BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH
In the Matter of Rocky Mountain Power's Proposed Revisions to Docket No. 14-035-T04 Electric Service Schedule No. 37, Avoided Cost Purchases from Qualifying Facilities
HEARING PROCEEDINGS
TAKEN AT: PUBLIC SERVICE COMMISSION 160 East 300 South, Room 401 Salt Lake City, Utah
DATE: Tuesday, September 16, 2014
TIME: 9:03 a.m.
REPORTER: Nancy A. Fullmer, RMR

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1	PROCEEDINGS
2	THE HEARING OFFICER: Good morning, all.
2	I'm Commissioner Clark and I'll be serving as the
4	
	hearing officer today. To my left is Chairman
5	Allen, and to his left is Commissioner LeVar. And
6	we appreciate your attendance today.
7	We're here in the matter of Rocky
8	Mountain Power's Proposed Revisions to Electric
9	Service Schedule No. 37, Avoided Cost Purchases
10	from Qualifying Facilities. This is Public
11	Service Commission Docket No. 14-035-T04. Let's
12	begin this morning with appearances. Counsel, if
13	you would introduce the witness or witnesses that
14	you have present today, that would be appreciated,
15	as well.
16	MR. SOLANDER: Thank you, Commissioner
17	Clark, Chairman Allen, Commissioner LeVar. My
18	name is Daniel Solander. I'm representing Rocky
19	Mountain Power. I have with me at counsel table
20	Greg Duvall, Director of Net Power Costs for Rocky
21	Mountain Power.
22	THE HEARING OFFICER: Thank you.
23	MR. JETTER: I'm Justin Jetter with the
24	Attorney General's Office representing Utah
25	Division of Public Utilities. And with me at the

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1	counsel table here is Dr. Abdinasir Abdulle for
2	the Division. Thank you.
3	MR. OLSEN: My name is Rex Olsen. I'm
4	here on behalf of the Office of Consumer Services.
5	Bela Vastag, the analyst with the Office, is here
6	as my witness.
7	THE HEARING OFFICER: Thank you. Is that
8	O-L-S-E-N or O-N?
9	MR. OLSEN: E-N.
10	THE HEARING OFFICER: Thank you,
11	Mr. Olsen.
12	MS. HAYES: Good morning. I'm Sophie
13	Hayes representing Utah Clean Energy. And with me
14	as Utah Clean Energy's witness is Ms. Sarah
15	Wright.
16	THE HEARING OFFICER: Thank you.
17	MR. DODGE: Good morning. Gary Dodge
18	here on behalf of Sun Edison. My witness Daniel
19	Patry was unable to make it. He has an
20	eight-month-old in the hospital and was unable to
21	make it. So we were going to requestwe are
22	requesting that we submit his prefiled testimony
23	as unsworn comments as opposed to testimony.
24	THE HEARING OFFICER: Thank you,
25	Mr. Dodge.

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1	MR. EVANS: Good morning. I'm William
2	Evans here for Kennecott Utah Copper and Tesoro
2	
	Refining and Marketing. We, too, have filed
4	comments in this proceeding, but don't have a
5	witness, and, incidentally, don't have cross for
6	witnesses so I will ask that once the
7	preliminaries have been done if I may be excused
8	from the rest of this proceeding.
9	THE HEARING OFFICER: Thank you,
10	Mr. Evans.
11	Are there any preliminary matters that
12	counsel desiresor counsel desires before we
13	begin?
14	Our approach today will be to hear first
15	from the Applicant or the Company and then we'll
16	take the witnesses in the order that the
17	appearances of counsel were made unless there's
18	objection to that process. And if there's nothing
19	further, we'll begin.
20	Mr. Solander.
21	MR. SOLANDER: Thank you. Rocky Mountain
22	Power would like to call Mr. Greg Duvall as its
23	witness in support of the proposed changes to Utah
24	Schedule 37. Mr. Duvall will explain the changes
2 4 25	that the Company is proposing that were made as a
20	that the company is proposing that were made as a

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1	result of the Commission's order in Docket
2	12-035-100.
3	THE HEARING OFFICER: Please raise your
4	right hand. Do you solemnly swear that the
5	testimony you're about to give should be the
6	truth, the whole truth, and nothing but the truth?
7	MR. DUVALL: I do.
8	GREGORY N. DUVALL,
9	having been first duly sworn, was
10	examined and testified as follows:
11	THE HEARING OFFICER: Thank you. Please
12	be seated.
13	EXAMINATION
14	BY-MR.SOLANDER:
15	Q. Morning.
16	A. Good morning.
17	Q. Could you please state and spell your
18	name for the record.
19	A. Yeah. My name is Gregory N. Duvall,
20	D-U-V-A-L-L.
21	Q. And what is your current position for
22	PacifiCorp/Rocky Mountain Power?
23	A. I'm the director of net power costs.
24	Q. And did you oversee the filing to
25	proposed tariff changes as well as filing direct

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1	and rebuttal testimony in this proceeding?
2	A. Yes, I did.
3	Q. Do you have any changes or corrections to
4	any of your testimony?
5	A. Yes. I have one change to my direct
6	testimony on page 17, and that's on line 361 where
7	I say that it will not reach its peak until
8	between 4:00 p.mI'm sorry3:00 p.m. and
9	4:00 p.m. It should be 4:00 p.m. and 6:00 p.m.
10	Mountain Daylight time. I was confused on Pacific
11	time when I wrote this testimony.
12	Q. With that exception, if I were to ask you
13	all of the questions that are contained in your
14	direct and rebuttal testimony, your answers would
15	be the same?
16	A. Yes, they would.
17	Q. And have you prepared a summary of your
18	testimony today?
19	A. Yes, I have.
20	Q. Would you please proceed with that?
21	A. Okay. So my direct testimony provides
22	support for the Company's May 7, 2014 filing to
23	update Schedule 37 prices. The Company made these
24	changes largely as a result of the Commission's
25	order in the renewable QF Docket 12-035-100. If

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the Company's changes are adopted, there are two
 primary remaining differences between Schedule 37
 and 38.

Schedule 37 uses a proxy method while
Schedule 38 uses a partial displacement
differential revenue requirement method or the
PDDRR. And Schedule 37 is a tariff that applies
to all QFs that qualify for Schedule 37 while
Schedule 38 is project and location specific.

These two differences allow Schedule 37
to remain simple to understand. The Company
proposes five notable changes to Schedule 37 to
align with the Commission's order in the renewable
QF docket.

15 First, integration costs were added for 16 wind and solar. Second, the capacity contribution 17 was added for solar. The capacity contribution 18 was already included for wind. And that was 19 updated to conform with the latest Commission 20 findings. Third, capacity costs based on a simple 21 cycle combustion turbine were removed from the 22 sufficiency period and retained in the deficiency 23 period. Fourth, an assumed carbon tax was removed 24 from the forward price curve. And, fifth, the 25 pricing option that provides for a fixed capacity

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1	payment plus a flat energy payment was eliminated.
2	All parties supportsupported inclusion
3	of the capacity contribution for specific types of
4	resources. Utah Clean Energy took exception to
5	the remaining four other changes. My rebuttal
6	testimony addresses the issues raised by Utah
7	Clean Energy and later supported by Sun Edison.
8	The addition of integration cost and
9	capacity contribution, removal of the capacity
10	costs in the deficiency periodin the sufficiency
11	period, and removal of the carbon tax assumption
12	were direct results of the Commission's order in
13	the renewable QF docket.
14	With regard to integration costs, the
15	Company's required to manage the variations of
16	intermittent resources regardless of size or
17	delivery voltage. With regard to size, the
18	Company currently has approximately 45 megawatts
19	of Schedule 37 contracts with solar projects in
20	Utah, which iswhich in aggregate is consistent
21	in size with a Schedule 38 QF. In addition, UCE's
22	proposal is not practical as it would result in a
23	three megawatt QF not paying for integration
24	costs, but a 3.1 megawatt QF would.
25	With regard to delivery voltage, there is

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1	no reason to believe that there's a difference in
2	integration costs, integration requirements
3	between transmission and distribution voltage
4	levels. The Company currently needs to integrate
5	load, which is primarily at a distribution level.
6	Intermittent resources at distribution level would
7	require integration just as intermittent resource
8	levelsresources at a transmission level would.
9	With regard to the capacity payment in
10	the sufficiency period, the Company cannot avoid a
11	simple cycle combustion turbine in a sufficiency
12	period. The issue was fully litigated in the
13	renewable QF docket. The same reasons supporting
14	the removal of these costs from Schedule 38 apply
15	to Schedule 37.
16	With regard to the removal of the carbon
17	tax from the forward price curve, it's my
18	understanding the Commission has not approved the
19	inclusion of an estimate of the cost of complying
20	with future carbon legislation in the avoided cost
21	calculation. At this time the carbon tax
22	assumption used in the IRP are just estimates and
23	do not reflect costs the Company can avoid. Until
24	carbon costs can be better defined, an estimate of
25	carbon costs should not be used in the avoided

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1 cost calculation. 2 And then with regard to elimination of the capacity and energy payment options, removal 3 4 of the capacity and energy payment option is 5 necessary so there's only one avoided cost under 6 Schedule 37 that properly reflects avoided costs 7 for all qualifying facility resource technologies 8 and does not create an opportunity for QFs to gain 9 the methodology to extract higher profits at 10 customer expense. 11 The Company chose to eliminate the 12 capacity and energy payment option to keep customers from overpaying QFs for capacity that is 13 14 not avoided. The problem with the capacity and 15 energy payment option is the capacity payment is 16 based on the highest 15-minute period within each 17 month regardless of whether that 15-minute period 18 alines with the Company's capacity needs. 19 UCE agrees the capacity payment should be 20 reduced by the capacity contribution, but fails to 21 change the measurement period of 15 minutes. They 22 continue to support measuring the capacity 23 contribution based on the 15 minutes. The 24 volumetric pricing structure in the Company's 25 proposal is calculated in the same manner as

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1	currently approved volumetric pricing.
2	In conclusion, overall, UCE and Sun
3	Edison's position is to continue the status quo.
4	This is unacceptable and is inconsistent with the
5	Commission's finding in the renewable QF docket.
6	Their proposal arms customers by artificially
7	inflating the avoided costs over those costs the
8	Company can actually avoid. That concludes my
9	summary.
10	MR. SOLANDER: Thank you. At this time
11	we would move that Mr. Duvall's direct rebuttal
12	testimony be entered into the record. And
13	Mr. Duvall is available for cross-examination from
14	the parties or questions from the Commission.
15	THE HEARING OFFICER: Any objection to
16	the evidence being received? The testimony is
17	received. Cross-examination for Mr. Duvall?
18	MR. JETTER: I just have a brief question
19	for Mr. Duvall.
20	EXAMINATION
21	BY-MR.JETTER:
22	Q. Good morning.
23	A. Good morning.
24	Q. A number of times in your opening
25	statement, you referred to renewable QF docket.

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1	Just to clarify for the record, are you referring
2	to the Docket No. 12-035-100?
-	A. Yes, I am.
4	MR. JETTER: Thank you. That's the only
5	question I had.
6	THE HEARING OFFICER: Thank you.
7	Mr. Olsen?
8	MR. OLSEN: No questions.
9	THE HEARING OFFICER: Yes, Ms. Hayes?
10	MS. HAYES: Thank you.
11	EXAMINATION
12	BY-MS.HAYES:
13	Q. Good morning, Mr. Duvall.
14	A. Good morning, Ms. Hayes.
15	Q. I just have a few questions. Are you
16	aware that most, if not all, of the Schedule 37
17	solar QFs interconnect to the Company's
18	distribution system?
19	A. I'm not aware of the interconnection
20	voltage level, no.
21	Q. All right. Did you take into
22	consideration distribution system benefits
23	associated with solar QFs connected to the
24	distribution system in your calculation of
25	Schedule 37 avoided costs?

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1	A. So in terms of distribution system
2	benefits, I'm not sure what is being referred to.
3	Q. Benefits at reducing peak demand on
4	different distribution substations or deferring
5	needed investments in the distribution
6	infrastructure?
7	A. No, I did not. At this point I'm not
8	aware of any savings that could come from those
9	facilities.
10	Q. So you're not aware that the Company has
11	studied distribution benefits such as the ones I
12	just described associated with two megawatt PD
13	projects interconnected at the distribution level?
14	A. No, I'm not.
15	Q. All right. Let's see, I want to move to
16	your rebuttal testimony at lines 110 through 112
17	regarding carbon costs as used in the IRP.
18	A. Correct. Yep, I'm there.
19	Q. Okay. You say because the IRP risk
20	assessment is only an estimate of potential future
21	costs imposed as a direct cost on emissions, it
22	should not be included in avoided cost
23	calculations, correct?
24	A. That's correct.
25	Q. QFs contract with the utility for periods

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1	up to 20 years; is that correct?
2	A. Yeah, that's correct.
3	Q. And you used projections of fuel prices
4	and market prices and other assumptions in
5	calculating avoided costs, correct?
6	A. That's correct.
7	Q. And the IRP utilizes price projections
8	and assumptions about the future such as gas
9	prices, market prices, capital costs, heat rates,
10	O&M costs, et cetera; is that correct?
11	A. That is correct.
12	Q. And does the Company rely on projected
13	environmental regulation compliance costs and
14	carbon price assumptions in justifying its
15	investments in pollution control technologies?
16	A. I believe it does because it uses the IRP
17	models, which include those assumptions.
18	MS. HAYES: Thank you. I have no further
19	questions.
20	THE HEARING OFFICER: Mr. Dodge?
21	MR. DODGE: Thank you. I do just have a
22	couple questions.
23	EXAMINATION
24	BY-MR.DODGE:
25	Q. One, Mr. Duvall, you referenced the 3.1

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1	megawatt Schedule 38 facility and the three
2	megawatt 37 facility. How many 3.1 megawatt 38
3	facilities are you familiar with in your Rocky
4	Mountain territory or in the Pacific territory?
5	A. I'm not familiar with any 3.1 megawatt
6	facilities on Schedule 38.
7	Q. The reality is 38 facilities are 50 to 80
8	megawatts almost always and 37 facilities are very
9	small, three and under, right?
10	A. They're very small, but, as I mentioned
11	earlier, we have in aggregate 45 megawatts worth
12	of Schedule 37 customers.
13	Q. I understand, but I'm responding to your
14	suggestion it's unfair that a 3.1 megawatt
15	facility on 38 has to be treated one way and a
16	three megawatt facility treated another. In
17	reality, that's not a fair comparison because that
18	doesn't happen?
19	A. It's not happened to date.
20	Q. Secondly, you suggest equal treatment on
21	the two other than the two issues that you
22	identified as remaining, but isn't it true that
23	they then treat it differently in all these seven
24	or eight ways for all the years we've had a
25	Schedule 37?

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1	A. I don't know if it's for all the years,
2	but I believe in my direct testimony I refer back
3	to the original Commission order. It was a '94
4	order. I don't know if that was beginning of
5	Schedule 37.
6	Q. And, in fact, the Commission has
7	repeatedly chosen to treat Schedule 37 differently
8	in many ways in those orders that you reference.
9	Is that not a fair statement?
10	A. Well, I think prior to the 12-035-100
11	order, there were capacity costs included for
12	Schedule 38 in the sufficiency period. The
13	Commission got rid of those. So I think there
14	were integration costs for wind, which was not
15	something that was in Schedule 37 so that is new.
16	So I'm not aware of any other differences that
17	Mr. Dodge may be referring to.
18	Q. You can check, but I think you'll find
19	that, in fact, 38 has never hadwell, neveras
20	many years as I've been watching 38, they've never
21	had payments during the sufficiency period. I
22	believe that's specific to Schedule 37. If that's
23	true, that was a deliberate decision to treat
24	capacity payments during the sufficiency period
25	different for 37 than for 38 for many years if

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1	what I represented is true?
2	A. Yeah. I'm sorry, my previous answer was
3	incorrect. Mr. Dodge is right, that there was no
4	capacity in the sufficiency period in Schedule 38.
5	However, as I recall, UCE argued toand
6	othersargued to add capacity payments in the
7	
	sufficiency period in that docket and the
8	Commission rejected it.
9	Q. I think that's a true statement.
10	Presumably, the Commission had reasons that they
11	treated the two schedules quite differently over
12	the years. Would you agree with that?
13	A. I'm not going to speculate on the
14	Commission's reasoning.
15	Q. Let me turn quickly to CO2 costs. If you
16	were forcedand I can't force youbut if you
17	were forced to be the spokesman for the Company
18	and give this Commission your best guess as to the
19	cost of your entire portfolio of resources ten
20	years or 20 years into the future, do you agree
21	with me it's highly likely that the Company's
22	spokesperson forced to answer that would include
23	some kind of onesome kind of carbon related
24	costs in the future, whether they be an assumed
25	carbon tax, whether they be regulations under the

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1	new EPA regulations for carbon, but they would
2	probably assume some kind of cost is going to be
3	in it. Would you agree with that?
4	A. I would suspect thatI mean, the
5	landscape has changed. When the EPA issued their
6	111(d) rule in June of this year, it does not have
7	a carbon tax, but it does have other ways of
8	reducing carbon. And I think in the future,
9	future IRPs, we will be looking at the impact of
10	111(d), you know, as it becomes more clear.
11	Q. You suggested onewell, do you suggest
12	that even 111(d) projected costs not be included
13	in QF pricing because they're speculative and
14	their carbon related? Is that your position?
15	A. With regard to 111(d) my position is we
16	don't know what 111(d) is going to bring yet, but
17	it is a regulation as opposed to just an
18	assumption. There is a regulation out there that
19	people are working on, states are working on,
20	companies are working on, and it's sort of the
21	expectation of the future with regard to carbon at
22	this time.
23	Q. So once the Company makes its best guess
24	inlet's say in the 2015 IRP context of what the
25	111(d) compliance cost would be, is it the

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1	Company's position that that best guess as to
2	111(d) compliance costs should be included in
3	Schedule 38 and Schedule 37 avoided cost pricing?
4	A. Well, I'm not sure. I thinkI mean, the
5	difference between 111(d) and the current IRP
6	assumptions is that 111(d) is actually a real,
7	proposed rule. What's in the IRP now, the carbon
8	cost addersthe carbon tax adders that are in the
9	IRP right now are, I think, based on previous
10	legislative proposals that have not come to
11	fruition. I think 111(d) kind of marks a
12	different future because it's actually a real
13	regulation that's been adopted.
14	Q. But my question was is it the Company's
15	position that once the Company projects those
16	111(d) costswell, let me step back.
17	We probably won't know for five years or
18	more for sure what 111(d) is going to cost. Is
19	that a fair assumption, because of
20	litigationexpected litigation, regulation
21	process, et cetera?
22	A. I can't make that assumption.
23	Q. Assume with me it's going to be many
24	years before the court process is done on 111(d)
25	and we can project with certainty what those costs

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1	arewell, with more certainty what those costs
2	are going to be. Would it be the Company's
3	position that until that certainty is there or
4	more certainty, five or whatever years down the
5	road, that you not include 111(d) costs in avoided
6	cost pricing?
7	A. It's a pretty hard question to answer. I
8	think as we get to a point where we are more
9	comfortable what 111(d) will be bringingthat may
10	be a year from now. That may be three years from
11	now. I don't know. There's a lot of work going
12	on. And I think it will be a conversation that we
13	have in the future in terms of what gets reflected
14	in the Company's plans and the Company's avoided
15	costs and all of that with regard to 111(d). I
16	don't have the answers today.
17	Q. Couple of follow up. The current IRP
18	does not assume that there will be a carbon tax,
19	does it? It includes a carbon cost based on
20	whether it be cap and trade, a direct carbon tax,
21	or a 111(d) type regulation. It's an estimate of
22	the cost of the Company of complying with expected
23	carbon regulation. Is that not a fair statement?
24	A. I always thought it was a tax. It starts
25	at \$16 a ton beginning in 2022 and escalates from

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1	there.
2	Q. Have you read the IRP chapter that deals
3	with that, with the why they include a carbon cost
4	as opposed to a carbon tax? Or they do that as a
5	surrogate for expected carbon costs of some sort?
6	Do you disagree with that?
7	A. Yeah, I don't disagree with that. I
8	mean, I think it's represented in the models as a
9	tax, but I think it is to capture the impacts part
10	of the future from a planning perspective.
11	Q. So I started by saying if I could force
12	you to be the spokesperson for the Company and
13	give me your best guess as to whether there will
14	be some kind of carbon cost in the Company's
15	portfolio ten, 15, 20 years from now, if the
16	answer to that would have been yes, were I the
17	Company spokesperson I would guess there will be,
18	and yet if you set avoided cost pricing today
19	ignoring any such cost, you're underpaying those
20	customers based on true avoided costs, are you
21	not?
22	A. No. I don't believe that estimates are
23	true of what it costs. They're not costs the
24	Company can avoid at this point.
25	Q. Are gas costs in the year 2025 an

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1	estimate or a known fact?
2	A. Well, they're a forecast provided by
3	third-party expert group.
4	Q. And how reliable have they been in the
5	past? You've done some backcasting of that. Have
6	they been really reliable in projecting fuel
7	costs, essentially gas costs?
8	A. I think that information's in the IRP.
9	I'm not sure how I would characterize it.
10	Q. Isn't the reality it's been woefully
11	inadequate in predicting and forecasting actual
12	gas prices?
13	A. I would not say that. I would say that
14	the forecasts from the actuals don't match, but I
15	would not characterize them as woefully different.
16	Q. Why is it you choose to pick on carbon
17	projections as opposed to fuel projections to
18	leave out of this pricing for QFs?
19	A. Well, we know we will have fuel expenses
20	and we don't know that we'll have any carbon tax.
21	Q. And yet the Company, for at least a
22	decade or so, has included and assumed carbon
23	costs in its IRP for purposes of justifying wind
24	plants that the Company bought, for the purpose of
25	justifying environmental investments in its plant.

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1	So the Company relies upon an assumed carbon cost
2	in the future to justify its own investments and
3	yet you're not willing to project that for the
4	purpose of paying people that want to build small
5	QFs. Is that a fair statement?
6	A. No, it's not a fair statement.
7	Q. What part is not fair about that?
8	A. The IRP looks at both owned resources and
9	purchased resources. It doesn't really
10	differentiate as to whether the Company's going to
11	own it or buy it under a PPA like a QF.
12	Q. Well, that wasn't the point of my
13	question. It was you did, in fact, build how many
14	hundred megawatts of wind
15	MR. SOLANDER: I'm going to object.
16	Mr. Dodge can ask the question without saying what
17	the point of his question is.
18	THE HEARING OFFICER: Could you just
19	restate the question, Mr. Dodge?
20	MR. DODGE: I guess I don't understand
21	the objection. I have to object
22	MR. SOLANDER: My objection is it's not a
23	question you're asking. You're making a speech
24	and then following up with a question.
25	MR. DODGE: This is cross-examination,

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1	counsel. I'm allowed to do leading questions and
2	to set forth my assumptions.
3	THE HEARING OFFICER: Mr. Dodge, rephrase
4	your question or restate the question.
5	MR. DODGE: Thank you, Mr. Chairman.
6	BY MR. DODGE:
7	Q. The question was has the Company not
8	included an assumed carbon cost in its future cost
9	scenarios or projections for purposes of
10	justifying wind projects that the Companymaybe
11	some did it, bought by contract, too. That's why
12	I was saying it was not the point of the question.
13	But you did build hundreds of megawatts,
14	thousand-plus megawatts of wind. You, in part,
15	relied upon an assumed carbon cost to justify that
16	and to justify fairly massive environmental
17	improvements at your coal plants. Is that not
18	accurate?
19	A. Well, I believe there werewe used the
20	IRP framework to justify resources, whether
21	they're company owned or PPAs. But when we get to
22	actually entering the contract with a QF or our
23	own facilities or PPA that's not a QF, we pay
24	actual costs. We don't pay costs that are not
25	actual, that are notyou know, that don't occur.

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1	Q. So what's the actual cost when you buy
2	wind energy from a wind developer? Do you sign a
3	PPA? You do pay an actual cost?
4	A. We are paying the cost that we agreed to
5	in the PPA.
6	Q. You pay a negotiated cost. And isn't the
7	QF context trying to duplicate that? Because we
8	don't have arms-length negotiations. We're trying
9	to determine what you would pay if you went out
10	and deliberately negotiated for that power
11	purchase agreement at the full cost you would have
12	paid had you chosen to do it yourself.
13	A. No. I'm not sure I understand the
14	question. But in a PPA with a third party that we
15	acquire through our fee, whatever they bid in is
16	what they bid in. I don't know what they put in
17	there in terms of their own assumptions about
18	carbon costs in the future.
19	Q. So what I'm trying to get at is why
20	you're picking on carbon costs alone when all the
21	projections that are just that in a 20-year
22	context. Until this year, you had never proposed
23	that carbon costs were too ambiguous or too
24	uncertain to remove. Your testimony says it's
25	only because you read the Commission order

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1	suggesting it. Is that a fair statement?
	suggesting it. Is that a fair statement?
2	A. Yes, it is.
3	Q. So if the Commission in that order, in
4	the Schedule 38 docket, did not intend to say that
5	you must remove your assumed carbon costs that
6	you've used in the IRP for a decade or so, then
7	your proposal to take it out would be not well
8	founded unless they choose a different basis for
9	it. Is that a fair statement, too?
10	A. No. And justyou know, we did look
11	atI did look at the order, and I believe that
12	that was what the Commission said. But, as a
13	practical matter, we don't have carbon costs or
14	carbon tax or whatever that we know of that we're
15	going to avoid and, therefore, it shouldn't be
16	included in an avoided cost at this time.
17	Q. Nor do you know what the gas prices are
18	going to be in ten years and yet you pay for that?
19	A. We know that we're going to burn gas and
20	it's going to have a cost.
21	Q. And you can sit here as the Company rep
22	and say you don't know you're going to have some
23	kind of carbon cost?
24	A. Well, I'm not the Company rep, but I
25	believe I've answered this question already. I

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1	think there will be someI mean, 111(d) that
2	directs as carbon emissions and there's costs
3	associated with complying with 111(d).
4	Q. So failure to include any assumed carbon
5	cost will, by definition, underpay true avoided
6	costs to QFs if that cost projection is completely
7	ignored? Is that not a fair statement?
8	A. No, it's not.
9	Q. You don't agree with that even though
10	you've admitted there will be some costs and
11	you're proposing not to pay them, you don't see
12	that as not reaching full avoided costs, this
13	failing to reflect true avoided costs?
14	A. Well, I think there's probably more
15	issues with 111(d). There may bewe may need to
16	relook at avoided costs when we know more about
17	111(d). Due to the fact that there may be some
18	costs that we will need to incur under 111(d) that
19	may not be appropriate for paying avoided costs
20	under PURPA.
21	MR. DODGE: I have no further questions.
22	THE HEARING OFFICER: Mr. Evans?
23	MR. EVANS: No questions. Thank you.
24	THE HEARING OFFICER: Redirect?
25	MR. SOLANDER: No questions. Thank you.

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1	THE HEARING OFFICER: Questions from the
2	Commission?
3	COMMISSIONER LeVAR: No.
4	CHAIRMAN ALLEN: I don't have any.
5	THE HEARING OFFICER: I have just a
6	couple of questions for youor a few questions
7	for you, Mr. Duvall.
8	EXAMINATION
9	BY-THE HEARING OFFICER:
10	Q. First, in your direct testimony where you
11	describe the current Schedule 37 methodologyI
12	think it's about lines 96 and forward on page 5.
13	A. I'm there.
14	Q. Okay. Relative to the prices that are
15	provided in the schedules that were presented with
16	your request for tariff modification, looking
17	first at prices for base load, how is the
18	methodology, if at all, different as reflected in
19	those schedules in relation to the current
20	methodology as you describe it here on page 5? In
21	other words, what adjustments have you made that
22	would, if any, affect those base load price
23	calculations?
24	A. So for base load the integration cost
25	would not apply. The capacity contribution would

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1	not apply. Removal of the capacity costs in the
2	sufficiency period would affect that. The removal
3	of the carbon from the official forward price
4	curve would affect it beginning in 2021. And the
5	elimination of the one pricing option would affect
6	it.
7	Q. And so it's those latter adjustments
8	A. Latter three, correct.
9	Qthat you apply to thiswhat I'll call
10	the ten megawatt differential revenue requirements
11	method? Are there any other changes in that
12	method that you've applied in the base load
13	schedule calculations?
14	A. Not that come to mind.
15	Q. And then for the schedules that relate to
16	wind or the two types of solar, the other
17	adjustments would be applied, but, again, to the
18	same ten megawatt differential revenue requirement
19	approach that's been used historically?
20	A. Yes. The integration costs and the
21	capacity contribution costs.
22	Q. Thank you. Do you happen to have
23	Ms. Wright'sSarah Wright's rebuttal testimony in
24	front of you?
25	A. Yes, I do.

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1	Q. Would you turn, please, to page 4? I
2	want to ask you about her testimony at lines 60
3	through 66. Here she talks about relationship
4	between an eight cent per kilowatt hour price
5	under Schedule 38. And thenI'm sorrySchedule
6	37. Prices under Schedule 38 that she
7	characterizes as having generally been in the five
8	to six cent per kilowatt hour range. And then
9	underprices under the proposedthe Company's
10	proposed method of three to four cents, are those
11	correct relationships as you understand them? In
12	other words, is this factually correct?
13	A. So the schedules under Schedule 38or
14	the prices under Schedule 38, which were the five
15	to six cents, were from Mr. Vastag's testimony.
16	And I think what he's aware of are the prices that
17	have been brought beforethe contracts that have
18	been brought before the Commission for approval.
19	We have given a lot of prices out since then. And
20	while those are project specific and I don't know
21	if they're confidential or not, but I think I can
22	say that they're in the range of three to four
23	cents.
24	Q. And you're referring to Schedule 38?
25	A. Schedule 38, the more recent prices that

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1	we've been putting out.
2	Q. Couple of other subjects, Mr. Duvall.
3	A. Okay.
4	Q. Can you help us by sort of giving us an
5	update on where the company stands with regard to
6	the solar integration study? Do you have an idea
7	of when the Commission might see that?
8	A. Well, the sequencing that the folks are
9	working on this is that they put the capacity
10	factor study. There were two studies.
11	Q. Right. I wanted to ask you about the
12	other one, as well, so if you want to update us on
13	all of them, that's great.
14	A. Okay. So on the capacity factor study,
15	the studytechnical study has been complete. It
16	was complete in August. It's being reviewed.
17	Testimony is being prepared. And I would hope
18	that maybe by the end of this month or early next
19	month, that will be filed with the Commission.
20	Q. And that would apply to both wind and
21	solar?
22	A. Yes, it would. Yeah, I believe that's
23	right. And then the solar integration study is
24	further down the pike. At this point, we don't
25	have actual solar data to help us put that study

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1	together. So at this point I've asked the folks
2	who are working on it and I have not gotten a firm
3	schedule at this point.
4	THE HEARING OFFICER: Those are all my
5	questions. Any follow-up, Mr. Solander?
6	MR. SOLANDER: No, thank you.
7	THE HEARING OFFICER: Thank you,
8	Mr. Duvalloh.
9	COMMISSIONER LeVAR: Can I have a
10	follow-up?
11	THE HEARING OFFICER: Absolutely.
12	EXAMINATION
13	BY-COMMISSIONER LeVAR:
14	Q. Just as a follow-up to your answer to
15	Commissioner Clark's question
16	THE HEARING OFFICER: Hang on. You don't
17	have to ask meyou asked me if you could follow
18	up. I said you don't have to ask me.
19	COMMISSIONER LeVAR: Okay, sure. Just so
20	you would know what I was doing, though.
21	THE HEARING OFFICER: Absolutely.
22	BY COMMISSIONER LeVAR:
23	Q. Your answer with Mr. Clark on this
24	Schedule 38 pricing on the four completed dockets
25	versus the ones that are in processand, again,

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4	
1	if I'm asking a question that focuses on the
2	ongoing dockets, please say so. But is the
3	biggestall of those, the ones that Mr. Vastag
4	calculated and the ones that process are all under
5	the new order, the 12-035-100 docket?
6	A. Correct.
7	Q. Is the difference in pricing between
8	those the difference in what's being displaced or
9	is there something else that's driving the
10	difference between five/six and generally three to
11	four?
12	A. No. It's in the amount of QF requests
13	we've got in a queue. And as you get more and
14	more QF requests, you go lower down on the stack
15	in terms of what's displaceable next.
16	COMMISSIONER LeVAR: Thank you.
17	THE HEARING OFFICER: Thank you. You're
18	excused, Mr. Duvall.
19	MR. DUVALL: Thank you.
20	THE HEARING OFFICER: Anything further,
21	Mr. Solander, with your direct case?
22	MR. SOLANDER: That's my direct case.
23	Thank you.
24	THE HEARING OFFICER: Thank you
25	Mr. Jetter?

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1	MR. JETTER: Thank you. The Division
2	would like to swear in and call our first witness,
3	Dr. Abdulle.
4	THE HEARING OFFICER: Do you solemnly
5	swear that the testimony you're about to give
6	should be the truth, the whole truth, and nothing
7	but the truth?
8	MR. ABDULLE: I do.
9	ABDINASIR ABDULLE, Ph.D.,
10	having been first duly sworn, was
11	examined and testified as follows:
12	THE HEARING OFFICER: Thank you,
13	Dr. Abdulle. Please be seated.
14	Mr. Jetter, whenever you're ready.
15	MR. JETTER: Thank you.
16	EXAMINATION
17	BY MR. JETTER:
18	Q. Dr. Abdulle, would you please state your
19	name and occupation for the record. And would you
20	please spell your name also for the court
21	reporter?
22	A. My name is Abdinasir Abdulle. First name
23	Abdinasir, A-B-D-I-N-A-S-I-R. Abdulle,
24	A-B-D-U-L-L-E. And I'm a technical consultant for
25	the Division of Public Utilities.

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4	O Thenk years And did years meaning and file
1	Q. Thank you. And did you prepare and file
2	direct and rebuttal testimony in this docket?
3	A. Yes, I did.
4	Q. Do you have any changes or updates that
5	you would like to make to either of those filings,
6	prefiled testimony?
7	A. No changes.
8	Q. And if you were asked the same questions
9	that were included in both of those filings today,
10	would your answers remain the same?
11	A. Yes.
12	Q. Thank you. Have you prepared a brief
13	statement summarizing the position of the Division
14	of Public Utilities?
15	A. Yes, I did.
16	Q. Please go ahead.
17	A. I have filed direct and rebuttal
18	testimony in this proceeding. In those I
19	addressed the proposed change that the Company
20	filed. Those changes were the ones that were just
21	recently released down by Mr. Duvall. But to
22	refresh, it's including the integration and
23	capacity costs is for wind and solar qualifying
24	facilities in avoided cost calculations for
25	Schedule 37. Removing capacity costs simple cycle

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1	combustion turbine from the calculation of avoided
2	costs for a Schedule 37 using the sufficiency
3	period. Removing those from the official forward
4	price curve the specific adder that represents a
5	future carbon dioxide tax. Eliminating the
6	capacity and energy payment options related to the
7	monthly payments. And also keeping the seasonally
8	differentiated on-peak and off-peak energy prices,
9	but providing this pricing scheme for a base load
10	facility, wind facility, and a solar facility
11	separately.
12	In addition to those that I just listed,
13	changes, there were other routine changes that the
14	Company usually do it on a yearly basis that were
15	made. The Division reviewed proposed changes and
16	concluded that with the exception of removing the
17	carbon dioxide tax adder from your official
18	forward price curve, that these changes are just,
19	reasonable, and in the public interest. I
20	recommend the Commission approve it.
21	Regarding the carbon dioxide tax adder,
22	the Division found that the Commission direction
23	in Docket 13-035-100 was ambiguous and would not
24	make a decision, therefore, did not take a
25	position on that issue.

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1	Thank you. That concludes my summary.
2	MR. JETTER: Thank you. The Division
2	would like to move at this time for entry of the
4	-
	direct and rebuttal testimony of Dr. Abdulle into the record.
5	
6	THE HEARING OFFICER: Any objections?
7	They're received.
8	MR. JETTER: Thank you. I have just one
9	quick follow-up question.
10	BY MR. JETTER:
11	Q. I believe you said 13-035-100 and I think
12	the docket number may beis it possible it's
13	12-035-100?
14	A. That's correct.
15	MR. JETTER: Thank you. I have no
16	further direct questions and our witness is
17	available for cross. Thank you.
18	THE HEARING OFFICER: Thank you,
19	Mr. Jetter.
20	Mr. Olsen?
21	MR. OLSEN: We have no cross. Thank you.
22	MR. SOLANDER: No questions, thank you.
23	THE HEARING OFFICER: Mr. Solander, sorry
24	to jump over you.
25	MS. HAYES: Thank you, Commissioner

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1	Clark.
2	EXAMINATION
3	BY MS. HAYES:
4	Q. Good morning, Dr. Abdulle. In your
5	direct testimony at line 58
6	A. Page?
7	Q. Idon't know.
8	A. Igotit.
9	Q. Oh, thank you. You say, "The Division
10	believes that with the exception of some
11	simplifications that are already in place, all QFs
12	should be treated equally and their avoided costs
13	should be calculated the same way regardless of
14	their sizes." Could you tell me what are those
15	simplifications already in place?
16	A. Indifferent here in the Schedule 37 from
17	Schedule 38 given the fact that Schedule 37
18	customers are small. Those simplifications are
19	outward silent to remove the burden and say from
20	Schedule 37 customers.
21	Q. So would you agree that the size of the
22	resource modeled in the grid run is one of those
23	simplifications?
24	A. That's the differentiation between two
25	schedules is the time.

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1	Q. And also that the supply curve of the
2	resource model and grid?
2	A. I'm not sure what you mean.
4	-
	Q. I'll make it clearer. I'm sorry. I'll
5	get to that. Can I lead you to your rebuttal
6	testimony at line 42? You say capacity payments
7	during the sufficiency period when an FOT is
8	displaced, which includes a capacity payment,
9	would overcompensate the QF contrary to the
10	ratepayer indifferent standard; is that correct?
11	A. Correct.
12	Q. I would like to ask you some questions
13	about how energy payments in the resource
14	sufficiency period are calculated under Schedule
15	37 and 38 and how they're different.
16	A. Yeah.
17	Q. So under Schedule 38, avoided energy
18	costs in the sufficiency period are calculated on
19	differential grid runs and the QF resource is
20	modeled with the supply curve based on its actual
21	supply characteristics; is that correct?
22	A. I'm not sure what that's asking, but the
23	way I understand it and the intent I had about
24	this statement is the fact that when running the
25	grid, when the QF is grazing the front of

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1	transaction, thatthe grid model captures the
2	whole avoided cost because it included the
3	capacity costs that were there. So adding it
4	again would overcompensate the
5	Q. Sure. But I just want to ask you some
6	questions about how Schedule 37 and Schedule 38
7	differ. So in Schedule 38, the proxy resource, if
8	you willalthough I may be conflating my
9	methodsbut was it the resource modeled for it to
10	calculate energy payments in the sufficiency
11	period is based on the QFs that has approached the
12	company? So, for example, if I'm a solar QF
13	developer and I'm approaching Rocky Mountain Power
14	for a Schedule 38 contract, in order to figure out
15	avoided cost energy prices in the sufficiency
16	period, the Company will model a grid run with the
17	supply curve ofthat corresponds with the type of
18	resource I'm proposing, size and supply curve; is
19	that correct?
20	A. Correct.
21	Q. And, as you were saying, the Commission
22	found that to the extent the QF supply curve
23	displaces front office transactions in that grid
24	run, the avoided costs compensate for avoided
25	capacity costs as a component of the avoided front

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1	office transactions; is that correct?
2	A. Correct.
3	Q. So under Schedule 37, energy costs in the
4	sufficiency period are based on the addition of a
5	zero cost ten average megawatt resource; is that
6	correct?
7	A. Correct.
8	Q. And that resource is added as a flat
9	decrement to load, correct?
10	A. Correct.
11	Q. So the energy price based on this flat
12	decrement to load is an average energy price that
13	does not take into consideration the supply
14	characteristics of unique QF resources or the
15	resources that an actual QF would displace; is
16	that correct?
17	A. It does not include the unique
18	characteristics of the QF.
19	Q. So it's possible, isn't it, that the
20	Schedule 37 energy price does not offset
21	summertime front office transaction capacity to
22	the same extent that a solar QF's actual supply
23	curve would offset summertime front office
24	transaction capacity; is that correct?
25	A. I don't agree with that. When you spread

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1	your front office transactions because of the size
2	of the qualifying facility that's offsetting, the
3	grid model will calculate what avoided cost would
4	be or should be. And that's the number that would
5	bethe number we would use in avoided cost. And
6	that includes capacity costs of the facility.
7	Q. But do you agree that an actual solar
8	supply curve may displace more front office
9	transactions than a flat decrement to load?
10	A. A comparison between flat decrement load
11	and a solar?
12	Q. Supply curve wouldproduces most of its
13	energy in the summertime?
14	A. Yes.
15	Q. So a QF that produces most of its energy
16	in, for example, third quarter heavy load hours
17	would not get compensated or would displace more
18	front office transactions than a ten megawatt flat
19	load decrement? I think that's what I just asked,
20	sorry.
21	And so to the extent that an actual solar
22	QF produces most of its energy in those
23	highthose heavy load hours, it does not get
24	compensated to the same extent under Schedule 37
25	as an actual solar supply curve would get

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1	compensated under Schedule 38; is that correct?
2	A. There are so many different small QFs
3	that are out there, solar, wind, whatever you call
4	it, and each one if they go on we use the specific
5	characteristics of those things and they negotiate
6	prices Schedule 38 would be, that would put a lot
7	of burden to these small QFs.
8	So these changes, these differences we're
9	talking about now, are the reasoningare the
10	difference between the two. And thosethat
11	specific QF, small QF, would be different than the
12	other one. And different than the other one.
13	They are all different. So that's why we're
14	choosing the price to avoid all those problems.
15	Q. Right. So would you agree that by
16	simplifying the method, Schedule 37 QFs are not
17	compensated in the same way or to the same extent,
18	for example, under Schedule 38, which models the
19	actual supply curve?
20	A. Yes.
21	Q. So if simplifications to Schedule 37
22	prices have the affect of artificially reducing 37
23	prices compared to Schedule 38 prices, do Schedule
24	37 prices discriminate against small QFs relative
25	to large QFs?

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1	A. I don't think so. The simplifications
2	are cost saving for these small QFs, not cost
3	burden on them. So they're not going to be
4	undercompensated based on these calculations that
5	are put there in the grid model and the
6	calculations for avoided costs. I don't think
7	that they are under.
8	Q. Even though they're compensated less for,
9	for example, their energy and capacity based on
10	the way energy prices are calculated?
11	A. The fact that we are posing a price that
12	would be applicable to all small QFs, it's
13	notthat price as we're quoting may not be the
14	same if we have to calculate each one of them
15	individually.
16	Q. Hasn'toh
17	A. Go ahead.
18	Q. Go ahead. Sorry, I didn't mean to cut
19	you off.
20	A. I'm finished.
21	MS. HAYES: Okay. I have no further
22	questions. Thank you.
23	THE HEARING OFFICER: Mr. Dodge?
24	MR. DODGE: Thank you.
25	· ·

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1	EXAMINATION
2	BY MR. DODGE:
3	Q. Dr. Abdulle, good morning. In your
4	testimony you reference, you know, the importance
5	of the ratepayer indifference standard, right?
6	A. Yes.
7	Q. The Division recognizes, does it not,
8	that another goal of PURPA and Utah's mini purpose
9	statutes are to encourage the development of small
10	clean renewable projects?
11	A. Correct.
12	Q. Ifyou stated several times that some of
13	the proposals being made by Utah Clean Energy you
14	oppose on the grounds that it would violate the
15	ratepayer indifference standard. Does the
16	Division give equal consideration to whether the
17	approach the Company uses in setting avoided cost
18	rates may undervalue the pricingthe avoided cost
19	pricing?
20	A. I understand the question, are you saying
21	reconsider the fact that the price proposed may be
22	under?
23	Q. Yes. Is that an issue that you would be
24	concerned about?
25	A. Yes.

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1	Q. And I guess has the Division had any
2	discussions about their level of confidence in a
3	20-year levelized three to four cent energy plus
4	capacity future? If that's the prices of the
5	current avoided costs are spitting out for a
6	Schedule 37 and we heard today for Schedule 38
7	projects, does the Division have confidence that
8	the 20-year levelized cost of resources energy
9	plus capacity is going to be in the 30 to \$40 per
10	megawatt rangemegawatt hour range?
11	A. The Division did not have a specific
12	discussion on that specific question in this
13	proceeding.
14	Q. As a Doctor of Economics and a utility
15	specialist, what level of confidence do you have
16	that that will be the pricing we'll see over the
17	next 20 years?
18	A. Over 20 years, I cannot saymy
19	confidence level is hundred percent, but l
20	cannotI don't know which to calculate what that
21	specific number would be present number, but we
22	are confident that to a certain extent that these
23	would be true.
24	Q. And you do accept that ratepayers are not
25	indifferent and are, in fact, damaged if avoided

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1	aget rates are get too low and it makes projects
	cost rates are set too low and it makes projects
2	that would otherwise be built not be built, QF
3	projects?
4	A. Yes.
5	MR. DODGE: Okay. Thank you. No further
6	questions.
7	THE HEARING OFFICER: Redirect?
8	MR. JETTER: No redirect, thank you.
9	THE HEARING OFFICER: Questions from the
10	Commission? Dr. Abdulle, you're excused. Thank
11	you very much.
12	DR. ABDULLE: Thank you.
13	THE HEARING OFFICER: Anything further,
14	Mr. Jetter?
15	MR. JETTER: No, thank you. That
16	concludes the Division's presentation.
17	THE HEARING OFFICER: Mr. Olsen?
18	MR. OLSEN: At this time we would like to
19	call Bela Vastag.
20	THE HEARING OFFICER: Do you solemnly
21	swear that the testimony you're about to give will
22	be the truth, the whole truth, and nothing but the
23	truth?
24	MR. VASTAG: Yes, I do.
25	BELA VASTAG,

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1	having been first duly sworn, was
2	examined and testified as follows:
3	THE HEARING OFFICER: Thank you very
4	much. Please be seated.
5	EXAMINATION
6	BY-MR.OLSEN:
7	Q. Could you please state your name for the
8	record, please, and your position.
9	A. My name is Bela Vastag, B-E-L-A. Last
10	name, Vastag, V-A-S-T-A-G. I'm a utility analyst
11	employed by the Office of Consumer Services and my
12	business address is here in this building, 160
13	East 300 South, Salt Lake City.
14	Q. On August 12, 2014, did you provide
15	initial testimony in this proceeding?
16	A. Yes.
17	Q. And on August 29, 2014, did you provide
18	rebuttal testimony?
19	A. Yes.
20	Q. At this time do you have any changes to
21	make to your testimony?
22	A. No, no changes.
23	Q. So if you were asked those questions
24	again, your answers would remain the same?
25	A. Yes.

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1	Q. Have you prepared a summary of your
2	testimony?
2	A. Yes, I have.
4	
4 5	Q. Would you please read that for the record?
6	
	A. In my testimony I provided the Office of
7	Consumer Services' position on the Company's
8	proposed Schedule 37 changes to Schedule 37, which
9	I will summarize. The Office recommends that the
10	Commission approve the Company's proposed changes.
11	The Office supports the changes because they will
12	reestablish ratepayer indifference for pricing
13	under Schedule 37 and it will implement Commission
14	approved guidelines for QF avoided cost pricing in
15	Docket 12-035-100.
16	The current Schedule 37 pricing format
17	that includes a capacity payment can provide QF
18	compensation that greatly exceeds the Company's
19	avoided costs. This violates the PURPA standard
20	of ratepayer indifference. In addition, the
21	current two pricing formats under Schedule 37
22	provides substantially different payments to a QF.
23	Again, this violates the PURPA standard of
24	ratepayer indifference. Therefore, the Office
25	supports the Company's proposal to eliminate the

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pricing format that includes the capacity payment
 and only provide QF payments in an energy based
 format for a per kilowatt hour basis.

4 This payment format is also consistent 5 with how large QFs are paid under Schedule 38. 6 The Company's proposed changes also implement 7 certain provisions for QF avoided cost methods, 8 which were ordered by the Commission in Docket 9 12-035-100 for large QFs under Schedule 38. These 10 provisions include, one, integration charges for 11 wind and solar QFs. Two, capacity contribution 12 values for wind and solar QFs. Three, no 13 additional capacity payments are to be given to 14 QFs during the sufficiency period. Four, no specific adjustments to QF pricing are to be made 15 16 for the value of fuel price hedging, fuel price 17 volatility, or environmental risk.

18 The Company has complied with these four 19 provisions in their proposed Schedule 37 pricing 20 by implementing integration charges and capacity 21 values for wind and solar QFs, by removing 22 capacity payments based on a simple cycle 23 combustion turbine during the sufficiency period, 24 and by removing the effect of a hypothetical CO2 25 tax from the forecast of wholesale electricity

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prices.

1

2 The Office asserts that these changes 3 proposed by the Company are appropriate because 4 the method for calculating QF avoided cost pricing 5 should be consistently applied whether for large QFs under Schedule 38 or for small QFs under 6 7 Schedule 37. The Office understands that an order 8 to provide small QFs streamlined contracting 9 process under Schedule 37 be avoided cost modeling 10 and needs to be simplified and cannot be exactly 11 the same as in Schedule 38. However, the 12 provisions ordered by the Commission in Docket No. 13 12-035-100 should be applied to all QFs. The 14 Office also understands that even when the methods 15 for calculating avoided cost pricing were applied 16 consistently, prices will be different for 17 different QFs because pricing is also dependent on 18 such factors as when the modeling is done, which 19 IRP preferred portfolio is used, where the QF is 20 in the queue, et cetera. 21 Some parties in this proceeding claim 22 that the modeling of Schedule 37 pricing needs to 23 be consistent with certain assumptions from the 24 Company's IRP. Some claim that assumptions should 25 be the same as the IRP base case. It is unclear

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> > Page 54

1	what the IRP base case is. The Office
2	believesthe Office does not believe that PURPA
3	requires QF avoided costs be consistent with the
4	utilities IRP, but that they should be reflective
5	of actual costs the Company will avoid. Even if
6	some type of consistency with the IRP was
7	mandated, this would be difficult to achieve since
8	each IRP models multiple cases with widely varying
9	assumptions. The cases and assumptions model
10	chainthe cases and assumptions model change each
11	IRP cycle.
12	On the other hand, the IRP and QF avoided
13	cost pricing are prominently linked because the
14	IRP's preferred portfolio is used in the modeling
15	of QF prices.
16	In addition to supporting the Company's
17	proposed changes, my testimony also provides two
18	additional recommendations by the Office. These
19	recommendations are, one, the Company should work
20	with stakeholders and regulators concerning any QF
21	related transmission constraints and make a filing
22	with the Commission before implementing any change
23	to avoid cost pricing for transmission
24	constraints. And, number two, in future annual
25	Schedule 37 filings, the Company should include a

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1	list of projects that have contracted with the
2	Company under Schedule 37 during the previous
3	year. And this list should include specific
4	information about each project. That concludes my
5	summary.
6	THE HEARING OFFICER: Anything further?
7	MR. OLSEN: No, Your Honor. Mr. Vastag
8	is now available for cross-examination.
9	THE HEARING OFFICER: And you would like
10	us to receive in evidence his direct and rebuttal
11	testimony?
12	MR. OLSEN: Yeah. I didn't know exactly
13	when you wanted me to ask that, but I would, Your
14	Honor.
15	THE HEARING OFFICER: That's fine.
16	MR. OLSEN: Thank you.
17	THE HEARING OFFICER: Is there any
18	objection? It's received. Thank you.
19	Cross-examination?
20	MR. SOLANDER: No questions. Thank you.
21	MR. JETTER: No questions from the
22	Division.
23	THE HEARING OFFICER: Thank you.
24	MS. HAYES: Thank you, Commissioner
25	Clark.

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i	
1	EXAMINATION
2	BY-MS.HAYES:
3	Q. Good morning, Mr. Vastag.
4	A. Good morning, Ms. Hayes.
5	Q. Can I direct you to your rebuttal
6	testimony, page 8, starting at line 151?
7	A. Okay.
8	Q. You say even if the capacity payment
9	format could be modified to produce the same total
10	payments as the energy only format for the
11	proposed rates in this proceeding, the likelihood
12	is that they will deviate again in the future. It
13	would be administratively burdensome to
14	continually review these rates to ensure they
15	remain in sync. Is that correct?
16	A. Yes.
17	Q. Are you aware that the Commission
18	requires that the Company review its Schedule 37
19	prices once a year or whenever the 25 megawatt cap
20	is reached?
21	A. Yes.
22	Q. Are you aware that the Commission
23	requires the Company to file updates to its
24	Schedule 38 pricing and input assumptions four
25	times a year?

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1	A. I believe it's four times.
2	Q. Are you aware that Schedule 38 pricing,
3	which is unique to specific QFs, changes with
4	every QF based on the QF resource type and size
5	and the resources it displaces?
6	A. Right. Every QF, the pricing is
7	different.
8	Q. So you are aware, then, that Schedule 38
9	prices are not fixed at a specific rate; is that
10	correct?
11	A. That's correct.
12	Q. There's no platonic ideal avoided cost?
13	A. Unfortunately.
14	Q. Yeah, right. And Schedule 38 prices and
15	terms are negotiated based on a Commission
16	approved method; is that correct?
17	A. Yes.
18	Q. Whereas Schedule 37 prices are not based
19	on a specific QF resource, but are rather based on
20	a flat ten megawatt load decrement; is that
21	correct?
22	A. I'm not exactly sure what you mean by
23	flat ten megawatt load decrement, but I'll
24	Q. It's a
25	Aaccept that

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1	Q. Okay.
2	Athat if you say that that's what it is.
3	Q. Okay. So it would not make sense to
4	reset Schedule 37 rates every time a new Schedule
5	38 PPA is signed or removed from the queue, would
6	it?
7	A. No.
8	Q. Based on administrative efficiency, for
9	example?
10	A. Right. The purpose ofone of the
11	purposes of Schedule 37 is to provide a simple
12	process for QFs to contract with the Company.
13	Q. Do you recognize that there will always
14	be some inconsistency between Schedule 37 and
15	Schedule 38 pricing, correct?
16	A. Yes.
17	Q. If you could continue looking at your
18	testimony starting where I left off at 155,
19	therefore, the Office asserts that there should be
20	just one payment format for Schedule 37
21	incorporating the Company's avoided cost and for
22	simplicity of consistency with Schedule 38, that
23	payment format should be an energy only format?
24	A. Yes.
25	Q. Why is it important that the single

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1	payment option for Schedule 37 be an energy only
2	payment?
3	A. Well, in order tothe first part of the
4	reasoning is that there shouldn't be two different
5	payment formats for Schedule 37 because they, as
6	we've seen in the current schedule, they produce
7	different prices. So if we need to choose one of
8	them, then one reason to choose the energy only is
9	that that's the way Schedule 38s are paid. So it
10	would be using the similar pricing format between
11	the two schedules.
12	Q. But you mentioned and you recognized
13	previously that it would be possible to set both
14	payment options so they were consistent, correct?
15	A. Anything's possible, yeah, when you model
16	things at the beginning.
17	Q. Anything is possible, what a positive
18	statement. And we've already established that
19	Schedule 38 pricing is a moving target, correct?
20	A. Yes. It changes with each PPA.
21	Q. And that Schedule 37 and 38 prices may
22	coincide, but will never likely be exactly the
23	same, correct?
24	A. No. Just by definition the way modeling
25	works, they won't be exactly the same.

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1	
1	MS. HAYES: Thank you. I have no further
2	questions.
3	THE HEARING OFFICER: Mr. Dodge?
4	EXAMINATION
5	BY-MR.DODGE:
6	Q. Good morning, Mr. Vastag.
7	A. Good morning.
8	Q. I'm looking at your rebuttal testimony
9	beginning on line 53. This is dealing with CO2
10	taxes. And you indicate the position of the
11	Office is based on the plain language from the
12	Commission's order in the Schedule 38 QF docket
13	that, quote, we approve no specific adjustments to
14	value fuel price hedging, fuel price volatility,
15	or environmental risk. Is it the Officeor is it
16	your view that a plain language of that order said
17	that the Company was, in fact, instructed to make
18	four specific adjustments to its normal grid
19	modeling to remove the impacts of the projected
20	CO2 costs?
21	A. Excuse me, did you say four adjustments?
22	Q. Will you accept, subject to check, that,
23	in fact, the Company made adjustments to four of
24	the grid files? There are four grid files
25	normally used for grid purposes, including QFs

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1	that included some impact from CO2 cost
2	assumptions.
3	A. Can you explain what thoseI mean, what
4	are those grid fileswhat data do they contain?
5	Q. You and I are both at a handicap here. I
6	suspect you don't run grid and neither do I.
7	A. No.
8	Q. But I'll tell you what I understand and
9	I'll just ask you subject to check, then I'll ask
10	my question. I'm not asking you to verify this.
11	But it's my understanding that carbon costs were
12	adjusted out of the grid file called energy
13	charge, adjusted out of the grid file called fuel
14	price, and adjusted out of the grid file called
15	other cost, and adjusted out of grid file called
16	price forecast. In other words, there are four
17	specific input files to the grid to which specific
18	adjustments were made to remove the impact of the
19	CO2 costs, as I understand.
20	Now, without asking you to verify that,
21	if you accept that subject to check, is it your
22	view that the plain language of the 12-035-100
23	order was that the Company should make specific
24	adjustments to those four files to remove the
25	impacts of projected carbon costs?

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1	A. Well, the order didn't direct the Company
2	to make any specific adjustments to any specific
3	files. It said that avoided costs would not have
4	any specific adjustment for environmental costs.
5	So how that's implemented is within the grid
6	modeling is beyond my expertise and I would have
7	to rely on the Company's expertise.
8	Q. When you say you rely on the plain
9	language of the order, that suggests to me that
10	you think that order plainly says, not with
11	anything make no specific adjustment, but, in
12	fact, what it means is go make specific
13	adjustments to four files to remove your projected
14	impacts of carbon costs. Is that how you read the
15	plain language?
16	A. Well, the Company in its current modeling
17	at the time of Schedule 37 had included a CO2
18	cost, which apparently is opposite of what the
19	Commission ordered in Docket 12-035-100 so that
20	they had to make adjustments to their modeling to
21	adjust for that requirement.
22	Q. You say it was contrary to it. Did the
23	Company adjust its Schedule 38 pricing immediately
24	following the entry of the 12-035-100 order, to
25	your understanding?

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1	
1	A. Some point they adjusted their Schedule
2	
	38 pricing. I'm not sure when that was
3	implemented.
4	Q. The Office has seen a number of QF
5	projects come before the Commission for approval
6	in the last year, correct?
7	A. Correct.
8	Q. And those were donesome of them before
9	and some of them after the 12-035-100 order came
10	out inI believe it was August, was it, or
11	September of 2013?
12	A. It was August.
13	Q. Some of those contracts were done after
14	that; is that not right?
15	A. Yes.
16	Q. And is it your understanding or do you
17	agree that the Company did not remove the CO2
18	taxes immediately after the 12-035-100 order,
19	that, in fact, those QF projects that have come
20	forward for approval included the CO2 assumptions
21	and it was only this year, a year later almost,
22	when they were redoing 37 prices and then they
23	began in 38 to remove them? Is that your
24	understanding?
25	A. Well, I understand from informal

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1	discussions with the Company that there was some
2	lag between this 03-100 order035-100 order and
3	when it implemented the order provisions. And I'm
4	not sure the timing as to which of the QF PPAs
5	incorporated the new requirements, but I
6	understand there was some lag. It did not occur
7	immediately.
8	Q. So if it was the plain language of the
9	Commission's order that gave the Company just
10	violated that order until it finally implemented
11	that this year. Is that kind of your view?
12	A. Well, violate isI'm not sure if I agree
13	with that word. But you have to give the Company
14	some leeway in implementing. I don't
15	Q. Even if it's the plain language? I guess
16	that's what I'm chafing at. You say plain
17	language and I have a really hard time with your
18	view. The plain language of that order said
19	remove these CO2s, make these CO2 adjustments when
20	the Company itself didn't make them for months and
21	you didn't propose that they make themthe
22	Office, right, until they came forward?
23	A. Right. Right. We were not aware of
24	those specific adders, the way they work in the QF
25	model.

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1	Q. Mr. Vastag, you're here representing an
2	entity that represents consumers, electric
3	consumers. It's a role I'm fairly comfortable
4	with myself. I would like to ask you a few
5	questions from the perspectiveyour perspective
6	of protecting customers. If QF pricing is set so
7	low, artificially low, below what the actual cost
8	of the Company is going to be in the next 20 years
9	to acquire resources, is the ratepayer indifferent
10	standard met or violated?
11	A. QF avoided cost isn't based on actual
12	market costs. They're based on a cost that the
13	Company will avoid. And when, as we discussed
14	earlier, you know, that will, for a particular QF,
15	their avoided costs will depend on where they are
16	in the queue. As these projects stack up, the
17	Company's avoided costs decline. So when you
18	talked earlier about is three or four cents actual
19	fair market value, it's not really about fair
20	market value. It's what the Company avoids in the
21	future.
22	Q. Exactly. And if, in fact, pricing today
23	is being set at three to four cents and therefore
24	projects that would otherwise be renewable
25	projects that mitigate price risk for 20 years

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1	because it's a set price, mitigate carbon risk
2	because there's no carbon implication, et cetera,
3	if those projects are not built because three to
4	four cents is lower than a reasonable projection
5	of what they will actually spend, are ratepayers
6	harmed?
7	A. No. Because there's already many
8	projects in the Company's queue in the IRP
9	resource plan that accounts for all those risks
10	and all those costs. And these additional
11	projects are not required to serve the customers.
12	Q. Let's talk about that. Have you looked
13	at the QF queue? Have you seen that in the
14	Schedule 38 filing? Have you watched that over
15	the years?
16	A. I've seen the transmission queue, which
17	is on the Company's transmission page.
18	Q. I'm not talking the transmission queue.
19	I'm talking the QF queue that the Company filed
20	with its quarterly Schedule 38 update.
21	A. Yeah, I've glanced at that. I recall
22	seeing that, yes.
23	Q. Can you name one QF project that's been
24	built in the state that is on that queue in the
25	last three years?

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1	A. I'm not sure. I don't know exactly
2	Q. So you're saying that customers are not
3	harmed because let's say there's a queue of 15
4	resources. Well, first of all, do you understand
5	that to get on the queue, all you need to do is
6	ask for indicative pricing?
7	A. I believe that's correct.
8	Q. So if 15 QFs come and say, give us
9	indicative pricing, and if the pricing goes from
10	four cents to five cents down to three cents by
11	the end of the queue, and if none of those
12	projects get built because they're priced too low,
13	and then if the actual costs end up higher than
14	what those projections were, are ratepayers not
15	worse off?
16	A. Well, we don't know how the future will
17	play out.
18	Q. I understand. Accept my assumption.
19	A. There is a version of the future where
20	that could happen, yes, and another version where
21	some of those QFs will be built andbut we have
22	tothe Company does have to follow a process and
23	this is an issue that we've discussed in some of
24	the PPA dockets where, you know, the number of
25	projects in the queue and potentially QFs that

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1	aren't far enough along in development even in the
2	queue, they are harming other QFs or more serious.
3	Q. I'm just asking does the Office care if
4	QF projects are not built? Is it the Office's
5	preference just to kind of go with whatever the
6	Company decides to build and acquire and take
7	those risks as opposed to setting prices today
8	that are known and that avoid carbon-type risks
9	and environmental risks if the pricing is set the
10	same so that the rate is indifferent? Would you
11	not choose the renewable projects that add those
12	other benefits?
13	A. Yeah. We care about those issues, yes.
14	Q. And has the Office looked to confirm to
15	itself that the avoided cost pricing coming out of
16	these models is a realistic projection of what the
17	Company would actually avoid or will actually
18	incur if we go through the 20 years without these
19	projects?
20	A. We're not in the position to dig that
21	deeply in the model.
22	MR. DODGE: Thank you. No further
23	questions.
24	THE HEARING OFFICER: Redirect,
25	Mr. Olsen?

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1	
1	MR. OLSEN: I have no redirect. Thank
2	you.
3	THE HEARING OFFICER: Questions from the
4	Commissioners? Okay. Mr. Vastag, you're excused.
5	Thank you very much.
6	We're contemplating a recess and
7	wondering how much is in front of us because we
8	don't want to unnecessarily detain you.
9	MS. HAYES: Utah Clean Energy will call
10	Sarah Wright, but I think my witness and I would
11	love a five-minute break.
12	THE HEARING OFFICER: We'll be in recess
13	till 25 minutes till the hour, so it will be ten
14	minutes.
15	(Recess taken.)
16	THE HEARING OFFICER: Ms. Hayes.
17	MS. HAYES: Thank you. Utah Clean Energy
18	would like to call Ms. Sarah Wright as our
19	witness.
20	THE HEARING OFFICER: Please raise your
21	right hand. Do you solemnly swear the testimony
22	you're about to give should be the truth, the
23	whole truth, and nothing but the truth?
24	THE WITNESS: I do.
25	SARAH WRIGHT,

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Hearing Proceedings

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1	having been first duly sworn, was
2	examined and testified as follows:
3	THE HEARING OFFICER: Thank you.
4	EXAMINATION
5	BY-MS.HAYES:
6	Q. Good morning, Ms. Wright. Would you
7	please state your name, position, and business
8	address for the record?
9	A. Yes. My name is Sarah Wright, S-A-R-A-H,
10	W-R-I-G-H-T. I'm the executive director of Utah
11	Clean Energy. And my business address is 1014
12	Second Avenue, Salt Lake City, Utah 84103.
13	Q. Thank you. In this docket did you file
14	direct testimony on August 12th and rebuttal
15	testimony on August 29th?
16	A. Idid.
17	Q. If I asked you the same questions today
18	as set forth in your direct and rebuttal
19	testimony, would your answers be the same?
20	A. They would.
21	MS. HAYES: I would like to move the
22	admission of Ms. Wright's direct and rebuttal
23	testimony in this docket.
24	THE HEARING OFFICER: Any objections?
25	They're received.

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4	
1	MS. HAYES: Thank you.
2	BY MS. HAYES:
3	Q. Ms. Wright, do you have a summary of your
4	testimony you've prepared?
5	A. Ido.
6	Q. Go ahead and present that. Thank you.
7	A. Thank you. Good morning, Commissioners.
8	Morning, everyone. Utah Clean Energyis that a
9	good loudness? Sorry, you never know. Excuse me.
10	Utah Clean Energy strives to create a
11	safer, more efficient, cleaner, and smarter energy
12	future. We strive for a smooth and cost efficient
13	transition to an energy portfolio that imposes
14	fewer risks to Utah families and businesses. The
15	Public Utilities Regulatory Act, PURPA, is an
16	important mechanism for facilitating renewable
17	energy development and creating growth in a
18	monopoly controlled market, while reducing risks
19	associated without a heavy reliance on finite
20	fossil fuels, finally including fossil fuels.
21	Fair pricing for QFs, both small and
22	large, is critical to protecting the long-term
23	interests of Utah and Utah ratepayers. Utah Clean
24	Energy's interest in this docket is safeguarding
25	Utah's proper implementation of PURPA laws and

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1	regulations.
2	Mr. Duvall claims that Utah Clean
3	Energy's oppositions to the Company's proposed
4	modifications to the avoided cost method is
5	intended solely to maintain artificially high
6	rates for small QF customers at the expense of the
7	Company's customers. Contrary to Mr. Duvall's
8	claims, it is Utah Clean Energy's goal to ensure
9	that avoided cost pricing fairly values renewable
10	energy electricity generation at least in
11	principle.
12	It is the position of Utah Clean Energy
13	that avoided costs should be a reflection of the
14	actual avoidable cost, including costs the Company
15	would otherwise incur in the absence of QF
16	generations based on its resource procurement
17	decisions. As discussed in my testimony in
18	multiple dockets, ratepayers will be on the hook
19	for costs associated with carbon regulations and
20	stranded assets. The Company does include carbon
21	costs in its IRP analysis and its fuel and energy
22	cost projections. Future carbon regulation is
23	even more certain now that the proposed EPA rules
24	for nonexisting power plants or with the proposed
25	EPA rules.

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1	Any adjustments removing the value of
2	estimated carbon regularity costs from Schedule 37
3	pricing will discount this important and growing
4	benefit renewable energy resources bring to the
5	system and reduce the probability of these risk
6	mitigating resources being built. It is my
7	opinion that this is not in the public and
8	ratepayers' interest.
9	Currently, the IRP presents the Company's
10	best public analysis of the cost and risk
11	associated with the environmental implications of
12	its resource decisions, including the costs and
13	risks associated with carbon regulation. However,
14	the Company has made specific adjustments to
15	extract carbon costs from its official forward
16	price curve and other grid files to remove this
17	value from the avoided cost pricing.
18	It is important to remember that
19	ratepayers, not the Company, will pay for the
20	costs that the Company specifically extracted from
21	avoided cost pricing to use one set of assumptions
22	to determine the Company's resource investment
23	strategies and a strip down set of assumptions to
24	calculate avoided cost pricing for PURPA does not
25	result in costs that are fair to ratepayers.

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1	If the Company will agree to cover all
2	the costs associated with future carbon rules and
3	hold ratepayers harmless, then it might be
4	appropriate to remove such costs from QF pricing.
5	But as it stands now, ratepayers will be on the
6	hook for these costs. And it is important to
7	value risk mitigation of QF renewables bring to
8	the system at least to the same extent that it is
9	valued in the Company's IRP.
10	The IRP standards and guidelines call for
11	avoided cost pricing to be consistent with the
12	IRP. Therefore, to the extent that costs
13	associated with environmental
14	regulationenvironmental regulation are
15	considered in the IRP. These costs should be
16	carried through to avoid cost pricing.
17	Schedule 37 and Schedule 38 are
18	different. And while the Company's proposed
19	changesthe Company's proposed changes do not
20	make them consistent. Schedule 37 was designed to
21	be a simpler method for small QFs that do not have
22	the negotiating power and resources of large QFs.
23	A good example of the differences in the
24	calculation of the energy payment. The value of
25	solar energy is undervalued in Schedule 37

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1	compared to Schedule 38.
2	In Schedule 37 method, the energy value
3	is calculated using a ten megawatt flat load
4	decrement missing the value a solar QF brings
5	during summertime heavy load hours. In contrast,
6	the Schedule 38 method uses actual supply curves
7	for the specific QF resource in the gridin the
8	grid modeling in order to calculate a more
9	accurate energy value that better reflects the
10	value that solar generation brings in heavy load
11	hours. This difference alone, for example, result
12	in a lower less accurate energy value for solar
13	resources under Schedule 37 relative to the more
14	resource specific Schedule 38 method.
15	The Company proposes changes in interest
16	of so-called consistency have reduced avoided cost
17	prices without consideration of the overall
18	method. Without consideration for the overall
19	method consideration such as accuracy and
20	fairness.
21	Soand also regarding the Company's
22	proposal to begin charging integration charges for
23	small QFs, there's not enough evidence on the
24	record to support smallcharging small QFs
25	integration charges at this time. For example,

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1 there is no evidence on the record that small QFs, 2 which interconnect to the distribution system 3 level, will pay any integration costs. 4 Further, virtually all small QFs 5 currently contracted for are solar QFs. An IRP 6 has not conducted an integration study for solar. Large QFs have the opportunity to negotiate a 7 8 credit for their benefits that they bring to the 9 transmission and distribution system an 10 opportunity to offset some of the integration 11 costs with additional system benefits. Whereas 12 small QFs have no such options. Until there is 13 more evidence and parties have the opportunity to 14 examine the trade off in costs and benefits of 15 small QFs, it is premature to charge small QFs 16 with an integration charge. 17 And regarding the capacity payment and 18 capacity value, there continues to be confusion 19 around renewable energy resources capacity factors 20 and their capacity value. The capacity factor is 21 used to estimate in light of energy produced by a 22 resource while the capacity value or credit is a 23 reliability based calculation that assigns a value 24 to a resource based on its ability to reduce the 25 probability of a loss of load event and to

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maintain system reliability. For example, a solar
 resources effective capacity value is significant
 because it provides most of its generation during
 heavy load hours. Solar capacity value is higher
 than its capacity factor.

6 In contrast, wind generally has a higher 7 capacity factor than solar, yet a lower capacity 8 value. Utah Clean Energy recognizes that there 9 may need to be an adjustment to the capacity 10 payment calculation, but rather than eliminate the 11 capacity and energy payment as the Company 12 proposes and rather than calculating the payment 13 based on QF and maximum output during the peak out 14 period as is the current method, which may 15 overestimate a QF's capacity value.

16 The Commission should continue to 17 authorize the capacity payment option, but modify 18 the capacity payment to reflect the QF's value in 19 reliably meeting load. In other words, the 20 capacity payment offered to renewable QFs should 21 be adjusted consistent with a capacity value of a 22 renewable resource, but should not be eliminated 23 as payment options. It is especially important 24 not to eliminate the capacity payment when solar 25 projects are being undercompensated for their

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1	energy value.
2	Regarding consistency, if consistency
3	between Schedule 37 and Schedule 38 is the primary
4	objective in setting Schedule 37 avoided cost
5	rates, then we must do a much more thorough review
6	and comparison of Schedule 37 and 38 methods that
7	have been presented in this docket to ensure that
8	we are not further sacrificing accuracy in
9	Schedule 37 prices. Being selectively consistent
10	defeats the objective of consistency. Moreover,
11	consistency between the methods has never been the
12	priority in setting the Schedule 37 avoided cost
13	rates.
14	Schedule 37 and 38 has never been set in
15	the same manner. In fact, Schedule 37 and 38 were
16	always intended to recognize that there are
17	differences between small and large QFs and small
18	and large QF developers.
19	In this docket, parties have supported
20	changes that lower the prices to the point that
21	Schedule 37 prices appear to be lower than
22	Schedule 38 prices. This is not fair and this
23	does not meet the intent of PURPA. That concludes
24	my summary. Thank you.
25	THE HEARING OFFICER: Ms. Hayes.

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1	Me HAVES: Thenk you Me Wright is
1	MS. HAYES: Thank you. Ms. Wright is
2	available for cross-examination.
3	THE HEARING OFFICER: Thank you.
4	MR. SOLANDER: No questions. Thank you.
5	EXAMINATION
6	BY-MR.JETTER:
7	Q. Good morning, Ms. Wright.
8	A. Good morning.
9	Q. I just have a few questions. I would
10	like to start with a few questions about the
11	integration cost of Schedule 37 customers. Is it
12	a fair statement that the integration costs are
13	intended as a measure of the cost to a power
14	system better incurs as it responds to the
15	variability any uncertainty of intermittent
16	generation resources like solar, wind, the types
17	of resources we generally see in Schedule 37
18	customers?
19	A. I'm not an expert on how these studies
20	are completed and everything that goes into them.
21	I'm sure that is part of it. It probably has to
22	do with where it is on the transmission system.
23	We have to reliably meet load at all times and
24	load is variable, as well.
25	Q. Okay. Is there a difference between 2.9

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4	menewett windmill and a 2.4 menewett windmill in
1	megawatt windmill and a 3.1 megawatt windmill in
2	the variability if the two are at the same site?
3	A. Well, I would sayif they're at the same
4	site?
5	Q. Yes.
6	A. No.
7	Q. And so would a customer be indifferent if
8	there were two different pricing calculations for
9	one being at 2.9 and one being at 3.1?
10	A. Well, I guess I should revise the last
11	question. There may be a difference based on
12	where it is on the distribution system. And most
13	of the small QFs are solar connecting to the
14	distribution system.
15	Q. Okay. Let's use an example. Let's say
16	in my hypothetical we have an industrial park that
17	haslet's say we have 80 owners in this
18	industrial park and each owner has its individual
19	one megawatt solar project on their roof. Is the
20	collective 80 megawatt solar there going to be
21	different in its variability or its cost to the
22	power system as opposed to a neighbor that's
23	across the street, let's say, with an 80 megawatt
24	Schedule 38 solar array?
25	A. Well, it probably wouldn't be across the
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1	street, but, yes, the Company has done studies on
2	adding megawatts of solar on the distribution
3	system in Toquerville and Delta area. And they
4	found out that by adding it to the distribution
5	system, it actually reduced the peak demand on
6	that distribution system. So it did bring
7	benefits to that system. So, yes, when it goes
8	onto the distribution system, there may be
9	benefits that are not being calculated and added
10	into theor considered when adjusting thewhen
11	looking at the integration costs.
12	Q. Okay. And with respect to the other
13	integration costs like responding to the
14	variability and the output, would those be the
15	same for both?
16	A. You know what? Unfortunately, I'm not an
17	expert on integration studies. And my point in
18	this case is that there hasn't been a study that
19	looked at that, the impacts of integrating on the
20	distribution system. I'm not an expert so I can't
21	answer those questions.
22	Q. Okay. Let me move on just to a couple
23	brief questions. You testified both in your
24	prefiled testimony and your comments that you
25	believe that the Commission should retain both the

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1	energy only and the capacity and energy separate
2	options for the QFs under Schedule 37; is that
3	correct?
4	A. Yes.
5	Q. And those would result in different
6	prices to the QF; is that correct?
7	A. Unless they are changed to make them more
8	consistent, yes.
9	Q. Okay. And is it accurate that a
10	customer's only indifferent to one price?
11	A. I'm sure there's a range of variability
12	on that, but if you want just one exact price,
13	thenI don't know. It depends on if the price is
14	accurate.
15	Q. Okay. But there would only be one actual
16	pricewhether we hit it precisely with a Schedule
17	37 method, there would, in reality, only be one
18	actual, perfect avoided cost price?
19	A. I've never seen a perfect avoided cost
20	price, but in theory, that's correct.
21	Q. And so if there's two different methods
22	that result in different pricing, one of those
23	would not be an accurate reflection of the avoided
24	cost?
25	A. I'll accept that.

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1	Q. Okay. And just, finally, with respect to
2	the capacity payments during the sufficiency
2	
	period, are you aware of any simple cycle
4	combinedor, excuse mesimple cycle combustion
5	turbine that will, in fact, be avoided? Is there
6	anything in the IRP plan to built a facility that
7	would be avoided?
8	A. My point around the having a capacity
9	payment is that the capacity payment isn't that
10	theythe way that the solar is modeled, it is not
11	receiving fair value for the energy it provides
12	during those peak market purchases. So I don't
13	know of a simple cycle, but until we look at the
14	whole model collectively, the wholelooking at
15	how we calculate 37, to take away the capacity
16	payment without looking at how the energy is
17	calculated will be undercompensating the solar
18	resources.
19	Q. Okay. But if we can compensate, then,
20	for a project that's not a proposed project that
21	doesn't exist that likely will never exist, that
22	would be a pretty inaccurate way to calculate
23	that; isn't that correct?
24	A. I'm basing my position on the
25	Commission's previous rulings and how we've always

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1	calculated the value for Schedule 37.
2	Q. Okay. So just because we've done it in
3	the past, that we should keep doing it?
4	A. Or figure out a model that is more
5	accurate.
6	MR. JETTER: Okay. Those are all the
7	questions I have. Thank you.
8	MS. WRIGHT: Thank you.
9	THE HEARING OFFICER: Mr. Olsen?
10	MR. OLSEN: Yeah, I have a few, if I may,
11	Your Honor. And I'm not quite sure how the
12	Commission does this. I've got a couple of
13	exhibits that I would like to take from various
14	IRPs. Perhaps Ms. Wright could confirm that
15	they're accurate representations of the IRPs and I
16	could submit them at that time and that would be a
17	fair process?
18	THE HEARING OFFICER: That's typical of
19	what we would do. Do you have copies for counsel
20	and the reporter?
21	MR. OLSEN: I do, Your Honor. And I also
22	have copies of the IRPs, so if I may approach.
23	THE HEARING OFFICER: Absolutely.
24	So we'll mark this as OCS Cross Exhibit
25	No. 1 for identification.

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1	MR. OLSEN: Thank you, Your Honor.
2	Just so that we may make sure that this
2	
	is an accurate representation, I would like to
4	give the IRP to the witness so she can look at it.
5	MS. WRIGHT: I would
6	MR. OLSEN: If you're willing to accept
7	that, then I'm happy with that. Thank you.
8	Your Honor, just as a matter, I've got
9	three of them. Should I do them all
10	simultaneously?
11	THE HEARING OFFICER: Might be efficient
12	if you did them all.
13	MR. OLSEN: Then I will do that.
14	THE HEARING OFFICER: If that's
15	convenient for you.
16	So Cross Exhibit 1 for identification is
17	a page fromostensibly from PacifiCorp's 2011
18	IRP.
19	MS. WRIGHT: If you want me to verify
20	that, I will.
21	MS. HAYES: Can I get a copy of the ones
22	you're
23	MR. OLSEN: Oh, I apologize.
24	Would you like to see that to confirm
25	that.

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1	
1	MS. WRIGHT: I mean, if it's better for
2	the record to have me confirm it, I'm happy to.
3	THE HEARING OFFICER: If you're able to
4	accept these at least subject to check, that's, I
5	think, an efficient way to proceed.
6	MR. OLSEN: I appreciate that.
7	THE HEARING OFFICER: The second exhibit
, 8	
	for identification is page 174 from the 2013 IRP. MR. OLSEN: And with the Commission's
9	
10	permission, I'll do No. 3, which is the equivalent
11	of the draft from the 2015 IRP.
12	THE HEARING OFFICER: And so this will be
13	Cross Exhibit No. 3 for identification.
14	MR. OLSEN: I have one final exhibit,
15	Your Honor. Your Honor, this isexcuse
16	meCommissioner, this is a pagefor the record,
17	it's page 224 and 225 of the PacifiCorp IRP of
18	2013.
19	THE HEARING OFFICER: This will be marked
20	OCS Cross Exhibit 4 for identification.
21	EXAMINATION
22	BY-MR.OLSEN:
23	Q. Ms. Wright, your rebuttal testimony at
24	lines 152 and 153
25	A. Could you excuse me, I'll get them?

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1	Q. Yeah, thank you.
2	A. I'm there.
3	Q. Thank you. You said avoided cost pricing
4	should include carbon costs consistent with the
5	Company's base case IRP assumption. Is that
6	correct?
7	A. Yes.
8	Q. If I could ask you to look at the 2011
9	handout, which I guess was No. 1, it references
10	Table 7.5. Do you have that in front of you?
11	A. Seven pointsorry, I have 7.6.
12	MS. HAYES: 7.5 is on the back.
13	BY MR. OLSEN:
14	Q. Sorry, it's a two-sided copy. Thank you.
15	l apologize.
16	A. You need really good eyes.
17	Q. Indeed. In looking at this IRP modeling,
18	can you tell me for the record how many cases the
19	IRP modeled?
20	A. Well, I believe they did more than 16
21	here. So if you look ataccording to this table,
22	I don't remember if they did any more than this.
23	Are you saying that theywell, they did more than
24	33 because they did some subsets like 38. So I'm
25	not going to count them, but it looks like 34 or

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1	35 maybe.
2	Q. And if you look at the page 165 portion
2	of that exhibit and those are labelled core cases,
3 4	
4 5	how many core cases could they A. It looks like 19or 20. maybe.
	······································
6	Q. 20, correct. That's exactly. Of all of
7	those cases that we've referred to, which of those
8	are labelled base case?
9	A. I would have to go back to the IRP and
10	they refer to scenarios as their base case
11	scenarios in the IRP and the meetings. And so I
12	would have to go back and find out which one
13	corresponds because often in the IRP, the language
14	they use at some of their tables doesn't match the
15	language everywhere, but that's a good point.
16	That would need to be clarified.
17	Q. If I could ask you to look at, I guess,
18	No. 2, which is from the 2013 IRP
19	A. Yes.
20	QTable 7.6.
21	A. I'm there.
22	Q. How many cases did the Company model for
23	2013?
24	A. They did quite a few because they modeled
25	multiple transmission scenarios on top of their

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1	core cases. Each core case four or five
2	transmission scenarios, as well.
3	Q. And in those, are any of those labelled
4	base case?
5	A. In this scenarioagain, this is a matter
6	of semantics. They call their cases the run base
7	cases, but it's usuallyin this case I think the
8	base case was medium. They went from zero to the
9	medium scenario. So I accept that the language
10	would need to be clarified. And I also accept
11	that it will change as IRPs go forward.
12	Q. And that, in fact, one portion of that
13	has a zero expectation CO2 pricing?
14	A. No. It doesn't have a zero expectation
15	of pricing. A number of years ago the Utah
16	regulators asked for them to run a zero case to
17	see what that would look like. I don't believe
18	people really believed there will be zero carbon
19	costs in the future and if we do, we move in
20	peril.
21	Q. That's just your position, I expect.
22	Looking at the cross-examination Exhibit 4
23	A. Is that the large one?
24	Q. No, thatoh, excuse me, 3, which is
25	theno, it is 4. Excuse me, 4, which is the

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4	
1	two-page exhibit. It saysand on pagewhat is
2	labelled page 224 with a chart on the bottom of
3	it, do you see that?
4	A. Yes.
5	Q. Will you look at the first paragraph,
6	could you please read theread that full
7	sentence?
8	A. "Portfolio C07 under Energy Gateway
9	Scenario 2 ranks highest among the remaining
10	portfolios on a risk-adjusted PVRR basis, and was
11	selected as the preliminary preferred portfolio
12	for the 2013 IRP."
13	Q. So the preferred portfolio in 2013 was
14	the C07; is that correct?
15	A. Yes.
16	Q. And if you'll lookjust to affirm that,
17	if you'll look on the next page, please, on page
18	225, and there's also a slight adjustment that
19	I've marked with yellow. Could you read that for
20	the record, please?
21	A. The Company has selected portfolio
22	EG2-C07 as the 2013 IRP preferred portfolio.
23	Q. Thank you. And then referring back to
24	Exhibit No. 2, looking at C07, the C02 price is
25	listed as zero, is it not?

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1	A. It is. I don't know whether they had a
2	high gas price in that scenario and they had a low
3	coal price in that scenario. So one factor does
4	not determine the portfolio outcome and I don't
5	know what was in C07 regarding RPSs. So it's very
6	dangerous. If we wanted the Company to plan for
7	single risk issues and to modeling for single risk
8	issues, we would ask them to do that. But what
9	they're running is scenarios and a mixture of
10	different assumptions.
11	Q. And all of those are represented in the
12	IRPs, are they not?
13	A. Yes. A variety of different scenarios
14	are run for, first, the system optimizer model.
15	And that's a model that just selects a variety of
16	portfolios that then undergo risk analysis after
17	that.
18	Q. And it yields a variety of cases, so if
19	your statement is that the Commission should rely
20	on the IRP and cases presented in the IRP, the
21	fact is, isn't it true, then, that the
22	recommendationthe IRP base case assumption is
23	going to give little meaningful guidance because
24	there are almost innumerable cases in the IRP that
25	you provide?

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1	A. And that same thing holds true for
2	natural gas prices. They have a variety of
3	different scenarios for natural gas prices. And
4	they generallythey choose the base case scenario
5	as their official forward price curve to do the
6	prices. There are variabilitiesI'm sorry, my
7	glasses are off to read. I have to put them back
8	on to see you. But there are a variety of
9	assumptions that are used in the IRP, different
10	solar price curve, different energy price curve, I
11	mean, fuel price curve, and they're allif you
12	want to say unknown, we don't know exactly what it
13	will be. And they chose a high gas price curve so
14	then to follow your logic to its full extent, we
15	should be running a high gas price curve in the
16	avoided cost pricing.
17	Q. I think my point was simpler than that
18	simply to say that you use the IRP is not going to
19	givethat there are effectively 30 or so
20	scenarios that are run in the IRP, the various
21	IRPs. And the IRP itself will provide little
22	guidance.
23	A. But if we go back to the IRP standard and
24	guidelines, it says that avoided cost pricing
25	should be consistent with the IRP.

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1	Q. And you said the base case?
2	A. That's the lowest, really, price other
3	than zero that they gave. I'm giving the price
4	that the Companyyou know, I'm not saying it
5	should be the high price. Personally, I may
6	believe that's a more likely outcome when you look
7	at the science of climate change and when finally
8	it will take action. But I set the lower price.
9	I suggested that price because that's the price
10	that the Company tends to weigh more heavily on.
11	MR. OLSEN: I have no further questions,
12	Your Honoror Commissioner, excuse me. Course of
13	habit, I apologize.
14	THE HEARING OFFICER: Thank you.
15	Mr. Dodge?
16	MR. DODGE: Thank you. Ms. Wright, I do
17	have a few questions.
18	EXAMINATION
19	BY-MR. DODGE:
20	Q. I think the record is very confused right
21	now and I would like to see if we could maybe get
22	back to what you actually said. I would like to
23	refer you back to lines 152 and 153 of your
24	rebuttal and ask you whether your summary said
25	that avoided cost pricing should include carbon

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1	costs consistent with the Company's base case IRP
2	assumptions or did you say the base case portfolio
3	or did you say the base case runs?
4	A. Base case assumptions.
5	Q. So let's talk about that. All these
6	exhibits are talking about portfolios and both
7	core cases and other cases run, sensitivity cases
8	run. You just talked about base case assumptions,
9	right?
10	A. That is correct.
11	Q. Do you have an understanding when the IRP
12	runs gas prices, for example, now that's an
13	assumption that goes into the IRP like you
14	reference an assumption. An assumption is gas
15	prices. What levels of gas priceswhat do they
16	label their three gas price assumptions; do you
17	know?
18	A. I believe it's low, base, and high.
19	Q. So when you say a base case assumption,
20	if we were talking about gas, would you mean the
21	middle one, the base case gas assumption versus
22	the high or low assumption?
23	A. That's correct.
24	Q. Now, let's now go to CO2. When they made
25	assumptions that they used in their various core

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1	and sensitivity runs and in selecting portfolios,
2	do you know what three assumptions they used for
3	CO2 prices and what they labelled them?
4	A. I think they labelled them underthey
5	called it base case scenarios so there's probably
6	a little confusion and I would have to go back and
7	read, but they have a zero, a mediumI don't know
8	if it's high. They also have a hard cap case.
9	They have two hard cap cases. The medium is
10	actually the lowest case that they have.
11	Q. And when we go back, for example, to
12	Cross Exhibit No. 2, that has CO2 prices, they
13	have medium, high, and zero, right? And is it a
14	fair statement that zero is the low, medium is the
15	base, and high is the high? Is that what you
16	meant when you said the base case assumption?
17	A. Yes, it is.
18	Q. So the medium in the 2011was that the
19	2011? 2013. The medium in the 2013 is what you
20	meant when you said base case assumption as the
21	CO2 prices?
22	A. Yes.
23	Q. And is it also your understanding that
24	when the Company ran avoided cost pricing at least
25	prior to the spring of 2014, that it used its

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1	forward price curve that included the base case
2	CO2 assumption?
3	A. Yes.
4	Q. And when you asked for consistency, is
5	that the consistency you're asking for that they
6	continue to use their own best projection of
7	future prices including CO2 costs?
, 8	A. Yes, it is.
9	MR. DODGE: Thank you. No further
9 10	
11	questions.
12	THE HEARING OFFICER: Ms. Hayes.
12	MS. HAYES: I'll just ask one follow-up
	question.
14	EXAMINATION
15	BY-MS.HAYES:
16	Q. So Mr. Olsen was asking you about these
17	exhibits. Is theand these are core case
18	assumptions. Is case modeling the only portion of
19	the IRP that looks at carbon costs?
20	A. No, it's not.
21	Q. So carbon costs factor into other
22	assumptions used in the IRP?
23	A. Yes, it does.
24	Q. Does the carbon cost assumption factor
25	into the Company's official forward price curve?

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1	A. Yes, it does.
2	MS. HAYES: No further questions.
3	THE HEARING OFFICER: Questions from the
4	Commission? Commissioner LeVar.
5	COMMISSIONER LeVAR: Thank you.
6	EXAMINATION
7	BY-COMMISSIONER LeVAR:
8	Q. Can I pose a hypothetical? And if it
9	gets too strained, please tell me. So consider a
10	two megawatt QF solar that leads directly into the
11	distribution system. And if that QF reduced the
12	distribution system heat load to create an event
13	that you spoke about earlier in your testimony, if
14	that QF were allowed to negotiate a contract under
15	Schedule 38 rather than take a price on 37, could
16	that peak load reduction be negotiated under the
17	current structure 38?
18	A. Yes, it could. But that doesn't get
19	around the fact that small QFs don't have the
20	negotiating power that large QFs do.
21	COMMISSIONER LeVAR: Okay, thank you.
22	That's all I have.
23	THE HEARING OFFICER: Anything further?
24	Thank you, Ms. Wright, you're excused.
25	THE WITNESS: Thank you. Mr. Dodge,

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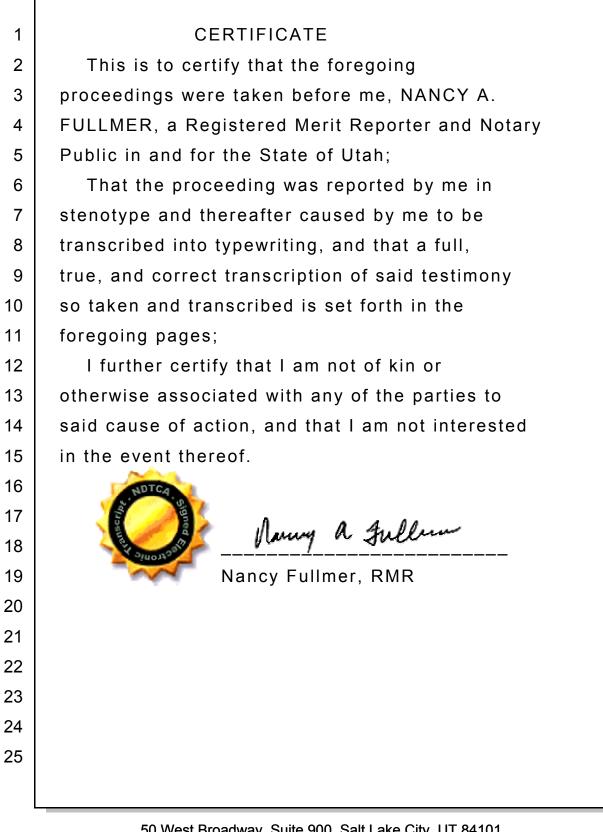
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1	you've asked us to receive your witness's
2	testimony as an unsworn public witness comment?
3	MR. DODGE: Yes. And I don't know that
4	it requires a motion. It would be as though we
5	sent a letter. It's in the record. We understand
6	the implications of your inability to rely upon it
7	for a factual finding, but it's in that context we
8	would request that the Commission consider that
9	testimony.
10	THE HEARING OFFICER: I just wanted to be
11	clear that that request would be honored and
12	granted.
13	MR. DODGE: Thank you.
14	THE HEARING OFFICER: Is there anything
15	else to come before the Commission today? We're
16	adjourned. Thank you all very much. We're off
17	the record.
18	(Hearing concluded at 11:17 a.m.)
19	
20	
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