the average
23 customer.

24 Q. Okay.

25 A. But then that customer would clearly be above

1 average.

2 Q. Okay. If somebody consumes 700 kilowatt-hours--

3 A. Uh-huh (affirmative) .

4 Q. --from the grid, sucks it out of the power lines, but
5 they don't generate any excess, they just have a few panels,
6 they never generate excess, how much of that customer has not
7 paid their fair share? If they consumed 700 kilowatt-hours--

8 A. Uh-huh (affirmative) .

9 Q. --how much--has that customer not paid their fair
10 share of the fixed costs at that point?

11 A. Well, if they've paid for 700 kilowatt-hours, then
12 they've paid about the same as an average residential customer
13 for its fixed cost.

14 Q. Would we call that fair? I'm sorry. That's probably
15 not an appropriate question.

16 So, in my final--thank you for bearing with me--

17 A. Uh-huh (affirmative) .

18 Q. --my final case study here: Instead of solar, this
19 customer uses aggressive conservation and efficiency
20 techniques and reduces their consumption to 700 kilowatt-hours.
21 This customer has paid their fair share, too. Would you--they
22 have paid their average fixed cost for all residential customers?

23 A. They paid the same as an average residential
24 customer, yes.

25 Q. Thank you. I'm probably never going to get back to

1 that kilowatt-hour thing.

2 And, then, let's see. In your testimony--
3 let's see. This is a--the rebuttal testimony. On line 196, you
4 were asked a question about--

5 A. Let me get there.

6 Q. Have a sticky tab on it?

7 A. Okay.

8 Q. In response to a question, is it similar to
9 customers--is net metering similar to customers who use
10 efficiency? And you say, "A net metering customer's avoidance
11 of a kilowatt-hour purchase from the grid is not the same as a
12 residential customer's permanent avoidance of a kilowatt-hour of
13 consumption via energy efficiency or demand-side management.
14 When a residential customer adopts energy efficient appliances
15 or behaviors, both energy consumption and energy purchase
16 from the grid are reduced. They also reduce energy
17 consumption at the time of system peak"

18 Reading that, it sounds to me like the only
19 difference is peak demand. The solar customer has reduced
20 consumption, so has the conserver, but is it correct that in the
21 context of this statement here that you're saying that the real
22 only difference is in peak demand?

23 A. No. You actually didn't continue reading on to the
24 rest of that sentence, which says, ". . . improving load shape . .
25 . ." So, those energy-efficient customers are improving the load

1 shape and load factor ". . . and ultimately the class and system
2 load factor."

3 Q. Which is related to peak demand. Isn't that
4 correct?

5 A. Well, it relates to how peaky they are and how
6 costly it is to serve a peaky customer. So, a customer with
7 distributed generation, they're going to be much more peaky in
8 their use, which ultimately costs the utility more. It's a less
9 efficient use of the system. Whereas, an energy-efficient
10 customer, they flatten their load better. And, so, it's a lower--it's
11 a higher load factor and it's less costly for the utility to serve.

12 Q. Okay. Thank you. Has that been monetized?

13 A. I don't know what--

14 Q. Well, I mean, has the value of that--

15 A. Well, we calculated--we show there the difference--
16 in Diagram A and B, I show the difference in a load factor
17 between an average residential customer and a DG customer.
18 We did not show it on Exhibit--or on Diagram C that load factor.

19 Q. Okay. Thank you. So, there's no dollar figure
20 associated with that benefit of consideration.

21 A. No. Not that I have here, no.

22 Q. Okay. Trying to figure out how I'm different from
23 conserver.

24 Okay. And, then, hopefully this will be my final
25 question. And I do have--if I figure out my question about the

1 kilowatt-hours later, is there any way I can ask that question
2 later?

3 THE HEARING OFFICER: Yes. Your timing's
4 impeccable. We're going to break for lunch. You can consider
5 how to frame that question over lunch. As soon as you've asked
6 this one, we'll break for lunch until 1:30.

7 MR. ROSSETTI: Okay. Thank you.

8 BY MR. ROSSETTI:

9 Q. "UCARE argues"--I'm sorry. This is in your rebuttal
10 testimony, line 327.

11 A. Okay.

12 Q. "UCARE argues there's a considerable financial
13 benefit realized by the Company as a result of the excess
14 generation being used to serve a net metering customer's
15 neighbor and through the expiration of the excess credits at the
16 end of the . . . program year. Do you agree?"

17 The answer is, "No. The [sic] argument overlooks
18 the fact that the cost to those neighbors"--"neighboring
19 customers for that non-dispatchable energy is between 8.8
20 [whatever] cents . . . [and] is considerably higher than the
21 customer's avoided cost of energy," emphasis. "Since that rate
22 includes fixed costs, that neighbor essentially ends up paying
23 for the fixed costs required to serve the net metering customer
24 that the net metering customer does not pay by virtue of the rate
25 structure."

1 Does that not mean that the neighbor who has not
2 used the utility to get that energy has paid for the fixed costs for
3 the credit that is later redeemed by the net metering customer?

4 A. Well, that net metering customer--I don't know if I'm
5 answering this exactly--if I followed your question correctly--that
6 net metering customer is essentially banking their usage and
7 because they're going to take at a later period through the
8 crediting process. And, so, that--the neighbor is paying for their
9 usage as they would any other way. But because of that
10 crediting process and that we're only billing on the net and not
11 the total usage, those costs end up getting sifted through higher
12 energy rates to all customers because our net amount that we
13 bill on is different than what is actually required to serve
14 customers.

15 Q. Okay.

16 A. Does that answer it?

17 Q. Not really. The point I'm trying to understand is
18 here, we--we've--meaning the Company has tried to justify
19 charging the--or recovering the fixed cost, because when the
20 solar customer later uses the network grid redeeming those
21 credits, they're not paying anything. Is that correct?

22 A. That's--

23 Q. Okay.

24 A. That is correct, yes.

25 Q. The neighbor who received the excess energy paid

1 fixed costs.

2 A. Uh-huh (affirmative) .

3 Q. But they were not actually pulling energy across the
4 network. So, if we're talking about actual usage of the grid as a
5 justification, doesn't this wash?

6 A. No, I don't think so.

7 Q. Okay. Thank you.

8 THE HEARING OFFICER: We'll be in recess until
9 1:30. Thank you very much.

10 (Luncheon recess taken, 12:01-1:30 p.m.)

11 THE HEARING OFFICER: Are we on the record?

12 I think we're all back from our noon recess. And
13 we're ready to have Mr. Rossetti continue his questions.

14 MR. ROSSETTI: Thank you, Commissioner.

15 EXAMINATION (CONTINUED)

16 BY-MR.ROSSETTI:

17 Q. Just a couple more questions. Thank you. Do you
18 have any measure of what--conservation and efficiency
19 customers who put solar have employed?

20 A. No.

21 Q. Nothing like that?

22 A. No.

23 Q. Okay. Typically, they do before putting solar in.

24 If a solar residential customer is on grid but not net
25 metering--in other words, they're using some form of

1 storage--buffering storage--are the fair share of fixed cost being
2 recovered from these customers?

3 A. I'm not aware that we have that situation. I think if
4 you have generation, then--and you're interconnected, then
5 you're on net metering--

6 Q. Okay.

7 A. --or you're on Schedule 31 requirements if you're a
8 large customer.

9 Q. So, this is a new technology. I was just wondering
10 if you considered that--if they were able to do that, if you would
11 consider them as being--I don't know the right word--prone to
12 additional charges because they have solar but they're not net
13 metering, they're using buffering storage of some kind, do you
14 think that they would be subject to some special fee?

15 A. I guess I'm not sure--would they be subject to this
16 fee? Or you're talking about in the future if this occurs--I can't
17 tell you what the rate would look like in the future under that
18 situation.

19 Q. Okay. Great. I'd like to refer you to your rebuttal
20 testimony, line 347.

21 A. Okay.

22 Q. "Have you identified other errors in UCARE's
23 analysis and assertion?"

24 "Yes." The answer is, "Yes. On page .9, UCARE
25 claims a reduction of emissions based on his claim that

1 'residential NEM customers produced [13 million] kilowatt-hours
2 of . . . electricity for the reporting period.' However, this figure
3 that it characterizes as excess electricity, which appears in
4 [your spread]"--[in spreadsheet], is not excess electricity
5 produced by net metering customers; instead, [13 million]
6 kilowatt-hour is the net billed usage by net metering customers."
7 Is that correct?

8 A. Correct.

9 Q. So, referring back to your spreadsheet on line 11,
10 is this the same 13 million kilowatt-hours that we were just
11 discussing?

12 A. Correct.

13 Q. So, then, that is not the excess that has been
14 produced by the net metering customers. That's their actual
15 consumption.

16 A. Well, it's their actual net bill consumption. It's what
17 goes into the billing determinants that we use to design rates
18 over.

19 Q. Okay. So, that is the--if I look at my meter and I
20 have No. 14, which is my net production, and No. 24, which is
21 my gross consumption, it's the difference between the two.

22 A. No. We don't measure your gross consumption.
23 All we--our meters we have--there's two registers on the meters.
24 One is registering everything the customer takes from the utility.
25 And the other meter is registering all the excess generation put

1 back on the utility. And, then, through the billing process, those
2 two are netted. We do not measure and cannot currently
3 measure the customer's actual consumption that is offset by
4 their own generation.

5 Q. I'm sorry. That's my--

6 A. Oh, okay.

7 Q. --that's my ignorance in knowing what the proper
8 term is. So, what should I call the billed usage, then?

9 A. Call it net billed usage.

10 Q. Net billed usage. And the excess that's put back
11 into the system, what should I call that?

12 A. We can call it the excess.

13 Q. The excess. Okay. So, this 13 million is the
14 total--yeah, what is the term for the total energy that gets
15 measured by the meter coming into the house?

16 A. This is the net billed amount. So, this is part of the
17 kilowatt-hours that becomes essentially the denominator over
18 which we design the rates.

19 Q. Yes. I'm just trying to make sure I fully understand
20 this number, because I think wrong--and I hate to accuse you of
21 getting something wrong, because--

22 A. I don't know that it's wrong. In fact, this is based
23 on the forecast kilowatt-hours of what is billed to net metering
24 customers.

25 Q. Okay. Just to be clear, absolutely clear, there's

1 three numbers involved when a residential customer has net
2 metering. There's the total kilowatt-hours that comes in from
3 the grid.

4 A. Uh-huh (affirmative) .

5 Q. It shows up as No. 24 on my particular meter.
6 There is the excess electricity that goes out. That's No. 14.
7 And, then, there's the total billed, which is the difference
8 between the two.

9 A. Right.

10 Q. Which one does this number represent?

11 A. This is the net billed amount.

12 Q. Thank you. I'll address my concerns with this in my
13 summary later.

14 MR. ROSSETTI: Thank you. I have no further
15 questions.

16 THE HEARING OFFICER: Thank you.

17 Mr. Culley.

18 MR. CULLEY: Thank you, Commissioner.

19 EXAMINATION

20 BY-MR.CULLEY:

21 Q. And good afternoon, Ms. Steward. How are you?

22 A. Good afternoon.

23 Q. My name is Thad Culley. I'm counsel with The
24 Alliance for Solar Choice. Just have a few quick questions for
25 you, keep this thing moving.

1 A. Okay.

2 Q. Let's see. Starting on page .9 of your--
3 this is your rebuttal testimony, line 176. Okay. So, you state
4 that ". . . distribution system costs are incurred and allocated to
5 customer classes based on customers' contribution to either the
6 distribution system, [that's] (substations and primary lines) , the
7 non-coincidental peak"--sorry--
8 " (line transformers and secondary lines) or by the number of
9 customers, [which are] (service lines and meters) ."

10 NEM customers have relatively the same daily
11 peaks as other residential customers. Isn't that distribution
12 system peak as a cost driver going to be relatively similar for
13 net metering and non-net metering customers?

14 A. Is the cost driver--I'm sorry. Can you repeat the
15 question?

16 Q. So, if non-net metering customers and net metering
17 customers have similar peaks--

18 A. Yes.

19 Q. --on the days of system peak, is that affecting the
20 allocation of cost to residential class in the same way?

21 A. If they're--yes. I mean, if they have peaks around
22 the same time, then, yes.

23 Q. And on diagram 8 on page .8 of your rebuttal
24 testimony, is that roughly what that shows, that the ultimate
25 level of peak is similar between residential customers without

1 DG and those with--

2 A. Yes.

3 Q. At the time of peak for the residential customers
4 without DG, can you say approximately where the demand for
5 the DG customer is on that?

6 A. So, in this example, which is based on just an
7 average facility size of 3.2 kW, at that peak hour there, they're
8 about 1.5 kW. Is that what you're looking for?

9 Q. Yes. And the reason they are not 2.6 at that point,
10 or a little over 2.5, is because they are consuming some of that
11 generation on-site. Is that correct?

12 A. Presumably, yes.

13 Q. Okay. And if that is the case, would they be
14 reducing their contribution to the class peak at that time?

15 A. They would be reducing their contribution to, yes,
16 the class peak, but the distribution facilities are still going to be
17 sized to meet their peak.

18 Q. Okay. But in terms of--the residential class is
19 diverse and you count on some load diversity--

20 A. Uh-huh (affirmative) .

21 Q. --to come up with these aggregates. So, to the
22 extent you took net metering customers, if they all shared this
23 kind of average profile, they would contribute less to this peak
24 here. Is that correct?

25 A. They would contribute less to that peak; however,

1 that's not consistent with how the distribution system is sized.

2 Q. Okay. Let's move to page .23 of your direct
3 testimony, please. And this is starting with line 498.

4 A. Okay.

5 Q. So, here we're talking about commercial or
6 nonresidential net metering customers: So--". . . for
7 nonresidential rate schedules, the demand charges provide a
8 significant portion of distribution and retail fixed cost recovery;
9 therefore, at this time, the Company is not proposing a net
10 metering facilities charge for nonresidential net metering
11 customers until additional analysis can be completed to evaluate
12 cost-shifting impacts by these customers."

13 For this case--in preparation for this case, did you
14 do an analysis to come to that conclusion, that nonresidential
15 customers cover a significant portion of their distribution and
16 retail-based cost recovery?

17 A. It's--it happens through cost of service and in rate
18 design, which costs go into which rate. And, so, you can look
19 and see, you know, demand costs are being recovered through
20 demand charges.

21 Q. But did you look specifically at nonresidential net
22 metering customers to see how much they're exporting, if--or if
23 they're exporting?

24 A. No.

25 Q. And have you done any analysis to determine

1 whether nonresidential customers may actually provide net
2 benefits to your system?

3 A. No.

4 MR. CULLEY: I don't think I have any further
5 questions. Thank you very much.

6 THE HEARING OFFICER: Ms. Roberts.

7 EXAMINATION

8 BY-MS.ROBERTS:

9 Q. Good afternoon, Ms. Steward. Your direct--let me
10 start over. The Company has asserted in its more recent
11 testimony that the benefits of net metering solar are equal to the
12 avoided costs as determined in this Commission's prior PURPA
13 dockets, correct?

14 A. Correct.

15 Q. Do you discuss that topic in your direct testimony?

16 A. No.

17 Q. Does Mr. Walje discuss that in his direct testimony?

18 A. It's been a while since I read Mr. Walje's direct
19 testimony.

20 Q. I want to ask you some questions about your
21 Exhibit 1R, which has been discussed already a bit. Just turn
22 there.

23 A. Okay.

24 Q. Your analysis here relies on the premise that every
25 customer owes the utility. Every residential customer owes the

1 utility some minimum contribution to fixed cost every month. Is
2 that correct?

3 A. That's correct.

4 Q. Okay. And that minimum contribution, I believe
5 through the distribution and retail fixed cost, is about \$24 a
6 month.

7 A. Right. That's the average cost for the distribution
8 of customer services.

9 Q. So, you expect all your residential customers to
10 contribute at least \$24 in fixed costs each month.

11 A. Well, no, because the rate structure is based--
12 (Reporter/witness discussion to clarify the record.)

13 THE WITNESS: The rate structure has these costs
14 entirely in energy, so it's going to be tied to energy usage, even
15 though that's not consistent with how the costs are incurred.
16 So, some customers will pay less, some customers pay more,
17 while on average these are the costs to serve all residential
18 customers.

19 BY MS. ROBERTS:

20 Q. Okay. So, Rocky Mountain Power's not seeking to
21 impose a fee to recover these fixed costs from other customers
22 that consume about as much as an average net metering
23 customer, correct?

24 A. Well, we have a \$6 customer charge for all
25 residential customers to contribute at least some portion, a

1 minute. And, then, we also have a minimum bill in--that was
2 agreed upon in the proceeding.

3 Q. What is that minimum bill amount?

4 A. I was afraid you were going to ask me. I remember
5 what we proposed. It goes up to \$8.

6 Q. Okay. Thank you. So, that's--\$8 is about a third of
7 the \$24--

8 A. Correct.

9 Q. --fixed cost that you're requiring net metering
10 customers to contribute towards each month.

11 A. Correct.

12 Q. Okay. Not all the net metering customers are the
13 same, correct?

14 A. Not all non-net metering customers are the same.

15 Q. So, some net metering customers have low usage,
16 some have high usage.

17 A. Right. But on average, their net billed usage is 511
18 kilowatt-hours a month.

19 Q. You said earlier in response to Mr. Rossetti's
20 question that 700 kilowatt-hours was roughly the break-even
21 point at which a customer--

22 A. I said that's the average usage.

23 Q. That's the average usage for net metering
24 customers.

25 A. No. The average--let me finish--that's the average

1 usage for residential customers. For net metering customers,
2 the net billed usage is about 511, but then we know that they
3 take about 700 kilowatt-hours, including the excess generation.

4 Q. Okay. So, some net metering customers might
5 have high usage that they--net billed kilowatt-hours from the
6 company, notwithstanding their lower amount, correct?

7 A. Correct.

8 Q. So, a lot of large households in Utah--
9 maybe a small 2 or 3-kilowatt system--still consuming a lot of
10 power from--purchasing a lot of power from your company,
11 correct?

12 A. Correct. And even with this charge, they'll pay
13 more because they'll have more kilowatt-hour usage and most of
14 these costs are still recovered in the energy rate.

15 Q. Aren't those customers already paying their fair
16 share of fixed cost?

17 A. Well, I don't agree with the term "fair share." I
18 mean, we designed rates on the average basis we designed
19 rates for all customers. So, you know, on average, these
20 customers use 700 per month. It's always going to change by
21 month and by type--by customer.

22 Q. You don't agree that some customers will be paying
23 double for fixed costs if they have high usage once they're also
24 facing this net metering fee.

25 A. No, not necessarily.

1 Q. Not necessarily?

2 A. No. You said they double. Is that what you said?

3 No. That's just inherent in the way the rates have been
4 designed, are heavily based on energy.

5 Q. So, a customer that's buying, say, 800--a net
6 metering customer who's purchasing 800 kilowatt-hours a month
7 of power, that's more than your average residential customer,
8 that customer is already contributing this minimum \$24.19 to
9 your fixed cost.

10 A. Right. They will be paying more than other smaller
11 use customers, but that's the same for all customers, whether
12 they're net metering or not.

13 Q. Except these net metering customers will also be
14 paying the monthly net metering fee, correct?

15 A. Yes, because their net bill amount is less than what
16 they actually paid.

17 Q. I was--I'm sorry. My earlier question referred to a
18 customer whose net bill amount is--

19 A. Right. But on average, a net metering customer
20 has lower usage--lower net billed usage. And that's what we've
21 been designing the rates around, we've done the costs on an
22 average cost basis.

23 Q. Has Rocky Mountain Power done an analysis on
24 how many net metering customers already contribute the
25 minimum 24.19 in fixed cost through their energy rates?

1 A. Well, we know that customers--the net billed
2 amount is 511. And so, on average, these customers are not
3 contributing to that overall \$24.

4 Q. I'm not asking you about the average. I'm asking
5 you about the full range of net metering customers--

6 A. Right.

7 Q. --and trying to understand what portion of net
8 metering customers who are--have above-average consumption
9 for that group--

10 A. Uh-huh (affirmative) .

11 Q. --are already purchasing enough power from your
12 company to provide the minimum \$24 in fixed costs each month.

13 A. No, we don't have that specific level of data for all
14 net metering customers.

15 (Reporter/witness discussion to clarify the record.)

16 THE HEARING OFFICER: Ms. Steward, it might
17 help if you pull the microphone a little closer to you. Then you'll
18 have coverage when you turn, face counsel. That would be
19 helpful. Thank you.

20 THE WITNESS: Well, and actually, I think we do
21 have--we know how much each customer uses, but we did not
22 do the breakdown of the net metering customers between their
23 excess and net billed.

24 BY MS. ROBERTS:

25 Q. Okay. I understand what you're saying. You

1 mentioned earlier that the costs of integrating contributed solar
2 into the grid sort of increased expenses relating to the
3 transformers and other distribution system expenses that have
4 been discussed while we're here, that that should be considered
5 as part of cost-benefit analysis. Am I correctly paraphrasing
6 your earlier statement?

7 A. Yeah. When I said that, I was actually thinking
8 more of the cost of the program. It's more--much more
9 manual-type billing and associated with these customers, as
10 well as doing the contract and all the interconnection agreement
11 work, as well. But those costs would be--in addition, we have
12 not quantified for this purpose.

13 Q. So, these administrative costs, then, aren't part of
14 the net metering proposed charge that you're seeking to collect.

15 A. Well, they are in the sense that the average
16 cost--retail cost for all customers is--it's \$30 million. And they're
17 a part of that \$30 million, which is \$3.40 per customer per
18 month. So, those costs are still essentially being socialized
19 across all customers.

20 MS. ROBERTS: No further questions.

21 THE HEARING OFFICER: Ms. Hayes.

22 EXAMINATION

23 BY-MS.HAYES:

24 Q. Thank you. Good afternoon, Ms. Steward.

25 A. Good afternoon.

1 Q. I'm really going to try not to be redundant. Okay.
2 You've explained your Exhibit JRS 1R already quite well.
3 But--so, I'm going to try and skip over some background
4 questions, but if I'm being confusing, just let me know.

5 So, the--I'm particularly looking at line 14, the
6 average dollars per kilowatt-hour for remaining distribution and
7 retail costs that are not recovered through the customer charge.
8 Is that correct?

9 A. Yes.

10 Q. Okay. So, for every kilowatt-hour consumed by the
11 residential class, two and-a-half cents of their rate goes to pay
12 for those distribution and retail costs, not recovered by the
13 customer charge.

14 A. Correct.

15 Q. I tried to come up with an acronym. I couldn't.

16 So--then, in your exhibit, you take that two and-a-
17 half cents--and I'm rounding--sorry--and multiply it by the net
18 billed--net metering kilowatt-hours to calculate the distribution
19 and retail costs associated with net metering kilowatt-hour
20 consumption. Is that correct?

21 A. Right.

22 Q. Okay. So, then, you add that two and-a-half cents
23 a kilowatt-hour aggregated on to the bills of net metering
24 customers and then subtract it from the non-net metering
25 residential customers. Is that correct?

1 A. I think I lost you.

2 Q. Oh, this isn't in the exhibit. You--well, the--it's
3 basically you take that two cents a kilowatt-hour, aggregate it
4 into a \$4.65 fee, which you add on to the bills of net metering
5 customers, which then offsets a portion of the energy rate for
6 other customers.

7 A. Right. So, the revenue we would collect from the
8 4.65--so, in the stipulation, we've presented it both ways with
9 what the energy rates would be with the net metering facilities
10 charge and without. And, so, without the net metering facilities
11 charge, the energy rates go up, yes.

12 Q. Okay. So, in other words, you've calculated the
13 distribution and retail costs not recovered in the customer
14 charge and also not recovered by net metering customers'
15 lower-than-average consumption.

16 A. I'm sorry. Could you repeat the question?

17 Q. Yeah. Sorry. I'm just--so, that 4.65 is basically the
18 distribution and retail costs that are not recovered by the
19 customer charge and not recovered by net metering customers
20 average consumption.

21 A. Correct.

22 Q. I'm so glad. I feel like I'm winning.

23 So, the Company, according to this calculation, is
24 adding two cents, on average, per kilowatt-hour to the energy
25 rate paid by net metering customers but then aggregated it into

1 the fixed fee. Sorry. I think I already asked that.

2 A. Yeah. I think that was the one I was confused on.

3 Q. Yeah. Sorry.

4 So, 4.65 is the additional amount that the average
5 net metering customer would pay if it consumed 700
6 kilowatt-hours a month versus 511 kilowatt-hours per month.

7 A. Correct.

8 Q. Okay.

9 A. If they're net energy--if they're net billed energy.

10 Q. Okay. Does Rocky Mountain Power have
11 residential customers that, without solar generation, consume
12 about 511 kilowatt-hours per month?

13 A. Sure.

14 Q. Okay. And, then, there are more-than-average
15 customers, etc. Okay.

16 So, essentially, the amount paid per month by the
17 net metering customers, on average, has been increased by two
18 cents a kilowatt-hour; is that correct--two and-a-half?

19 A. I think you're reading the two and-a-half cents
20 wrong. 2.6--I mean, it's been increased by the 4.65, which--

21 Q. Is based on the two and-a-half?

22 A. Ultimately, because it's based--the two and-a-half
23 cents is used to calculate how much revenue we'll be getting for
24 the fixed cost through that 511 kilowatt-hours, on average, right.

25 Q. So, then, if you multiply 2 1/2 cents by the

1 difference between 700 and 511, you get 465. Is that correct?

2 A. I think so. It's not exactly the formula we used
3 here, but I think they're the same.

4 Q. I did a lot of math the other night.

5 So, does it cost two cents more per kilowatt-hour to
6 serve net metering customers?

7 A. It costs--

8 Q. Two and-a-half cents.

9 A. Yes, because they're taking the power from our
10 system that--and are the cost of that system includes the 2.6
11 cents.

12 Q. So, from a cost causation point, your cost of
13 service studies shows that it's two and-a-half cents a
14 kilowatt-hour more expensive to serve net metering customers.

15 A. No. This is the cost of serving all customers,
16 regardless of net metering or not.

17 Q. Right. So, you haven't looked at specifically the
18 cost causation of net metering customers compared to other
19 customers.

20 A. We don't have them broken out in a cost-of-service
21 study.

22 Q. So, you're not saying it costs more--two and-a-half
23 cents more to serve net metering customers.

24 A. No. We're saying it costs about the same as all
25 other customers.

1 Q. Okay. Right. But you're charging them the two
2 and-a-half cents more per kilowatt-hour in order to match
3 their--the net metering revenue with Rocky Mountain Power's
4 average consumption for the class.

5 A. We're trying to better reflect cost causation and
6 have net metering customers pay for their usage on the system.

7 Q. Right. Okay. In a typical residential neighborhood
8 where the houses are roughly the same size, does the
9 consumption vary from house to house, depending on a whole
10 range of factors?

11 A. Sure.

12 Q. Do you charge those customers different amounts
13 for the distribution costs to serve each of those homes?

14 A. No. We have one rate structure with multiple rate
15 components that we do essentially average rates for all
16 residential customers.

17 Q. Right. So, they--but if they use different amounts
18 because you collected them an energy rate, they'll pay different
19 amounts, correct?

20 A. Correct.

21 Q. Are the distribution costs incurred by Rocky
22 Mountain Power for each of those customers different from
23 house to house?

24 A. Not necessarily, no.

25 Q. All right. So--okay. Thank you.

1 So, based on this calculation, you're charging the
2 net metering customers more regardless of consumption
3 because on average they consume less.

4 A. They're billed less.

5 Q. All right. Have you provided evidence about gross
6 consumption?

7 A. "Gross consumption" meaning how much they use
8 regardless of where they get it from?

9 Q. Yeah.

10 A. No.

11 Q. Okay. Let's move on. In your surrebuttal testimony
12 at lines 89 through 90--

13 A. Okay.

14 Q. --you say similar--let's see.

15 Oh, wait. Am I in the right testimony? Okay. I just
16 got a little lost for a minute.

17 You talk about a similarly situated qualifying facility
18 would be paid three cents per kilowatt-hour while a net metering
19 customer gets compensated nearly three times that. Is that an
20 accurate sort of summary?

21 A. Sure. Yes.

22 Q. But that so-called similarly situated qualifying
23 facility would have to be over three megawatts in size and
24 interconnected to the transmission system and would also
25 receive a capacity payment, correct?

1 A. I think you have to direct that to Mr. Duvall--

2 Q. Okay.

3 A. --avoided cost qualifications.

4 Q. But apart from what you have in here and what I
5 will discuss with Mr. Duvall, do you provide an evaluation of the
6 similarities or differences between utility scale and distributed
7 solar beyond--beyond noting that they're both solar generators?

8 A. You might want to direct that to Mr. Duvall, as well.

9 Q. Okay. But you do conclude, based on Duvall's
10 testimony, that he has reasonably compared the cost and
11 benefits of net metering using an avoided cost method for
12 large-scale solar resources, correct?

13 A. Yes. That's the--my understanding of Mr. Duvall's
14 testimony is that the avoided cost value to be determined by the
15 Commission for evaluating solar generation was--comes out to
16 three cents per kilowatt-hour for 2015.

17 Q. Okay. Thanks. All right. Moving on to
18 surrebuttal--your surrebuttal testimony starting at line 134--

19 A. Okay.

20 Q. --the question is, "What is the logical conclusion if
21 the Commission were to agree with the arguments of the parties
22 that there is insufficient evidence at this time to implement a
23 facilities charge for net metering?" You say that taking this
24 argument to its logical conclusion, the Commission would have
25 to suspend the net metering program altogether because there

1 is insufficient evidence justifying the current net metering tariff.
2 So, you talk about making this conclusion on logical grounds.
3 I'm assuming you weren't making a legal conclusion. I think
4 that's what you mean by that.

5 A. Yeah.

6 Q. So, as an employee of a utility, are you familiar
7 with what happens when the Company files changes to a tariff
8 or proposes changes to a program or service?

9 A. Kind of broad. What happens?

10 Q. Yeah.

11 A. We go through a process.

12 Q. Yeah. Right. Well, let me--this might clarify
13 things: I'd like to introduce a cross exhibit at this point.

14 THE HEARING OFFICER: We'll mark this UCE
15 Cross Exhibit 1.

16 MS. HAYES: Thank you.

17 BY MS. HAYES:

18 Q. All right. So, I printed this off the internet
19 yesterday. So, I'm going to represent to you that it is Utah
20 Public Service Commission Rule 746-405-2, which--however, I
21 didn't print out the whole rule. I would like to point you to--oh, I
22 marked it. So, on the third page, there's a section--it's right
23 under (E) , "Approve"--"Approval of filed tariff sheets." It's
24 (E) (1) .

25 A. Uh-huh (affirmative) .

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Q. Would you read that, please?

MS. HOGLE: Excuse me. Can I just kind of indulge the Commission. First, I don't even know if you are familiar with this, Ms. Steward. Have you ever seen this before?

THE WITNESS: I vaguely--I don't remember--I don't know I've read it word for word.

THE HEARING OFFICER: Ms. Hayes, would you like to lay a foundation for using this document? Let me just say if you simply want to present the provision to us, we're aware of our rules and--

MS. HAYES: Okay.

THE HEARING OFFICER: --now specifically aware of what this says.

MS. HAYES: Sorry. That's fine. I just-- she--Ms. Steward made this conclusion evidently on logical grounds. And I just feel like there are some procedural grounds that contradict that conclusion. And, so, I was hoping to just point this out.

THE HEARING OFFICER: I think you can ask her if she's familiar with this--

MS. HAYES: Okay.

THE HEARING OFFICER: --if she considered this in reaching her conclusion. You can do that.

BY MS. HAYES:

Q. Are you familiar with this commission rule?

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A. Not explicitly.

Q. And did you consult this rule in your conclusion?

A. We--I also clearly state it is not the Company's proposal.

Q. Okay. But you do talk about it. You talk about this logical conclusion.

A. No. I not consult this rule.

Q. Okay. All right. This rule doesn't say that--when it files a tariff, it has to stop providing all of its services until a new rate or service is approved, does it?

MS. HOGLE: Objection. Ms. Steward, have you read that rule in its entirety so that you know--

THE WITNESS: No, I have not since I've been sitting here.

BY MS. HAYES:

Q. All right. Do you know who bears the burden of proof for establishing changes to rates or services?

MS. HOGLE: Objection. It's a legal conclusion.

MS. HAYES: All right.

THE HEARING OFFICER: Sustained.

BY MS. HAYES:

Q. So, you didn't consult any legal precedent or case law when you made this conclusion.

MS. HOGLE: Objection. Asked and answered. I believe she's already answered the question.

1 THE HEARING OFFICER: Well, it's slightly
2 rephrased. And if you--do you recall the question?

3 THE WITNESS: Well, we did not propose the--that
4 net metering be suspended. I mean, what--my testimony says is
5 taken to the logical conclusion is that that's a possibility the
6 Commission may ultimately need to consider, because the SB
7 208, I believe, refers to both charges or credits to net metering
8 customers.

9 BY MS. HAYES:

10 Q. All right. And, so, it's not your proposal, but it's
11 your position that the Commission would immediately suspend
12 the existing tariff based on logical grounds.

13 A. If the Commission felt that there was not sufficient
14 evidence in this proceeding that the costs outweigh the
15 benefits--or the other way around, the benefits outweigh the
16 costs and could not impose the 4.65, then likewise, it doesn't
17 seem reasonable that the credits, the compensation that net
18 metering customers get is also--could also be deemed
19 reasonable.

20 Q. In your experience, working for the utility, are you
21 familiar with any incidence of the--
22 there being insufficient evidence of a proposal that then
23 necessitated a revocation of existing tariffs?

24 A. I don't know if there are other situations like this.

25 Q. All right. That's fine.

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Your--let's see. Is it correct that residential net metering penetration is about--at about a tenth of a percent?

A. I'll take that subject to check.

Q. Okay. And it--there's more commercial megawatt hours net metered than residential. Is that correct?

A. I believe that's the case, yes.

Q. And in your proposal, you're looking only at distribution costs and distribution peak. Is that correct?

A. Distribution costs and customer service cost.

Q. Right. Sorry. Retail costs, as well.

And then--but you haven't looked at system peak, for example.

A. No. We use the system peak to allocate generation of transmission costs and we have not proposed any change to the rate structure for net metering customers associated with those costs. Those entirely reside in the energy charge.

MS. HAYES: All right. I think that's all of my questions. Thank you.

THE HEARING OFFICER: We'll be off the record.

MS. HOGLE: I just have one question.

THE HEARING OFFICER: On the record.

Ms. Hogle.

MS. HOGLE: Thank you.

FURTHER EXAMINATION

BY-MS.HOGLE:

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Q. Ms. Steward, you represented to--
responded to a question from Mr. Rossetti that the Company
had not provided evidence of each net metering as customer
total or gross consumption. In order to know the amount of total
or gross consumption, would it be necessary to add a second
meter for each net metering customer to measure the total
production by the net metering customer's generation?

A. Correct. That would be a second meter.

MS. HOGLE: Thank you.

THE HEARING OFFICER: Any questions from
commissioners?

Commissioner LeVar.

EXAMINATION

BY-COMMISSIONER LeVAR:

Q. I'd like to propose a hypothetical. As I was looking
at the existing and proposed clarifying, this question comes to
mind: If the Commission were to approve this fee that's been
proposed and if there were a net metering customer or--well,
customer with solar panels who generates very little excess
electricity, would that customer have the option to opt out of
receiving any credits for the excess generation and also opt out
of the fee at the same time?

A. That's not currently part of our net metering
proposal. It's not something that I've actually considered.

Q. Okay. I'd like to clarify something you said in your

1 introduction. And I apologize if this is in your testimony
2 somewhere that I didn't find. You stated that the proposed fee
3 is less than one cent per kilowatt-hour, on average. Was that
4 referring to billed usage or excess?

5 A. Billed--it's basically taking the \$4.65 divided by the
6 511, total usage.

7 Q. Total usage, billed usage.

8 A. Yeah.

9 Q. The Company's--one other question: And the
10 Company's chosen to propose this as a flat fee to all net
11 metering customers. Are there any of the Company's objectives
12 in terms of costs and benefits that would or would not be
13 satisfied if instead of a fee, the net metering credits were
14 reduced--did a percentage of retail in a manner that would
15 generate the same amount of revenue?

16 A. Yeah. That's another way to do it. It's a little bit
17 more complex billing. And I think it's more complex for the--it
18 may be more complex for the net metering customer to
19 understand. But, yes, rather than excess being the full retail
20 rate if it was a different amount, it would just be a different type
21 of rate structure. We went with the more simplistic fixed
22 charge.

23 COMMISSIONER LeVAR: That's all I have. Thank
24 you.

25 .

1 EXAMINATION

2 BY-THE HEARING OFFICER:

3 Q. I have a couple of questions, also. And these are
4 from a theoretical or philosophical perspective as--and I address
5 them to you as the designer of the Company's rate structure.

6 Regarding minimum bill customers, I believe you
7 have about 8,000 of those. Is that correct, roughly?

8 A. I don't know if it's the--I can consult my page real
9 quick.

10 There's 98,000 bills, so that would need to be
11 divided by 12, yeah.

12 Q. Roughly.

13 A. Yeah.

14 Q. Excuse me. Are your cost causation and recovery
15 concerns equivalent for those members of this class who are not
16 net metering customers--
17 some subset is, I believe. And I'd be interested if you have an
18 idea what the subset is, percentage--
19 on a percentage basis, for example. But are your concerns the
20 same for all members of this class?

21 A. For residential class?

22 Q. Uh-huh (affirmative) .

23 A. Yeah. I mean, it's generally been our concern
24 about fixed cost recovery and having that fixed cost recovery
25 coming through energy rates. And, so, we do have that concern

1 more broadly. But this is a very distinct type of customer, as
2 well, the net metering customer. It doesn't fit the same profile
3 as other residential customers. And, so, they are
4 distinguishable.

5 Q. And regarding the other minimum bill customers,
6 what would the distinction be? Could you articulate it for us?

7 A. The other minimum bill customers?

8 Q. Uh-huh (affirmative) .

9 A. No. I mean--so, we've agreed to an \$8 minimum
10 bill. That was a settled amount. You know, we believe that
11 average cost per customer is \$25 per customer. And that would
12 represent a fair monthly fixed charge. Eight dollars is a
13 compromise with the parties for a minimum bill.

14 Q. If I were to explain to residential customers in
15 general why a net metering charge would be imposed on part of
16 this--part of the customers who receive a minimum bill but not
17 others, what would my explanation be? How would the
18 Commission articulate that rationale?

19 A. I guess I'm confused by "the minimum bill." So, the
20 minimum bill applies to all customers--

21 Q. Uh-huh (affirmative) .

22 A. --but it has a minimum level of kilowatt-hour
23 consumption as sort of within that. But to us the difference with
24 these customers is that they--it's the rate mechanism of net
25 metering allows, you know, a larger credit than what the actual

1 benefits are to the system. And, so, they're actually being
2 compensated at these energy rates. And, therefore, they're not
3 paying for the fixed costs that are necessary to serve them.
4 And, so, the 4.65 helps balance those interests between the net
5 metering customers and all other residential customers who
6 ultimately end up picking up those costs.

7 Q. So, I think what I'm hearing you say is the
8 distinction is that the net metering customers are providing
9 energy for which they're being compensated at the full retail
10 rate, whereas the other minimum bill customers are receiving a
11 minimum bill for some other reason.

12 A. They're receiving a minimum bill that because
13 they're very small use customers and the minimum bills reflects
14 the fact that there are these fixed costs associated with them.
15 You know, we still think the \$8 is probably lower than we would
16 like, but that's, you know, where we've reached agreement with
17 the Office and the DPU. Typically, we disagree on residential
18 rate design with the Office and DPU in most cases. And this net
19 metering facilities charge is actually one issue that we've always
20 agreed--I mean, we seem to be in agreement on. So, it's sort of
21 unique in our experience of residential rate design.

22 Q. If the net metering charge is imposed, have you
23 looked down the road to what might happen to it, if anything,
24 when or if penetration would reach 10 percent or 20 percent of
25 the residential customer base?

1 A. No. What we've kind of looked at is, and what
2 we're starting to do a little research on is, how we can
3 distinguish these customers, sort of separate them out in the
4 cost-of-service study and develop a cost allocation designed for
5 them, and then rates that would better reflect that cost
6 causation.

7 I think we want to add more transparency into the
8 rates for these customers. We'd like to add it in for all
9 customers. But the net metering, in particular, we can better
10 capture that through, like, a fixed charge, a demand charge, and
11 a three-part--or a--and an energy rate. And at the minimum, you
12 know, the fixed charge, the 10.65 that was ultimately proposed
13 here would be the starting point for that fixed charge that we
14 would propose for a subgroup.

15 Q. And are there reasons why you didn't propose the
16 more disaggregated approach to net metering customers? In
17 other words, looking at all the costs and including a demand
18 charge and those kinds of things that you've sort of --in your
19 direct testimony and your summary today, is there a reason why
20 those weren't presented in connection with this case?

21 A. We're really on a learning curve with solar. Solar
22 is--it's rapidly evolving. The technology costs are coming down.
23 We're learning more as that penetration increases. I think we're
24 all going to continue to learn--and refining residential rates,
25 refining all rates is something we're constantly doing. And, so,

1 down the road we want a little more data in order to better
2 refine that kind of rate structure for these customers.

3 But we didn't want to wait, you know, another--and
4 at this point, it would be another two years before we would
5 have new rates that could go into effect. But we wanted to do
6 something now to address it before, you know, we got to those
7 high penetrations, because we recognize it would probably
8 require a rate case to do that. And in the event we somehow
9 are out of a rate case for many years, we would like something
10 in place that better captures that cost causation as this
11 customer group grows.

12 THE HEARING OFFICER: Those are all my
13 questions. Any questions based on those of the Commission?

14 Thank you, Ms. Steward. You're excused.

15 THE WITNESS: Thank you.

16 THE HEARING OFFICER: Ms. Roberts.

17 MS. ROBERTS: I actually had one question
18 relating within the scope of the Company's redirect, if I may.

19 THE HEARING OFFICER: That's fine. It could
20 address ours, as well. We allow that occasionally. We just
21 want the best information we can receive, so . . .

22 MS. ROBERTS: Absolutely. I agree. That's very
23 important.

24 FURTHER EXAMINATION

25 BY-MS.ROBERTS:

1 Q. You were asked about the need to add an
2 additional meter in order to capture information about gross
3 consumption. Am I recalling that correctly?

4 A. Yes.

5 Q. Are you going to be adding additional meters of
6 that type as part of the load research study you mentioned in
7 your rebuttal testimony?

8 A. Yes. We're seeking to add an additional--both a
9 meter to measure the full consumption, as well as a load
10 research meter on the consumption they receive from the utility.

11 Q. And how many customers will be included in that
12 study?

13 A. I want to say 62.

14 Q. All residential?

15 A. All residential net metering, yes.

16 Q. Why is the study limited to 62 customers?

17 A. Well, it's--the load research--that's being handled
18 through a different group department--
19 research department, but my understanding that is a statistically
20 valid sample size.

21 MS. ROBERTS: Okay. Thank you very much.

22 THE HEARING OFFICER: Thank you. You're
23 excused.

24 Next witness.

25 MR. MOSCON: The Company would call Mr. Greg

1 Duvall.

2 THE HEARING OFFICER: Do you solemnly swear
3 that the testimony you're about to give shall be the truth, the
4 whole truth, and nothing but the truth?

5 THE WITNESS: I do.

6 THE HEARING OFFICER: Thank you. Be seated.

7 GREGORY DUVALL, being first duly sworn, was
8 examined and testified as follows:

9 EXAMINATION

10 BY-MR.MOSCON:

11 Q. Good afternoon, Mr. Duvall. Have you prepared
12 and submitted rebuttal testimony in this proceeding?

13 A. Yes, I have.

14 Q. And do you have any corrections that need to be
15 made to your testimony?

16 A. No, I don't.

17 Q. And if I were to ask you the questions set forth in
18 your prefiled rebuttal testimony, would your answers today be
19 the same as they are in the papers that were submitted to the
20 Commission?

21 A. Yes.

22 MR. MOSCON: Based on that, I would move to
23 submit the rebuttal testimony of Mr. Gregory Duvall into the
24 record.

25 THE HEARING OFFICER: Any objections?

1 They're received.

2 BY MR. MOSCON:

3 Q. Mr. Duvall, have you prepared a summary of your
4 testimony that you could share with the Commission?

5 A. Yes, I have.

6 Q. Please do.

7 A. Okay. So, in my testimony, rebuttal testimony, I
8 respond to the Commissioners' April 16 public notice requesting
9 input on SB 208. I provide evidence that the costs of the net
10 metering program to customers and the Company, which ranges
11 from 8.8 cents to 14.4 cents per kilowatt-hour, is over three
12 times the value of the energy, which is about 3 cents per
13 kilowatt-hour. And the difference in this cost must be absorbed
14 by non-net metering customers.

15 My rebuttal response--I'm sorry. Given this large
16 disparity, I conclude that the net metering charge of \$4.65 per
17 month proposed by the Company or less than 1 cents per
18 kilowatt-hour is justified at this time.

19 My rebuttal testimony responds to the testimony of
20 three intervenors. I'll summarize why each of their respective
21 conclusions is flawed. I note Dr. Mulvaney's cost-benefit
22 analysis is incomplete because it does not include the 8.8 to
23 14.4 cents cost to the customers. I also note that the 6.1 cent
24 per kilowatt-hour that results from his use of the California
25 method is twice the amount that's produced by the recently

1 approved avoided cost here in Utah.

2 It's driven, in large part, by the assumption that the
3 avoided energy cost is always based on displacing a combined
4 cycle gas plant, the fuel cost. But the Company's actually able
5 to displace a number of resources. And that's modeled through
6 its production cost model, the grid model.

7 In addition, I note that he's included a capacity cost
8 during the test period based on the cost of deferring a simple
9 cycle consumption turbine, an approach that was recently
10 rejected by the Commission in Docket 12-035-100, the
11 renewable avoided cost proceeding.

12 And then, finally, I note that his results are not
13 intuitive and do not reflect reality, as they reflect the highest
14 energy value in May, which is in the middle of the spring runoff
15 hydro season where typically your avoided energy costs are at
16 their lowest.

17 Next, I address the testimony filed by Mr. Miksis,
18 who argues the Commission should defer consideration of a
19 monthly charge until additional study work is done. I believe
20 that the Commission has enough evidence in front of it in this
21 proceeding to make the determination that it needs to make
22 under SB 208.

23 Finally, I address the testimony of Ms. Wright and
24 Mr. Gilliam, who also recommend the Division put off the
25 discussion until further analysis can be done. I noted--as noted

1 previously, the Commission has adequate evidence, I believe, at
2 this time.

3 Ms. Wright also presents a value solar study
4 claiming the value of solar is nearly equal to the cost of solar
5 for residential customers. I point out that Ms. Wright's avoided
6 cost study includes adders for environmental cost and fuel risk,
7 which have been previously addressed by this Commission in
8 the renewable avoided cost docket and rejected.

9 In addition, Ms. Wright's avoided cost study suffers
10 from the same deficiency as Dr. Mulvaney's study in that it
11 assumes energy avoided costs are based on displacing the fuel
12 from a gas plant resulting in energy avoided costs that are
13 about two cents higher than what would be produced by the
14 Company's production cost model.

15 So, in conclusion, I believe the 3-to-1 disparity
16 between the costs and benefits in net metering gives the
17 Commission sufficient evidence to approve the Company's
18 proposed monthly fee.

19 Thank you.

20 MR. MOSCON: Thank you.

21 Mr. Duvall is available for cross-examination.

22 MR. JETTER: Division has no questions for Mr.
23 Duvall.

24 MR. COLEMAN: The Office has no questions.

25 Thank you.

1 EXAMINATION

2 BY-MR.ROSSETTI:

3 Q. Back to me. Okay. Just have a couple of
4 questions. How much does it cost the Company when my solar
5 system generates an excess kilowatt-hour, it goes to my
6 neighbor? How much does it cost to deliver that kilowatt-hour?

7 A. I don't know.

8 Q. Okay. If I'm sharing the same little junction out at
9 the corner of my lot, which is actually my particular case--so, it
10 goes through a little bus bar and directly into my neighbor's
11 house, no idea what the cost of that is. Would you--sorry. I
12 should let you answer the question.

13 A. Yeah, I guess I don't. I think it's probably more of
14 a technical issue. I think you'd probably need to have the--sort
15 of the backbone system to provide voltage support and reliability
16 and all that.

17 I'm not quite sure the example that's being put
18 forward.

19 MR. MOSCON: And I guess--I'm not trying to
20 overlawyer this for the Commission. I was going to make an
21 objection of assuming facts not in evidence. I think some of the
22 questioning about a system in Mr. Rossetti's yard, none of us
23 have the specifics, but we probably have different ideas of
24 whether or not his system really is feeding his neighbor's
25 directly or not. So, I'm not sure how the witness answers those

1 questions, but I guess I'll just--I'm not trying to stifle
2 questioning, but I'm noting that I think we're running into that
3 problem, where the Company and the questioner have different
4 ideas of how that equipment is operating.

5 THE HEARING OFFICER: Thank you. I think Mr.
6 Duvall said he's unclear, as well, so . . .

7 BY MR. ROSSETTI:

8 Q. Okay. How much is that neighbor charged for that
9 excess kilowatt-hour that I have produced and sent over some
10 unknown path to his house?

11 A. My understanding is that they would pay anywhere
12 from 8.8 cents per kilowatt-hour to 14.4 cents per kilowatt-hour,
13 depending on which rate block they're in.

14 Q. Okay. Was any fuel consumed in the production of
15 that kilowatt-hour--was any Company fuel consumed by the
16 Company, you know, in production of that kilowatt-hour of
17 excess that was delivered to the neighbor?

18 A. Again, it's kind of a--I guess there's the supporting
19 system. I think this Commission has determined that there are
20 integration costs to solar. And that would typically be
21 done--provided by one or more thermal resources--

22 (Reporter/witness discussion to clarify the record.)

23 THE WITNESS: It would be done by the use of a
24 thermal resource which uses fuel.

25 BY MR. ROSSETTI:

1 Q. Okay. So, I take it your answer was no, no fuel
2 was consumed. That's really all I wanted to know from you.
3 Thank you.

4 THE HEARING OFFICER: Mr. Culley.

5 MR. CULLEY: Thank you.

6 EXAMINATION

7 BY-MR.CULLEY:

8 Q. Mr. Duvall, good afternoon.

9 A. Good afternoon.

10 Q. So, you mentioned part of your testimony was
11 responding to past witness about--
12 whether SB 208 requires cost-benefit consideration. Is that
13 correct?

14 A. Can you point me to where you're looking?

15 Q. It's from your summary. Maybe I'm misquoting you.
16 If you could give me the gist of that critique.

17 A. No. That's--I think that's right.

18 Q. Fair enough. And are you aware of other States
19 that have undergone cost-benefit analyses of their study of their
20 NEM programs?

21 A. I'm aware of other States that have done that, most
22 recently the State of Nevada. But I would just point out that the
23 SB 208 language doesn't call for a study. Calls for public notice,
24 opportunity for comment, and a determination by the
25 Commission. But it doesn't actually use the word "study" or

1 "analysis" anywhere that I could see.

2 Q. Okay. So, if we look at QFs, particularly here,
3 would you agree that across the country, the eligibility for
4 receiving a QF rate, given that there are different methodologies
5 in different places, that eligibility is standard, would you agree
6 that's the case for--I'm talking just for getting QF, not talking
7 about standard rates.

8 A. Well, I thought I heard you talking about standard
9 rates, but it's required to offer avoided cost to QFs of 100
10 kilowatts or less.

11 Q. Right. And some States set their standard rate,
12 which is a minimum of 100 kW. Some set it higher; some set it
13 lower--or not lower. Relative to each other is what I mean. But
14 overall, the types of technologies that can participate with QFs,
15 it's going to be standard across the country. Is that right?

16 A. Yeah. That's correct.

17 Q. And QFs can locate pretty much wherever they like,
18 where they interconnect that's feasible for them--feasible for
19 them.

20 A. Yeah. That's correct.

21 Q. Now, would you recognize that net metering
22 programs have a lot more restrictions on eligibility and system
23 sizes and wherever they can locate?

24 A. I'm really not familiar with the requirements of the
25 net metering program.

1 Q. Okay. Would you accept, subject to check--I can
2 provide, actually--if you would like, I can provide the definitions
3 from statute what is a customer generator system, or we could
4 just accept it, subject to check--that it's an eligible facility that
5 uses--that is used to supply energy to or for specific customer
6 that has a generating capacity of not more than 25 kilowatts for
7 a residential facility or not more than 2 megawatts for a
8 nonresidential facility, and omitting one little bit about the
9 governing authority wants to approve credit.

10 MR. COLEMAN: I'm sorry. Can you pass on the
11 cite to that?

12 MR. CULLEY: Oh, yes. So, this is Section 54--or, I
13 mean--sorry--it's Title 54, Chapter 15, Section 102.

14 MR. COLEMAN: Thank you.

15 MR. CULLEY: You got it.

16 BY MR. CULLEY:

17 Q. And second criteria is, "Located on or adjacent to
18 the premises of the electrical corporation's customer, subject to
19 the electrical corporation's service departments." Third criteria
20 is, "Operates in parallel, is interconnected." I'm paraphrasing
21 here just for brevity here.

22 So, the point is, net metering customers have
23 certain restrictions they need to locate with the customer's load.
24 Is that correct?

25 A. Yeah. I presume that's based on what you just

1 read.

2 Q. And if generation is located next to customer's
3 load, transmission constraints wouldn't be an issue with that.
4 Isn't that correct?

5 MR. MOSCON: Objection, I guess, to vagueness.
6 Are you talking--are we talking about the self-generation at their
7 own house or the exported energy that goes out to the grid?

8 MR. CULLEY: Be happy to clarify.

9 THE HEARING OFFICER: Thank you.

10 BY MR. CULLEY:

11 Q. Let's talk about without exports at all here. If a
12 customer generator is consuming on-site, that electricity was not
13 delivered to them, that doesn't implicate transmission
14 constraints. Is that correct?

15 A. That's correct, during the time that they are
16 producing.

17 Q. And if they export and that electricity is consumed
18 nearby without getting up to the transmission level, which would
19 be a problem, I think, that's not contributing to transmission
20 constraints. Is that right?

21 A. Well, I would take exception with the notion that it
22 couldn't go beyond the local neighborhood. I mean, we
23 don't--electricity just flows where it's going to flow, but . . .

24 Q. But to the extent it doesn't use the transmission
25 system to go across the State.

1 A. Yeah, but that's only during the time that the
2 customer would be producing. For the remaining hours of the
3 year when the sun's not shining or there's cloud cover or things
4 like that, they'd be using the system just like any other
5 customer.

6 Q. Okay. And a QF could locate anywhere, so they
7 may or may not--that would be a specific--
8 you'd have to look at that case-by-case. Is that correct?

9 A. For transmission constraints, I presume?

10 Q. Yes.

11 A. Yes.

12 MR. CULLEY: What I'd like to do--this is a cross
13 exhibit that's already been introduced today. It's marked as
14 TASC Cross Exhibit 3. If I can approach, I'll provide a copy.

15 THE HEARING OFFICER: You may approach. You
16 may approach.

17 BY MR. CULLEY:

18 Q. Okay. I'd like to look at TASC data Request 2.18.
19 And in subpart A, we ask, "Has the Company completed a solar
20 integration study?" And your response below is, "No." Is that
21 correct?

22 A. That's correct.

23 Q. And subpart B says, "Is it Mr. Duvall's contention
24 that there is no difference in terms of energy value, line losses,
25 generation capacity value, and transmission and distribution

1 value between large-scale solar farms and rooftop systems that
2 serve on-site load and are often located close to load centers?"

3 And you answered, "No."

4 A. Yeah, that's correct, because the question was--
5 basically said, Is it my contention there's no differences in all of
6 that list? But I think if there were items that would be different
7 between a QF and a--whether it's on a rooftop or out
8 somewhere, there may be some distribution loss savings
9 associated with a rooftop facility, but I would also consider the
10 energy to be non-firm. With QFs, we actually have contracts.
11 They have obligations to deliver. So, we have firm power
12 coming from QFs. And I would think that the rooftop solar would
13 be non-firm. So, those two factors are a bit offsetting, because
14 losses would increase the rooftop solar and lack of firmness
15 would decrease it.

16 Q. And has thing company--let me rephrase this. Do
17 you have knowledge of the ongoing efforts to produce a solar
18 integration study?

19 A. Secondhand, yeah, our integrated resource
20 planning group is--I haven't seen the schedule for that. We
21 were ordered to produce two different studies out of the avoided
22 cost docket. One was the ELCC, energy load carrying capability
23 study. That one's nearly complete. And the other one is a solar
24 integration study, which would be next in line.

25 Q. Okay. And if you don't have knowledge, this is

1 fine, but do you have knowledge of whether that solar
2 integration study will look at small systems? I mean, of any
3 variation--100 kW, 10 kW--or is this going to be more of the QF
4 size facilities up to 3 megawatt on the study right here?

5 A. I'm not in charge of scoping that. I don't think
6 that's a fair question.

7 MR. CULLEY: I don't have any further questions.
8 Thank you.

9 THE HEARING OFFICER: Ms. Roberts.

10 EXAMINATION

11 BY-MS.ROBERTS:

12 Q. Good afternoon, Mr. Duvall.

13 A. Good afternoon.

14 Q. Follow up on one of Mr. Culley's questions in
15 reference to the data request response where you said you
16 didn't think--there were no differences between those two types
17 of solar resources. And you mentioned that there may be some
18 items that were different. And you said specifically distribution
19 losses could be a difference between those two types of
20 resources, but that it essentially doesn't matter, because you
21 consider the rooftop resource to be non-firm. Am I correctly
22 summarizing what you just testified to?

23 A. That's right.

24 Q. Okay.

25 A. Which would make the three cents, which is the

1 firm price for QFs, about the same for rooftop.

2 Q. Well, my question is that you seem to be discussing
3 different potential costs and benefits of rooftop solar. But
4 you--you're making an assumption that the diminished value of it
5 being a non-firm resource kind of eliminates any potential
6 benefit that might come from rooftop solar. And I'm wondering
7 whether the company's considered doing any actual analysis
8 balancing out the potential costs and potential benefits, as you
9 have summarized.

10 A. Of the rooftop solar?

11 Q. Uh-huh (affirmative) .

12 A. Well, I think it's probably inevitable that some of
13 the States, including Utah, are probably, you know, going to
14 want to look at that.

15 Q. Okay. You also mentioned, in response to one of
16 Mr. Culley's questions, that the Utah Statute SB 208 doesn't call
17 for this Commission to do an independent study or analysis. Did
18 I correctly state your position and response to Mr. Culley's
19 question?

20 A. Yeah. And I'm looking at my testimony on page .1.

21 Q. Okay.

22 A. Bottom of the page .1 and top of page .2. And that
23 was a group of words I was working from.

24 Q. That's good. I'm looking at those words, as well.

25 A. Okay.

1 Q. And it says the governing authority shall determine,
2 after written notice and opportunity for public comment, whether
3 the costs and the benefits--you know, which one will exceed the
4 other, to paraphrase the end of that.

5 A. Right.

6 Q. Doesn't the Commission making a determination
7 call for some kind of study or analysis of the underlying
8 question?

9 A. Well, I think that's--I mean, that's why I provided
10 the information I provided, because I think a lot of this work has
11 already been done in the avoided cost setting, that we've looked
12 at the value of solar QFs. And that was a--you know, we looked
13 at a lot of different issues. We looked at the environmental
14 adders. We looked at the fuel risk volatility adders and other
15 things like that. I mean, it was fairly recent. That order was in
16 August of 2013. So, it's something the Commission's fairly
17 recently looked at. And I thought it was applicable in this case.
18 And it's up to the Commission as to whether they think it's
19 applicable.

20 Q. Thank you, Mr. Duvall. Since we're going to be
21 having a lot of discussion, I think, today, about the difference
22 and similarities between qualifying facilities and rooftop solar
23 systems, could you offer your understanding of what a qualifying
24 facility is?

25 A. Well, and we're talking about solar qualifying

1 facilities, so they would qualify as a small power producer up to
2 80 megawatts. This Commission has two schedules-- Schedule
3 38, which is for facilities over three megawatts, and then
4 Schedule 37, which is for facilities up to three megawatts.

5 Q. Thank you. And what laws govern this
6 Commission's determination as to avoided cost for qualifying
7 facilities?

8 MR. MOSCON: So, I guess I'll object, if we're
9 looking for legal conclusions as to the breadth of all laws that
10 are governing. So, I'm not sure if she's asking what statutes do
11 or don't apply. But if you understand the question subject to
12 that objection, I don't mean to cut you off.

13 THE WITNESS: Yeah. I mean, the overriding
14 legislation is the Federal PURPA, Public Utility Regulatory
15 Policies Act of 1978. I don't know what else is applicable
16 beyond that.

17 BY MS. ROBERTS:

18 Q. Okay. So, that's some Federal law that guides this
19 Commission in its exercise of discretion regarding qualifying
20 facilities, correct?

21 A. That's correct.

22 Q. Does that Federal law apply to the State's net
23 metering mandate for utilities?

24 MR. MOSCON: Objection to the extent it calls for a
25 legal conclusion.

1 THE HEARING OFFICER: Yes. I'm going to
2 sustain the objection.

3 BY MS. ROBERTS:

4 Q. Mr. Duvall, could you explain your position in the
5 Company? I think that I--that was introduced in your direct
6 testimony many months ago and I'd like to be reminded.

7 A. Sure. I'm the director of net power cost, and in that
8 role am responsible for all our power cost studies, whether
9 they're for setting rates in a general rate case or setting avoided
10 costs. Also have--the load forecasting group reports to me.
11 And I am also in charge of renewable compliance with
12 renewable portfolio standard laws.

13 Q. And you offer Commission--I'm sorry. You offer
14 testimony to this Commission regarding the Company's
15 proposed avoided cost methodologies for qualifying facilities,
16 correct?

17 A. So, my testimony was in response to testimony
18 from other parties who put in valuation studies or addressed the
19 issue of solar valuation. In that regard, I rebutted what they put
20 in. And I also put in evidence that I thought was useful for the
21 Commission to make a determination under SB 208.

22 Q. Thank you, Mr. Duvall, but I apologize. That was
23 not my question. I'm asking more generally about your duties at
24 the Company and asking whether you intend to file testimony in
25 this Commission's avoided cost dockets for qualifying facilities.

1 Is that part of your role in the Company?

2 A. That is part of my role. I was the witness on
3 avoided cost methodology in 12-035-100.

4 Q. And in order to offer your opinion to the
5 Commission regarding their avoided cost methodology, you have
6 a basic level of familiarity with the applicable rules that
7 govern--that apply under PURPA and this Commission
8 precedence, correct?

9 A. Yeah. I've got a general understanding of past
10 Commission orders on avoided cost and what they've done in
11 the past, those sorts of things.

12 Q. Okay. And you stated earlier today that you're not
13 that familiar with the requirements of the net metering program.

14 A. That's correct.

15 Q. Okay. So, you don't consider yourself to have that
16 kind of working knowledge of the laws that govern the net
17 metering program.

18 A. I do not. And I'm not an attorney, anyway.

19 Q. So, the rules could be different from the ones that
20 apply in an avoided cost qualifying facility proceeding. Is that
21 correct?

22 A. I'm sure they are.

23 Q. On page .2 of your rebuttal testimony, you
24 state--and let me know when you're there.

25 A. I'm there.

1 Q. Okay. You state that, "In another docket, the
2 Commission addressed the value of solar as it applies to
3 qualifying facilities. The benefit of the freed-up power in 2015
4 is about \$30 per megawatt-hour." And you are referring to
5 Docket No. 14-035-T04 in that sentence, aren't you?

6 A. Yes, I am. And the reason I did that is
7 because--that's our proposal in front of the commission, but
8 we've proposed for Schedule 37 to adopt the things that the
9 Commission adopted for Schedule 38. But Schedule 38, every
10 pricing proposal we put together is individually customized to a
11 project and the numbers are confidential, so I wanted to have a
12 source of information I could use that wasn't confidential, so I
13 looked to our Schedule 37 filing.

14 Q. Thank you. So, the Commission hasn't approved
15 this \$30 per megawatt-hour as your new Schedule 37 rate.

16 A. They have not, but they've approved a methodology
17 for Schedule 38 which produces those types of numbers.

18 Q. The Commission hasn't necessarily agreed with you
19 yet that the factors relevant to Schedule 38 also apply to
20 Schedule 37.

21 A. No, they haven't. That docket is still in process.

22 Q. Thank you. What are the existing Schedule 37
23 rates for--the existing Schedule 37 rates? I'll just leave it at
24 that.

25 A. I--my recollection is, because of the way the

1 capacity payment works, that QFs get paid for the highest 15
2 minutes of production during a month. So, basically, they get
3 their nameplate for the capacity. And during the sufficiency
4 period, there's a payment for the avoidance of the simple-cycle
5 combustion turbine. So, when you add the capacity to the
6 energy, the current rates are somewhere around \$100 a
7 megawatt-hour.

8 Q. So, the Company has proposed a significant
9 reduction in that rate.

10 A. We've proposed a rate method that moves it from
11 about \$100 to \$30 in the first year.

12 Q. Okay. Thank you. What is your understanding of
13 what kinds of avoided costs can be included in the rate paid to
14 qualifying facilities?

15 A. I think lots of things. I mean, but it's usually
16 capacity and energy. Certainly, the Commission considered
17 environmental cost and fuel risk--risks avoidance cost in the last
18 docket.

19 Q. What was the basis for the Commission rejecting
20 those costs, if you recall?

21 A. I'd have to go read the order.

22 Q. Is it your position that the Commission is required
23 to rely on its existing avoided cost methodology for the purposes
24 of assessing the benefits of net metered solar?

25 A. Well, I think it's a useful metric. I mean, it

1 doesn't--I don't see a difference between solar generation,
2 whether it's on a rooftop or a hilltop. They should be fairly
3 similar in nature in terms of their value.

4 Q. But you don't think that the Commission is required
5 to apply the avoided cost value to rooftop solar?

6 A. I don't think so, no.

7 Q. Okay. Still on page .2 of your rebuttal, sir, on
8 line--beginning on line 44, you referred to a difference between
9 the cost and benefits of net metering. You gave a range from
10 5.8 cents to 11.4 cents. Is that correct?

11 A. That's correct.

12 Q. And you got those two numbers by subtracting
13 three cents per kilowatt-hour from the different retail rate tiers.

14 A. That's correct.

15 Q. Okay. And, so, here you have defined the benefits
16 to the utility of net metered solar as equal to the PURPA
17 avoided cost rate.

18 A. Yes.

19 Q. And you've defined the cost to the utility as the
20 retail rate.

21 A. That's right.

22 Q. So, is it your view that SB 208 requires this
23 Commission to undertake an evaluation, after appropriate notice
24 and opportunity for public comment, of whether 8.4 cents is
25 greater than 3 cents or whether the reverse is true?

1 MR. MOSCON: Objection to the extent it calls for a
2 legal conclusion. I don't object if the question is what the
3 Company did or anything like that, but if she's asking for a legal
4 conclusion, I'll object to that request.

5 THE HEARING OFFICER: Mr. Duvall, just express
6 your opinion--

7 THE WITNESS: Okay.

8 THE HEARING OFFICER: --in response to the
9 question, please.

10 THE WITNESS: Yeah. I think it was asking for a
11 legal opinion. And as I mentioned before, I'm not a lawyer.

12 BY MS. ROBERTS:

13 Q. Mr. Duvall, you've offered an opinion about what
14 you believe the term "benefits" in SB 208--how that term should
15 be defined, correct?

16 A. No, I haven't. I've offered evidence to the
17 Commission on what I believe the benefits are and what I
18 believe the costs are. And the Commission can interpret SB
19 208 in the way they see fit. I'm just providing evidence for them
20 to work with.

21 Q. Thank you. So, you have offered your opinion to
22 the Commission that the cost of the retail rate and the benefits
23 of the avoided cost rate, Rocky Mountain Power proposed net
24 metering facilities charge is not based on the difference
25 between the retail rate and the avoided cost rate, is it?

1 A. No. In fact, that difference was what you were
2 citing, the basically 6 to 11 cents, and the \$4.65 charge is about
3 1 cent per kilowatt-hour.

4 Q. Uh-huh (affirmative) . So, how does that relate to
5 the 4.65 monthly charge?

6 A. I'm sorry. How does what relate?

7 Q. I'm sorry. The difference between the costs and
8 benefits that you have cited, 6 to 11 cents, how was that
9 incorporated into the company's rationale for the proposed fixed
10 charge?

11 A. Well, I wasn't in charge of preparing the fixed
12 charge. I believe that was all based on cost of service as
13 described by Ms. Steward.

14 Q. So, when Rocky Mountain Power was developing
15 the structure of the charge that it was going to propose, they
16 weren't aware of your assessment of what the benefits were of
17 net metered solar.

18 A. I don't know what they were aware of, but my
19 understanding was it's all about cost of service. And that was
20 detailed in Ms. Steward's testimony.

21 MS. ROBERTS: I have no further questions.

22 THE HEARING OFFICER: Ms. Hayes.

23 MS. HAYES: Thank you.

24 EXAMINATION

25 BY-MS.HAYES:

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Q. Hello, Mr. Duvall.

A. Good afternoon.

Q. We meet again to discuss avoided costs.

A. That's right.

Q. Actually, thanks to Ms. Roberts, I just X-ed out half of my questions for you.

A. Perfect. Well, I've only got five more pages that she didn't ask about.

Q. All right.

THE HEARING OFFICER: Ms. Hayes, just before you start, we're about at a point of a recess.

MS. HAYES: Uh-huh (affirmative) .

THE HEARING OFFICER: How much do you have?

MS. HAYES: I would say 15 minutes is my--is a good outside estimate. And I really apologize if that's way off, but I don't have very many questions.

THE HEARING OFFICER: We won't hold you to it, but why don't we take a break until ten after the hour.

(Recess taken, 2:58-3:12 p.m.)

THE HEARING OFFICER: We're back on the record.

Ms. Hayes.

MS. HAYES: Thank you, Commissioner Clark.

BY MS. HAYES:

Q. Hello again.

1 A. Hello again, too.

2 Q. All right. I would like to point you to page .5 of your
3 testimony, starting at line 101.

4 A. Got it.

5 Q. You say, "There is no reason to apply different
6 standards to rooftop solar versus a QF with regard to energy
7 value, capacity value"--

8 THE REPORTER: A little slower, please.

9 MS. HAYES: Oh, I'm so sorry. Would you like me
10 to start over?

11 THE REPORTER: Thank you.

12 THE HEARING OFFICER: Before you do that, we
13 tried to open some doors, but I'm having difficulty hearing just
14 because of noise in the hall, so I think we'll at least close these
15 couple--thank you, Mr. Rossetti.

16 Maybe we can leave a couple open in the back and
17 get some--let's try--see if we can get a little cross breeze going.
18 Thank you.

19 Ms. Hayes.

20 MS. HAYES: Thank you.

21 BY MS. HAYES:

22 Q. So, back to my reading, which I will do slower, at
23 line 101, you say, "There is no reason to apply different
24 standards to rooftop solar versus a QF with regard to energy
25 value, capacity value, integration costs, or the imputation of

1 environmental costs or other adders. These were all decided in
2 Docket No. 12-035-100." Is that correct?

3 A. That's correct.

4 Q. And you participated in that docket, correct?

5 A. Yes, I did.

6 Q. And the issue of whether it was appropriate to
7 evaluate demand-side solar in the same manner as supply-side
8 QFs was not addressed in that docket, was it?

9 A. No, it was not.

10 Q. But here you're asking the Commission to make
11 that determination. Is that correct?

12 A. That is correct. I'm--I presented the information in
13 this docket from that docket as what I think is something the
14 Commission can rely on.

15 Q. Okay. Are you familiar with Utah Docket No.
16 09-035-27?

17 A. Not by number.

18 Q. Okay. It was called in the matter of the proposed
19 revisions to the Utah demand-side resource program
20 performance standards.

21 A. I wouldn't have been involved in that.

22 Q. Okay. So, that wasn't something you consulted in
23 making your recommendation.

24 A. No, it was not.

25 Q. So, I'm assuming you're not aware that the Utah

1 Commission has specifically ruled on the issue of evaluating
2 distributed solar programs as demand-side resources versus
3 supply-side resources?

4 A. I'm not aware, no.

5 Q. All right. Are you familiar with the five demand-
6 side management cost-effectiveness tests?

7 A. I've seen them recently, but I don't work with them.

8 Q. All right. And, so, you're not aware that the five
9 cost-effectiveness tests that are used in Utah to evaluate
10 demand-side management programs are similar to the solar
11 cost-benefit analysis recently completed in Nevada.

12 A. Well, that's actually where I saw it was in the E3
13 study in Nevada. And they had the five different tests.

14 Q. Okay. And, so, based on the fact that you didn't
15 review this docket, you're not--I suppose you haven't made a
16 recommendation to the Commission to revoke its prior ruling to
17 evaluate distributed solar consistently with demand-side
18 management programs?

19 A. Yeah. As I said, I'm not familiar with that.

20 Q. All right. And, then, just one question about
21 avoided costs, for kicks and giggles. PURPA avoided costs deal
22 with sales of electricity to the utility. Is that correct?

23 A. Yeah. That's correct.

24 Q. Whereas, net metering is a billing mechanism that
25 credits kilowatt-hour generation against consumption. Is that

1 correct?

2 A. Well, I would characterize it as--I mean, it could be
3 thought of as sale to the utility at the tail block rate.

4 (Reporter/witness discussion to clarify the record.)

5 MS. HAYES: Okay. No further questions.

6 THE HEARING OFFICER: Thank you.

7 Redirect?

8 MR. MOSCON: Yeah.

9 BY MR. MOSCON:

10 Q. Mr. Duvall, I just have two short topics to cover with
11 you. The first is: I'll direct your attention to some questions
12 you were asked by Mr. Rossetti. And it was the line of
13 questions about whether or not you knew how much the
14 Company was getting or pocketing for the power that he--
15 you know, his system was--you know, providing to the neighbor.
16 And I guess I just want to ask this, to clarify your testimony for
17 the Commission: Is it your understanding that the power
18 company is able to for free? Because I believe that was the
19 implication, provide power to--whether it's Mr. Rossetti's
20 neighbor or anyone else as a result of excess provided by net
21 metered customers.

22 A. No.

23 Q. So, just to explain that, why or why not?

24 A. Yeah. The limited understanding I have is if a
25 customer generates more than they use from their net metering,

1 it gets into the system, but it's included in their bank. And, so,
2 when it's returned to them, the Company has to generate
3 something to make that power.

4 Q. And, so, is what you're saying equivalent to the
5 credit at retail rate?

6 A. Yes.

7 Q. The second topic I wanted to address with you is:
8 You were asked by counsel--actually, by multiple counsel on the
9 QF Docket 12-035-100. Do you recall those questions?

10 A. Yes, I do.

11 Q. And you had in an answer stated words to the
12 effect that in that docket the Commission had recently declined
13 to attribute value to avoided environmental risk or price hedges,
14 fuel hedges. And a question was asked, would you know why
15 they did that? And you responded words to the effect, "I'd have
16 to read the order." Do you recall that?

17 A. Yes, I do.

18 MR. MOSCON: If I might approach.

19 THE HEARING OFFICER: Yes.

20 MR. MOSCON: And I apologize. Not knowing I'd
21 be doing this, I don't have copies, but I'll represent to everyone
22 that I'm handing Mr. Duvall a copy of the order in 12-035-100,
23 and I'm turning to pages 41 to 42.

24 BY MR. MOSCON:

25 Q. And I'll ask you, Mr. Duvall--I--I've

1 underlined--please note that's not part of the original order--a
2 couple of lines. If you could just read that really quickly, the
3 underlying section.

4 A. Okay. "We have a difficult time, however, drawing
5 a correlation between avoided distribution and transmission
6 costs that may be projected and tested with a reasonable
7 degree of certainty (e.g., through transmission studies) and
8 environmental risk factors (e.g., costs associated with adapting
9 to changing climate) based upon divergent and speculative
10 projections."

11 Q. And the next sentence I've underlined there.

12 A. "Thus, for the foregoing reasons, we approve no
13 specific adjustments to value fuel price hedging, fuel price
14 volatility, or environmental risks."

15 Q. So, Mr. Duvall--now, I made a note--

16 THE HEARING OFFICER: Do you have an
17 objection?

18 MS. ROBERTS: No. I just actually wanted to know
19 what page you were on, because I have my own copy of the
20 order.

21 MR. MOSCON: Forty-one and forty-two.

22 And I was about to note for the record--this will
23 help you as well--the sections I underlined, there's a paragraph
24 in between those two lines that he read. So, that first
25 paragraph was in the first full paragraph on page .41 and the

1 second one was the first full paragraph of page .42.

2 BY MR. MOSCON:

3 Q. Mr. Duvall, does that refresh your memory as a
4 participant in that docket, what the Commission's findings were
5 to answer the question that was posed to you? Do you know
6 why the Commission declined to assign a value to a potential of
7 diverting threatened environmental risks?

8 A. Yeah. From what I just read, the Commission
9 determined that the estimates were speculative.

10 Q. And as a participant, and again, following up on a
11 question that you were posed, was it your understanding that
12 that was based on some kind of legal limitation or a factual
13 determination?

14 A. That would have been a factual determination.

15 Q. Okay. Thank you. No further questions.

16 THE HEARING OFFICER: Thank you.

17 Ms. Roberts, any questions based on those?

18 MS. ROBERTS: Yes. I do have one clarifying
19 question.

20 FURTHER EXAMINATION

21 BY-MS.ROBERTS:

22 Q. Mr. Duvall, as you just testified, your understanding
23 was that the Commission's decision to reject, including the other
24 avoided costs, was based on the inadequacy of the evidentiary
25 record in that matter?

1 A. Yeah. The estimates that were prevented--or
2 presented into the record were too speculative for the
3 Commission to adopt them for purposes of avoided cost.

4 Q. So, is it possible that such evidence could be
5 presented that would establish--basis for those avoided costs
6 that could satisfy the Commission?

7 A. Well, I think--I don't know. I mean, as I recall, UCE
8 had presented testimony in that case and had some numbers
9 they put together. And those were rejected, so they'd have to
10 present something different.

11 Q. So, the Commission has not held as a legal matter
12 that there are no such avoided costs associated with solar
13 resources--no fuel hedge costs, no avoided environmental
14 costs? Is that your understanding?

15 A. If I understand your question right, yeah, the
16 decision to exclude those costs was not based on the legal
17 opinion.

18 MS. ROBERTS: Okay. Thank you very much.

19 THE HEARING OFFICER: Anything further?

20 MR. MOSCON: No. Thank you.

21 MR. ROSSETTI: Since I was mentioned by
22 counsel, am I allowed to address?

23 THE HEARING OFFICER: If you'd like to, yes, Mr.
24 Rossetti, sure.

25 MR. ROSSETTI: Thank you. Appreciate the

1 introduction.

2 FURTHER EXAMINATION

3 BY-MR.ROSSETTI:

4 Q. When the customer who generates excess
5 electricity regardless where that excess goes, they get a credit.
6 Is that correct?

7 A. They do. That's right.

8 Q. Later in the day, they redeem that credit, which
9 means electricity is coming into their facility, their house, for
10 which they don't have to pay. Is that correct? Because it's a
11 credit, they're getting a full retail rate credit.

12 A. Yeah. They get paid full retail rate for that excess
13 power.

14 Q. Okay. And the argument is because we're
15 actually--that customer redeeming that credit is using the grid,
16 then they therefore should have to pay their share of the fixed
17 cost based on the consumption that they've redeemed the credit
18 for, correct?

19 A. That was the subject of Ms. Steward's testimony.

20 Q. Well, but you mentioned it and he just brought it
21 up, so I'm just trying to be clear here, because you know how
22 the system works, right?

23 A. Right.

24 Q. That's your job. Okay. Then, whoever gets that
25 excess electricity, however far it goes in the network, they pay

1 full price for that electricity.

2 A. That's right. They pay full price and the NEM
3 customer receives the full price.

4 Q. Thank you. And the customer that pays full price
5 did not incur--I'll be specific here--100 percent of the cost to the
6 Company to provide that electricity. Is that correct?

7 A. I don't know that I have the expertise to answer
8 that question.

9 MR. ROSSETTI: Thank you.

10 THE HEARING OFFICER: Thank you.

11 Anything further, Mr. Moscon?

12 MR. MOSCON: (Moves head from side to side.)

13 THE HEARING OFFICER: I have a couple of
14 questions, Mr. Duvall.

15 THE WITNESS: Okay.

16 EXAMINATION

17 BY-THE HEARING OFFICER:

18 Q. If I want to try to understand the benefits
19 associated with the net metering customer's power that's
20 generated, would I be right to take, in your mind, at least, the
21 avoided cost number that you proposed--the three cents a
22 kilowatt-hour and multiply that times the total generation of the
23 net metering customers on--in Utah? Would that give me a
24 sense of the dollar benefit that those customers are affording?

25 A. Yes, it would.

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Q. And, then, if I wanted to understand the cost, would I be right to take the charge that the Company's proposed--again, this is from the Company's perspective--and multiply that times the--well, you help me. What would I multiply that by to get?

A. To get the cost.

Q. To get the cost?

A. Yeah. It would be the 8.8 cents to 14.4 cents.

Q. Full retail--

A. Full retail.

Q. --rate that you described.

A. Yeah. And when you mentioned the cost to the Company, that's--you know, really in a rate case, that's cost to non-NEM customers.

THE HEARING OFFICER: Thanks.

THE WITNESS: All right.

THE HEARING OFFICER: Any other questions from other commissioners?

Thank you.

Any follow-up, Mr. Moscon?

You're excused, Mr. Duvall. Thank you.

Mr. Moscon.

MR. MOSCON: That concludes the Company's witnesses.

THE HEARING OFFICER: Thank you.

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Mr. Jetter.

MR. JETTER: One of our witnesses is still having travel difficulties. And, so, we have discussed it with the Office of Consumer Services that we're going to reverse order, if that's okay with the Commission.

THE HEARING OFFICER: That's a good approach. Thank you.

MR. JETTER: Thank you.

THE HEARING OFFICER: Thanks to the Office for your flexibility. Mr. Coleman.

MR. COLEMAN: Thank you.

THE HEARING OFFICER: Before you sit down, Mr. Gimble--but we're glad you set a good example for everyone here by taking your coat off. Everyone's got their coat on.

THE WITNESS: I did one thing right.

THE HEARING OFFICER: Formality thing.

Do you solemnly swear that the testimony you are about to give shall be the truth, the whole truth, and nothing but the truth?

THE WITNESS: I do.

THE HEARING OFFICER: Thank you. Please be seated.

Mr. Coleman.

MR. COLEMAN: Thank you, Commissioner.

DANIEL GIMBLE, being first duly sworn, was



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examined and testified as follows:

EXAMINATION

BY-MR.COLEMAN:

Q. Mr. Gimble, will you state your name and position, business title for the record?

A. Yes. My name is Daniel E. Gimble. I'm a manager with the Office of Consumer Services, 160 East 300 South here in the Heber Wells.

Q. Thank you. As part of your responsibilities in this docket, did you cause to be filed rebuttal testimony, dated June 26, 2014, as well as an attached exhibit OCS Exhibit 5.1R?

A. Yes.

Q. Do you have any recollections or modifications to that rebuttal testimony?

A. No.

Q. If I were to ask you those questions again today, would your answers be the same?

A. They would.

Q. Did you also cause to be filed in this docket surrebuttal testimony, dated July 17, 2014?

A. I did.

Q. Do you have any corrections or modifications to that testimony?

A. I do not.

Q. If I ask you those same questions today, would your

1 answers be the same as contained in your prefiled testimony?

2 A. They would.

3 MR. COLEMAN: At this time, I would move for
4 admission of Mr. Gimble's rebuttal and surrebuttal testimony,
5 Exhibits OCS-5R Gimble with the associated exhibit, OCS
6 Exhibit 5.1R, as well as OCS--excuse me--Exhibit OCS-5.SR
7 Gimble into the record.

8 THE HEARING OFFICER: Any objections?

9 They're received.

10 BY MR. COLEMAN:

11 Q. Mr. Gimble, do you have a summary statement of
12 the office's position?

13 A. I do.

14 Q. Please proceed.

15 A. Good afternoon--warm afternoon, I guess. Let me
16 just start with our recommendation. The Office recommends
17 that the Commission approve a residential net metering charge
18 of \$1.54 a kW in this case. Since our proposed rate is aligned
19 and based on the rate and size of an individual PV systems, net
20 metering customers--

21 Q. I'm sorry. Mr. Gimble, I'm sorry. Can you slow just
22 a touch for our--

23 A. Sure.

24 Q. --for the benefit of our reporter? Thank you.

25 A. Smaller solar PV systems will pay less than net

1 metering customers with larger systems. The Office knows that
2 a dollar-per-kW rate design is consistent with the approach
3 recently implemented last December by the Arizona commission
4 on an interim basis.

5 Let's talk about the evidence. There's been a lot of
6 discussion on that today already, a lot of exchange in
7 cross-examination. The Office submits that there is sufficient
8 evidence on the record to support implementing a net metering
9 facilities charge in this proceeding. And I want to touch on a
10 couple of areas. First, cost shifting. The Office believes that
11 the Company provided sufficient evidence showing a
12 distribution-related cost shift from net metering residential
13 customers to non-net metering residential customers. Absent
14 the proposed facilities charge, this cost shift will increase as
15 participation in the net metering program expands.

16 Another point I want to make: The lower and
17 variable energy requirements of the net metering customers,
18 coupled with the fact that the fixed distribution costs are
19 recovered via energy rates in the present rate design, results in
20 net metering customers not paying an appropriate share of cost
21 needed to invest in maintaining the distribution system.

22 So, from a cost causation standpoint, net metering
23 customers still rely on distribution grid when their PV systems
24 are off line in the evening hours, overnight, early morning, not
25 producing sufficient energy to meet load needs. This can

1 happen at any time during the day because that energy--or the
2 production they produce is intermittent. If you have stormy
3 weather, those systems could be fully down or partially down.
4 And there's a third way to use the system. And that's to export
5 power into the grid. So, that's the first area.

6 The second area is--that I want to talk about in
7 terms of the evidence is the value of solar. You've heard quite
8 a bit about that. You've just had Mr. Duvall up here talking
9 about avoided costs.

10 What the record shows is, some parties submitted a
11 new analysis of costs and benefits while other parties referred
12 to existing regulatory processes such as avoided cost in IRP
13 cases where a similar set of costs and benefits were evaluated.
14 In particular, the Office found the Commission's recent order in
15 the avoided cost Docket 12-035-100, to be compelling in a
16 number of ways. And Mr. Duvall just talked about that. And I
17 want to go touch on three points related to that order.

18 First, the order indicates that the avoided cost
19 rates for solar QF resources are substantially lower than the net
20 metering avoided cost estimated by UCE and the Sierra Club.
21 UCE is approximately 11.6 cents a kWh. Sierra Club is about
22 6.1 cents kWh. The avoided cost is about three.

23 Secondly, the order states that potential costs
24 associated with environmental risk and fuel price volatility
25 should be accounted for in the Company's IRP modeling and

1 evaluation process. So, that's the Commission's words there.

2 Third, due to its policy of allowing QFs to retain a
3 REC, the Commission did not accept any proposed adjustments
4 to value environmental risks or fuel price volatility in that
5 avoided cost order.

6 So, what we draw from this is that the
7 Commission's findings are instructive because it does provide a
8 value for solar resources using a well-established production
9 cost model, grid, and also has a direct bearing on whether
10 environmental risks fuel price volatility and so forth would be
11 excluded or included in the valuation net metering benefits.

12 So, just to conclude, while the Office believes that
13 the record is adequate, we fully realize that the Commission
14 may decide, based on the evidence presented in this record, to
15 require additional cost-benefit analysis prior to authorizing
16 either a net metering charge or credit. Obviously, if the
17 Commission goes in that direction, we don't oppose you going in
18 that direction. And we will fully participate in that process.

19 But we want to caution the Commission a little bit.
20 We would strongly recommend that the valuation method used
21 by the Commission, that the legal--policy, and factual
22 circumstances that are unique to Utah and rely on information
23 consistent with recent IRP and ratemaking dockets or else you
24 may end up with unintended consequences. So, that's going to
25 require the Commission to take evidence if you open up this

1 new proceeding on what specific cost and benefit categories, as
2 well as modeling parameters, should be included in the net
3 metering analysis.

4 Lastly, the Office would agree with the Division that
5 if you do open a separate docket to decide this issue further, it
6 should be concluded by about a year from now, mid-2015, at
7 least prior to the next general rate case.

8 I guess one final comment: Obviously, the net
9 metering facilities charge has attracted considerable public
10 attention. So, the Office believes it's very important for the
11 Commission to clearly communicate its net metering policy and
12 expectations relating to the net metering rate changes; or,
13 alternatively, the process by which it intends to further evaluate
14 net metering costs and benefits should you go down that path.

15 And that concludes my summary.

16 MR. COLEMAN: Mr. Gimble would be available for
17 cross-examination.

18 THE HEARING OFFICER: Thank you.

19 Mr. Rossetti.

20 EXAMINATION

21 BY-MR.ROSSETTI:

22 Q. My turn already? Wish I could take shorthand.

23 So, hello.

24 A. Nice to meet you.

25 Q. Good afternoon.

1 A. Good afternoon.

2 Q. Part of your claim is that net metering customers
3 overall reduce their energy consumption.

4 A. Do you want to point where in my testimony or are
5 you just asking?

6 Q. You were just saying in your summary that net
7 metering customers not only generate excess, but they also
8 overall reduce their energy needs from the grid.

9 A. That's the primary benefit associated with the
10 production is to reduce their energy needs that--export onto the
11 grid is more of a secondary benefit--

12 Q. Yeah.

13 A. --is my--that's my understanding of the program.

14 Q. Yeah. Okay. So, ignoring any excess, then, does
15 this mean that you consider a net metering customer, by just
16 reducing their energy requirements from the grid, is not
17 paying--not helping in the recovery of the fixed costs?

18 A. Yes. I mean, what--if this net metering facilities
19 charge is not approved and implemented by the Commission,
20 then there will be a cost shift from net metering customers to
21 the rest of the residential class. Albeit it a small cost shift, it is
22 a cost shift.

23 Q. Yes, but just to be clear, ignoring any excess that
24 they might generate and get credit for, they reduce their energy
25 consumption and that means they reduce their contribution to

1 the recovery of fixed cost.

2 A. Yes.

3 Q. Okay. And that's part of your justification, I
4 believe.

5 A. Yes.

6 Q. How is that different from conservation and
7 efficiency measures?

8 A. I think there's a significant difference between a
9 residential customer--I'll call it an EE--
10 energy efficiency, program, so EE. EE program versus a net
11 metering program. In terms of a customer that's on an energy
12 efficiency program, their reduction is more permanent. If they
13 go out and participate in a program that has a high-efficiency
14 refrigerator, for example, or some other appliance, that is more
15 certain in terms of reduction of the load and more permanent,
16 versus the net metering customer whose, you know, load profile
17 is more intermediate.

18 Q. Okay. And if a customer--go ahead.

19 A. I have other things that I can talk about in terms of
20 distinguishing, if you want to hear them, but that's one thing.

21 Q. I'd love to hear them.

22 A. Another example that I raised in my testimony was
23 the fact that quite a few residential customers participate in a
24 load-controlled program known as Cool Keeper. That's a
25 dispatchable program. It's subject to the utility's control. Utility

1 does not have that kind of control with net metering customers
2 in terms of dispatchability. So, there's a different kind of value
3 to be assessed in terms of load control program versus net
4 metering.

5 So, I think there--

6 Q. --by a net metering customer could enroll in the
7 Cool Keeper program?

8 A. I believe that it can, yes.

9 Q. Yes. Okay.

10 THE HEARING OFFICER: Mr. Gimble, did you have
11 a chance to finish your answer?

12 THE WITNESS: I did.

13 BY MR. ROSSETTI:

14 Q. Okay. So, as I mention in my surrebuttal, I like
15 doing n+1 and n-1 calculations, so would you find it
16 necessary--would you consider it necessary to make any kind of
17 adjustment, say, if half of the residential customers engaged in
18 such aggressive conservation and efficiency measures that they
19 dramatically reduce their bill, thus cost shifting to all those other
20 half of customers, the impact of reducing their energy
21 consumption?

22 A. Again, I think the energy efficiency programs are a
23 different, if you will, animal versus metering more predictability,
24 more certainty. If there was a significant movement to join a
25 program, I think all parties would want to take a look at the

1 potential impacts of that.

2 Q. Okay. So, I hate to beat a dead horse here, but
3 there's a lot of people that do engage in conservation and high
4 efficiency. In fact, usually people putting solar in do that first.
5 And just simply by doing that, we are shifting the fixed cost
6 recovery to other customers. Is that correct?

7 A. That's correct.

8 MR. ROSSETTI: Okay. Thank you. I think that's
9 all I'm qualified to ask.

10 THE WITNESS: Thank you.

11 THE HEARING OFFICER: Before we go on, I
12 realized I skipped over the Company and Mr. Jetter. Did you
13 have questions? I apologize for that.

14 MR. MOSCON: No. I actually thought--I agreed
15 with the format thinking, because otherwise, you know, I--as we
16 go through the case thinking: Will I be having my
17 cross-examination questions rehabilitated by successive
18 people? So, I thought, Okay. This is great. But, no, we don't
19 have any questions of this witness.

20 THE HEARING OFFICER: Mr. Jetter.

21 MR. JETTER: The Division also has no questions
22 for Mr.--

23 THE HEARING OFFICER: I apologize.

24 MR. PLENK: I guess that means it's my turn,
25 Commissioner Clark.

1 THE HEARING OFFICER: That's right. Thank you.

2 EXAMINATION

3 BY-MR.PLENK:

4 Q. Good afternoon, Mr. Gimble. How are you today?

5 A. Good afternoon. Good to see you again.

6 Q. Likewise. Good to see you again.

7 I want to go back to your rebuttal testimony on
8 page .4, where you talk about the process being used in this
9 case, and have you take a look at your answer on lines 100
10 through about 118, where you provide--I'm summarizing your
11 testimony. I think it would be fair to say you think this is--this
12 whole net metering and fairness requires a separate docket and
13 deliberate review, full opportunity, including a net metering
14 cost-benefit analysis from the Company and so on, so forth. Did
15 I fairly summarize what you said?

16 A. Pretty much, yeah.

17 Q. And has that happened since your rebuttal
18 testimony was filed? Did we get the Company to set net
19 metering cost/benefit analysis for all customer classes as
20 required by SB 208, as you mention in lines 107; or a technical
21 conference in 109; or collaborative process in line 117?

22 A. What the Company did file was testimony--Mr.
23 Duvall's testimony related to the avoided cost docket. We
24 look--took a hard look at that, went back to the Commission's
25 orders and responded to that in surrebuttal. So, our position has

1 evolved, as often happens in any kind of case, to support--we've
2 supported the metered facility charge all the way through our
3 testimony.

4 But in terms of the need for the--a cost-benefit
5 study in a separate docket, our position has evolved on that.
6 Whereas--if the Commission wants to go down that path, you
7 know, we're supportive of that. We don't oppose that. And we
8 still think what we set forth here is, you know, what the
9 Commission should generally follow if it opens, you know, a
10 separate docket, but our position has evolved.

11 Q. Again, just so I'm clear, there hasn't been a net
12 metering technical conference, as you suggested would be
13 significant, right?

14 A. There hasn't been.

15 Q. And there hasn't been a collaborative process,
16 because it was just the Company's surrebuttal testimony that
17 was filed, correct?

18 A. Correct. But we did look at new evidence
19 presented by the Company that related to avoided cost Docket
20 12-035-100. And like I just said, we took a closer look at that
21 order and think there is evidence there for the Commission to--
22 based on the decisions that they made in that QF case, to go
23 forward with the facility charge in the current proceeding.

24 Q. Right, but I understand that that fulfilled one of the
25 items--I think the items on line 106 and 107--but when you talk

1 in the next paragraph about a collaborative process in bringing
2 in a variety of parties, and so on and so forth, that didn't
3 happen, right?

4 A. It hasn't happened. And this would be our proposal
5 for--a guideline for the Commission to follow if they open a
6 separate docket.

7 Q. And, then, the one piece I wanted to follow up on
8 when you say you decided that what the Company had done in
9 the other case was adequate, did that cover all affected
10 customer classes as required by SB 208? I'm assuming you're
11 getting at the point that this case really is just focused on the
12 residential class and it didn't do anything for the commercial
13 classes, yet--and I'm curious if you disagree with me that SB
14 208 wasn't restricted just to residential customers, was it?

15 A. My reading of SB 208 does extend beyond the
16 residential class, but the net metering facilities charge is just
17 applicable to the residential class. That's what the proposal is
18 applicable to.

19 Q. But wouldn't you agree if it turned out that net
20 metering--commercial net metering customers had a beneficial
21 impact on the whole net metering system of the Company and
22 there were--
23 let's just say for the sake of discussion that there was--there
24 were revenues generated from commercial net metering that
25 provided a benefit that exceeded any cost of the residential net

1 metering, that there may be a reason to look at those two things
2 together? Wouldn't you agree with that?

3 A. I don't think Senate Bill 208 is clear on that.

4 Q. Okay. And you've had a chance to look at studies
5 in other States that took a look at net metering charges,
6 correct?

7 A. I looked at Arizona.

8 Q. Okay. Let's talk about Arizona for a minute. In
9 Arizona, the corporation commission established, as you
10 mentioned, an interim rate that was on a per-kilowatt basis and
11 appeared to be the model that you followed. Is that right?

12 A. Based on what happened--transpired in that docket,
13 it was something that, you know, the Office helped the Office
14 develop its proposed rate design. So, we did look at that and
15 saw that they had an alternative approach to what the Company
16 was proposing here, which was a flat charge.

17 Q. And in that Arizona case, did you happen to notice
18 or do you recall how many experts testified before the
19 Commission and presented testimony and were cross-examined?

20 A. All I know is that RUCO testified before them, the
21 Arizona staff had evidence in the record, because the
22 Commission entered a finding that--in terms of the proposed net
23 metering facilities charge offered up by the staff, in RUCO they
24 entered a finding that it should be--that the \$3-per-kW ballpark
25 was reasonable.

1 Q. Just to clarify, RUCO is the equivalent to your
2 Office here, correct?

3 A. Correct.

4 Q. And would it be fair to say that the settlement--that
5 the result in that case was a result of a settlement among the
6 parties?

7 A. That's my understanding. My understanding was, a
8 settlement between the solar interests and RUCO and they
9 presented that to the Commission.

10 Q. And do you understand that other than testimony
11 from the one RUCO staff member, were there studies presented
12 that fleshed out the costs and benefits in Arizona to Arizona
13 Public Service and Arizona customers regarding the cost or
14 benefits of net metering?

15 MR. COLEMAN: I'm going to object to the
16 question. I think the docket in Arizona must speak for itself. Mr.
17 Gimble didn't participate in the docket. He's indicated that the
18 Office looked at the analysis, but I'm not sure that Mr. Gimble
19 can be expected to understand all the testimony and the
20 numbers of witnesses that participated in a docket in a separate
21 jurisdiction.

22 MR. PLENK: Mr. Coleman, I understand your
23 concern, but the point is, if the conclusion that the Office has
24 come to is the Arizona commission order has some precedential
25 value and the Office is taking a position that a charge similar to

1 the Arizona charge is appropriate and Mr. Gimble has suggested
2 that a full cost-benefit analysis with technical conference and
3 collaborative process is the way to go and they didn't do that in
4 Arizona--and I'm certainly happy to have him answer, subject to
5 check--that would seem to undercut the value of that Arizona
6 precedent. And that's the reason why I think the question is a
7 legitimate question.

8 MR. COLEMAN: I don't think he testified that the
9 Arizona proceedings have a precedential value in Utah. I
10 believe his testimony indicated that the--you know, it speaks for
11 itself, but I believe he testified that, you know, the Office looked
12 at--and reviewed the Arizona proceeding as a model but not as
13 a precedential determination for this Commission.

14 MR. PLENK: Let me--I think perhaps the use of the
15 word "precedential" is incorrect, Commissioner. And I appreciate
16 you clarifying that, Mr. Coleman. I think that it's the only
17 example that Mr. Gimble used as the basis for determining the
18 Office's charge. He's given no other examples as a basis for
19 the charge of a dollar fifty- something per kilowatt.

20 MR. COLEMAN: Again, I'm going to assert that Mr.
21 Gimble's testimony speaks for itself.

22 THE HEARING OFFICER: To the extent that the
23 questions are phrased to address Mr. Gimble's reliance on that
24 proceeding and the outcome of that proceeding in preparing his
25 testimony, we'll allow--can you rephrase your question and

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proceed, then?

MR. PLENK: Sure. I'd be happy to.

BY MR. PLENK:

Q. Mr. Gimble, let's try to narrow this down a little bit. Did you have a chance to determine if the Arizona commission did the things you suggested this commission do to fully vet costs and benefits of net metering?

A. I haven't read all the testimony in that case or really any of the testimony. I read the order.

Q. And it was an interim order, correct?

A. It was an interim order.

Q. And do you have any idea of the effect that's had on applications for residential installations of solar in Arizona since January 1, the effective date of that order?

A. I do not have any knowledge on that.

Q. Well, let me ask you, subject to check, if you'd be shocked to learn that the applications for solar dropped by about 50 percent after that charge was enacted. Do you think that's possible?

A. I don't have any anything--I'd have to see something in front of me. I don't see any kind of information that would suggest that.

MR. PLENK: I apologize to the parties and the commission that I wasn't really anticipating using this.

BY MR. PLENK:

1 Q. Mr. Gimble, let me just show you a screen
2 shot--may I approach the witness, Your Honor? I apologize
3 after the fact.

4 Mr. Gimble, this purports to be a screen shot of a
5 newscast from Arizona. And I'm just asking you if those
6 numbers seem--that appears to be legitimate. And I'm happy to
7 have you do this subject to check.

8 A. It just shows one--so, what is the source?

9 Q. The source is a news channel in Phoenix.

10 MR. COLEMAN: I'm going to--I guess I'm going
11 to--I feel like I need to object to the foundation of the document.
12 The accuracy of the information is unclear. And I'm not also
13 sure really of the relevance of the effect of Arizona
14 determinations and decisions made by Arizona customers to a
15 Utah proceeding.

16 MR. PLENK: Well, Mr. Coleman's implying there's
17 no effect of having a net metering charge. I'd be happy to have
18 that put into the record as testimony. But the question is, if Mr.
19 Gimble doesn't know anything about this and can't comment on
20 it, I'll accept that as an answer. He's still looking at it, you know.

21 THE HEARING OFFICER: Yeah. I think--
22 Mr. Gimble, have you ever seen this before? Do you know
23 anything about the information that's presented there?

24 THE WITNESS: This is the first I'm seeing this
25 slide.

1 MR. PLENK: That's fine. Okay. Good. Thank
2 you.

3 BY MR. PLENK:

4 Q. Let me just ask you that question generally, Mr.
5 Gimble. If there's a net metering charge of the sort you're
6 proposing or the sort the Company's proposing, do you have an
7 opinion as to what effect that would have on new solar
8 installations?

9 A. I think there is a myriad of factors that would go
10 into a decision in terms of whether a customer would invest in a
11 solar--a net metering facility, enter into a solar PV system,
12 including--
13 you know, the price of the system, the net metering facility
14 charge, obviously would play into it. But other factors:
15 Investment tax credits. A number of things: How their roof was
16 situated, are they situated--are they well situated for a solar PV
17 rooftop apparatus.

18 Q. And, so, those other factors being equal, if it costs
19 more to put in solar rather than less because of the net
20 metering charge, would you expect that to have an impact or
21 not? In other words, if the cost--if all those things were in place
22 that you mentioned and there's a net metering charge, do you
23 think that would have an effect or not?

24 MR. COLEMAN: I'm not sure Mr. Gimble--I'm going
25 to object. Are you asking for Mr. Gimble to speculate upon

1 potential net metering customers' decision-making processes? I
2 don't think he's qualified to make that determination.

3 THE HEARING OFFICER: He's asking for Mr.
4 Gimble's opinion.

5 Do you have an opinion?

6 THE WITNESS: Do you want to reask, please?

7 BY MR. PLENK:

8 Q. Sure. If all the other items--the tax credit and so
9 forth--remain in place and we then add a net metering charge of
10 some sort, either a per-kilowatt charge, as you suggested, or a
11 flat charge the Company has proposed, do you think that would
12 have a negative effect on applications for solar installations?

13 A. It could depend on where a solar--a potential solar
14 net metering customer thinks residential prices are going.

15 Q. Okay. Let me go back to an item that came up in
16 earlier testimony. And that was the proposal that I believe Ms.
17 Steward--I think that--
18 yeah, I think Ms. Steward mentioned that the Company's
19 planning on doing a load study later this year. Did you hear that
20 testimony?

21 A. I heard that testimony, and I responded to it in my
22 surrebuttal.

23 Q. And do you believe that that study will provide
24 additional information that would be useful to the Commission in
25 making the full analysis required by SB 208?

1 A. I think it'll provide useful information on net
2 metering load shape, load factor. And it will be useful at least
3 in the next general rate case in terms of perhaps designing a
4 separate tariff for residential net metering customers, if it's
5 available by then.

6 Q. So, the--

7 A. I should say if the results are available by then.

8 Q. Sure. The Company is hoping, I guess, that if the
9 Commission adopts their proposal, that the net metering charge
10 would take effect on or about September 1 of this year. Is that
11 your understanding?

12 A. That's my understanding.

13 Q. And that would obviously be before that load study
14 was even started, let alone completed, correct?

15 A. Correct.

16 Q. And do you believe that to comply with SB 208, that
17 that load study should involve residential customers only or it
18 should also--net metering customers or it should include
19 commercial net metering customers, as well?

20 A. I think the effect should be on the residential net
21 metering.

22 Q. And is that based on your reading of Senate Bill
23 208?

24 A. I think, given the--there's already--in terms of the
25 commercial class, there's already a demand charge there, as

1 explained by the Company's witness, Ms. Steward. What we
2 don't have is something comparable on the residential, so I think
3 it's more important to launch the residential load research study
4 and get that completed first.

5 Q. You mention that you have looked at studies about
6 costs and benefits of net metering in other States, correct?

7 A. Can you point to my testimony?

8 Q. I thought you just mentioned it in your summary,
9 but give me a moment and I'll try to find that. Actually, let me
10 just ask you if you did. Have you looked at other studies?

11 A. No. I just looked at my--my testimony just
12 responds to Mr.--I think it was Mr. Gilliam's testimony--in terms
13 of--I think Mr. Gilliam asserted that other States had concluded
14 that benefits exceeded cost, in terms of net metering benefits
15 exceeded costs. And I just--in my surrebuttal, I rebutted that
16 and just said a lot--that there is information out there saying
17 that a lot of commissions are taking a fresh look at the net
18 metering issue from a cost-benefit analysis standpoint.

19 Q. And in your review of those studies to do that
20 rebuttal, did any of them limit the study to residential class that
21 you saw?

22 A. I can't recall.

23 Q. Did you have to support incentives for solar when
24 that was before the Commission?

25 A. I believe so, but I think we had some conditions in

1 there that we recommended to the Commission. I didn't--I
2 wasn't part and parcel of that docket, but I think we did have
3 conditions in there.

4 Q. And you'd agree, would you not, that if there are
5 incentives, positive incentives for solar offered by the Company-
6 -and at the same time there's a charge for net metering
7 customers, it would have the effect of diluting those incentives?
8 Would you agree with that?

9 A. I'm sorry. Can you restate that?

10 Q. Sure. If the customer's getting--I believe it was
11 \$1.20 that--is that the correct number for the incentives from
12 Rocky Mountain Power this past year?

13 A. I believe so, but subject to check.

14 Q. Okay. Subject to check. And if a customer were to
15 receive that incentive and then have to start paying a charge--a
16 net metering charge, wouldn't you agree that that would dilute
17 the incentive, meaning it would reduce it?

18 A. I can't speak for a net metering customer, if that
19 would reduce their incentive to . . .

20 Q. It's not an opinion question what they think. It's if
21 you give somebody 50 cents and you take back 10, have you
22 reduced the amount that they have?

23 A. Yeah, just in terms of simple math.

24 Q. Is it your testimony, Mr. Gimble, that in the
25 12-035-100 QF case, that we had some discussion about that,

1 there was discussion about small-scale distributed generation
2 solar on an individual's home?

3 A. Is it my testimony that that was addressed in that
4 docket?

5 Q. Yeah.

6 A. That isn't my testimony.

7 Q. Was it?

8 A. No.

9 Q. Is it your testimony that the PURPA rules for
10 qualifying facilities use a different criteria than the cost-benefit
11 analysis that is implied by Senate Bill 208?

12 MR. COLEMAN: I'm going to object--
13 obviously, allow him to answer the question, but to the extent it
14 would call for a legal conclusion, I would object.

15 MR. PLENK: Glad to respond to that, if you'd like.

16 THE HEARING OFFICER: Mr.--please.

17 MR. PLENK: The question really is it's not a legal
18 conclusion. It's the Office's position that the testimony that we
19 have here is that the--
20 that docket provided information that the Commission should
21 rely on here, then the question is whether there is a different
22 standard used in that proceeding which would make it
23 inapplicable to be directly utilized here.

24 And, so, the question is whether there was a
25 different standard being used in the QF analysis from what's

1 required by Senate Bill 208. Obviously, Senate Bill 208 wasn't
2 passed at the time of the earlier hearing, but it has been passed
3 since. And so, to rely on it, it would require that there be some
4 compatibility between the two standards used in the two
5 different cases.

6 And what I'm asking Mr. Gimble is whether he
7 believes that the rules for QFs that we used in that earlier case
8 are the same rules that are applicable to the full cost-benefit
9 analysis required by Senate Bill 208 that's now in place and, per
10 the Commission's earlier order, is to be considered in this case.

11 THE HEARING OFFICER: Mr. Gimble, do you
12 understand the question? Do you have a response?

13 THE WITNESS: I'm not--to some degree, I
14 understand it, but can you delineate the rules associated with
15 Senate Bill 208 that you're specifically talking about?

16 BY MR. PLENK:

17 Q. Well, I'm not aware of any rules. Are you?

18 A. That's what you just said. You said rules
19 associated with Senate Bill 208. That's how I understood your
20 question.

21 Q. Okay. Maybe I used a bad word. Let me try to
22 redo it. Senate Bill 208 requires a cost-benefit analysis. Do we
23 agree on that?

24 A. It did direct the commission to look at costs and
25 benefits of net metering and impacts on the utility and affected

1 customers. That's my understanding of Senate Bill 208.

2 Q. And does PURPA and the regulations concerning
3 qualifying facilities have used the same sort of mechanism and
4 considered the same costs and benefits that you understand
5 would be used in the analysis required by Senate Bill 208?

6 A. PURPA is a Federal--is Federal legislation that
7 dates back, I think, to the late '70s and to the early '80s. And
8 the standards there talks about the avoided cost standard is one
9 of ratepayer neutrality and indifference in terms of what the
10 utility compensates to a QF provider, if that's the question.

11 Q. Well, I guess the question is: Are net metering
12 customers the same as QFs?

13 A. No.

14 Q. There was discussion earlier that the Nevada study
15 that Mr. Duvall referred to mentioned the five cost-effectiveness
16 tests that have frequently been used. Are those the same
17 things as the cost-benefit analysis that you think would be
18 required under Senate Bill 208?

19 A. I think that the Commission--as my testimony
20 indicates, after reviewing Mr. Duvall's testimony, that the
21 Commission could look at its order in 12-035-100 in the QF case
22 and make a determination that based on the evidence in its
23 order in that docket that it could approve the proposed net
24 metering facility charge. That's my testimony.

25 Q. But it wouldn't be required or precedential.

1 A. Come again with that.

2 Q. The Commission doesn't have to say, We've
3 already decided everything in this case. We're done with
4 Senate Bill 208 because of the earlier case and be done with it
5 that way, right?

6 A. The only--as I understand Senate Bill 208, it just
7 directs the Commission to look at costs and benefits. To parties
8 provided cost/benefit analyses, the Company has provided
9 evidence related to Docket 12-035-100 that relates to avoided
10 costs. That resulted in the Office taking a closer look at the
11 Commission order. And we addressed that order in our
12 surrebuttal testimony. My summary did that.

13 Q. Okay. Let me switch gears on a couple of other
14 quick topics. You agree, do you not, there's no evidence in the
15 record that net metering customers have caused voltage control
16 issues or any other damage to the Company's system, correct?

17 A. Correct, not at this low penetration level.

18 Q. And do you agree there's evidence in the record
19 that net metering customers reduce the overall load of the
20 Company throughout the day and thus the Company incurs fewer
21 operational costs from those net metering customers?

22 A. I don't think my testimony says that.

23 Q. At some point in your testimony, you proposed to
24 grandfather existing net metering customers from any new
25 charge adopted by the Commission today, correct?

1 A. Yes, but I need to qualify that. I said that that's the
2 Office's preference, but there may need--there may be legal
3 barriers in the Commission. If it wants to consider that--should
4 direct the party attorneys to address them in legal briefs.

5 Q. I believe you mentioned, in response to a question
6 from Mr. Rossetti, that you thought that actions taken by energy
7 efficiency customers were more permanent than the activities or
8 the loads produced by net metering customers. Did I hear you
9 correctly?

10 A. You did.

11 Q. Would you agree that the 25 to 30-year life
12 expectancy of solar panels probably exceeds the life expectancy
13 of most--of many light bulbs, even--well, not LEDs.

14 A. I'm not going to go there.

15 Q. That's a good point. Okay. CFLs. What about
16 CFLs?

17 A. Probably CFLs, but LEDs, maybe not.

18 Q. Equivalent to LEDs. All right. Okay.

19 Does the Office support policies which in general
20 result in cleaner air in Utah?

21 A. I'm sorry. I was still--

22 Q. You were still laughing. Does the Office support
23 policies which--at this Commission which may result in cleaner
24 air in Utah?

25 A. In terms of the--give me an example in terms of

1 what you--in terms of cleaner air. In terms of reducing PM10?

2 Q. Well, let's just say in general in Utah, would you
3 agree that if less coal was burned to meet the power
4 requirements of Utah customers, the air in Utah generally would
5 be cleaner without worrying about the details of PM10, NOx-Ox,
6 etc.?

7 A. Well, if less coal is burned in Utah, then perhaps,
8 you know, more coal would have to be burned in other States. I
9 mean, it could be a zero-sum gain.

10 Q. Well, let's say that enough solar was installed in
11 Utah to eliminate half of the coal burning in Utah. Would that
12 be a positive development?

13 A. I think it could be a positive development
14 depending on if it was cost-effective from the standpoint of the
15 customers we represent.

16 Q. And wouldn't you agree that the customers that the
17 Office represents would undoubtedly have improved health
18 conditions or other side benefits from that? Is that correct?

19 A. I think this goes beyond my testimony. But if the
20 air is cleaner in the Salt Lake Valley, there is ostensibly less
21 health impacts, if that's . . .

22 Q. Okay.

23 A. But it goes beyond my testimony in this case.

24 MR. PLENK: Great. Thank you.

25 THE HEARING OFFICER: Ms. Roberts.

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MS. ROBERTS: Thank you very much.

EXAMINATION

BY-MS.ROBERTS:

Q. Good afternoon--

A. Good afternoon.

Q. --Mr. Gimble.

At the time you filed your direct testimony in this phase--and I'm looking at page--

THE HEARING OFFICER: Is your mike on?

BY MS. ROBERTS:

Q. --24 of your direct testimony, the very top of page .24.

A. I'm there.

Q. Okay. And you stated, "At this point, the Commission would need a more complete set of information to accurately determine the value of net metering output and compare it to the total costs of serving a residential net metering customer."

Did I read that correctly?

A. You read it correctly.

Q. Well, you've changed your view based on Mr. Duvall's testimony.

A. Our position is that, yeah, as it evolved, as it sometimes does, and depending on the case--move from direct to rebuttal to surrebuttal, as you, you know, have more evidence



1 presented or you go through discovery process, sometimes your
2 position on an issue changes, evolves.

3 Q. So, you're familiar with the Commission's order--I
4 guess it's from August 16, 2013--that the Company's witness Mr.
5 Duvall was asked about on his redirect.

6 A. I'm generally familiar with the order.

7 Q. And the discussion between the Company's
8 attorney and Mr. Duvall was that the Commission had declined
9 to include other avoided costs as part of the avoided cost
10 payment to qualifying facilities based on the factual record in
11 that case, correct?

12 A. He said "other avoided costs." What do you mean
13 by that? Can you specify?

14 Q. I believe it was such as the fuel hedge value and
15 perhaps some avoided environmental compliance costs were
16 discussed.

17 A. I think the Commission terminology was
18 "environmental risks."

19 Q. "Environmental risks." Okay.

20 Is it your understanding of the commission's order,
21 as well, that it found the factual record before it at that time
22 inadequate to support including those as passionate of the
23 avoided cost payment?

24 A. It did. And it pointed out--one thing it pointed out
25 is that the RECs stay with the QFs. And that was one reason

1 why they didn't include the hedging, if you will, in the
2 environmental risk that they were already compensated
3 sufficiently. That's what the Commission opined in its order.

4 It's in my testimony, if you want--it's in my
5 surrebuttal, if you want to go to that.

6 Q. I do not not believe you. I'm just thinking. I
7 apologize.

8 Other than the solar incentive program, some RECs
9 are transferred to the Company for installations that they have--
10 (Reporter/attorney discussion to clarify the record.)

11 BY MS. ROBERTS:

12 Q. Is it your understanding that under the solar
13 incentive program offered by Rocky Mountain Power, it receives
14 some portion of the RECs for rooftop solar installations?

15 A. I believe that's the case, but I'd have to check that.

16 Q. Okay. So, that might be a basis that distinguishes
17 rooftop solar installations, at least those that receive solar
18 incentive program funding from qualifying facilities, correct?

19 A. It could be a basis for distinguishing.

20 Q. Switching gears a bit, is load growth a driver of
21 increased utility expenses?

22 A. It can be.

23 Q. Okay. And when load increases, what additional
24 costs does the facility incur?

25 A. Can we step back to my response to that? It kind

1 of depends on where the Commission is in terms--or--the
2 Commission--the Company is in terms of its load resource
3 balance. So, if you have loads increasing, make more efficient
4 use of resources, then load growth can actually--if you're in
5 access position, you know, beneficial because revenues are
6 allocated over more customers. But if you're in a situation where
7 a utility needs resources, then load growth can be a driver of
8 cost.

9 Q. If peak load is higher, the Company has to bring on
10 units from its generation fleet that are more expensive to
11 operate, correct?

12 A. That can be the case, but the Company heavily
13 relies on market purchases--

14 Q. Okay.

15 A. --to fulfill its--or satisfy its load needs. And at
16 times, it can get those at attractive prices.

17 Q. So, if the Company's demand for market purchases
18 goes up due to an increase in load, will they pay more for each
19 unit of energy that they buy on whatever energy exchange
20 they're trading on?

21 A. That can possibly be the case. It depends on how
22 they've gone about in terms of securing their market portfolio.
23 Some of this stuff is done significantly ahead of time.

24 Q. Okay. Let's step back to a more general question,
25 perhaps. Does reducing load growth slow the increase of the

1 utility's revenue requirement, as a general matter?

2 A. Can you restate that? Sorry.

3 Q. Does reducing load growth--

4 A. Okay.

5 Q. --slow the increase of the utility's revenue
6 requirement?

7 A. It can.

8 Q. Okay. And is that why energy efficiency programs
9 are deemed a benefit to ratepayers?

10 A. They're deemed a benefit because they're
11 evaluated in an IRP process against other alternative. And if
12 they're cost-effective, then they're deemed to be beneficial to
13 ratepayers.

14 Q. Thank you. So, energy efficiency programs do
15 reduce load growth, correct?

16 I don't intend this to be a trick question.

17 A. The way the Company actually treats energy
18 efficiency resources is like a resource. And they compare it to
19 all other resources in comparing portfolios in their IRPs. So,
20 you'll have energy efficiency as a significant component usually
21 in the portfolios that are tested in their IRP process.

22 Q. Okay. Thank you for that explanation.

23 Would you agree that reducing load growth is a
24 benefit to other ratepayers?

25 A. I think generally, yes. It might be found in a

1 specific situation, but generally, yes.

2 Q. And do qualifying facilities reduce load growth?

3 A. No.

4 Q. Would you consider that a difference between
5 qualifying facilities and rooftop solar, then?

6 A. I think they're similar from the standpoint that-- in
7 terms of the production that comes from a net metering facility
8 is used to meet a net metering customer's load primarily. And,
9 then, if there's excess, it's put to the grid.

10 Q. Do qualifying facilities produce energy that they use
11 to meet their own load?

12 A. I think some cogeneration projects actually do. And,
13 then, they sell the excess to the utility.

14 Q. But solar qualifying facilities, I guess, is probably
15 more helpful to make the comparison. Do they--does their
16 production result in reduced load growth?

17 A. No.

18 Q. Okay.

19 THE HEARING OFFICER: Ms. Roberts, if you're
20 going to move to another area, I think we'll take a recess.

21 MS. ROBERTS: I have one or two more questions
22 on this particular topic, and then--

23 THE HEARING OFFICER: Why don't you finish
24 those?

25 MS. ROBERTS: Okay. Thank you very much,

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Commissioner.

BY MS. ROBERTS:

Q. I believe you stated earlier that some significant portion of a rooftop solar net metered customer own production is used to satisfy its own load, correct?

A. Correct.

Q. So, you agree that that is a difference between a solar QF and a rooftop solar unit that's net metered.

A. That appears to be a difference.

Q. Might that difference be relevant to the benefits that those two systems offer to the utility system?

A. From the standpoint of location, if there could be a difference in terms of the net metering customer--you know, within the distribution system, whereas a solar QF would be supplying power, yeah, outside of the distribution system. I mean, from a locational standpoint, it would be a difference.

Q. And why is that difference significant, Mr. Gimble, to the benefits assessment?

A. Because of the proximity of the net metering customer to the feeder--the utility's feeder system versus a solar QF.

Q. A solar QF is more remote from the load.

A. It could be.

Q. So, there's a difference, perhaps, relating to line losses and--I just want to understand--

1 A. It's not something that I looked at.

2 Q. Okay. Thank you very much.

3 THE HEARING OFFICER: Let's take a ten-minute
4 recess. We'll start again at 4:35, which might raise the question
5 in some of your minds how late we're going.

6 Chair says 10:00. Does 5:30 work for everyone?

7 So, we'll--let's break until 20 till. Give you a chance
8 to find some cool air somewhere, if you can.

9 (Recess taken, 4:26-4:40 p.m.)

10 THE HEARING OFFICER: On the record.

11 Ms. Roberts.

12 MS. ROBERTS: Thank you very much.

13 BY MS. ROBERTS:

14 Q. Mr. Gimble, I had a chance to organize my thoughts
15 during the break, so hopefully this will go more smoothly.

16 You're familiar with the language in SB 208 that
17 we've been discussing today about cost and benefits, correct?

18 A. I've read the bill.

19 Q. Okay. Benefits isn't really defined anywhere in that
20 statute, is it?

21 A. It just says the Company will--no, it isn't.

22 Q. Okay. Does the Legislature in that bill use the term
23 "avoided cost" or "PURPA" or "qualifying facility" in the section
24 in which it discusses cost and benefits?

25 A. It doesn't.

1 Q. Okay. Thank you. I'd like to ask you some
2 questions about the distribution benefits, avoided distribution
3 benefits, which has been a topic of considerable discussion.
4 What is your understanding of the Company's evidence with
5 regard to the peak load reduction benefits of rooftop solar?
6 What is the Company's evidence? Another way of asking that.

7 A. I'm sorry. Restate that, please.

8 Q. What is the Company's evidence that rooftop solar
9 does not reduce distribution peaks?

10 A. The Company has alluded to a rooftop solar study
11 that it did for north--I'm trying to remember the name of it. It's
12 Northeast-something 16, which was done by or performed back
13 in August--I think it was August 2, 2010, to indicate at least on
14 that feeder system or on that circuit that it peaked at 7:00 p.m.

15 Q. Is there any other--the Company's presented that
16 our--that comes to mind at the moment?

17 A. Yeah. I think Mr. Marx, in terms of his testimony in
18 responding to cross-examination today, indicated that you know
19 the peak is--
20 distribution peak, you know, can be at 4:00, but it can be
21 sustained until after 7:00. And by that time, net metering
22 production falls off dramatically by the time you get to 6:30,
23 7:00, 7:30.

24 Q. If the peak occurs at 4:00 p.m., is there a benefit in
25 terms of peak load reduction by solar?

1 A. Solar should have--generally speaking, solar should
2 have a higher coincidence.

3 Q. So, the earlier the distribution peak, the higher the
4 benefit provided by the distributed solar resource.

5 A. Yes, but this can change every year.

6 Q. Why would it change every year?

7 A. Because feeder systems can peak at different times
8 because of--you know, as you have different conditions.

9 Q. But the general principle, the earlier the distribution
10 peak, the more solar benefit to that peak. That principle would
11 carry on year after year, correct?

12 A. If it peaked at 1:00 or 2:00 p.m., obviously solar
13 would--solar is at its peak, it would have more coincidence with
14 distribution peak.

15 MS. ROBERTS: Okay. I'd like to approach the
16 witness and share an exhibit that was already introduced as
17 Sierra Club Cross Exhibit No. 1, if I may.

18 THE HEARING OFFICER: You may.

19 BY MS. ROBERTS:

20 Q. Mr. Gimble, this exhibit is a data request submitted
21 by your office to the Company, correct?

22 A. Correct.

23 Q. And are you familiar with this data request?

24 A. Yes. I'm generally familiar with it.

25 Q. Okay. Now, I did ask Mr. Marx a few questions

1 about this exhibit earlier regarding when the distribution peaks
2 are occurring on the various feeders. Do you recall Mr. Marx's
3 responses to those questions?

4 A. I generally recall them.

5 Q. Based on your knowledge of this data--
6 and feel free to flip through the sheets a bit more--
7 would you say there's a large variation in when these
8 distribution substations experience their peaks?

9 A. It looks like most of them peak between 4:00 p.m.
10 and 7:00 p.m.

11 Q. And, so, the stations that are peaking at 4:00 p.m.
12 might have a greater than 7 percent--
13 might experience a greater than 7 percent reduction due to
14 solar. Would you agree with that statement?

15 A. I would agree with that.

16 Q. Okay. I have no further questions regarding that
17 exhibit.

18 You stated earlier that the Office's recommendation
19 was that the net metering facilities charge not apply to existing
20 customers, correct?

21 A. That was my testimony in my direct, yes. I--the
22 Office couched it in terms of it was our preference.

23 Q. Preference?

24 A. We thought there could be some legal issues in
25 terms of basically grandfathering the existing customers. And if

1 the Commission desired that as an option in terms of
2 grandfathering, it should request the party attorneys to brief the
3 issue.

4 Q. Okay. Why do you think--so, on the one side, there
5 are legal concerns about grandfathering. Why, on the other
6 hand, is it the Office's preference that the fee not apply
7 retroactively? What are the policy reasons underlying that
8 preference?

9 A. It was in consideration of gradualism.

10 Q. Can you explain that a bit more?

11 A. Yes. In terms of ratemaking principles, one of the
12 ratemaking principles the analysts tend to look at in terms of
13 cost causation, fairness, rate stability, gradualism in terms
14 of--this is a new policy in terms of gradualism, as the
15 Commission wanted to consider that if it could legally consider
16 it, because we indicated it should be briefed--it was one thing
17 they could consider if they wanted, bring gradualism into the
18 picture.

19 Q. Thank you. Would you agree that there have been
20 many different ways of framing costs and benefits that have
21 been raised in this docket and in the testimony today?

22 A. I think the testimony today--the Company's
23 testimony if that's what you're talking about.

24 Q. I'm talking about all the parties' different
25 representations and concepts of what cost and benefits might

1 mean. There's some diversity there, no?

2 A. There is diversity.

3 Q. And do you think that based on this existing record,
4 the Commission has sufficient guidance about how to compare
5 the costs and benefits, considering the many diverse framing of
6 those concepts that the parties have brought?

7 A. I would need to understand what you mean by
8 "guidance."

9 Q. Okay. Are you familiar with the recent study that
10 was completed by E3 for the Nevada utility commission?

11 A. It was attached to your witness's testimony. And I
12 didn't read it carefully, but I did look at it over the weekend.

13 Q. Okay. Did you see the part of that executive
14 summary where they discussed the different types of cost and
15 benefit tests that were evaluated in the study?

16 A. I did. And I noticed that it didn't pass all the tests.
17 It passed some tests. It didn't pass other tests. And the primary
18 reason that I understand why it passed, for example, the RIM
19 test and the PACT test, was that there was a multiplier of 2.4
20 having to do with the RECs. And in terms of those RECs, the
21 RECs go to the utilities so they can use it to meet their RPS
22 requirement. That's my understanding in reading this.

23 Q. Thank you. I wasn't actually--I wasn't asking you
24 about the results of study. They're varied depending on which
25 time frame you're looking at and which cost- effectiveness test.

1 What I wanted to ask you is, do you feel that there's value in
2 comparing costs and benefits under the Ratepayer Impact
3 Measure test, under Utility Cost Test? Under those different
4 frameworks, is that helpful? That's the kind of guidance I'm
5 wondering if you agree that the Commission would benefit from
6 having is those different cost/benefit tests.

7 A. I think there could be benefit there. But
8 conversely, I think the Commission has made it quite clear in
9 their order in 12-035-100 that in terms of at least solar QFs, it
10 wasn't going to consider adding compensation, if you will, to
11 those facilities for environmental risk, for fuel price volatility,
12 etc.

13 Q. The Commission wasn't thinking about evaluating
14 the costs and benefits of net metering when it ruled in the
15 particular docket that you're referring to, was it?

16 A. It was looking at solar QFs.

17 Q. Okay.

18 A. So, from the standpoint of the value of solar, it did,
19 you know, render a decision, but it was solar QFs.

20 MS. ROBERTS: Thank you. No further questions.

21 THE HEARING OFFICER: Ms. Hayes.

22 MS. HAYES: Thank you.

23 EXAMINATION

24 BY-MS.HAYES:

25 Q. Good evening.

1 A. Good evening. Good afternoon.

2 Q. I'd first like to direct you to page .7 of your
3 surrebuttal testimony at line 189.

4 A. I'm there.

5 Q. Do you think that functionalizing costs by
6 production, transmission, distribution, etc., is typically the first
7 step in the process of allocating cost to rate schedules, and you
8 recognize, for analytical purposes, separating net metering cost
9 and benefits by functional category? Is that correct?

10 A. That's correct.

11 Q. Is it the Office's notation benefits exceeding costs
12 in one functional category could be used to offset costs in
13 another category? I can give you a for example if you . . .

14 A. If you want to give me the example, sure.

15 Q. So, for example, if energy generation benefits were
16 found to outweigh costs, could that excess value be used to
17 offset distribution and transmission costs, for example?

18 A. You know, I think that would have to be up to the
19 commission in terms of how it establishes kind of its parameters
20 in looking at costs and benefits in what categories of cost and
21 benefits that it's going to include, if it goes forward in a
22 separate proceeding or a separate process to consider cost and
23 benefits.

24 Q. Okay.

25 A. Then, it would be up to their--you know, discretion.

1 Q. Okay.

2 A. But--

3 Q. So, you proposed sort of analytically functionalizing
4 these costs, but you're not making a position on whether costs
5 and benefits can outweigh each other.

6 A. I think the Commission would have to take evidence
7 on that in terms of what costs and benefit categories it was
8 going to look at in terms of, you know, if it did open up a
9 separate process to examine this--

10 Q. Okay.

11 A. --those types of issues.

12 Q. Then, let's move on to same testimony, lines 314 to
13 319. That's at page--it's the last line of 314 and on to page--or
14 last line of page .11 on to page .12. You say that--oh, I'll wait for
15 you.

16 A. Give me the line number again, if you would.

17 Q. Oh, 314.

18 A. I'm there.

19 Q. You say that if the Commission's decision to
20 implement a net metering fee is delayed beyond the current
21 case--is it the Office's position that it will be appropriate to levy
22 a net metering fee regardless of what evidence or analysis may
23 show in a comprehensive net metering evaluation?

24 A. The Office's position is that it has sufficient
25 evidence to implement a net metering facilities--a residential net

1 metering facilities charge in this docket.

2 Q. Right. But you say--you're talking about if the
3 Commission doesn't do that and it delay--you say delays
4 implementation.

5 A. Okay.

6 Q. And I'm just wondering if the Commission ordered a
7 new proceeding to look at the cost and benefits, if the Office
8 would be willing to evaluate the evidence and analysis on an--in
9 an impartial manner, because it sounds like you've concluded
10 that net metering fee will be implemented regardless of what
11 any evidence is presented in a separate proceeding.

12 A. I address that--I think in my summary, whatever the
13 Commission does in terms--if it opens up a separate process,
14 we'll participate fully and comply with whatever process and
15 whatever guidance that the commission gives in terms of the
16 information that it wants to review in such a process.

17 Q. Okay. Thank you. I am assuming you heard some
18 of my cross-examination, or all of it, of Mr. Duvall. Are you
19 familiar with Utah Docket 09-035-27?

20 A. It doesn't ring a bell.

21 Q. Sure. So, as I said before, it was in the matter of
22 the proposed revisions to the Utah demand-side resource
23 program performance standards. And the Commission issued
24 an order in response to a report submitted--by a report of
25 guidelines and recommendations on demand-side management

1 program submitted by the Demand Side Management Advisory
2 Group. Are you in the Demand Side Management Advisory
3 Group?

4 A. I think at the time--was it 2009? Is that what you
5 said?

6 Q. Uh-huh (affirmative) .

7 A. I think I was involved in--somewhat in that process.

8 Q. Yeah.

9 A. It's coming back a bit.

10 Q. I have your name on a list of participants.

11 I would like to distribute another cross exhibit.

12 A. Thank you.

13 Q. Thank you. Does this look familiar to you?

14 A. Yes. I haven't seen it in a while.

15 Q. It's been a while, right?

16 A. It's familiar.

17 Q. All right.

18 THE HEARING OFFICER: For the record, Ms.

19 Hayes, I think this is UCE Cross Exhibit 2. Is that right?

20 MS. HAYES: Yes.

21 THE HEARING OFFICER: So, I'm going to mark it
22 that way.

23 MS. HAYES: And I'm not sure I offered Cross
24 Exhibit 1 for admission, but perhaps I will offer both of those
25 when I conclude questioning Mr. Gimble.

1 BY MS. HAYES:

2 Q. So, would you read, for the record, what this
3 document is?

4 A. In the left corner, it says, "In the matter of the
5 proposed revisions to Utah demand-side resource program
6 performance standards."

7 Q. And, then, in the right corner.

8 A. "09-035-27."

9 Q. And it's the order that was issued on October 7,
10 2009. Is that correct?

11 A. That's correct.

12 Q. Would you turn with me to page .15 of this order
13 and read this top paragraph?

14 A. "We concur with the recommendation to evaluate
15 small-scale renewable resources such as solar photovoltaic
16 projects"--

17 Q. It's a terrible word.

18 A. --"on a similar basis as energy efficiency and load
19 management until other economic tests are available. Thus, all
20 five tests will be performed. Should any of the tests fail, the
21 Company and parties may present arguments, and we shall
22 consider, whether the program is in the public interest for
23 reasons other than economic efficiency."

24 Q. Thank you. And you are familiar, I'm assuming
25 because you were just discussing them with Ms. Roberts, the

1 five cost effectiveness tests used in evaluating energy efficiency
2 programs.

3 A. I'm familiar with them.

4 Q. Would you turn with me to page .3 of the order?

5 It's--and read the first full sentence on--at the top of page .3,
6 starting with "further"?

7 A. The one that's highlighted?

8 Q. Yeah.

9 A. "Further, the Company has developed more
10 sophisticated methods for estimating utility cost savings from
11 DSM programs rather than relying on avoided costs approved for
12 Schedule 37 payments to small qualifying facilities."

13 Q. So, it appears, does it not, that the Commission
14 has considered the issue of using avoided cost to evaluate
15 distributed solar resources and decided that the five cost-
16 effectiveness costs were an improvement over avoided costs
17 when valuing demand-side and distributed solar resources,
18 doesn't it?

19 A. From what I just read, it's a DSM program.

20 Q. And then, on page .15, page .15, the Commission--

21 A. Yes. It says, "All five tests will be performed."

22 Q. For small-scale renewable resources such as
23 small-scale photovoltaic projects, correct?

24 A. That's how the order reads.

25 MS. HAYES: No further questions.

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Can I--oops--move to admit Utah Clean Energy
Cross Exhibits 1 and 2 into the record.

THE HEARING OFFICER: Objections?

They're received.

MS. HAYES: Thank you.

THE HEARING OFFICER: Redirect?

MR. COLEMAN: Just one particular point.

FURTHER EXAMINATION

BY-MR.COLEMAN:

Q. Mr. Gimble, you were asked about the Office's
efforts to support programs or projects that can potentially
result in clean air, air--cleaner air efforts. Do you recall that?

A. I recall that.

Q. Does the Office have free rein to support any
project that is proposed?

A. No. We have to comply with our statutory
authority.

MR. COLEMAN: May I approach?

THE HEARING OFFICER: Yes.

BY MR. COLEMAN:

Q. I'm going to go ahead and hand Mr. Gimble what
I'm going to represent is 54-10a-301 from 2013. If you would
just go ahead and read subsection (1) for me, please.

A. Where it starts, "There is created within the
Office"?

1 Q. My apologies. Down here (indicating) .

2 A. Down here. "Powers"--

3 Q. 54-10a-301, sub . . .

4 A. This is, "Powers and Duties of [the] Office." And it
5 says, under subheading (1) , "The office shall: (a) assess the
6 impact utility rate changes and other regulatory actions related
7 to an applicable public utility on: (i) residential consumers; and
8 (ii) small commercial consumers." Back to (b) , "Assist a
9 residential consumer or a small commercial consumer in
10 appearing before the Commission; and (c) through its director,
11 advocate, on the office's own behalf and . . . its own name a
12 position most advantageous to: (i) residential customers; (ii)
13 small commercial customers." Do you want me to continue?

14 Q. Just through subsection (1) .

15 A. Okay.

16 Q. Thank you.

17 A. Sure.

18 MR. COLEMAN: I have nothing further.

19 THE HEARING OFFICER: Questions for Mr.
20 Gimble?

21 COMMISSIONER LeVAR: I have a couple.

22 THE HEARING OFFICER: Commissioner LeVar.

23 EXAMINATION

24 BY-COMMISSIONER LeVAR:

25 Q. I'd like to clarify a little bit your recommendations

1 to the Commission regarding messaging in your summary. At
2 the end of your surrebuttal, you suggested that whatever policy
3 direction we engage in we should take an active role in
4 messaging. And, then, on page .1 of your surrebuttal
5 specifically, you seem to be saying--and tell me if I've got it
6 wrong--but if we do not approve the fee in this docket, we
7 should inform both current net metering customers and the
8 general public. That's the part I want to ask about. If I'm
9 reading this right, you're saying if where we don't impose the
10 fee in this docket, we need to inform the general public. What
11 should that message to the general public be in that situation?

12 A. Well, I think my testimony reads in the
13 context--sorry. Turn on the mike.

14 My testimony's in the context if you open up a
15 separate proceeding and take additional evidence, then I think
16 the public needs to know kind of what your timeline is in terms
17 of considering additional evidence, what process are you going
18 to use and, you know, kind of what your objectives are.

19 Q. So, that's toward providing participation in that
20 docket. Is that what you're getting at?

21 A. Just to communicate, because there's been such a
22 public interest in the net metering issue, what the Commission's
23 intentions are going forward.

24 COMMISSIONER LeVAR: Okay. That's all I have.
25 Thanks.

1 EXAMINATION

2 BY-CHAIRMAN ALLEN:

3 Q. Mr. Gimble, there was a moment while you were up
4 here and I was reminded of something I couldn't find in the
5 testimony, and maybe you can help me out here. I don't know
6 that in the context of the public contact--maybe an asserting of
7 this could be a deal killer for solar. Do we have any elasticity of
8 demand of the situation--do we know whether a \$4 or \$5 fee is
9 going to cause a concomitant decline in applications for new
10 solar? What's--did I just miss it or do we not have that kind of
11 information in this case?

12 A. I can't recall a--it's filed in the elasticity of demand
13 information, if that's your question.

14 Q. Are you aware of any studies or anything that's
15 come out of other States that are looking at this issue? I don't
16 have a background in economics, so I'm curious what you've
17 come across.

18 A. My review of what's around in other States is
19 limited. I don't know if they requested that kind of information
20 be provided in terms of their analysis of costs and benefits--

21 Q. Okay.

22 A. --associated with net metering.

23 Q. Do you happen to have an opinion of what nearly
24 \$5 charge would do to a decision to build a 10, 15, or
25 20,000-dollar solar system?

1 A. Do I have an opinion on how that would impact?

2 Q. Based on your extensive experience here with the
3 Office.

4 A. I don't have an opinion on how that would impact
5 an individual customer, you know. I guess the average
6 customer would be about 3.2 kW, but under our proposal, it
7 would be approximately \$5. But there are a lot of customers
8 that are less than that, as well, but the average customer's
9 about 3.2.

10 Q. So, what we're really hearing there may not be a lot
11 of information on that subject. It's too new, maybe, the concept,
12 the issues that we're dealing with.

13 A. The Office hasn't viewed it from the standpoint of
14 the decision making by an individual net metering customer or
15 potential net metering customer, whether they would-- whether
16 that would impact their decision or not.

17 CHAIRMAN ALLEN: Okay. Thank you.

18 THE HEARING OFFICER: Any further questions?

19 MR. MOSCON: Would the Commission indulge me
20 to ask one follow-up question based on what occurred to me
21 based on questioning by Mr. Allen?

22 THE HEARING OFFICER: Is there an objection?

23 Okay. Mr. Moscon, go forward.

24 MR. MOSCON: May I approach the witness?
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EXAMINATION

BY-MR.MOSCON:

Q. I bring this up because I assume you do not have with you testimony of Company witness Joelle Steward.

A. I may, but go ahead and bring it up.

Q. Did you review any of the testimony of the Company in preparing materials?

A. I did.

Q. I'm handing you an excerpt from the testimony of Joelle Steward. And I've underlined a portion. And for purposes of everyone else that wants to follow along, maybe you should note the page and line number that I've underlined there.

A. Sure. It's page .7 on rebuttal testimony of Joelle R. Steward, lines 143 through 146.

Q. Okay. And would you read that for us?

A. "As noted in my direct testimony, the number of customers installing facilities and participating in net metering has grown by over 30 percent annually."

THE REPORTER: A little slower, please.

THE WITNESS: Sorry. "As noted in my direct testimony, the number of customers installing facilities and participating in net metering has grown by over 30 percent annually. In just the five months since my direct testimony was prepared, the total number of net metering customers has grown

1 by nearly an additional 20 percent."

2 BY MR. MOSCON:

3 Q. Thank you. Would you agree with me that if at the
4 time the Company published its intention to impose a facility
5 charge on net metered customers with the filing of the
6 Company's rate case, that in the five months after that, with all
7 the publicity that's been noted in this case, the fact that rather
8 than slowing, net meter customer applications continue to rise--
9 wouldn't you agree with me that that is, in fact, the type of
10 evidence that was just asked about as to whether or not this
11 proposed fee is going to have a crisis-type impact on customers
12 signing up for solar power?

13 A. It's--I think the chair--Chairman Allen asked me
14 about elasticity studies. That isn't necessarily an elasticity
15 study, but what it does demonstrate is that it doesn't seem to be
16 stemming the tide to invest or lease in solar PV systems in
17 Utah.

18 MR. MOSCON: Thank you.

19 THE HEARING OFFICER: Any direct, Mr.
20 Coleman?

21 MR. COLEMAN: I have nothing further. Thank you.

22 THE HEARING OFFICER: You're excused.

23 THE WITNESS: Thank you.

24 MR. COLEMAN: Or I can stop for a little while to
25 go to 5:30.

1 THE HEARING OFFICER: So, we're wondering if
2 we ought to proceed tonight and begin a new witness. Are the
3 parties that are--
4 we're mindful of Mr. Gilliam's plane commitment. And is there
5 anything else that ought to factor into our determination of
6 whether we just press on for a few minutes?

7 MR. JETTER: No. We're okay.

8 THE HEARING OFFICER: Either way.

9 Are parties able to give us a sense of how much
10 cross-examination there is for Mr. Gilliam?

11 MR. MOSCON: The Company does not have an
12 extensive amount.

13 MR. JETTER: I'd just take little, if any, from the
14 Division.

15 MR. COLEMAN: Bear with me while I search
16 through my papers.

17 Not terribly extensive. Some, but not terribly
18 extensive.

19 MR. MOSCON: I'd be willing to--and I haven't, of
20 course, discussed this with any other parties, but if tomorrow in
21 the 30 minutes before the lunch hour--if we haven't already
22 gotten to him, to just take him out of turn at a time like that. I
23 think something like that would be fine and dandy.

24 MR. GILLIAM: So do I.

25 THE HEARING OFFICER: All right. Then, we'll be

1 in recess until tomorrow at 9:00 a.m. Unless there's any
2 preliminary matter or procedural matter that any party would like
3 to address now.

4 Thank you all. We'll see you tomorrow. We'll go
5 off the record.

6 (Proceedings adjourned at 5:14 p.m.)
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CERTIFICATE

This is to certify that the foregoing proceedings were taken before me, SCOTT M. KNIGHT, a Registered Professional Reporter and Notary Public in and for the State of Utah, residing at South Jordan, Utah;

That the proceedings were reported by me in stenotype and thereafter caused by me to be transcribed into typewriting, and that a full, true, and correct transcription of said proceedings so taken and transcribed is set forth in the foregoing pages, inclusive.

I further certify that I am not of kin or otherwise associated with any of the parties to said cause of action, and that I am not interested in the event thereof.

Scott M. Knight



Scott M. Knight, RPR
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