WUTC v. Puget Sound Energy

February 6, 2020



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10	EVIDENTIARY HEARING, VOLUME IV	10	(503) 241-7242 blc@dvclaw.com tcp@dvclaw.com
11 12	Pages 172 - 453	11	
13	ADMINISTRATIVE LAW JUDGE RAYNE PEARSON	12	
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1	LACEY, WASHINGTON; FEBRUARY 6, 2020	1	MS. LIOTTA: Yes, Your Honor. Rita Liotta
2	1:07 P.M.	2	with the Federal Executive Agencies.
3	000	3	THE COURT: Mr. Boehm.
4	PROCEEDINGS	4	MR. BOEHM: Curt Boehm, appearing on behalf
5		5	of The Kroger Company, doing business as Fred Meyer
6	JUDGE PEARSON: So let's be on the record.	6	stores.
7	If you're ready.	7	THE COURT: Great. Thank you.
8	Good afternoon. Today is Thursday,	8	So now that we're on the record I will ask
9	February 6, 2020. The time is approximately 1:07 p.m.	9	again if the parties stipulate to the admission of all
LO	My name is Rayne Pearson, I'm the	10	of the pre-filed exhibits and testimony?
11	Administrative Law Judge with the Washington Utilities	11	MS. CAMERON-RULKOWSKI: Commission staff so
.2	and Transportation Commission, and I will be presiding	12	stipulates.
13	in this matter along with the Commissioners who will	13	MS. GAFKEN: Public Counsel stipulates.
14	join us in a few moments.	14	MR. FFITCH: The Engery Project stipulates.
.5	We're here today for an evidentiary hearing	15	MR. COLEMAN: AWEC stipulates.
L 6	in consolidated dockets: UE-1190529; UG-1909530;	16	MS. BARLOW: NWEC stipulates.
L 0	UE-190274; UG-190275; UE-190991; UG-190992; UE-171225;	17	MS. CARSON: PSE stipulates.
	and UG-171226, which are PSE's Electric and Natural Gas		THE COURT: And, Ms. Liotta, you do as well;
18	general rate case and also its accounting petitions	18	correct?
19		19	
20	related to Get To Zero, the Green Direct Program, and the Tax Cuts and Jobs Act.	20	MS. LIOTTA: Yes, FEA so stipulates.
21		21	THE COURT: And Mr. Boehm.
22	So let's take short appearances starting	22	MR. BOEHM: Kroger so stipulates.
23	with PSE, and then we'll go around the room.	23	THE COURT: So I will provide a copy of the
24	MS. CARSON: Good afternoon, Your Honor.	24	exhibit list with the court reporter so it will be made
25	Sheree Strom Carson with Perkins Coie representing PSE.	25	part of the record.
	Page 233		Page 235
1	And also here with me today from Perkins Coie	1	
1	representing PSE are Jason Kuzma, Donna Barnett, and	1	And just to let everyone know, I have made
2	David Steele.	2	all of the corrections identified by the parties. And I
3		3	will circulate the final exhibit list to the parties
4	MS. BARLOW: This is Marie Barlow		
5		4	after the hearing is over.
	representing the Northwest Energy Coalition.	5	MS. CAMERON-RULKOWSKI: Your Honor?
6	MR. PEPPLE: Tyler Pepple, with Davison	5 6	MS. CAMERON-RULKOWSKI: Your Honor? THE COURT: Yes.
6 7	MR. PEPPLE: Tyler Pepple, with Davison Van Cleve representing the Alliance of Western Energy	5	MS. CAMERON-RULKOWSKI: Your Honor? THE COURT: Yes. MS. CAMERON-RULKOWSKI: May I have your
-	MR. PEPPLE: Tyler Pepple, with Davison Van Cleve representing the Alliance of Western Energy Consumers.	5 6	MS. CAMERON-RULKOWSKI: Your Honor? THE COURT: Yes. MS. CAMERON-RULKOWSKI: May I have your attention?
7	MR. PEPPLE: Tyler Pepple, with Davison Van Cleve representing the Alliance of Western Energy Consumers. MR. COLEMAN: Brent Coleman also with	5 6 7	MS. CAMERON-RULKOWSKI: Your Honor? THE COURT: Yes. MS. CAMERON-RULKOWSKI: May I have your attention? I know that Nucor Steel has been excused
7 8 9	MR. PEPPLE: Tyler Pepple, with Davison Van Cleve representing the Alliance of Western Energy Consumers.	5 6 7 8	MS. CAMERON-RULKOWSKI: Your Honor? THE COURT: Yes. MS. CAMERON-RULKOWSKI: May I have your attention?
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1	parties.		Dan Doyle by Commissioner Balasbas	
2	MS. CARSON: Your Honor, would you like us	1	JUDGE PEARSON: And Ms. Liotta?	
3	to have the attrition panel come on up now?	2	MS. LIOTTA: Good afternoon. Rita Liotta	
4	JUDGE PEARSON: I was just going to say	3	representing the Federal Executive Agencies.	
5	that.	4	THE COURT: Okay. Thank you.	
6	If the attrition panel could make their way	5	So the attrition panel is assembled at the	
7	to the witness panel while we take a recess, I will go	6	witness table. If you could all please stand and raise	
8	and get the Commissioners; and then I will swear you all	7	your right hand. I'll swear you in simultaneously.	
9	in as soon as we reconvene.	8	(Panel Sworn)	
10	So with that, we will take a short recess	9	THE COURT: Okay. Please be seated.	
11	and I will go and get the Commissioners.	10	Ms. Carson, if you please introduce your	
12	(A recess was taken from 1:14 p.m. to 1:20 p.m.)	11	witnesses.	
13	JUDGE PEARSON: Okay. We'll be back on the	12	MS. CARSON: Certainly.	
14	record following a short recess. I am joined by Chair	13	We will start at the top there with	
15	Danner, Commissioner Rendahl, and Commissioner Balasbas.	14	Mr. Piliaris, Jon Piliaris; Dan Doyle; David Mills; Josh	
16	The parties have stipulated to the admission	15	Kensok; Ron Amen; Carl Rábago; Susan Free; Cathy	Koch;
17	of all the pre-filed exhibits including the	16	and Matt Marcelia.	
18	cross-examination exhibits.	17	THE COURT: Thank you. And I understand	
19	So let's just briefly go around the room and	18	that AWEC has waived its cross-examination of this	
20	take short appearances again beginning with the Company.	19	panel. So we will go straight to the questions from the	9
21	MS. CARSON: Good afternoon, Commissioners.	20	Commissioners.	
22	Sherry Strom Carson with Perkins Coie representing Puget	21	COMMISSIONER BALASBAS: All right. Goo	d
23	Sound Energy. And also here with me today representing	22	afternoon, everyone.	
24	Puget Sound Energy are Jason Kuzma, Donna Barnett, and	23	So I will direct this question to whoever	
25	David Steele.	24	would like to take a stab at the answer.	
		25	So throughout this throughout the	
	Page 237		Pa	age 239
1	MS. BARLOW: Good afternoon. Marie Barlow,		Dan Doyle by Commissioner Balasbas	_
2	with Sanger Law representing Northwest Energy Coalition.	1	testimony from the company on the need for an attr	rition
3	MR. PEPPLER: Tyler Pepple with Davison	2	adjustment, there was a lot of discussion and	
4	Van Cleve representing the Alliance of Western Energy	3	preponderance of costs being beyond the company	/'s
5	Consumers.	4	control as well as costs that maybe the company	
6	MR. COLEMAN: Brent Coleman also with	5	potentially may not be able to control.	
7	Davison Van Cleve on behalf of the Alliance of Western	6	What I did not see in the testimony, though,	
8	Energy Consumers.	7	is any or very little, if any, mention about cost	
9	MR. BOEHM: Good afternoon. Kurt Boehm	8	controls.	
10	appearing on behalf of The Kroger Company and Fred Meyer	9	So if the company or if the Commission	
11	Stores.	10	were to grant an attrition adjustment in this case, w	hat
12	MR. FFITCH: Good afternoon. Simon ffitch	11	assurance can you give to the commission that the	
13	on behalf of The Engery Project.	12	company will do everything it can to control costs g	oing
14	MS. PAISNER: Ann Paisner on behalf of the	13	forward?	~
15	Washington State Attorney General, Public Counsel Unit.	14	MR. DOYLE: I guess I'll take that one,	
16	MS. GAFKEN: Good afternoon. Lisa Gafken,	15	Commissioner Balasbas.	
17	Assistant Attorney General, appearing on behalf of	16	Dan Doyle, Chief Financial Officer.	
18	Public Counsel.	17	I think that there was some testimony in	
10 19	MR. ROBERSON: Jeff Roberson, AAG, for	18	in my pre-file direct which talked about the savings	
20	Staff.	19	that we harvested during the rate plan period 2013	
20	MS. CAMERON-RULKOWSKI: Good afternoon.	20	through 2017, if I'm getting my dates right, and the	
21	Jennifer Cameron-Rulkowski, Assistant Attorney General,	20	programs that continued thereafter.	
22 23	court commission staff. And with me on this case are	21	In particular, what I would site in terms of	
		22	cost control and capital broader capital	
24	Nash Callahan, Harry Fukano, Joe Dallas, and Daniel Teimouri			
24 25	Teimouri.	24 24 25	allocation-type protocols, we continue to limit our growth in OPEX, O&M expenditures, to the rate of	

	cket nos. DE-190529 and DG-190530 (Consolida	,) - VOI. IV 2/0/202
	Page 240		Page 242
	Dan Doyle by Commissioner Balasbas		Dan Doyle by Chairman Danner
1	customer growth which is depending upon whether	1	that's on the O&M side, not on the CAP side?
2	you're talking electric or gas, it's one to one and a	2	MR. DOYLE: It can bleed over to the capital
3	half percent per year, which trend is about a hundred	3	side, Commissioner, as well. And if you look at a
4	basis points under where we're seeing inflation.	4	particular program, one that comes to mind, we were
5	That's been very, very effective for us in	5	looking at and I'm not really sure if this even goes
б	terms of making sure that our OPEX dollars are going to	6	to the capital side, but it was looking at mobile
7	the highest priority expenditure categories benefitting	7	devices. And we had a lot of duplication that we just
8	customers and and basically maintaining our plant	8	changed policy, paired back on it.
9	equipment across the board.	9	But to the extent dollars would get
10	When you get to CAPEX and I also should	10	allocated into a clearing account from those
11	mention that we also we have a program called "Be	11	expenditures, it could end up in the capital account.
12	Excellent Program." Not my favorite title, but it is	12	CHAIRMAN DANNER: Okay. So when you
13	what it is.	13	mentioned all of these things: What is the corporate
14	It's a program that really goes in and looks	14	capacity? What is the inside rate and all those things?
15	at a lot of different areas in the company that are not	15	For everything that you've asked on the
16	significant in any one way, shape, or form. It could be	16	capital side in this general rate case, are you saying
17	a hundred thousand dollars here or a million dollars	17	that they have all gone through that kind of scrutiny so
18	there, half a million dollars.	18	anything that you're asking for in terms of recovery of
19	But what it does culturally, is it basically	19	a capital expenditure has gone through that kind of
20	sets the tone in the organization that no dollar is too	20	es quizo [verbatim].
21	small to chase. So that would be the other side of	21	MR. DOYLE: Yes. So basically what we will
22	of the OPEX.	22	do is we will run a five-year plan. We look at capital
23	When you get to the CAPEX side of the	23	across that five-year plan. And I would say the highest
24	equation, I lay out six or seven categories of spend	24	amount of rigor that I talked about would be applied
25		25	probably early in the earlier years of that plan,
	Page 241	20	Page 243
	Dan Doyle by Commissioner Balasbas		Dan Doyle by Chairman Danner
1	for capital can be one and a half to two times of what	1	
Ŧ	for capital car be one and a nam to two times of what		
2	we can ultimately spend in terms of prudent financial	1	
2	we can ultimately spend in terms of prudent financial	2	It's very difficult very difficult to apply that
3	parameters and metrics in operating the business	2 3	It's very difficult very difficult to apply that rigor and say year five.
3 4	parameters and metrics in operating the business prudently.	2 3 4	It's very difficult very difficult to apply that rigor and say year five. So give you an example. We don't budget
3 4 5	parameters and metrics in operating the business prudently. So in in any given in any given year,	2 3 4 5	It's very difficult very difficult to apply that rigor and say year five. So give you an example. We don't budget capital for storms. To the extent in year three, we
3 4 5 6	parameters and metrics in operating the business prudently. So in in any given in any given year, you know, there's a lot of projects that will get pushed	2 3 4 5 6	It's very difficult very difficult to apply that rigor and say year five. So give you an example. We don't budget capital for storms. To the extent in year three, we were to get a Hanukkah-Eve-type storm, a
3 4 5 6 7	parameters and metrics in operating the business prudently. So in in any given in any given year, you know, there's a lot of projects that will get pushed out as we look at things on a strategic level. Number	2 3 4 5 6 7	It's very difficult very difficult to apply that rigor and say year five. So give you an example. We don't budget capital for storms. To the extent in year three, we were to get a Hanukkah-Eve-type storm, a snowmaggenden-type storm. I think those are our
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3 5 7 8 9	parameters and metrics in operating the business prudently. So in in any given in any given year, you know, there's a lot of projects that will get pushed out as we look at things on a strategic level. Number one, corporate capacity. Do we have the capacity to do all the things	2 3 4 5 6 7 8 9	It's very difficult very difficult to apply that rigor and say year five. So give you an example. We don't budget capital for storms. To the extent in year three, we were to get a Hanukkah-Eve-type storm, a snowmaggenden-type storm. I think those are our acronyms for our 2012 storm. And the Hanukkah Eve would be you know,
3 4 5 6 7 8 9	parameters and metrics in operating the business prudently. So in in any given in any given year, you know, there's a lot of projects that will get pushed out as we look at things on a strategic level. Number one, corporate capacity. Do we have the capacity to do all the things we want to do strategically?	2 3 4 5 6 7 8 9 10	It's very difficult very difficult to apply that rigor and say year five. So give you an example. We don't budget capital for storms. To the extent in year three, we were to get a Hanukkah-Eve-type storm, a snowmaggenden-type storm. I think those are our acronyms for our 2012 storm. And the Hanukkah Eve would be you know, was \$110 million dollars in 2006. That would be a
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		<u> </u>	Page 246
	Page 244 David Mills by Commissioner Rendahl		Jon Piliaris by Commissioner Rendahl
1	MR. MILLS: Correct.	1	COMMISSIONER RENDAHL: And so has maybe
1	COMMISSIONER RENDAHL: It's not captured in	1	this whoever this is for, does the company have plans
2	any sort of a number of years that the attrition is		for a future general rate case within another couple of
3	supposed go out; so it's not a multiyear rate plan?	3	years? What is that plan for the future?
4	MR. MILLS: It is not a multiyear rate plan.	4	
5	COMMISSIONER RENDAHL: Okay. Is your mike	5	MR. PILIARIS: Yeah. The company's five-year plan currently contemplates the need for yet
6 7	on?	6	another rate case filed sometime within within a year
	MR. MILLS: Maybe it's not close enough.	7	of the conclusion of this case.
8	That's correct. It is not a multiyear rate	8	
9	-	9	COMMISSIONER RENDAHL: All right. So with
10	plan.	10	the attrition going forward beyond the test year and
11	COMMISSIONER RENDAHL: So if the Commission	11	then into the rate year, I'm assuming most of you or
12	were to authorize the attrition adjustment in this case	12	some of you may have read the policy statement that we
13	or the attrition plan that you've requested in this	13	just issued.
14	case, customers would see this amount in the rates as if	14	What appropriate review should the
15	it were base rates; right? They're not going to see a	15	Commission engage in if we approve the attrition plan?
16	different line item that says "attrition."	16	MR. PILIARIS: So the company is has read
17	MR. PILIARIS: I'm maybe better suited to	17	the policy statement. Of course, we're still digesting
18	answer that question.	18	it. It's fairly fresh.
19	The answer would be no, it is not going to	19	CHAIRMAN DANNER: Just for the record,
20	be a separate amount on their bill. It would be covered	20	you're talking about the Used and Useful Policy
21	through base rates.	21	Statement?
22	COMMISSIONER RENDAHL: Okay. So customers	22	MR. PILIARIS: That's correct, Chair Danner.
23	would then pay those rates into the rate effective	23	Thank you very much.
24	period, however long that is; correct? Whether it's one	24	We read with interest the requirement for
25	year or beyond.	25	reporting after rates go into effect using an attrition
	Page 245		Page 247
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	Jon Piliaris by Commissioner Rendahl		Jon Piliaris by Commissioner Rendahl
1	Jon Piliaris by Commissioner Rendahl MR. PILIARIS: Until rates are changed	1	-
1 2	Jon Piliaris by Commissioner Rendahl	1 2	Jon Piliaris by Commissioner Rendahl mechanism or multiyear rate plan. The company is committed to reporting to the
	Jon Piliaris by Commissioner Rendahl MR. PILIARIS: Until rates are changed subsequently; isn't that correct? COMMISSIONER RENDAHL: So the amount that		Jon Piliaris by Commissioner Rendahl mechanism or multiyear rate plan. The company is committed to reporting to the extent the Commission requests in the form the
2 3 4	Jon Piliaris by Commissioner Rendahl MR. PILIARIS: Until rates are changed subsequently; isn't that correct? COMMISSIONER RENDAHL: So the amount that you're requesting for all the various projects, there's	2	Jon Piliaris by Commissioner Rendahl mechanism or multiyear rate plan. The company is committed to reporting to the extent the Commission requests in the form the Commission requests, we haven't contemplated exactly
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	Page 248		Page 250
	Jon Piliaris by Commissioner Rendahl		Carl Rábago by Commissioner Rendahl
1	COMMISSIONER RENDAHL: But none of that	1	
2	granted you didn't have the Use and Useful Policy	2	MR. RÁBAGO: Yes, ma'am.
3	Statement. But you reference the statute repeatedly.	3	COMMISSIONER RENDAHL: Okay. So if you look
4	So none of that post-review period is included in any of	4	in the column that says "rate your forecast." The
5	your testimony; correct?	5	largest amount of those investments occur in what we
6	Any of the Company's testimony?	6	might call the programmatic investments; correct?
7	MR. PILIARIS: To my knowledge, a specific	7	MR. RÁBAGO: Yes.
8	reporting plan has not been put forth.	8	COMMISSIONER RENDAHL: That 300 sorry,
9	CHAIRMAN DANNER: So this is a question for	9	the print is very small 323-point-something
10	Mr. Doyle.	10	MR. RÁBAGO: Point nine.
11	In your rebuttal testimony, and specifically	11	COMMISSIONER RENDAHL: million dollars.
12	I'm talking about DAD-17 7T at page 22.	12	And those are for high molecular weight, worst
13	You propose a change in the company's	13	performance circuits, et cetera; correct?
14	earning sharing mechanism. And you call it an	14	MR. RÁBAGO: Yes.
15	"increment customer protection" for an attrition	15	COMMISSIONER RENDAHL: So those are the
15	adjustment in the case.	16	so for this is where the attrition kicks in, in your
	And basically the proposal is setting		mind, is allowing those transformative investments to be
17 18	sharing bands in an increment of 3 percent of the net	17 18	made.
19	operating income based on PSE's initial revenue.	19	MR. RÁBAGO: Yes. And in ensuring that
	My question is basically, is the		there's adequate earnings to support those expenditures
20	structure of this proposal of the 3 percent increment,	20 21	for those foundational-type investments.
21	is that applicable to any attrition adjustment that		COMMISSIONER RENDAHL: Because without that,
22	might be authorized in that case? In other words, if	22	in your mind, the company would lose earnings?
23	it's less or more than what you request, is that still	23 24	MR. RÁBAGO: And without this these kinds
24	the number that you're looking at?	24 25	of costs are going to come due anyway in terms of
25		25	
	Page 249		Page 251
1	Carl Rábago by Commissioner Rendahl	-	Carl Rábago by Commissioner Rendahl upgrading and improving the condition of the system and
1	MR. DOYLE: That's a good question,	1	other things in the future, like CETA implementation are
2	Commissioner Danner. I'm proposing that sharing ban protection which biases more of excess earnings	2	
3	· -	3	going to necessitate, if you will, a healthy grid.
	aby invite the second as a second as the second		So these are as lacerihed sort of
4	obviously toward customers as you move through the	4	So these are as as I described sort of
5	range, as a replacement of the current 50/50 excess	5	foundational investments that have come due, if you
5 6	range, as a replacement of the current 50/50 excess earning sharing mechanism.	5	foundational investments that have come due, if you will, and need to be done in order to prepare the
5 6 7	range, as a replacement of the current 50/50 excess earning sharing mechanism. CHAIRMAN DANNER: Okay. So I would take	5 6 7	foundational investments that have come due, if you will, and need to be done in order to prepare the utility for the future.
5 6 7 8	range, as a replacement of the current 50/50 excess earning sharing mechanism. CHAIRMAN DANNER: Okay. So I would take that as a "yes."	5 6 7 8	foundational investments that have come due, if you will, and need to be done in order to prepare the utility for the future. COMMISSIONER RENDAHL: Thank you.
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	Page 252		Page 254
I	John Taylor by Ms. Gafken		John Taylor by Ms. Gafken
1	raise your right hand.	1	Q. So Mains Plant is shown as Account 376; correct?
2	(Panel sworn)	2	A. Yes.
3	JUDGE PEARSON: Ms. Barnett, are you	3	Q. And there are two entries for Mains Plant,
4	introducing these witnesses?	4	Account 376, and those two lines are associated with
5	MS. BARNETT: Yes. Thank you.	5	peak and average mains; correct?
6	I'll introduce Jon Piliaris. But next to	6	A. Correct.
7	him is Birud Jhaveri, and Mr. Amen as you met, and	7	Q. Average mains shows a total of \$855,521;
8	Mr. John Taylor.	8	correct?
9	JUDGE PEARSON: Okay. Thank you.	9	A. Yes.
10	So Ms. Gafken.	10	Q. And peak mains shows a total amount of
11	MS. GAFKEN: Thank you.	11	\$1,798,521; correct?
12	My plan is to pose questions to two of the	12	A. Yes.
13	panel witnesses. And I'll just take them one at a time.	13	Q. Would you accept, subject a check, that the sum
14	I would like to start with Mr. Taylor and	14	of those two numbers is approximately 2.6 million?
15	then move on to Mr. Piliaris.	15	A. Yes.
16	CROSS-EXAMINATION	16	Q. So switching gears.
17	BY MS. GAFKEN:	17	You present your cost I'm sorry, you present
18	Q. Good afternoon, Mr. Taylor.	18	your gas cost of service study in Exhibit JDT-3;
19	A. Good afternoon.	19	correct?
20	Q. Would you please turn to your direct testimony,	20	A. Yes, that's the summary of the study. It
21		21	provides information at a higher level where the other
22		22	exhibits provide some more details.
22	Q. Beginning there and continuing through page 13,	23	Q. You submitted work papers related to JDT-3; is
24			that correct?
		24	A. Correct.
25		25	
	Page 253 John Taylor by Ms. Gafken		Page 255
1		1	John Taylor by Ms. Gafken Q. Do you have your work papers with you or access
1	A. Correct.	1	to them?
2		-	
3	Q. Will you please turn to page 16 lines 15 through	3	A. Some but not all of them. Which one?
4	,	4	Q. I do have a paper copy if we need it.
5	A. Yep, I'm there.	5	But I'm looking at the tab, "Mains cost." It
6			was the last tab in the electronic copy.
7		7	A. Of which work paper?
8	based on the study of Mains; correct?	8	Q. The work paper for JDT-3.
9	A. Yes.	9	JUDGE PEARSON: Ms. Gafken, do we have that
10		10	in evidence?
11		11	MS. GAFKEN: I did not make it an exhibit.
12		12	I just wanted to ask him about two numbers on it.
	for electronic copy depending on how people are looking	13	I do have paper copies, if it's useful for
13			
13	at it.	14	the witness to look at it. And I have copies for others
13	at it.		the witness to look at it. And I have copies for others if they would like to see it as well.
13 14	at it. On the print copy of JDT-4, would you please	14	•
13 14 15	at it. On the print copy of JDT-4, would you please turn to page 8.	14 15	if they would like to see it as well.
13 14 15 16	at it. On the print copy of JDT-4, would you please turn to page 8. On the electronic copy, it's columns "BB" as in	14 15 16	if they would like to see it as well. JUDGE PEARSON: Just go ahead. That's fine.
13 14 15 16 17	at it. On the print copy of JDT-4, would you please turn to page 8. On the electronic copy, it's columns "BB" as in "boy, boy" or through "BH."	14 15 16 17	if they would like to see it as well. JUDGE PEARSON: Just go ahead. That's fine. MR. TAYLOR: I'll take a paper copy. It
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13 14 15 16 17 18 19	at it. On the print copy of JDT-4, would you please turn to page 8. On the electronic copy, it's columns "BB" as in "boy, boy" or through "BH." A. Okay. I'm on page 8 of JDT-4. Q. Okay. So page 8 shows data related to special	14 15 16 17 18 19	if they would like to see it as well. JUDGE PEARSON: Just go ahead. That's fine. MR. TAYLOR: I'll take a paper copy. It might be quicker. MS. GAFKEN: Okay. MR. TAYLOR: I have it here now.
13 14 15 16 17 18 19 20	at it. On the print copy of JDT-4, would you please turn to page 8. On the electronic copy, it's columns "BB" as in "boy, boy" or through "BH." A. Okay. or through "BH." A. Okay. I'm on page 8 of JDT-4. Q. Okay. So page 8 shows data related to special contracts; correct?	14 15 16 17 18 19 20	if they would like to see it as well. JUDGE PEARSON: Just go ahead. That's fine. MR. TAYLOR: I'll take a paper copy. It might be quicker. MS. GAFKEN: Okay. MR. TAYLOR: I have it here now.
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13 14 15 16 17 18 19 20 21 22	 at it. On the print copy of JDT-4, would you please turn to page 8. On the electronic copy, it's columns "BB" as in "boy, boy" or through "BH." A. Okay. I'm on page 8 of JDT-4. Q. Okay. So page 8 shows data related to special contracts; correct? A. Yes. Q. Sir, we're going to stay with JDT-4 for the next 	14 15 16 17 18 19 20 21 22	if they would like to see it as well. JUDGE PEARSON: Just go ahead. That's fine. MR. TAYLOR: I'll take a paper copy. It might be quicker. MS. GAFKEN: Okay. MR. TAYLOR: I have it here now. BY MS. GAFKEN: Q. Okay. In your work papers, you show the cost of Mains attributed to various types and sizes of mains

	Page 256		Page 258
	John Taylor by Ms. Gafken		John Taylor by Ms. Gafken
1	Q. I don't know if you need to check this or	1	total dollar seen in any cost of service work paper from
2	accept it subject to check, but I'm happy to have that	2	that and which is in the special study.
3	be a condition of this.	3	Q. Okay. Let's return to your direct testimony
4	But would you accept that your work paper shows	4	Exhibit JDT-1T, page 12, line 17 through page 13,
5	the amount of Mains Plant allocated direct to Boeing is	5	line 3.
6	\$4,893,490?	6	A. Okay. I'm there.
7	A. That's the I wouldn't depict I wouldn't	7	Q. The GIS study tracked all Mains utilized by the
8	say that was allocated to Boeing. That's the result of	8	special contracts from the customers' meters back to the
9	the special study that is utilizing, as you can see in	9	city gate; is that correct?
10	the column, 2018 dollars. So just to spend a minute	10	A. Correct.
11	here.	11	Q. And some of these Mains were tracked from the
12	MR. PEPPLER: I'm sorry. Can I interrupt	12	customers' meters back to the city gate are used by a
13	for a second?	13	multitude of customers; is that correct?
14	I believe this is a confidential work paper.	14	A. Yes, some are.
15	I just wanted to	15	Q. So some of these mains captured by the GIS study
16	CHAIRMAN DANNER: Whether it's confidential	16	are common use Mains that serve residential customers or
17	or not, I'm just trying to figure out if we should be	17	commercial customers or a variety of customers; correct?
18	having a conversation on it.	18	A. Yeah. And that was accounted for in the study.
19	JUDGE PEARSON: Ms. Gafken, if you intend to	19	Q. But they are not used for the sole purpose of
20	rely on this in your brief in any way, we will need it	20	serving special contract customers; correct?
20	offered and entered into the record, so and if it is	20	A. Only a portion of the Mains were in the special
22	confidential, then can we check that?	22	study direct assigned to the special contract facilities
23	MS. GAFKEN: Okay. I will definitely check	23	based on the design day, peak usage of that portion of
23	that. I did not think it was confidential.	23	Mains for the special contracts load.
24	So my apologies. I did not mean to disclose	24	Q. Would it be correct to say that the Mains
20		20	-
			Daga 250
	Page 257		Page 259
1	John Taylor by Ms. Gafken	1	Jon Piliaris by Ms. Gafken
1	John Taylor by Ms. Gafken anything that shouldn't have been disclosed.	1	Jon Piliaris by Ms. Gafken identified in the study are not wholly dedicated
2	John Taylor by Ms. Gafken anything that shouldn't have been disclosed. MR. TAYLOR: I might be able to help,	2	Jon Piliaris by Ms. Gafken identified in the study are not wholly dedicated facilities but rather the study allocated a portion of
2 3	John Taylor by Ms. Gafken anything that shouldn't have been disclosed. MR. TAYLOR: I might be able to help, though.	2 3	Jon Piliaris by Ms. Gafken identified in the study are not wholly dedicated facilities but rather the study allocated a portion of these Mains to the special contract customer?
2 3 4	John Taylor by Ms. Gafken anything that shouldn't have been disclosed. MR. TAYLOR: I might be able to help, though. Do you want me to help for a second here to	2 3 4	Jon Piliaris by Ms. Gafken identified in the study are not wholly dedicated facilities but rather the study allocated a portion of these Mains to the special contract customer? A. Yes. It would be a portion. Yeah.
2 3 4 5	John Taylor by Ms. Gafken anything that shouldn't have been disclosed. MR. TAYLOR: I might be able to help, though. Do you want me to help for a second here to describe what I did and where these numbers are derived	2 3 4 5	Jon Piliaris by Ms. Gafken identified in the study are not wholly dedicated facilities but rather the study allocated a portion of these Mains to the special contract customer? A. Yes. It would be a portion. Yeah. Q. Thank you.
2 3 4 5 6	John Taylor by Ms. Gafken anything that shouldn't have been disclosed. MR. TAYLOR: I might be able to help, though. Do you want me to help for a second here to describe what I did and where these numbers are derived from?	2 3 4 5 6	Jon Piliaris by Ms. Gafken identified in the study are not wholly dedicated facilities but rather the study allocated a portion of these Mains to the special contract customer? A. Yes. It would be a portion. Yeah. Q. Thank you. MS. GAFKEN: I don't have any further
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	Page 260		Page 262
	Jon Piliaris by Ms. Gafken		Jon Piliaris by Ms. Gafken
1	A. It would be easier for me to confirm that if I		is let me back up.
2	had a copy of it in front of me.	2	Normally, when a company does rate spreads,
3	Before me, I'm looking at a sheet that in the	3	traditionally, it performs that spread on base rates
4	lower left corner states: "Gas cost of service and rate	4	only. And so that is what you see in the applied rate
5	spread"; and the bottom right corner "page 1 of 2"; and	5	spread, so that's why the numbers are generally very
6	at the top includes "line, gas, cost of service, parody	6	round.
7	ratios, PSE rebuttal" and on down the line.	7	For example, for PSE rebuttal, you see
8	Is this the correct sheet?	8	residential rate spread of a hundred percent, secondary
9	Q. I think that is similar. I have some questions	9	general service of a hundred percent and on down the
10	about the electric cost of service study and white	10	line.
11	spread.	11	The my interpretation of the effective rate
12	A. I only have gas in front of me.	12	spread is that it not only incorporates the spread in
13	MS. BARNETT: I'll point out that this is	13	the applied rate spread of base rates, but it also
14	not again again, not an exhibit and is not in the	14	incorporates the changes to the other riders that would
15	record. So I would like to make that clear. I don't	15	be effected by the change in rate spread as a result of
16	think the issues list states expressly that it's not in	16	this case.
17	the record.	17	So it incorporates probably more of a look from
18	So I'm curious as to the extent we're going	18	a bill impact perspective rather than just solely on
19	to be questioning Mr. Piliaris on the issues list.	19	base rates.
20	JUDGE PEARSON: I'm wondering if you can ask	20	Q. Okay. Under the applied table, you mentioned
21	your questions without the issues list.	21	that's the table with the relatively rounder numbers.
22	MS. GAFKEN: We might be able to ask the	22	If a rate class receives 100 percent allocation,
23	questions without referring to the issues list.	23	that does not mean that the rate class receives the
24	There's a concept that I that I'd like to	24	system average increase; correct?
25	have explained. And I'm fairly certain that	25	A. That's correct.
	Page 261		Page 263
	Jon Piliaris by Ms. Gafken		Jon Piliaris by Ms. Gafken
1	Mr. Piliaris will be helpful in that regard, so	1	Q. The 100 percent simply means that the class is
2	JUDGE PEARSON: Do you have a copy of it for	2	receiving an equal percentage increase of the remaining
3	him?	3	dollar increase after the increases to those classes
4	MS. GAFKEN: I do have a copy of the issues	4	receiving greater or less than a hundred percent as
5	list. Or well, that tab, the electric cost of	5	allocated; correct?
6	service rates by tab that I can provide to him.	6	A. And as well as certain other classes that don't
7	MS. BARNETT: Is that the entire tab?	7	actually receive an allocation, per se, but are more
8	MS. GAFKEN: No, it's just the the two	8	directly calculated. But, generally speaking, that's
9	parts. The effective rate spread and applied rate	9	correct.
10	spread charts.	10	Q. I'd like to walk through an example, if I could.
11	MS. BARNETT: If I can approach and provide	11	Looking at your Exhibit JAP-6. If you could
12	Mr. Piliaris the full tab, electronically, maybe that	12	turn to page 8 of JAP-6. And the electronic version
13	will be easier.	13	that's the page found in tab Exhibit JAP, dash, rate
14	THE COURT: That's fine.	14	spread.
15	BY MS. GAFKEN:	15	JUDGE PEARSON: Ms. Gafken, could I just
16	Q. For "rate spread" the issues list shows an	16	interrupt you for one moment. We don't have the paper
17	effective rate spread and applied rate spread; correct?	17	exhibit, so we would like to take a short recess.
18	A. Yes.	18	MS. GAFKEN: I can also
19	Q. The effective rate spread is intended to show	19	Do you have the electronic exhibit?
20	each rate class I'm sorry, let me start that over	20	JUDGE PEARSON: I do. The Commissioners do
	again.	21	not.
21	agam.		
21 22	The effective rate spread is intended to show	22	MS. GAFKEN: Oh, okay. In that case
	-	22 23	MS. GAFKEN: Oh, okay. In that case THE COURT: We'll take a short recess.
22	The effective rate spread is intended to show		-
22 23	The effective rate spread is intended to show each rate class' increase as a percentage of the system	23	THE COURT: We'll take a short recess.

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	Jon Piliaris by Ms. Gafken		Jon Piliaris by Ms. Gafken
1	(A recess was taken from 2:00 p.m. to 2:03 p.m.)	1	are getting consistent increase amongst themselves. And
2	THE COURT: We'll go back on the record and	2	it's proportional, essentially. It preserves some
3	proceed.	3	proportionality between those that are 75 percentage of
4	BY MS. GAFKEN:	4	the average, 125 percent of the average, or the average.
5	Q. Mr. Piliaris, if you could please refer to	5	Q. So the 100 percent, again, it's not 100 percent
6	page 8 of Exhibit JAP-6, which presents your rate spread	6	of the system average, but it's 100 percent of what's
7	summary.	7	left over.
8	A. I'm there.	8	A. Essentially, yes.
9	Q. Column F, row 1, shows a proposed revenue	9	Q. And just so I'm sure that we're clear that I
10	increase of 7.68 percent for the residential class;	10	think I understand this.
11	correct?	11	The residential class under your proposal would
12	A. Proposed revenue increase; correct.	12	not receive 100 percent of the overall percentage
13	Q. And PSE's proposed system-wide increase is 143	13	increase but rather a 107.3 percent of the overall
14	million or a system-wide increase of 7.16 percent;	14	percentage increase; is that correct?
15	correct?	15	A. I believe that's what the this particular
16	A. Correct.	16	analysis shows.
17	Q. If we divide your residential 6.8 [verbatim]	17	MS. GAFKEN: That is all of my very painful
18	percent increase by the overall system increase of 7.16,	18	cross. Thank you.
19	we get 107.3 percent of the system average percent	19	JUDGE PEARSON: Ms. Barnett, did you have
20	increase; is that correct? Subject to check.	20	any redirect?
21	A. Subject to check.	21	MS. BARNETT: No, Your Honor.
22	Q. If you refer to the issues list, the effective	22	JUDGE PEARSON: And, Mr. Boehm, this is the
23	table rate spread table shows 107 107.3 percent	23	cross that you waived; is that correct?
24	for the residential class; correct? The effective	24	MR. BOEHM: That's correct, Your Honor.
25	table.	25	JUDGE PEARSON: Is there any questions?
	Page 265		Page 267
	Jon Piliaris by Ms. Gafken		Jon Piliaris by Mr. Roberson
1	A. Correct.	1	Oh, staff has a few. That's right. Sorry.
2	Q. Now I would like to focus on the idea of applied	2	I promptly forgot what you told me,
3	rate spread.	3	Mr. Roberson.
4	Turning back to your Exhibit JAP-6 on page 8,	4	MR. ROBERSON: It was off the record. It
5	column E at row 1, the residential class is listed at	5	never happened.
6	100 percent; correct?	6	CROSS-EXAMINATION
7	A. Correct.	7	BY MR. ROBERSON:
8	Q. I know you provided an explanation earlier, but	8	Q. Good afternoon, Mr. Piliaris. How are you?
9	isn't that amount still applied to the \$143 million	9	A. Good afternoon.
10	increase?	10	Q. Does your binder of doom have your rebuttal
11	In other words, what does that 100 percent mean?	11	testimony?
12	How is that 100 percent used to develop the 7.6 percent	12	A. It does.
13	increase in column F?	13	Q. Could you turn to it? It is Exhibit JAP-18T.
14	A. I believe it's what you had I think it was	14	A. I'm there.
15	you that described this earlier.	15	Q. Page 18. I just have a few questions about the
16	Once the the rate groups that have their	16	conjunctive demand pilot.
17	either ones that already have explicitly calculated	17	I guess, initially, does PSE consider this as a
18	rates or get greater or less than the average increase,	18	pilot or a temporary offering?
19	the remaining classes that have 100 percent essentially	19	A. I would consider it a pilot with the the
20	get the average of the remainder.	20	intention of making it permanent and perhaps also
21	So it's somewhat of a complicated calculation to	21	expanding it.
22	explain, but it's essentially a goal-seeking	22	Q. Okay. So on lines 12 through 16, you note that
23	calculation; that it iterates on itself.	23	the pilot isn't readily susceptible to the concept of
24	So that those that are getting an	24	internal validity; correct?
	quote/unquote, a hundred percent of the average increase	25	A. I note the term "internal validity." I cannot
	, ,		

		1	
	Page 268 Jon Piliaris by Mr. Roberson		Page 270 Birud Jhaveri by Commissioner Balasbas
1	claim with certainty that I fully understand how it was	1	
			factors that were raised are applicable in every situation or for every pilot.
2	-		
3	My interpretation of the term "internal	3	And my interpretation of this internal validity,
4	validity" was in the context of applying some pricing	4	I was making the point that I didn't think, at least the
5	schedule to to broader groups of customers	5	way I understood that term to be used, didn't seem to be
6	particularly residential-type customers.	6	as apropos for this particular pilot necessarily.
7	And the my recollection was that the	7	Q. Fair enough. That's all the questions I have.
8	attention behind that statement was that if you're going	8	Thank you.
9	to apply it, it works well for many different customers	9	JUDGE PEARSON: Thank you. Any redirect?
10	within that group. And that was the way I was	10	MS. BARNETT: No, Judge Pearson.
11	interpreting the internal validity.	11	JUDGE PEARSON: Okay. Thank you.
12	Q. On a more general level, I guess a definition of	12	So other questions from the bench for
13	internal validity is the strength of a correlation	13	Mr. Piliaris?
14	between a cause and effect; right?	14	And I will say that there's no other parties
15	A. I'm not sure that I would necessarily	15	that have cross for him. So if you have questions, we
16	interpret I didn't interpret it that way.	16	could ask him outside of recalling him later.
17	Q. Okay. On lines 14 through 16, you seem to	17	COMMISSIONER BALASBAS: All right. So this
18	indicate that customer-specific factors may prevent the	18	question is for Mr. Jhaveri.
19	extrapolation of principles to other customers; correct?	19	Good afternoon. Mr. Jhaveri.
20	A. Yes. Correct.	20	MR. JHAVERI: Good afternoon.
21	Q. As I understand a pilot, a pilot is a program	21	COMMISSIONER BALASBAS: In your Exhibit
22	intended to measure whether or not to roll out a program	22	BBJ-6 in your testimony, that is a comparison table of
23	to a broader customer base; correct?	23	various parody ratios from different methods proposed in
24	A. Not necessarily.	24	the case both PSE's proposed as well as the current
25	Q. How do you use the term "pilot"?	25	method and some of the other parties' methods.
	Page 269		Page 271
	Jon Piliaris by Mr. Roberson		Birud Jhaveri by Commissioner Balasbas
1	A. Well, my interpretation of pilot is it is a	1	My question for you is if the Commission
2	learning exercise. It can the pilot will ask many	2	were to not accept PSE's proposed method here in this
3	different questions. And one question may be that	3	case, given other things with cost of service rulemaking
			, 3 3 3
	whether or not it could be applicable to more customers.		and other factors, would the company accept the current
4	whether or not it could be applicable to more customers, maybe that it's only dedicated to a specific group of	4	and other factors, would the company accept the current 25 percent/75 percent allocation?
5	maybe that it's only dedicated to a specific group of	4 5	25 percent/75 percent allocation?
5 6	maybe that it's only dedicated to a specific group of customers.	4 5 6	25 percent/75 percent allocation? MR. JHAVERI: The short answer is "yes."
5 6 7	maybe that it's only dedicated to a specific group of customers. Just, is it working the way you intended it to	4 5 6 7	25 percent/75 percent allocation? MR. JHAVERI: The short answer is "yes." And the the reason the answer is "yes" is because in
5 6 7 8	maybe that it's only dedicated to a specific group of customers. Just, is it working the way you intended it to work?	4 5 6 7 8	25 percent/75 percent allocation? MR. JHAVERI: The short answer is "yes." And the the reason the answer is "yes" is because in my rebuttal testimony, I also noted that there were
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5 6 7 8 9	maybe that it's only dedicated to a specific group of customers. Just, is it working the way you intended it to work? In which case you have an opportunity to gain some learnings and, perhaps, adjust the offering so that	4 5 6 7 8 9 10	25 percent/75 percent allocation? MR. JHAVERI: The short answer is "yes." And the the reason the answer is "yes" is because in my rebuttal testimony, I also noted that there were there were other rulemakings that we're looking into changing the cost of service methodology that is
5 6 7 9 10	maybe that it's only dedicated to a specific group of customers. Just, is it working the way you intended it to work? In which case you have an opportunity to gain some learnings and, perhaps, adjust the offering so that it more it works the way it was intended.	4 5 6 7 8 9 10 11	25 percent/75 percent allocation? MR. JHAVERI: The short answer is "yes." And the the reason the answer is "yes" is because in my rebuttal testimony, I also noted that there were there were other rulemakings that we're looking into changing the cost of service methodology that is currently being utilized, and it may be beneficial for
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5 6 7 8	 maybe that it's only dedicated to a specific group of customers. Just, is it working the way you intended it to work? In which case you have an opportunity to gain some learnings and, perhaps, adjust the offering so that it more it works the way it was intended. Q. Would you say that's not what you're intending with this pilot? I understand your testimony in lines 14 through 16 as saying you are not going to be able to decide whether or not to rule it out based on what happens with these customers, because you can't extrapolate the data from them? A. No, that wasn't the intent of that particular Q. Could you explain what you meant then? A. The the context from this general area of my testimony was that staff offered many interesting and sometimes helpful suggestions in how to go about 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	25 percent/75 percent allocation? MR. JHAVERI: The short answer is "yes." And the the reason the answer is "yes" is because in my rebuttal testimony, I also noted that there were there were other rulemakings that we're looking into changing the cost of service methodology that is currently being utilized, and it may be beneficial for us to hold the course steady until we have a better idea of where these new methodologies will take us in terms of calculation for cost of service. COMMISSIONER BALASBAS: Thank you. My next question for you relates to the incorporation of carbon prices in the P credit methodology. MR. JHAVERI: Yes. COMMISSIONER BALASBAS: And in the company's proposal you include the social cost of carbon rather than previous projected emissions costs from the 2017

	Page 272		Page 274
	Birud Jhaveri by Commissioner Balasbas		Jon Piliaris by Commissioner Rendahl
1	roughly, what the emissions cost numbers were used in	1	were just replaced by those.
2	the 2017 general rate case?	2	JUDGE PEARSON: Thank you.
3	MR. JHAVERI: Off the top of my head, I do	3	COMMISSIONER RENDAHL: So, Mr. Piliaris, I
	not recall. But I do understand that they were I do		have a question for you about the conjunctiva demand
4	recall that they were far lower than what the social	4	pilot. Back to that topic.
5	cost of carbon is is mandated to be going forward.	5	
6	COMMISSIONER BALASBAS: Okay. You mentioned	6	So your initial testimony, JAP-1T, on page 37, starting you say you have little
7	•	7	
8	one of the reasons for incorporating the social cost of carbon in this case today is that it was legislatively	8	information I'm looking for the line number here.
9		9	On line 20. Let me just ask this question.
10	mandated.	10	This is about the issue of recovering revenue losses,
11	Could you explain, or do you have a specific	11	potential revenue losses from this pilot. And you had
12	reference to the statute that requires the use of social	12	stated that you would wait to recover lost revenue until
13	cost of carbon that would require its use here in cost	13	the next rate case. Is that is that a correct
14	of service study?	14	summary of your testimony?
15	MR. JHAVERI: Yes. Give me just a second.	15	MR. PILIARIS: Generally, I would say that
16	So I'm not sure if this is part of the	16	that determination has not yet been made. I think we
17	record. It was submitted as a data request. It was	17	need to determine whether it's material or not before
18	it's part of the I believe this is part of the	18	going down that path.
19	statutory language from the Senate Bill 5116.	19	So the only point in my testimony was that
20	Section 14 subsection (3)(a) states that "An electric	20	we will revisit that issue later once we have a better
21	utility shall consider the social cost of greenhouse gas	21	understanding if there really is a significant revenue
22	emissions as determined by the Commission for	22	loss.
23	investor-owned utilities pursuant to Section 15 of this	23	COMMISSIONER RENDAHL: So the plan is to
24	Act, the department for consumer-owned utilities.	24	track, as this pilot goes along, to see what that
25	"When developing integrated resource plans	25	revenue loss looks like.
	Page 273		Page 275
	1 490 270		1 490 210
	Birud Jhaveri by Commissioner Balasbas		Jon Piliaris by Commissioner Rendahl
1	-	1	-
1	Birud Jhaveri by Commissioner Balasbas	1 2	Jon Piliaris by Commissioner Rendahl
	Birud Jhaveri by Commissioner Balasbas and clean energy action plans, an electric utility must		Jon Piliaris by Commissioner Rendahl MR. PILIARIS: And that's actually a
2	Birud Jhaveri by Commissioner Balasbas and clean energy action plans, an electric utility must incorporate the social cost of greenhouse gas emissions	2	Jon Piliaris by Commissioner Rendahl MR. PILIARIS: And that's actually a fundamental piece of the pilot itself in its evaluation.
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1	designing rates to recover revenue from that schedule	1	some time.
2	and if you have a pilot, for example, that reduces	2	And as I noted in my testimony, there's
3	revenue collection, then the rest should be recovered	3	going to need to be a fair amount of IT and process
4	from the remainder within that class of customers.	4	development based on whatever is ultimately decided.
5	COMMISSIONER RENDAHL: Okay. And then in	5	So I think it would be aggressive to to
6	terms of the evaluation of the pilot. This is I	6	assume that we could get with all of that to gain
7	think going to somewhat of the area that staff was	7	meaningful stakeholder input and have enough time to
8	discussing. If you go to your rebuttal testimony,	8	actually implement the program by the end of the year;
9	JAP-18T, and look at page 11 through 19 where this is	9	that might be an aggressive schedule.
0	discussed.	10	So the Company has laid out a year
.1	You're responding to Staff's design and	11	one-year schedule as a as a reasonable timeline.
2	evaluation elements. Specifically on page 14, you're	12	CHAIRMAN DANNER: So December 31st of 2020
3	talking about Staff's design and evaluation of elements	13	this year is you see that as too aggressive, but a
.4	that provide useful guidance.	14	couple months later is okay.
.5	If if the Commission were to approve the	15	MR. PILIARIS: It could be done. But I
6	pilot in this docket, are there any specific design in	16	think what would end up happening is that we would
7	evaluation elements that can be applied in the	17	likely need to the I think the stakeholder input
8	evaluation report, or is that something you would like	18	would suffer as a result of that to allow enough time
9	the Commission to direct, or is that something you would	19	for implementation.
0	like the company to determine on its own?	20	CHAIRMAN DANNER: So another timeline we
1	MR. PILIARIS: In a perfect world, it would	21	had, though, Staff, in their cross-answering testimony
2	probably be somewhere in between. The Company would	22	suggested that we that you have an alternative
3	likely have some ideas, but if the Commission has things	23	proposal just for the Commission to to study the cost
24	that it specifically would like to be examined, the	24	effectiveness of the program.
25	Company would very much appreciate knowing that so that	25	And they recommend a brief report of the
	Page 277		Page 279
	Jon Piliaris by Chairman Danner		Jon Piliaris by Chairman Danner
1	it can provide an evaluation that is a value to the	1	program within three months of the effected date of the
2	Commission.	2	final order in this case. Is that enough time?
3	COMMISSIONER RENDAHL: Thank you.	3	MR. PILIARIS: Just to make sure I heard you
4	CHAIRMAN DANNER: Are we calling	4	correctly. The three months was to evaluate,
5	Mr. Piliaris back?	5	essentially, the cost and benefits of pursuing that
6	JUDGE PEARSON: It's up to you.	6	program not actually implementing?
7	CHAIRMAN DANNER: Well, I have a question	7	CHAIRMAN DANNER: That's right. It's
8	for you regarding your on-bill repayment.	8	four as I understand the Staff's report, their
9	So, Mr. Piliaris, Northwest Energy Coalition	9	recommendation is that the company provide a brief
0	recommends the Commission to direct the company to	10	report of the program within three months of the
1	design and develop an on-bill repayment program.	11	effective date of the final order.
2	And in their testimony Ms. Gerlitz says that	12	So if we were to do that, my question to you
3	they recommend PSE design and implement an on-bill	13	is would that be sufficient time? And if not, what kind
4	repayment program by December 31st, 2020.	14	of timeline would you prefer or suggest?
5	If the Commission were to direct Puget to	15	MR. PILIARIS: Again, I think three months.
6	design and implement such a program, is that date a	16	As I think the Commission can appreciate
.7	feasible timeline for such an effort? And if not, what	17	with anything that's going on getting on anybody's
.8	kind of timeline do you think would be reasonable?	18	calendar within a three-month time frame can be somewhat
	MR. PILIARIS: As I noted in my testimony,	19	challenging with everything that's going on.
.9		20	I would respectfully submit that maybe
	if the Commission were to direct the Company to pursue		air mantha minht ha a cafar timaling to allow anair
20	if the Commission were to direct the Company to pursue such a program, I think it would be helpful to	21	six months might be a safer timeline to allow, again,
20 21		21 22	meaningful input and a time for the analysis to actually
20 21 22	such a program, I think it would be helpful to		
19 20 21 22 23 24	such a program, I think it would be helpful to incorporate the the advice and suggestions of the	22	meaningful input and a time for the analysis to actually

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1	JUDGE PEARSON: So you are all excused.		Cathy Koch by Ms. Paisner
2	Thank you very much.	1	So then
3	And at this time we'll assemble the IT	2	MR. PEPPLE: I did have question for
4	investment panel, which is PSE witnesses Jacobs, Free,	3	Ms. Free. I'm happy to ask those during the panel.
5	Wappler, Koch, and Hopkins.	4	JUDGE PEARSON: Okay. That sounds good.
6	MR. PEPPLE: Judge Pearson, just a quick	5	Thank you.
7	procedural issue while the panel is gone.	6	Ms. Paisner, whenever you're ready.
8	I was wondering if it would be possible to	7	CROSS-EXAMINATION
9	collect the work paper that Ms. Gafken handed around. I	8	BY MS. PAISNER:
10	believe there may be some confidential information in	9	Q. This is Ann Paisner on behalf of Public Counsel.
11	there, and it would be appropriate to	10	Good afternoon, Ms. Koch.
12	JUDGE PEARSON: Okay. Sure. Thank you.	11	A. Good afternoon.
13	MS. CARSON: Judge Pearson?	12	Q. Do you have a copy of your rebuttal testimony
14	JUDGE PEARSON: Yes.	13	which is PSE Exhibit CAK-6TR?
15	MS. CARSON: We were wondering if Mr. Rábago	14	A. Yes. Just a sec.
16	could be excused or is excused.	15	Q. Just to clarify while I may ask questions that
17	JUDGE PEARSON: Yes, that's fine.	16	relate to confidential information some of the
18	MS. CARSON: Thank you very much.	17	cross-exhibits.
19	JUDGE PEARSON: Okay. So will you all	18	My questions will not disclose any confidential
20	please stand and raise your right hand. I'll swear you	19	information and should not require you to discuss it.
	in.	20	A. I will try not to as well.
22	(Panel sworn)	21	Q. Okay. Do you have a copy of PSE Exhibit CAK-4
23	JUDGE PEARSON: Okay. Please be seated.	22	at page 1?
24	So, Ms. Carson, if you would like sorry,	23	A. Exhibit CAK-4, which is. Okay. That's my
	is it going to be Mr. Steele? Okay.	24	direct testimony. Correct. Yes.
20		25	Q. On page 1 you discuss PSE advance metering
	Page 281		Page 283
1	If you could introduce the witnesses please.		Cathy Koch by Ms. Paisner
2	MR. STEELE: In the very front we've got	1	infrastructure project which began in 2016; correct?
3	Margaret Hopkins, Joshua Jacobs, Susan Free, Cathy Koch,	2	A. Yes.
4	and Andrew Wappler.	3	Q. You discuss how 2016 was the year in which
5	JUDGE PEARSON: Okay. Thank you.	-	installation of the AMI network began.
6	So Public Counsel has indicated	5	A. Yes.
7	cross-examination for Jacobs and Koch.	6	Q. But 2018 is the year in which installation of
8	So, Ms. Gafken, would you like to ask those	7	new AMI meters and gas modules began; is that correct?
9	questions now or would you like to cross-examine them	8	A. Yes.
	individually later?	。 9	Q. On line 12, same page, you state that full
10	MS. GAFKEN: So we can ask those questions	9 10	deployment of the AMI network and electric meters and
11 12	NOW.		gas modules will be completed in 2022 to 2023; is that
12	Ms. Paisner will ask the questions for	11	gas modules will be completed in 2022 to 2023, is that correct?
13	·	12	A. Yes.
14	Ms. Koch, and then I will ask the questions for Mr. Jacobs.	13	
15		14	Q. Please turn now to your rebuttal testimony,
16	JUDGE PEARSON: Okay. So before we do that,	15	which on page 4, beginning on line 6.
17	Staff, I have the same question for you with respect to	16	A. Is this Exhibit CAK-60?
	Ma Free		Q. It is.
18	Ms. Free.	17	
18 19	MS. ROBERSON: I can ask Ms. Free my	18	A. Page 6.
18 19 20	MS. ROBERSON: I can ask Ms. Free my questions now if you'd prefer.	18 19	Q. Page 4, line 6, please.
18 19 20 21	MS. ROBERSON: I can ask Ms. Free my questions now if you'd prefer. JUDGE PEARSON: Okay. And then Mr. Pepple,	18 19 20	Q. Page 4, line 6, please.A. Page 4, line 6.
18 19 20 21 22	MS. ROBERSON: I can ask Ms. Free my questions now if you'd prefer. JUDGE PEARSON: Okay. And then Mr. Pepple, same for you? Mr. Coleman?	18 19 20 21	 Q. Page 4, line 6, please. A. Page 4, line 6. Q. This is where you describe obsolescence of AMR
18 19 20 21 22 23	MS. ROBERSON: I can ask Ms. Free my questions now if you'd prefer. JUDGE PEARSON: Okay. And then Mr. Pepple, same for you? Mr. Coleman? MR. COLEMAN: Your Honor, I think I'm able	18 19 20 21 22	 Q. Page 4, line 6, please. A. Page 4, line 6. Q. This is where you describe obsolescence of AMR as PSE's primary reason for its decision to transition
18 19 20 21 22	MS. ROBERSON: I can ask Ms. Free my questions now if you'd prefer. JUDGE PEARSON: Okay. And then Mr. Pepple, same for you? Mr. Coleman? MR. COLEMAN: Your Honor, I think I'm able to waive my cross of Ms. Hopkins.	18 19 20 21	 Q. Page 4, line 6, please. A. Page 4, line 6. Q. This is where you describe obsolescence of AMR as PSE's primary reason for its decision to transition to advance metering infrastructure or AMI.
18 19 20 21 22 23	MS. ROBERSON: I can ask Ms. Free my questions now if you'd prefer. JUDGE PEARSON: Okay. And then Mr. Pepple, same for you? Mr. Coleman? MR. COLEMAN: Your Honor, I think I'm able	18 19 20 21 22	 Q. Page 4, line 6, please. A. Page 4, line 6. Q. This is where you describe obsolescence of AMR as PSE's primary reason for its decision to transition

		T	,
1	Page 284		Page 286
	Cathy Koch by Ms. Paisner		Cathy Koch by Ms. Paisner
1	Q. In the second bullet item on that page at	1	Q. This attachment states that Landis+Gyr will
2	line 15 you describe PSE's inability to obtain new	2	continue to offer field support for units. And at the
3	electric replacement equipment as they have been	3	bottom, September 6th, 2019, is the date of this
4	discontinued; is that correct?	4	document; correct?
5	A. Yes, I talk about that.	5	A. Yes.
6	Q. Please turn now to cross Exhibit CAK-8X. This	6	Q. So, lastly, please turn to Attachment E, same
7	is your response to Public Counsel data request 256.	7	document.
8	A. Okay.	8	A. Okay.
9	Q. In this data request you were asked to provide	9	Q. This attachment announces a last time to buy
10	documentation regarding the types of AMR electric	10	window for Series 4KV 2C communications modules expiring
11	equipment that had been discontinued.	11	on March 31st, 2020; is that correct?
12	A. Yes. The question was around the electric meter	12	A. Yes, that's
13	equipment, yes.	13	Q. And the date
14	Q. Attachment A of this exhibit states that a	14	A of this notice.
15	window of time in which to purchase the Series 4	15	Q. Right. And the date at the bottom of this
16	communication technology modules associated with	16	announcement is stated as January 6, 2020?
17	equipment item focus AXS4 was open through December 1st,	17	A. Yes.
18	2019; is that correct?	18	Q. So all these expiration dates, January 2019,
19	A. Yes.	19	December 2019, and March of 2020 are after 2018 which is
20	Q. This attachment states that Landis+Gyr would	20	the year in which you began to replace the AMR equipment
21	continue to provide support for the Series 4 endpoints	21	with AMI?
22	as of the date of the document; is that correct?	22	A. Yes. These are the ones that you chose because
23	A. Yes.	23	there's a couple other attachments there that have dates
24	Q. And the date listed at the bottom of this	24	prior to that, as well as there's this is just
25	document is May 29th, 2019; is that the date of this	25	relative to electric meters.
	Page 285		Page 287
	Cathy Koch by Ms. Paisner		Cathy Koch by Ms. Paisner
1	document?	1	And so we have a network and a gas system as
2	A. That's the date of this document.	2	well with this continued equipment.
3	And just to be clear, this is a final notice	3	Q. Okay. Thank you.
4	from Landis+Gyr on the sale of that product.	4	Now, going back to page 13 of PSE Exhibit CAK-4.
5	Q. Okay. Thank you.		
-		5	A. Page 14 okay. Page 13, CAK-4.
6	Please turn to Attachment B of this exhibit,	5 6	
6 7			 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I
		6	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I
7	please.	6 7	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page
7 8 9	please. This attachment states that Landis+Gyr would no	6 7 8	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK?
7 8 9 10	please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints	6 7 8 9	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize.
7 8 9 10 11	please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct?	6 7 8 9 10	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value
7 8 9 10 11 12	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr 	6 7 8 9 10 11	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value
7 8 9 10 11 12 13	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr 	6 7 8 9 10 11 12	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million.
7 8 9 10 11 12 13 14	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance 	6 7 8 9 10 11 12 13	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes.
7 8 9 10 11 12 13 14 15	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). 	6 7 9 10 11 12 13 14	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project
7 8 9 10 11 12 13 14 15 16	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed 	6 7 9 10 11 12 13 14 15	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a
7 8 9 10 11 12 13 14 15 16 17	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed 	6 7 8 9 10 11 12 13 14 15 16	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset?
7 8 9 10 11 12 13 14 15 16 17 18	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed at the bottom is February 14, 2019. 	6 7 8 9 10 11 12 13 14 15 16 17	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset? A. No. The project is estimated at 473 million.
7 8 9 10 11 12 13 14 15 16 17 18 19	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed at the bottom is February 14, 2019. Is that the date of this document? 	6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset? A. No. The project is estimated at 473 million. The benefits are 668 million.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed at the bottom is February 14, 2019. Is that the date of this document? A. Yes. Q. Please turn to Attachment C of of the same 	6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset? A. No. The project is estimated at 473 million. The benefits are 668 million. Q. Okay. Thank you.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed at the bottom is February 14, 2019. Is that the date of this document? A. Yes. Q. Please turn to Attachment C of of the same 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset? A. No. The project is estimated at 473 million. The benefits are 668 million. Q. Okay. Thank you. So now please turn to cross Exhibit CAK-9X.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed at the bottom is February 14, 2019. Is that the date of this document? A. Yes. Q. Please turn to Attachment C of of the same document. This attachment states: "A last-time-to-buy 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset? A. No. The project is estimated at 473 million. The benefits are 668 million. Q. Okay. Thank you. So now please turn to cross Exhibit CAK-9X. This is your Public Counsel data request 257.
7 8	 please. This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct? A. Yes, that's what it says. Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes? A. (Nods head). Q. Similarly, for this document, the date printed at the bottom is February 14, 2019. Is that the date of this document? A. Yes. Q. Please turn to Attachment C of of the same document. This attachment states: "A last-time-to-buy opportunity for 4,000 units of the Focus AX USC product 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Page 14 okay. Page 13, CAK-4. Q. I apologize, that's page 1, line I apologize. Page A. CAK? Q. Page 2 of CAK-4. I apologize. A. This is going to get complicated. Q. Where you state that the total present value revenue requirement of the AMI project is \$258 million. A. Yes. Q. So and that's a portion of the entire project which was estimated to be 668 million over a 20-year-life of the AMI asset? A. No. The project is estimated at 473 million. The benefits are 668 million. Q. Okay. Thank you. So now please turn to cross Exhibit CAK-9X. This is your Public Counsel data request 257. COMMISSIONER BALASBAS: I'm sorry, could I have

Cathy Koch by Ms. Paisner 1 THE WITNESS: CAK-9. This is 257. 2 BY MS. GARKEN: 3 O. Yes. This data request refers to your robuttal 4 testimony page 4, line 19, where you characterize the 5 AMR obsolescence by describing PSE's need to partor 6 reprogramming of devices because different network 7 equipment must be installed. 8 You discuss how in 2017, which you describe is 9 the last full year before AMI meters, gas modules, are 10 installed. 11 were reprogramming of all of 39 AMR devices that 12 A Yeab, that was responsive to the question. 13 Right. 14 And you explain here that the total cost for 15 that reprogramming of all of 2017 was \$139,000; is that 16 correct? 11 and you explain here that the AMR electric meters 12 A CAK4. Page - 13 O. Okay. So please turn to PSE Exhibit CAK-4 at 19 page 4. Starting at line 13. 10 -A. (Ine 13. 12 A CAK4. Pag		Page 288	<u> </u>	Page 290
1 THE WITNESS: CAK-9. This is 257. 1 you state that because the AMR network is falling and 2 BY MS. GAFKEN. 1 you state that because the AMR network is falling and 3 C. Yes. This data request refers to your rebuttal 1 deficient it requires 0- to 60.000 meters to be a manually read northly, which is an additional monthly 4 Mark obsolescence by describing PSE's need to perform 6 A. Yeah. The 50- to 60.000 was a historical 7 equipment must be installed. 0 Okay. And you also state in the last parsgraph 9 the last full year before AMI meters, gas modules, are 0 Okay. And you also state are is that correct? 12 A. Yeah, that was responsive to the question. 1 2 A. That's what the response says. 13 C. Right. 1 So Lindis-Gyr was obligated to provide 14 And you explain here that the total cost for 1 1 So Lindis-Gyr was obligated to provide 15 barree 2 A. That's what the response says. 1 2 14 And you explain here that the total cost for 1 3 2 14 and sequipmentia		-		
 2 BY MS. GAFKEN: 2 deficient it requires 50- to 60,000 meters to be 3 C. Yos. This data request refers to your robuttal 4 settimory page 4, line 19, where you characterize the 4 MR obcolescence by describing PSE's need to perform 5 ARR obcolescence by describing PSE's need to perform 5 and R obcolescence by describing PSE's need to perform 5 and R obcolescence by describing PSE's need to perform 5 and R obcolescence by describing PSE's need to perform 6 and You explain here these are different network 6 and You explain here that the total cost for 1 A ray ou explain here that the total cost for 1 A ray ou explain here that the total cost for 1 A ray ou explain here that the total cost for 1 A ray ou explain here that the total cost for 1 A ray ou explain here that the total cost for 1 A ray ou explain here that the total cost for 1 A ray ou explain here that the total cost for 2 A CAK-4. Page - 2 A CAK-4. Page - 2 and the dupment, managed the system for us. 3 C Adar String at Ino 13. 3 A cak-4. Page - 2 and the 13. 3 and ray ou explain here that the AMR electric meters were 4 failing at a rate of 1.6 percent per year? 2 Area. The system for us. 3 aliaive raise of the explored by a document of their system. The yes managed it. 3 and ray of the explored by a document of their system. The yes managed it. 3 anary raise of the explored by a document performing 3 anary raise of the explored by a document performing. 4 and you explain here that the AMR electric meters were 4 failing at rate of 1.6 percent per year? 2 Ares. 9 anary the expland at and commercial as well as	1		1	
3 0. Yes. This data request refers to your rebuttal 3 manually read monthly, which is an additional monthly 4 testimony page 4, line 19, where you charactorize the 4 expense that would not be required for a properly 5 AMR obscience by describing PSE's need to perform 6 A. Yesh. The 50-to 60,000 was a historical 7 equipment must be installed. 7 average of what PSE had experienced in the past. 9 the last full year before AMI meters, gas modules, are 9 of your response in this document that PSE would have 10 installed, there wore a total of 139 AMR devices that 11 automated read or a manual read; is that correct? 12 A. Yeah, that was responsive to the question. 13 A. Right. 12 A. That's what the response says. 15 Confirm the cost of this. And at the time of the 14 Correct? 10 -4. (Ine 13.) 20 A. CAK-4. Page - 21 All the equipment, managed the system for us. 15 A cark-4. Page - 21 All the equipment, managed the system for us. 23 nerguipment, managed the system for us. 16 there that the 2013 analysis discussed 23 All the equipment, managed the system for us. 24 All th			T	
4 testimony page 4, line 19, where you characterize the 5 MRR obsolescence by describing PSE's need to perform reprogramming of devices because different network 7 4 expense that would not be required for a properly 5 functioning system. 8 You discuss how in 2017, which you describe is 9 6 A. Yeah. The 50- to 60,000 was a historical 7 9 the last lull year before AMI meters, gas modules, are 10 10 6 A. Yeah. The 50- to 60,000 was a historical 7 10 installed, there were a total of 139 AMR devices that 11 were reprogrammed; is that correct? 11 2 A. Yeah, that was response to the question. 12 A. That's what it says, but l'hink li heed to 13 0. Right. 16 correct? 14 And you explain here that the total cost for 15 50 I think the question was - let me go back. 17 A. That's what it says. but l'hink li heed to 13 0. Char, A. gage - 20 10 A. Orker, So plases turn to PSE Exhibit CAK-4 at 14 16 50 Linkit we question was - let me go back. 12 A. Fak. The response goes on to tak about what 12 21 A. That's what it says. but l'hink li heed to 13 14 14 failing at a rate of 16, percent per year? 21 14 14 14 failing at a rate of 16, perc	2		2	
5 AMR obsolescence by describing PSE's need to perform 5 functioning system. 6 requipment must be installed. 6 A. Yeah. The 50- to 60.000 was a historical 9 the last full year before AMI meters, gas modules, are reporgrammed, is that correct? 6 A. Yeah. The 50- to 60.000 was a historical 10 installed, there were a total of 139 AMR devices that 9 paid the same to Landis-Gyr whether they provided an annual read; is that correct? 12 A. Yeah, that was responsive to the question. 1a automated read or a manual read; is that correct? 13 A. Right. 1a sol think the question was let me go back. 14 Sol think the question was let me go back. 15 Confirm the cost of this. And at the time of the 14 Sol Landis-Gyr was obligated to provided an appropriate adequate reads intespective of whether it. 1a Bo Landis-Gyr was obligated to provide an appropriate adequate reads intespective of whether it. 14 Sol Landis-Gyr was obligated to provide an appropriate adequate reads intespective of whether it. 1a Sol Landis-Gyr was obligated to provide an appropriate adequate reads intespective of whether it. 14 Sol Landis-Gyr was obligated to provide an appropriate adequate reads intespective of whether it. 1a Landis-Gyr wasobligated to provide an appropriate adequate reads intes	3	Q. Yes. This data request refers to your rebuttal	3	manually read monthly, which is an additional monthly
6 reprogramming of devices because different network 6 A Yeah. The 50- to 60,000 was a historical 7 equipment must be installed. 7 average of what PSE had experienced in the past. 9 the last full year before AMI meters, gas modules, are 0 0 10 installed, there were a total of 139 AMR devices that 10 0 11 were reprogrammed; is that correct? 12 A. Yash, that was responsive to the question. 13 average of what PSE had experienced in the provide and and the time provide and and the time of the 12 A. Yash, that was response says. 12 A. That's what the response says. 13 Christ what the response says. 13 Q. Okay. So please turn to PSE Exhibit CAK-4 at 18 So Landis-Gyr was obligated to provide 14 page 4. Starting at line 13. 12 at Arter Stemage different, the manual read; te that correct? 12 A. CAK-4. Page - 12 12 it was their system. They managed it. 15 bers, PSE discovered that the AMR electric meters were 21 feage 280 Cathy Koch by Ms. Paisner 12 a ves. Feage 280 Cathy Koch by Ms. Paisner 1 13 automated were have dis	4	testimony page 4, line 19, where you characterize the	4	expense that would not be required for a properly
7 everage of what PSE had experienced in the past. 8 You discuss how in 2017, which you describe is the last full year bofors AMI meters, gas modules, are limited, there were a total of 139 AMR devices that 0 10 installed, there were a total of 139 AMR devices that 10 11 were roprogrammed; is that correct? 11 2 A. Yeak, that was responsive to the deuestion. 12 13 Q. Right. 13 14 And you explain here that the total cost for 14 15 that reprogramming for all of 2017 was \$139,000; is that 15 16 correct? 13 So I fink the question was not to 2016, Landis+Gyr wored in us, 12 17 A. That's what the response says. 17 all the equipment, managed the system for us. 18 Q. Okay. So please turn to PSE Exhibit CAK-4 at 19 apporpriate adequate reads insepactive of whether it 10 -4. Line 13. 12 came through digital or whether it came through manual. 11 -4. Jine 13. 12 stature atte of 1. Borcent per year? 12 A that same spot, I believe you discuss that 16 stature atte of 1. Borcent per year? 14 failing at atot of 1. Borcent per year?	5	AMR obsolescence by describing PSE's need to perform	5	functioning system.
9 You discuss how in 2017, which you describe is 9 0. Okay. And you also state in the last paragraph 9 the last full year before AMI meters, gas modules, and 10 or your response in this document that PSE would head 11 were reprogrammed; is that correct? 11 A. Yeah, that was responsive to the question. 12 A. That's what that swell. 12 A. Yeah, that was responsive to the question. 12 A. That's what the response says. 12 A. That's what the response says. 13 C. Right. 14 So I think the question was ~- let me go back. 14 So I think the question was ~- let me go back. 15 Chaffm the cost of this. And at the time of the 14 So I and yeas classe turn to PSE Exhibit CAK-4 at 19 page 4. Strating at line 13. 12 approprise adequate reads irrespective of whether it 14 A. CAK-4. Page - 20 came through digital or whether it came through manual. 15 that the that the 2013 analysis discussed 13 angolations, PSE, in the business case and the 14 failing at a reat of 1.6 percent per year? 24 testimony talks about this. PSE tookownership of that 15 hat areas oft. Is percent per year? 24 testimony	б	reprogramming of devices because different network	6	A. Yeah. The 50- to 60,000 was a historical
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	Page 292		Page 294
	Cathy Koch by Ms. Paisner		Susan Free and Ms. Koch by Ms. Paisner
1	A. Are any of the assets in	1	Q. Okay. Thank you.
2	Q. Represented by those values.	2	How long were the value of those AMR assets
3	A. Well, this is forward-looking. So today, yes,	3	still be in rates that the customers will pay? You may
	they are.	4	have answered that.
5	Q. In those years will they be in use?	5	A. That would be dealt with when the regulatory
6	A. Well, this is 2023 is when we are completed	6	asset is requested. So regulatory assets can be
7	with our AMI transition. And so all AMR assets will be	7	recovered over it doesn't have to be a set life; it
8	retired.	8	can be determined at the time of the request.
9	Q. So those values at least for 2023 represent	9	CROSS-EXAMINATION
10	assets that are not in use; is that correct?	10	BY MS. PAISNER
11	A. Correct. No AMR will be in use after we	11	Q. Okay. These the AMR assets removed, as of
12	complete our transition.	12	today and also going forward, were or will any of these
13	Q. Okay. Is the net book value of these assets as	13	assets be still functional when they are removed?
14	shown in this exhibit still in rates now?	14	A. Well, I think the bulk of them might not be,
15	A. I'm per this response is with my	15	because the system's failing. So there's likely some
16	witness/partner Susan Free, so as it relates to rates, I	16	that would still be providing an automated read.
17	would like to get a better answer.	17	But due to the need to transition in an
18	MS. FREE: I'm happy to answer that	18	appropriate time and prevent more failure from impacting
19	question, if that's okay.	19	customers, some likely will be.
20	JUDGE PEARSON: Sure.	20	Q. Okay. Now, please turn to cross Exhibit
21	MS. FREE: Can you repeat the question	21	CAK-12X. This is your response to Public Counsel data
22	actually?	22	request 267.
23	CROSS-EXAMINATION	23	A. Okay.
24	BY MS. PAISNER:	24	Q. In this exhibit, you discuss how PSE was limited
25	Q. Sure. Is the net book value of the assets that	25	in terms of equipment choices in that other
	D 000	-	
	Page 293		Page 295
	Page 293 Susan Free by Ms. Paisner		Page 295 Ms. Koch by Ms. Paisner
1	C C	1	-
	Susan Free by Ms. Paisner	1 2	Ms. Koch by Ms. Paisner
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2	Susan Free by Ms. Paisner are referenced in this exhibit, is the net book value of these assets still rates now?	2	Ms. Koch by Ms. Paisner manufacturers' equipment was incompatible with the AMR system; is that correct?
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	Page 296		Page 298
	Ms. Koch by Ms. Paisner		Ms. Koch by Ms. Paisner
1	to where that is in her testimony?	1	So let me just explain what this table is just
2	MS. GAFKEN: Sure. This is in Exhibit	2	so we understand.
3	CAK-12X, on the second page. Ms. Koch discusses that	3	So this this is a very simple table. It is
4	PSE would need to replace the L+G communication	4	not a full analysis. But what it was attempting to do
5	equipment system with regard to if they were to	5	is demonstrate that the benefits that are achieved with
6	consider solutions that were not compatible with the	6	AMI far outweigh, continue to outweigh, continuing with
7	current AMR system.	7	an AMR system.
8	And so my questioning was designed to	8	And, specifically, in this case, this comparison
9	clarify that.	9	has gross assumptions that we could continue an AMR
10	MS. KOCH: So because the I don't know	10	system. And given what we know today and lack of
	that I understand your question the way it was phrased,	11	supply, that's not realistic.
11	in all honesty.		But it was really just intended to continue
12	•	12	
13	But what this is trying to say is PSE's	13	to to address what I perceived Mr. Alvarez was trying
14	existing system, which dates back to 1998, is a	14	to get to in his questions around book value. But to
15	proprietary system from Landis+Gyr and it is not	15	continue to demonstrate that the benefits of getting to
16	compatible with anybody else's system, which is what is	16	AMI are very sound.
17	posing concerns with it failing.	17	Q. Okay. Is it true that PSE's AMI deployment
18	So given that it's not compatible, a	18	installs approximately 1,000 meter units per circuit?
19	wholesale change must be made. The idea of replacing it	19	A. Say that again.
20	wholesale with another vender's AMR system or an AMI	20	Q. Is it true that PSE's AMI system deployment
21	system would be equivalent.	21	would install approximately 1,000-meter units per
22	BY MS. PAISNER:	22	circuit?
23	Q. Okay. Thank you.	23	A. I think the numbers
24	Please turn to page 2 of cross Exhibit CAK-14X,	24	Q. You would have to check?
25	which is Public Counsel data request 270. Your	25	A. Yeah. I don't know. I think it's a higher
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	Page 297		Page 299
	Page 297 Ms. Koch by Ms. Paisner		Page 299 Ms. Koch by Ms. Paisner
1	-	1	Ms. Koch by Ms. Paisner
1 2	Ms. Koch by Ms. Paisner	1 2	Ms. Koch by Ms. Paisner
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2	Ms. Koch by Ms. Paisner response. A. 270?	2	Ms. Koch by Ms. Paisner number than that. Q. Did PSE assume a percentage reduction in energy
2 3 4	Ms. Koch by Ms. Paisner response. A. 270? Q. 270. In your response you provide a table	2 3	Ms. Koch by Ms. Paisner number than that. Q. Did PSE assume a percentage reduction in energy use from CVR in its business case?
2 3 4 5	Ms. Koch by Ms. Paisner response. A. 270? Q. 270. In your response you provide a table preparing costs of the AMI system versus those of	2 3 4	Ms. Koch by Ms. Paisner number than that. Q. Did PSE assume a percentage reduction in energy use from CVR in its business case? A. We did. Q. And is it true that in the Mercer Island pilot a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Ms. Koch by Ms. Paisner response. A. 270? Q. 270. In your response you provide a table preparing costs of the AMI system versus those of continuing of the AMR system. And on the fifth row you provide a benefits value of \$436 million for the AMI versus zero dollars for the AMR. Does this \$436 million amount refer to conservation voltage reduction or CVR? A. Yes. It's associated with conservation voltage reduction and the ability to implement distribution automation from a reliability standpoint using the AMI network. Q. Okay. So is it true that looking at the table, the cost of the AMI system would be closer to the cost amount listed for continuing with the AMR if that value was not subtracted from a cost calculation listed in the table? A. So in interpreting your question meaning is 473 closer to 378 off the table; is that what you are asking? Q. It looks in the table as though that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Ms. Koch by Ms. Paisner number than that. Q. Did PSE assume a percentage reduction in energy use from CVR in its business case? A. We did. Q. And is it true that in the Mercer Island pilot a similar percentage was delivered with only 30 AMI meters on 10 circuits? A. No. Actually, the business case estimates are much higher than that. And they actually line up with what industry utilities are seeing. And they were based on more than just the Mercer Island pilot. They were based on four or five additional pilots that were performed. Q. Okay. Do you know what a line sensor is? A. Yes. Q. Is it true that a line sensor functions to measure and report voltage? A. It can be used that way. Q. So does PSE system use line sensors today? A. It has some. Q. Okay. Now, please turn to cross Exhibit CA A. Can I offer something, though, on that though?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Ms. Koch by Ms. Paisner response. A. 270? Q. 270. In your response you provide a table preparing costs of the AMI system versus those of continuing of the AMR system. And on the fifth row you provide a benefits value of \$436 million for the AMI versus zero dollars for the AMR. Does this \$436 million amount refer to conservation voltage reduction or CVR? A. Yes. It's associated with conservation voltage reduction and the ability to implement distribution automation from a reliability standpoint using the AMI network. Q. Okay. So is it true that looking at the table, the cost of the AMI system would be closer to the cost amount listed for continuing with the AMR if that value was not subtracted from a cost calculation listed in the table? A. So in interpreting your question meaning is 473 closer to 378 off the table; is that what you are asking? Q. It looks in the table as though that \$436 million was subtracted from the other costs due to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Ms. Koch by Ms. Paisner number than that. Q. Did PSE assume a percentage reduction in energy use from CVR in its business case? A. We did. Q. And is it true that in the Mercer Island pilot a similar percentage was delivered with only 30 AMI meters on 10 circuits? A. No. Actually, the business case estimates are much higher than that. And they actually line up with what industry utilities are seeing. And they were based on more than just the Mercer Island pilot. They were based on four or five additional pilots that were performed. Q. Okay. Do you know what a line sensor is? A. Yes. Q. Is it true that a line sensor functions to measure and report voltage? A. It can be used that way. Q. So does PSE system use line sensors today? A. It has some. Q. Okay. Now, please turn to cross Exhibit CA A. Can I offer something, though, on that though? Q. Sure.
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		1	
	Page 300		Page 302
	Ms. Koch by Ms. Paisner		Ms. Koch by Mr. Steele
1	we gain with the AMI installation relative to being able	1	MS PAISNER: Thank you. I don't have any
2	to implement conservation voltage reduction. But that's	2	other questions.
3	not the only that's not why we're doing it.	3	JUDGE PEARSON: Thank you.
4	We're doing it so we can have a reliable	4	Is there anyone else have questions any
5	metering system that as a result of the fail the	5	redirect?
6	failing system, which requires reliable, fully function	6	MR. STEELE: Yes, Your Honor.
7	meters at every house.	7	JUDGE PEARSON: Okay.
8	Once that's achieved, you can continue to take	8	REDIRECT EXAMINATION
9	advantage of that. So I just want to make sure that	9	BY MR. STEELE:
10	that's it's clearly understood.	10	Q. Ms. Koch, a few moments ago Ms. Paisner asked
11	Q. Please turn to cross Exhibit CAK-15X, which is	11	you questions about the discontinuance documents you
12	your response to Public Counsel data request 274.	12	received from Landis+Gyr which were attached to PSE's
13	A. Yes.	13	response Public Counsel data request 256.
14	Q. Your DR response at Item V discusses how PSE is	14	A. Yes.
15	not willing to commit to reductions in a revenue	15	Q. And can you describe the process for how the
16	requirement for benefits from AMI investment associated	16	company receives a notice of discontinuance from
17	with remote disconnect and reconnect, because as you	17	Landis+Gyr?
18	state certain benefits are not quantifiable at this	18	A. So Landis+Gyr has been PSE's partner for over a
19	time.	19	decade and there's continual ongoing conversations with
20	A. Yeah, I think that the the full answer	20	them. PSE also attends their annual user group
21	addresses the the issue that there's AMR rulemaking	21	meetings. And through those there are many
22	going on which may have influence on those benefits.	22	conversations around Landis+Gyr products and future
23	And it's hard to know how to quantify those at that time	23	sunsetting. When Landis+Gyr finalizes that, they
24	and submit what that full benefit may be.	24	publish the documents as a final notice.
25	My partner, Josh Jacobs, who these benefits fall	25	But before that, PSE has lots of opportunities
	Page 301		Page 303
1	Ms. Koch by Ms. Paisner		Ms. Koch by Mr. Steele
1	Ms. Koch by Ms. Paisner under relative to Get To Zero could offer, if necessary.	1	Ms. Koch by Mr. Steele to understand what the life of its products are.
1 2	-	1 2	-
	under relative to Get To Zero could offer, if necessary.	_	to understand what the life of its products are.
2	under relative to Get To Zero could offer, if necessary. Q. I don't think that will be necessary.	2	to understand what the life of its products are. Q. So to be clear, does the company ever know that
2 3	under relative to Get To Zero could offer, if necessary. Q. I don't think that will be necessary. A. Okay.	2	to understand what the life of its products are. Q. So to be clear, does the company ever know that a discontinuance is coming before receiving a document
2 3 4	 under relative to Get To Zero could offer, if necessary. Q. I don't think that will be necessary. A. Okay. Q. Are reconnect and disconnect cost benefits 	2 3 4	to understand what the life of its products are. Q. So to be clear, does the company ever know that a discontinuance is coming before receiving a document like Attachments A, B, C, and E to to PSE's response
2 3 4 5	 under relative to Get To Zero could offer, if necessary. Q. I don't think that will be necessary. A. Okay. Q. Are reconnect and disconnect cost benefits estimated in CAK-4, Attachment G? 	2 3 4 5	to understand what the life of its products are. Q. So to be clear, does the company ever know that a discontinuance is coming before receiving a document like Attachments A, B, C, and E to to PSE's response to Public Counsel data request 256?
2 3 4 5 6	 under relative to Get To Zero could offer, if necessary. Q. I don't think that will be necessary. A. Okay. Q. Are reconnect and disconnect cost benefits estimated in CAK-4, Attachment G? A. The AMI business case, which is yes, does 	2 3 4 5 6	to understand what the life of its products are. Q. So to be clear, does the company ever know that a discontinuance is coming before receiving a document like Attachments A, B, C, and E to to PSE's response to Public Counsel data request 256? A. Absolutely. Through many users groups,
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	Page 304	Page 306
	Joshua Jacobs by Ms. Gafken	Susan Free by Mr. Roberson
1	Q. Good afternoon, Mr. Jacobs.	
1	A. Good afternoon.	
2		2 Q. Are you aware that the Commission has rejected
3	Q. Would you please turn to your rebuttal testimony	3 that method as ripe for abuse?
4	Exhibit JJJ-11T. If you could go to page 24, line 17	4 A. I am not.
5	through 19.	5 Q. We'll move on then.
6	MR. STEELE: Could you state that once more	6 Page 34 and 35 of your rebuttal testimony, you
7	for me?	7 talk about changes to the method for Seth's method
8	MS. GAFKEN: Yes, of course. Exhibit	8 for setting a threshold for a common plant; correct?
9	JJJ-11T, page 24 line 17 through 19.	9 A. Yes.
10	MR. STEELE: Is that page 4?	10 Q. And this is just for my clarification.
11	MS. GAFKEN: Twenty-four.	11 The way you recommend doing it, the size of the
12	MR. STEELE: Twenty-four, I'm sorry.	12 net plant for gas will always drive the threshold;
13	MR. JACOBS: I'm there.	13 correct?
14	BY MS. GAFKEN:	14 A. I I don't necessarily think that that's true.
15	Q. There you testify that PSE has invested in	15 I think it depends on the allocation factors that are
16	17.5 million in the Get To Zero program between July 1st	
17	and November 30th, 2019; is that correct?	17 Q. Fair enough.
18	A. That's correct.	18 Under the current allocation factors, it's
19	Q. And then on the following page, page 25.	19 always going to be the gas rate base, correct?
20	Essentially, the entire page lines 4 through 21 you	20 A. In this example I've provided; that's right.
21	describe two projects; the energy assistance and meter	21 Q. Do those allocation factors change on a regular
22	upgrade enhancements projects.	22 basis?
23	Did those two projects make up the entire	A. They they are looked at once a year and
24	17.5 million described on page 24?	24 they they are derived for every rate case.
25	A. That's correct.	Q. Okay. How are the allocation factors derived?
	Page 305	Page 307
	Page 305 Susan Free by Mr. Roberson	Page 307 Susan Free by Mr. Roberson
1	C C	-
1 2	Susan Free by Mr. Roberson	Susan Free by Mr. Roberson
	Susan Free by Mr. Roberson MS. GAFKEN: Thank you. I have no further	Susan Free by Mr. Roberson1A. This particular allocation factor that's used to2allocate plant is called the four factor allocator, and3it contains four metrics that are used to determine
2	Susan Free by Mr. Roberson MS. GAFKEN: Thank you. I have no further questions.	Susan Free by Mr. Roberson 1 A. This particular allocation factor that's used to 2 allocate plant is called the four factor allocator, and
2 3	Susan Free by Mr. Roberson MS. GAFKEN: Thank you. I have no further questions. JUDGE PEARSON: Any redirect?	Susan Free by Mr. Roberson1A. This particular allocation factor that's used to2allocate plant is called the four factor allocator, and3it contains four metrics that are used to determine
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	Susan Free by Mr. Roberson		Susan Free by Mr. Roberson
1	A. No, I'm not.	1	bunch of indiscriminate stuff in there and then seek a
2	I would say that the program is a collection of	2	single pro forma adjustment like you did here?
3	projects that when taken together you can derive	3	A. I don't think PSE would do that.
4	benefits out of implementing them and managing them	4	Q. But it could be under the theory that your
5	together as one program.	5	espousing; right?
6	Q. So a program consists of sub projects?	6	A. I don't think that I think, in the policy
7	A. Correct.	7	statement that just came out, that I don't know a lot
8	Q. And in Get To Zero's case, those those	8	about. But it does envision programmatic spending and
9	projects are aimed at different things; correct?	9	it envisions, you know, identification of that in the
10	Some of them are aimed at billing. Some of them	10	beginning and look back on it after the spending
11	are aimed at customer interface. Some at PSE's	11	happens. And so I don't think there would be a lot of
12	workflow, things like that. Correct?	12	opportunity for that kind of treatment.
13	A. I'm not the witness to tell you about what the	13	Q. But the programmatic spending envisioned there
14	projects are. I would say at a high level they are	14	is something like it would pull a replacement project;
15	aimed at transforming the customer experience and it is	15	correct? Where PSE every year is replacing wood poles
16	all customer-facing.	16	as part of a single project.
17	Q. If one of them is PSE workflow or data	17	A. That is the example that was given in the policy
18	analytics, how is that customer-facing?	18	statement. But I believe it was also indicated it would
19	That's probably not a fair question for you.	19	be flexible as to what it would treat as a program.
20	Never mind.	20	Q. Okay. Well, just more generally, I guess I'm
21	The Get To Zero projects that we're concerned	21	looking for the limiting principle.
22	with here, they started going into service in 2016,	22	If PSE can amalgamate a bunch of projects, how
23	thereabouts?	23	is the Commission to decide whether or not it's properly
24	A. I'm not that sounds correct. I don't know	24	one project or many projects?
25	the exact.	25	A. I think it can be taken on a case-by-case basis.
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	Susan Free by Mr. Roberson		Susan Free by Mr. Roberson
1	Q. And they are going to go into service for the	1	I don't think that PSE would ever bring so many programs
2	foreseeable future of 2021-ish?	2	that it wouldn't be something that could be focused on
3	A. Yes.	3	and decided.
4	Q. So they are going into service over a five-year	4	Q. But it could?
5	span?	5	A. I I don't think it would.
6	A. Correct. I think that's a little different than	6	Q. Okay. In a similar vein, on page 33 and 39 of
7	you've seen in PSE's capital portfolio in the past, I	7	your testimony, you seem to suggest that the Get To Zero
8	think it used to be that we could a lot of our	8	project should be incorporated in rates because
9	projects that we pro form into a rate case, with like a	9	collectively they are material.
10	plant, would have one in-service date.	10	Is that a fair statement of your testimony?
11	But the spending pattern is different now and	11	A. Yes, it is.
12	these projects you can't hold them all up together until	12	Q. If the major plant standard is there to limit
13	a certain point. They need to be deployed in a series	13	the number of projects that parties have to consider
14	so that they can leverage off of each other.	14	after the test year, doesn't kind of grouping them
15	Q. Okay. So if they are hypothetically aimed at	15	together defeat the purpose of that standard?
16	different things and they go into service over a	16	A. I don't really I don't really see that
17	five-year span of time, the only thing tying them	17	there's a hard standard.
18	together is the fact that PCE grouped them into the Get	18	So I think that that looking on a
19	To Zero program; correct?	19	programmatic basis is appropriate if it's material to
20	A. I think that again, I don't think I'm the	20	the company.
21	witness to speak to that. But I do know that the Get To	21	Q. There is a standard there; correct? A major
22	Zero program is driven by business needs. It's looked	22	plant standard.
22	at in terms of an objective and it's not an	23	A. I don't I don't read the guidance that way.
24	indiscriminate combination of projects.	24	I I read the guidance to say that there it's
24 25	Q. Okay. Could PSE create a project and dump a	24 25	specific to the cases that the order was was
20	a. Shay. Sould i Se cleate a project and dump a	40	

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	Susan Free by Mr. Pepple		Susan Free by Mr. Pepple
1	provided.	1	it has the same impact as including them in the rate
2	Q. But the Commission over and over again has said	2	
3	pro forma plant adjustments should meet some reasonable	3	Q. And do you do you, by any chance, have
4	definition of major; correct?	4	Mr. Mullins' cross-answering exhibits?
5	A. Yes. It's also said other things, like, if it's	5	A. Over there.
6	material to the company and a certain impact to their	6	Q. I have some copies. I'm happy
7	financials that it can be considered.	7	I'm looking at Exhibit 13C. And I have copies
8	Q. Okay. So in PSE's view of the law, anything	8	for others.
-	that's material is subject for inclusion in rates of pro	-	And this is a confidential exhibit, but I'm
9		9	
10	forma adjustment?	10	going to keep my questions nonconfidential.
11	A. I don't know if that's the only consideration.	11	A. I do have it. Thank you.
12	I do in terms of what we put forth as pro forma	12	Q. So in your rebuttal testimony you identified
13	adjustments, I believe we followed Commission guidance.	13	several errors that Mr. Mullins made in his rebuttal
14	MR. ROBERSON: Okay. I think I have no	14	his response testimony in calculating the Colstrip plant
15	further questions. Thank you.	15	balances.
16	JUDGE PEARSON: Okay. Any redirect?	16	Do you recall that?
17	MS. CARSON: No, Your Honor.	17	A. Yes.
18	JUDGE PEARSON: Okay. And AWEC?	18	Q. Okay. And so can you turn so this exhibit
19	CROSS-EXAMINATION	19	updates Mr. Mullins' calculations
20	BY MR. PEPPLE:	20	A. Yes.
21	Q. Good afternoon, Ms. Free.	21	Q after he was provided with certain
22	A. Good afternoon, Mr. Pepple.	22	corrections and supplements that PSE provided.
23	Q. I had some questions for you about Colstrip.	23	So if you turn to page 1 of that exhibit.
24	Could you turn to your Exhibit SEF-29?	24	CHAIRMAN DANNER: What exhibit are we
25	A. I'm there.	25	talking about?
-	D 040		
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	Page 313 Susan Free by Mr. Pepple		Page 315 Susan Free by Mr. Pepple
1		1	0
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	Page 316	Page 318
	Susan Free by Mr. Pepple	Susan Free by Mr. Pepple
1	reduction. Correct?	
1		
2	A. Correct.	2 as well you would see the impacts that I show on this
3	Q. Okay. And then page 2 of this exhibit, this is	3 page.
4	a different scenario where again the Colstrip 1 and 2	4 Q. So so I think it was it's your testimony
5	plant balances are calculated as of the end of 2019, but	5 that moving the Colstrip plant balances to December of
6	now it's offset with PTCs that were monetized on PSE's	6 2019, is itself a pro forma adjustment?
7	2018 tax return which was filed in September of 2019;	7 A. Yes.
8	correct?	8 Q. So how come those pro forma adjustments aren't
9	A. That's correct.	9 included on page 1 of SEF?
10	Q. Okay. And this scenario has on line 18, it	10 A. If they were, it would result in a revenue
11	says, "Include ADF IT on monetized PTCs." And there's a	11 requirement increase.
12	number of about 17.3 million.	12 Q. Well, there's a revenue requirement increase on
13	Do you see that?	13 page 2 of SEF.
14	A. Ido.	14 A. Yes. So I think that I was tying the pro forma
15	Q. Can you just explain what that is? Why is there	15 adjustments to the PTC treatment.
16	ADF IT on monetized PTCs?	16 Q. Okay.
17	A. That would be a better question for	17 A. But I do believe it's appropriate that they
18	Mr. Marcelia.	18 could be also considered for the regulatory asset
19	Q. Okay. I will hold that question for him then.	19 treatment being moved to December 2019.
20	Maybe one other follow-up question on this and	20 Q. Okay. And okay. So then just to close the
21	you can take it to Mr. Marcelia if you need to. But do	21 exhibit out, page 3 is another scenario. And this
22	you know if that deferred tax asset, if PSE is holding	22 scenario is if the Commission accepted Mr. Mullins'
23	it in rate base?	23 proposal in full, which is that PTCs are monetized when
24	A. I believe that it's either in working capital or	24 Puget uses them on an estimated tax payment rather than
25	rate base. I'm not exactly sure.	25 when they are included on an annual tax payment.
		Page 319
1	Page 317	Fage 318
	Susan Free by Mr. Pepple	Susan Free by Mr. Pepple
1		_
1 2	Susan Free by Mr. Pepple	Susan Free by Mr. Pepple
	Susan Free by Mr. Pepple Q. Okay. But PSE is earning a return on that tax	Susan Free by Mr. Pepple 1 So this includes additional PTCs because Puget
2	Susan Free by Mr. Pepple Q. Okay. But PSE is earning a return on that tax asset. Do you understand that?	Susan Free by Mr. Pepple So this includes additional PTCs because Puget included PTCs in 2019 estimated taxes. Is that your
2 3	Susan Free by Mr. Pepple Q. Okay. But PSE is earning a return on that tax asset. Do you understand that? A. I'm not I'm not sure.	Susan Free by Mr. Pepple So this includes additional PTCs because Puget included PTCs in 2019 estimated taxes. Is that your understanding?
2 3 4	Susan Free by Mr. Pepple Q. Okay. But PSE is earning a return on that tax asset. Do you understand that? A. I'm not I'm not sure. Q. Is that something Mr. Marcelia would know?	Susan Free by Mr. Pepple 1 So this includes additional PTCs because Puget 2 included PTCs in 2019 estimated taxes. Is that your 3 understanding? 4 A. That's my understand of Mr. Mullins' position,
2 3 4 5	Susan Free by Mr. Pepple Q. Okay. But PSE is earning a return on that tax asset. Do you understand that? A. I'm not I'm not sure. Q. Is that something Mr. Marcelia would know? A. No, it is not.	Susan Free by Mr. Pepple 1 So this includes additional PTCs because Puget 2 included PTCs in 2019 estimated taxes. Is that your 3 understanding? 4 A. That's my understand of Mr. Mullins' position, 5 yes.
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	Page 320		Page 322
	Susan Free by Mr. Pepple		Margaret Hopkins by Commissioner Balasbas
1	and 2 to a regulatory asset?	1	all the various IT investments at PSE and maybe provide
2	A. Correct.	2	some specific examples of both project and executive
3	Q. That's all my questions.	3	oversight.
4	JUDGE PEARSON: Thank you.	4	MR. TAYLOR: Certainly. So in terms of the
5	Any redirect?	5	level of coordination, all of the IT investments stem,
6	MS. CARSON: No, Your Honor.	6	first and foremost, from a business strategy.
7	JUDGE PEARSON: Okay. Questions from the	7	So when we're planning for a five-year
8	bench?	8	planning exercise, all of the officers are involved in
9	Okay. So we're going to go ahead and take a	9	discussions with respect to priorities for the company
10	recess now before we continue. Yes, we'll come back	10	as they relate to customer need, business need,
11	with this panel. Ten minutes. Okay. So we'll take a	11	reliability, et cetera.
12	10-minute recess.	12	And so once the business proprietaries are
13	(A recess was taken from 3:24 p.m. to 3:39 p.m.)	13	established from that flows a conversation of whether or
14	JUDGE PEARSON: We'll be back on the record	14	not there's technology associated with meeting that
15	following the recess. In just one moment we'll have	15	demand or that business need.
16	questions from the bench for the witnesses.	16	So as priorities are determined at that
17	MR. PEPPLE: Your Honor, one quick just	17	level, we then work inside of the IT organization to
18	before the questions from the Commission.	18	determine if there's a technology investment required to
19	PSE did confer during the break and Ms. Free	19	support, and we provide estimates initially in the
20	was able to get an answer to the one question I asked.	20	planning phase to place IT investments into the
21	Would it be possible for her to put that on	21	five-year plan.
22	the record?	22	Once they are in the plan and during a
23	JUDGE PEARSON: Absolutely.	23	calendar year, when we embark on you know, an IT
24	MR. PEPPLE: Should I ask the question	24	project, we go through a pretty rigorous process that we
25	again?	25	call it is a business case to some degree, but we
	Page 321		Page 323
	Susan Free by Commissioner Rendahl		Margaret Hopkins by Commissioner Balasbas
1	JUDGE PEARSON: That would be helpful, yes.	1	call it our "corporate spending authority." It's a CSA.
2	CROSS-EXAMINATION (Continued)	2	And it has multiple phases by which you determine the
3	BY MR. PEPPLE:	3	value of an investment.
4	Q. So the question was whether the deferred tax	4	And that CSA process is signed off by two
5	asset associated with monetized PTCs whether PSE was	5	officers, so there's a business officer, an executive
6	earning a return on it or not?	6	who puts forth the need, they sign off on this business
7	A. No, it is not a rate base.	7	case, and then I sign off on it as well. And it takes
8	Q. Okay. Thank you.	8	multiple levels of management review before it goes
9	COMMISSIONER RENDAHL: Can I just follow up	9	through each of the phases.
10	on that?	10	So there's quite a bit of analysis that goes
11	So I think your question is, is it earning a	11	into the early phases to determine the value, whether it
12	return just in rate base or whether it's investor	12	is something that we, if fact, want to do for the
13	supplied working capital or a regulatory asset, is it also earning a rate base in those?	13	company. Sometimes we assess multiple alternatives and determine that, in fact, maybe we should not proceed.
14	aroo earning a rate base in those :	14	So it it I would say that in every
15	MS_ERFE: It is not it is included in		oo it it i would say that in evely
10	MS. FREE: It is not it is included in	15	step of the process of a technology investment, we have
16 17	nonoperating, so it is not earning a return in any	16	step of the process of a technology investment, we have multiple levels of management reviewing the costs and
17	nonoperating, so it is not earning a return in any fashion.	16 17	multiple levels of management reviewing the costs and
17 18	nonoperating, so it is not earning a return in any fashion. COMMISSIONER RENDAHL: Thank you. Yes.	16 17 18	multiple levels of management reviewing the costs and the benefits and signing off on those throughout.
17 18 19	nonoperating, so it is not earning a return in any fashion. COMMISSIONER RENDAHL: Thank you. Yes. JUDGE PEARSON: Okay. Thank you.	16 17 18 19	multiple levels of management reviewing the costs and the benefits and signing off on those throughout. COMMISSIONER BALASBAS: So I can understand
17 18 19 20	nonoperating, so it is not earning a return in any fashion. COMMISSIONER RENDAHL: Thank you. Yes. JUDGE PEARSON: Okay. Thank you. COMMISSIONER BALASBAS: All right. This	16 17 18 19 20	multiple levels of management reviewing the costs and the benefits and signing off on those throughout. COMMISSIONER BALASBAS: So I can understand that process and analysis for a single IT investment.
17 18 19 20 21	nonoperating, so it is not earning a return in any fashion. COMMISSIONER RENDAHL: Thank you. Yes. JUDGE PEARSON: Okay. Thank you. COMMISSIONER BALASBAS: All right. This question is directed to Ms. Hopkins.	16 17 18 19 20 21	multiple levels of management reviewing the costs and the benefits and signing off on those throughout. COMMISSIONER BALASBAS: So I can understand that process and analysis for a single IT investment. But how does that or but then how how does the
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17 18 19 20 21 22 23	nonoperating, so it is not earning a return in any fashion. COMMISSIONER RENDAHL: Thank you. Yes. JUDGE PEARSON: Okay. Thank you. COMMISSIONER BALASBAS: All right. This question is directed to Ms. Hopkins. Good afternoon, Ms. Hopkins. MS. HOPKINS: Good afternoon.	16 17 18 19 20 21 22 23	multiple levels of management reviewing the costs and the benefits and signing off on those throughout. COMMISSIONER BALASBAS: So I can understand that process and analysis for a single IT investment. But how does that or but then how how does the analysis and management and oversight of each individual IT project then get coordinated with all the different
17 18 19 20 21 22 23 24	nonoperating, so it is not earning a return in any fashion. COMMISSIONER RENDAHL: Thank you. Yes. JUDGE PEARSON: Okay. Thank you. COMMISSIONER BALASBAS: All right. This question is directed to Ms. Hopkins. Good afternoon, Ms. Hopkins.	16 17 18 19 20 21 22	multiple levels of management reviewing the costs and the benefits and signing off on those throughout. COMMISSIONER BALASBAS: So I can understand that process and analysis for a single IT investment. But how does that or but then how how does the analysis and management and oversight of each individual

	Page 324		Page 326
	Margaret Hopkins by Commissioner Balasbas		Susan Free by Commissioner Balasbas
1	one project over here has to coordinate across to	1	into account as part of those reporting mechanisms.
2	another project.	2	So it would be difficult through that report
3	COMMISSIONER BALASBAS: Well, it's not just	3	to know if there is any duplication. But I would say
4	projects coordinating among themselves, but just from an	4	that I personally review every IT investment that goes
5	overall global standpoint within the company how how	5	through to a high degree of scrutiny, and I would have
6	do you and your division ensure that all of those IT	6	some insight into whether or not there's any
7	investments are being coordinated?	7	duplication. And to the best of my knowledge, I have
8	And which leads me to a related question	8	not uncovered a piece of duplication to date; especially
9	which is then how you know, given all the different	9	in the testimony we have in front of us.
10	accounting positions and other projects that are going	10	COMMISSIONER BALASBAS: It looks like
11	on at the company right now, how do we ensure that what	11	Ms. Free wants to jump in here on this answer, so I'll
12	we approve for purposes of rate recovery, rate payers	12	let Ms. Free do that.
13	are not double paying for investments or that we're not	13	MS. FREE: I think I can address the second
14	double counting investments for rate making.	14	part of the question.
15	MS. HOPKINS: Okay. So two-step question.	15	We thought about this actually quite a bit
16	I just want to break it down to two.	16	when we were filing the case, about the duplication,
17	So re-ask me the first one so I make sure I	17	because we have test year, we have pro forma, and we
18	hit that one and then I will re-ask me the second	18	have the attrition.
19	one	19	And so the way we chose to put it together
20	COMMISSIONER BALASBAS: So the first	20	to ensure there was no duplication is the we limited
21	question is on with all the different IT projects	21	the pro forma period to June, which is well before the
22	going on, not only coordination among multiple projects	22	attrition analysis starts.
23	if they're say, for instance, going after the same	23	We those projects we only included the
24	business strategy but also managing all of the different	24	rate year revenue requirement for those projects at
25	IT investments at the same time and coordinating all	25	June. And then the deferral was for projects that
	6		
-	Page 325		Page 327
	Page 325 Margaret Hopkins by Commissioner Balasbas		Page 327 Susan Free by Chairman Danner
1	Margaret Hopkins by Commissioner Balasbas	1	Susan Free by Chairman Danner
	Margaret Hopkins by Commissioner Balasbas those so that we then lead to the question of how do we	1	Susan Free by Chairman Danner qualified up into the beginning of the rate year.
2	Margaret Hopkins by Commissioner Balasbas those so that we then lead to the question of how do we make sure we're not double counting or layering all	2	Susan Free by Chairman Danner qualified up into the beginning of the rate year. And so there's no duplication. We made
2 3	Margaret Hopkins by Commissioner Balasbas those so that we then lead to the question of how do we make sure we're not double counting or layering all these investments and rate payers are not paying twice	2 3	Susan Free by Chairman Danner qualified up into the beginning of the rate year. And so there's no duplication. We made it if you think about it on a timeline, we just made
2 3 4	Margaret Hopkins by Commissioner Balasbas those so that we then lead to the question of how do we make sure we're not double counting or layering all these investments and rate payers are not paying twice for the IT investment.	2 3 4	Susan Free by Chairman Danner qualified up into the beginning of the rate year. And so there's no duplication. We made it if you think about it on a timeline, we just made sure that they were just stacked appropriately so that
2 3 4 5	Margaret Hopkins by Commissioner Balasbas those so that we then lead to the question of how do we make sure we're not double counting or layering all these investments and rate payers are not paying twice for the IT investment. MS. HOPKINS: Well, I guess to answer the	2 3 4 5	Susan Free by Chairman Danner qualified up into the beginning of the rate year. And so there's no duplication. We made it if you think about it on a timeline, we just made sure that they were just stacked appropriately so that they weren't double counted.
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1	Page 328		Page 330
	Joshua Jacobs by Commissioner Rendahl		Margaret Hopkins by Chairman Danner
1	MR. JACOBS: I think I do. So let me try it	1	To Zero is operating in Amazon web services in the
2	this way with an example.	2	cloud.
3	So our web redesign project, it was a	3	So the way we go are about determining
4	re-platform of our website and there were many different	4	whether or not a service is suitable for the cloud, is
5	parts to that. It was a large transformational project	5	first and foremost whether it can operate there. That's
6	that was the first web project in a series of a few web	6	the first question. Some can; some cannot.
7	projects for us.	7	The second question you have to ask is
8	So that went into service in the fall of	8	whether or not the cloud provider can operate it in a
9	2018 under an order number, and that order number was	9	secure manner.
10	closed when it went into service and was used in useful	10	The fact that we're a critical
11	for customers.	11	infrastructure, our cyber security requirements are so
12	As we look to build upon that platform with	12	stringent and so critical to the operation of the gas
13	new features and functions, we'll have new order numbers	13	and the electric system, if the cloud providers cannot
14	that represent the work associated with that business	14	meet the cyber security requirements, then we take a
15	case or corporate spending authorization and we will	15	position that we, first and foremost, will make sure
16	manage that work under that order number to represent	16	that the services are secure. That is a high priority
17	the work streams associated with that business case.	17	for us.
18	CHAIRMAN DANNER: All right. Let me ask	18	If it's a low priority system, then we may
19	this question, Ms. Hopkins.	19	provide some leniency there, but we we are very
20	In your initial testimony you state that a	20	strong in our position on our cyber security stance.
21	number of PSE's IT applications are to take advantage of	21	And then, third, while marketing materials
22	hosted services such as cloud computer, and then you	22	might try to appear that cloud services are more cost
23	state that the design of the new data center is	23	effective, we have a responsibility to ensure that the
24	anticipated in corporate discretion transition to the	24	services we provide are the lowest cost solution for our
25	cloud.	25	customers to the best of our abilities. And oftentimes
	Page 329		Page 331
	Margaret Hopkins by Chairman Danner		Margaret Hopkins by Chairman Danner
1	Did PSE investigate did PSE investigate	1	the cloud solutions are not the most cost effective.
2	the option of fully switching the hosted services when	2	So the third assessment is, is it cost
3	considering alternatives through replacement of the	3	neutral? Is it more cost effective to put it in the
4	private data centers?	4	cloud? Or it is more cost effective to put it on the
-			
5	MS. HOPKINS: Yes. We did. And the most	5	ground?
5 6	MS. HOPKINS: Yes. We did. And the most important thing to understand about our IT systems is	5 6	ground? And so those are the criteria that we use to
_		~	0
6	important thing to understand about our IT systems is	6	And so those are the criteria that we use to
6 7	important thing to understand about our IT systems is that there are IT systems that we have at PSE that	6 7	And so those are the criteria that we use to determine. And then once that determination is made,
6 7 8	important thing to understand about our IT systems is that there are IT systems that we have at PSE that cannot operate in the cloud.	6 7 8	And so those are the criteria that we use to determine. And then once that determination is made, then we make the decision to put it in the data center
6 7 8 9	important thing to understand about our IT systems is that there are IT systems that we have at PSE that cannot operate in the cloud. By and large, those are our IT systems and	6 7 8 9	And so those are the criteria that we use to determine. And then once that determination is made, then we make the decision to put it in the data center or not.
6 7 8 9 10	important thing to understand about our IT systems is that there are IT systems that we have at PSE that cannot operate in the cloud. By and large, those are our IT systems and assets that fall under NERC's compliance.	6 7 8 9 10	And so those are the criteria that we use to determine. And then once that determination is made, then we make the decision to put it in the data center or not. We do anticipate eventually more and more
6 7 8 9 10 11	important thing to understand about our IT systems is that there are IT systems that we have at PSE that cannot operate in the cloud. By and large, those are our IT systems and assets that fall under NERC's compliance. There is not a single cloud provider today	6 7 8 9 10 11	And so those are the criteria that we use to determine. And then once that determination is made, then we make the decision to put it in the data center or not. We do anticipate eventually more and more services will transition to the cloud, as that makes
6 7 8 9 10 11 12	important thing to understand about our IT systems is that there are IT systems that we have at PSE that cannot operate in the cloud. By and large, those are our IT systems and assets that fall under NERC's compliance. There is not a single cloud provider today or a single data center provider today who can meet the	6 7 8 9 10 11 12	And so those are the criteria that we use to determine. And then once that determination is made, then we make the decision to put it in the data center or not. We do anticipate eventually more and more services will transition to the cloud, as that makes more sense.
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1	Page 332	т ́	Page 334
	Page 332 Margaret Hopkins by Chairman Danner		Fage 334 Margaret Hopkins by Chairman Danner
1	the 79.3 million of the data set or costs that you're	1	new data centers or
1		1	
2	seeking to recover, 46.1 million was updating the	2	MS. HOPKINS: We think it is a really fair question.
3	existing IT systems to meet the current standards	3	
4	required by the Emergency Management Systems, and the	4	The challenge that we've had in this
5	configuration testing of the migration of the systems to	5	industry I've been doing this for 32 years and I've
6	to the new facilities.	6	built many data centers.
7	Were these expenditures exclusively related	7	The challenge that we've had with data
8	to the data center disaster recovery plan?	8	centers facilities, those traditional data centers like
9	MS. HOPKINS: Those expenditures were	9	Bothel and Bellevue were, is that they cannot keep pace
10	related to standing up a new platform to enable disaster	10	with technology. The heating and cooling requirements
11	recovery.	11	are outpacing them as well as the density that that
12	And what I mean by that is on the inside of	12	goes on in the weight requirements.
13	the data center if you exclude the facilities	13	And so it's a consequence of that these
14	themselves, on the inside of the data centers you have	14	traditional data centers that years and years ago we
15	network connectivity; you have telecommunications; you	15	thought would last us 20 years have averaged about seven
16	have servers; you have storage. And all of that	16	to ten.
17	equipment needed to be built out to accommodate disaster	17	The promise of module data center was
18	recovery capabilities. So it was a replatforming, if	18	supposed to be the solution to building out a data
19	you will, inside the data centers.	19	center that's going to last longer than that.
20	So that equipment cost approximately	20	So the module data center concept started
21	\$31 million.	21	about 10 years ago. And it was really early in its
22	The other \$14 million were the cost to	22	infancy.
23	convert our applications to work on the new platform so	23	As we've just built out our modular data
24	that they had the disaster recovery capabilities that	24	centers, they've gotten to be excellent. And we believe
25	they needed.	25	that they will last 15 to 20 years.
1	Page 333		Page 335
	Page 333 Margaret Hopkins by Chairman Danner		Page 335 Margaret Hopkins by Chairman Danner
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1 2	Margaret Hopkins by Chairman Danner	1 2	Margaret Hopkins by Chairman Danner
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2 3 4 5	Margaret Hopkins by Chairman Danner So the 14 million was largely labor cost for the software developers to convert over to the new systems. CHAIRMAN DANNER: Okay. So I'm trying to get where is the nexus to the AMI and Get To Zero?	2 3 4 5	Margaret Hopkins by Chairman Danner And the reason we believe that is because the parts are interchangeable and they can scale much better with how technology is changing. And that seems to be proving out. With that said, we're only ten years, as an
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1	companies like Amazon, will find a way to work with WEC		because it's failing and has a fundamental reliability
2	and NERC to determine how that they can become certified	2	concern.
3	and that they can comply and be allowed to house these	3	And so I think if as we continue to
4	assets in their data centers.	4	understand what the ramifications of Clean Energy
5	And so I can foresee it. I think it will be	5	Transformation Act is and what the expectations are.
6	awhile. I think we're talking a five- to ten-year time	6	What the rules are. I think that will become more clear
7	frame.	7	what we need to get accomplished
8	Now, with that said, I don't think that	8	COMMISSIONER RENDAHL: So whoever is on the
9	security in the cloud is getting stronger and stronger.	9	bridge, could you please mute your line?
10	And for non-NERC assets, I do see that we'll continue to	10	I'm sorry. Go ahead.
11	migrate other systems to the cloud over time.	11	MS. KOCH: I think that understanding the
12	It's highly possible that our SAP system, as	12	expectation of the Clean Energy Transformation Act will
13	an example, will migrate to the cloud in four or five	13	really drive some clarity on how and what pace we need
14	years, because the vendors are forcing us to go there.	14	to move at.
15	Whether it's cost-effective or not, they may	15	From my perspective, as a utility change
16	force us to go there. So it's possible that a good	16	takes a little bit longer than the Amazons and the
17	50 percent of our services could be in the cloud in the	17	Microsofts. And so my perspective is we're behind in
18	next 10 years.	18	what we need to get to. But I suggest that it's
19	CHAIRMAN DANNER: Thank you.	19	we're progressing at a reasonable pace, but we want to
20	COMMISSIONER RENDAHL: So this question is	20	be adaptable.
21	for Ms. Koch. And I'm going to refer you to your	21	COMMISSIONER RENDAHL: But you had started
22	testimony, your rebuttal testimony CAK-6TR.	22	AMI before the clean energy bill passed; correct?
23	Do you have that? And a microphone.	23	MS. KOCH: We did, for the reasons that it
24	MS. KOCH: Okay.	24	was failing. Right?
	COMMISSIONER RENDAHL: So on page 7, if you	25	And the benefits that AMI brings
25		20	
25	Page 337	20	Page 339
25	Page 337 Cathy Koch by Commissioner Rendahl	23	
25	Page 337 Cathy Koch by Commissioner Rendahl look on line 15, actually the sentence begins on	1	Page 339
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1	customers experience higher satisfaction when they are	1	provide accurate realtime information so they can manage
2	provided with mobile, web, e-mail, and IVR channels as	2	their account when it's convenient for them.
3	compared to a phone call.	3	We're not recommending any change to SQI 5,
4	And I'm just wondering if you broke that	4	which is what would dictate our staffing levels to make
5	down, is if you were to take each of those	5	sure that we meet that service level.
6	separately mobile, web, e-mail, and IVR would you	6	CHAIRMAN DANNER: So and right now so
7	find the same level of satisfaction?	7	if I decide I need to call Puget after looking at the
8	In other words, I'm what I'm getting at	8	web and not finding what I need, I can make that phone
9	is do customers prefer IVR to a phone call?	9	call, I will get IVR will give me a menu and
10	And your testimony is on page 6 of your	10	somewhere at the end of that menu it will say press to
11	MR. JACOBS: Yeah. I'm going to Exhibit	11	speak to an human being.
12	in my rebuttal JJJ-12, which is the J.D. Power	12	MR. JACOBS: Absolutely.
13	survey, which I believe that's where that statement	13	CHAIRMAN DANNER: How long does it take to
14	comes from.	14	get to that point on the menu?
15	Which which shows a higher level of	15	MR. JACOBS: I don't know that for certain.
16	customer satisfaction across a number of different	16	I can say that part of what we delivered within Get To
17	channels that customers can engage with us on.	17	Zero is a complete revamp of our menu system for
18	CHAIRMAN DANNER: Right. But I mean	18	customers to make it easier and more convenient to
19	that's and that's the suite.	19	navigate through that path more quickly than they would
20	So, on balance, people like the suite. But	20	have otherwise.
21	are there individual items on that on that list or in	21	CHAIRMAN DANNER: Okay. All right. Thank
22	that suite that they actually have higher levels of	22	you very much. All right. This is a question for
23	MR. JACOBS: Yeah, I think based on	23	Ms. Koch.
24	CHAIRMAN DANNER: on others they don't.	24	I don't know if you saw on January 13th of
25	MR. JACOBS: Based on the survey results, it	25	this year, Utility Dive published an article that
	Page 341		Page 343
	Joshua Jacobs by Chairman Danner		Cathy Koch by Chairman Danner
1			
1	shows that there is a higher level of satisfaction	1	says the title of the article was "Most Utilities
1 2	shows that there is a higher level of satisfaction through desktop, mobile app, and then communicating with	1 2	says the title of the article was "Most Utilities aren't getting full value from smart meters report
	-		-
2	through desktop, mobile app, and then communicating with	2	aren't getting full value from smart meters report
2 3	through desktop, mobile app, and then communicating with them via text, chat, social media. Actually, IVR is the	2 3	aren't getting full value from smart meters report warns."
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	Page 344		Page 346
	Cathy Koch by Chairman Danner		Cathy Koch by Chairman Danner
1	how do we how do we ensure that if we're going to	1	benefits that that we're getting or not getting
2	invest all this money in this platform that this	2	and and figure out if we should be determining
3	platform is going to be used to the fullest extent that	3	recovery based on the optimization.
4	it can be for getting benefits to the customer.	4	MS. KOCH: So I think you have met Jon
5	MS. KOCH: So so we're spending a lot of	5	Piliaris, but I do believe that there's been
6	money to put	6	conversations about performance base rate making and
7	CHAIRMAN DANNER: I know.	7	that's something we're interested in talking more about.
8	MS. KOCH: to put a system in. And	8	Even in this rate case, I think UTC Staff
9	that's really important.	9	asked how how has benefits been realized with what
10	We're clearly moving forward with CVR. And	10	what we've already got. And we were able to demonstrate
11	one of the things that isn't on your list is leveraging	11	that even even just with half the system that we have
12	at redistribution automation to improve reliability.	12	in today, we're receiving benefits.
13	Some of these other ones, as you point out	13	Measure us? You should do that. We're
14	and I definitely depend on strong customer	14	measuring ourselves, and so I think that's an
15	participation, and so we we've been thinking very	15	appropriate feature.
16	mindful of how to gain that so that pilots like these	16	CHAIRMAN DANNER: All right. Thank you.
17	can be successful.	17	COMMISSIONER RENDAHL: So, Ms. Koch, I have
18	I think we are actually talking about some	18	some questions for you about AMR and AMI. So we're back
19	time of use pilots. I think your Staff, UTC Staff would	19	to that topic.
20	like us to try some peak pilots or peak pricing pilots	20	And this has to do with the depreciable life
21	as well.	21	of the assets. So in your rebuttal testimony on page 6.
22	So with examples like Get To Zero that take	22	And I'll wait until you get there.
23	the basic foundation of AMI and begin to leverage it, I	23	MS. KOCH: Okay. I'm there, 6.
24	think is a demonstration of PSE continuing to look at	24	COMMISSIONER RENDAHL: I'm sorry. Pretrial
	what this foundation offers.		direct.
	Page 345		Page 347
	Page 345 Cathy Koch by Chairman Danner		Page 347 Cathy Koch by Commissioner Rendahl
1	Page 345 Cathy Koch by Chairman Danner I'll also offer that we have a group	1	Cathy Koch by Commissioner Rendahl
1	Cathy Koch by Chairman Danner	1	-
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		1	Dage 250
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1	putting these assets, the AMR assets into place in 1998	1	not depreciating.
1 2	or 1999.	_	MS. KOCH: We would request recovery through
		2	amortization of that regulatory asset.
3	MS. KOCH: '98, yes.	3	
4	COMMISSIONER RENDAHL: And so why is there	4	COMMISSIONER RENDAHL: Okay. But that has
5	still so much depreciable life of these assets? Or is	5	not
6	it you because you had to continually replace them and	6	MS. FREE: That's how it would reduce.
7	that's restarted the depreciable life; is that why we	7	COMMISSIONER RENDAHL: That has not been
8	have so much left on the system?	8	done yet?
9	MS. KOCH: I'm going to say "yes," but I'm	9	MS. FREE: No. Because we the AMR system
10	going to pass it to my	10	is still needed as we transition. It is still used and
11	COMMISSIONER RENDAHL: Okay. That's why	11	useful where it's in service.
12	you're all up here together so you didn't have to do	12	COMMISSIONER RENDAHL: So once the AMI
13	this.	13	system is fully in place and you have pulled out the
14	MS. FREE: Yeah, I do believe that that	14	last AMR meter, then you will begin this process?
15	you have to continually replace the AMR. And, in fact,	15	MS. FREE: Yes. I would anticipate it will
16	I think we still are having to replace AMR as we're	16	be something we're looking at in our next rate case.
17	building out the AMI system. And so the cost of that is	17	The treatment.
18	embedded in the the book value of the plan. So it's	18	COMMISSIONER RENDAHL: Okay. And then for
19	been retired over the years, but it's also been added	19	the new AMI meters, what is the depreciable life of
20	to.	20	those meters?
21	COMMISSIONER RENDAHL: Okay. So and this	21	MS. FREE: They are I believe
22	may be covered in the many exhibits and documents, but I	22	COMMISSIONER RENDAHL: Maybe that's
23	just need to refresh my memory on this.	23	Ms. Koch.
24	So for those meters that you're removing,	24	MS. FREE: Ms. Koch would understand the
25	the AMR meters that you're removing as you replace them	25	design life. Which the depreciable life should be sort
	Page 349		Page 351
	Page 349 Cathy Koch and Susan Free by Commissioner Rendahl		Page 351 Susan Koch by Commissioner Rendahl
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1 2	Cathy Koch and Susan Free by Commissioner Rendahl	1 2	Susan Koch by Commissioner Rendahl
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	Susan Koch by Chairman Danner		Joshua Jacobs by Chairman Danner
1	MS. KOCH: So the business case talked about	1	And do you want to address some of his concerns? I am
2	remote disconnects for move-in and move-outs and	2	passing the microphone to Josh.
3	delinquent accounts.	3	MR. JACOBS: Yes. So let me just provide a
4	But it also recognized that that evaluation	4	little bit of context to the transition.
5	needed to be furthered with the the work that GTZ	5	Get To Zero is not part of the AMI meter
	was was doing. And so more analysis needed to be	6	rollout, but we are part of trying to maximize some of
6 7	there.	7	the value streams that you identified. I think you had
8	In all honesty, I would have to I would		realtime usage as one of the six value streams.
_		8	That's on our roadmap to explore to see how
9	have to look at the spreadsheet to deep dive into whether a last knock was provided.	9	we can present that in realtime for customers on our
10	·	10	·
11	But it's doubtful that it was, because it's	11	digital channel so they can track their usage more
12	a disconnect. So I think the assumption is that we	12	effectively than really what we provide today is one
13	would eventually get to a place where we understood that	13	monthly meter read on the website.
14	providing that performing a disconnect was an	14	So there's certainly room for improvement
15	acceptable activity.	15	there. The remote disconnect-reconnect project is part
16	But I think that is in part why that set of	16	of the Get To Zero roadmap. If it's not in this case,
17	benefits needed to be further analyzed because there's a	17	it will be in a subsequent case. And we have been
18	lot of there were a lot of things that still needed	18	participating in the AMI rulemaking all year long to try
19	to be thought out relative to that.	19	and participate in the conversation, certainly, and take
20	And so would you like to add anything	20	back components of the conversation to help inform where
21	more? You are just staring at me.	21	we go with a design and functionality of our program.
22	CHAIRMAN DANNER: For the record, Ms. Koch	22	We certainly recognize that this is a
23	is looking at Mr. Jacobs.	23	difficult customer experience. It's a difficult
24	MS. KOCH: But I think the assumption is	24	employee experience at the same time. We would prefer
25	that it's the possible. There is a possibility to	25	not to disconnect anybody if we could make that work.
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	Susan Koch by Chairman Danner		Joshua Jacobs by Chairman Danner
1	-	1	-
1 2	Susan Koch by Chairman Danner	1 2	Joshua Jacobs by Chairman Danner
	Susan Koch by Chairman Danner leverage AMI in these manners, and it brings value. But		Joshua Jacobs by Chairman Danner Unfortunately, if we don't manage this end
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		1	Derra 250
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-	Joshua Jacobs by Chairman Danner	-	Joshua Jacobs by Commissioner Rendahl
1	rulemaking that there will be a component of customers,	1	if it is, you can let me know. Otherwise, it would be
2	the most vulnerable customers that there will be a last	2	helpful to get it in a bench request response.
3	knock to support those customers.	3	Do you know how many customers you have
4	And I think that the final ruling on how you	4	remotely disconnected in this fashion in the years 2018
5	define the most vulnerable customers has yet to be	5	and 2019 and to the present?
6	included. But that is part of our thinking in how we'll	6	MR. JACOBS: Just for the first phase of the
7	structure what we automate through AMI and what we focus	7	customer initiated move-in or move-out. I don't know
8	our our field resources to help support.	8	that number but we can get that.
9	CHAIRMAN DANNER: Okay. But in your	9	COMMISSIONER RENDAHL: That would be a bench
10	economic assessments of AMI so far, you're you didn't	10	request number, I don't know what. Four.
11	go one way or the other, but	11	Okay. And now I think this is going to
12	MR. JACOBS: So there are two assessments.	12	Mr. Wappler. You did not get spared. Sorry.
13	So in the AMI business case there is a high	13	So The Engery Project in its testimony has a
14	level assessment that that Cathy's team provided and	14	proposal to create a disconnection reduction plan, and
15	is part of the Get To Zero initiative.	15	then I believe that in your testimony, PSE is accepting
16	We have a a business case, a corporate	16	that proposal to create that plan and submit it to the
17	spending authorization that does assess the the value	17	Commission for approval.
18	streams whether there are labor, bad debt, postage	18	Have you given any thought to the timeline
19	associated with this rollout under Get To Zero, and we	19	and the process for that? You'll need to move the mic.
20	are incorporating those assumptions into our business	20	It is close to you. Thank you.
21	case.	21	MR. WAPPLER: I have not specifically, in
22	CHAIRMAN DANNER: Okay. Thank you.	22	terms of the timeline.
23	COMMISSIONER RENDAHL: So I think you can	23	The only thing I would add is, I believe, as
24	understand why we're a bit confused about the overlap of	24	we think about that, one of the key components should
25	our programs. But that's not my question.	25	be: What can we do together to broaden the awareness of
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-	Page 357		Page 359
	Page 357 Joshua Jacobs by Commissioner Rendahl		Page 359 Andrew Wappler by Commissioner Rendahl
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	Joshua Jacobs by Commissioner Rendahl	1	Andrew Wappler by Commissioner Rendahl
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	Page 360		Page 362
	Andrew Wappler by Commissioner Rendahl		Dan Doyle by Ms. Gafken
1	Ms. Liu?	1	Q. Good afternoon, Mr. Doyle.
2	MR. WAPPLER: 1 am.	2	A. Good afternoon.
3	COMMISSIONER RENDAHL: Ms. Liu further	3	Is this working? Now it's working.
4	states that funding the health increases using a base	4	Q. Generally speaking, normalization is used by
5	rate increase would create an inaccurate assessment of	5	regulated utilities directly filed the tax treatment of
6	actual bill changes and might result in a second	6	accelerated depreciation with the regulatory
7	increase directly resulting from the ERF.	7	treatment; is that correct?
8	So do you understand her assessment?	8	And not being a tax expert myself, I'm using
9	MR. WAPPLER: I do not fully understand her	9	very rudimentary.
10	assessment. I would believe it would make sense to tie	10	A. Can you ask me one more time?
11	it to the base rate increase.	11	Q. Sure.
12	COMMISSIONER RENDAHL: Okay. So at this	12	A. Thank you.
13	point, speaking for PSE, you would say you would not	13	Q. Generally speaking, normalization is used by
14	agree with Ms. Lui's proposal?	14	regulated utilities to reconcile the tax treatment of
15	MR. WAPPLER: That's correct.	15	accelerated depreciation with their regulatory
16	COMMISSIONER RENDAHL: Okay. Thank you.	16	treatment; is that correct?
17	Maybe you can explain why.	17	A. I don't think that that's an appropriate
18	MR. WAPPLER: I believe the proposal, as	18	characterize of normalization.
19	performed by The Engery Project, made sense to tie it to	19	Q. Okay. Can you give me the appropriate
20	base rates. Seems like that would be the most related	20	characterization of normalization?
21	to the amount of bill the customers are facing, and	21	A. I think normalization is a requirement of the
22	tying available aid to that seems like that would keep	22	IRS code. There are certain aspects of normalization
23	those in proportion.	23	which need to follow in the revenue requirements
24	COMMISSIONER RENDAHL: Okay. Thank you.	24	determination for the tax attributes covered by
25	JUDGE PEARSON: Thank you.	25	normalization. But I don't think it's a reconciling
	Page 361		Page 363
	Andrew Wappler by Commissioner Rendahl		Dan Doyle by Ms. Gafken
1	That's all the questions that we have for	1	construct. It's one where you have rules and they are
2	this panel.	2	applied inside of the rate making.
3	At this time we will call the witnesses in	3	Q. Okay. I agree that it's an IRS requirement, but
4	the order indicated on the parties' witness lists.	4	is the purpose of it to somehow deal with the utilities'
5	Okay. And no party has indicated any	5	ability to have deferred depreciation and the different
6	cross-examination for David Mills.	6	treatment that regulated utilities have in terms of
7	Are there any additional questions for	7	their books and the taxes and whatnot?
8	Mr. Mills from the bench? No.	8	A. So it really gets to the purpose. I've got
9	Okay. The next witness is Daniel Doyle from	9	several pages in my testimony which talks about the
10	PSE.	10	history of normalization and why it exists.
11	Just to clarify whether Public Counsel has	11	And the normalization rules first and foremost
12	cross for this witness?	12	prevent what was a prevailing practice back in the late
13	MS. GAFKEN: Yes, we do have cross for	13	'50s and the '60s before the initial normalization rules
14	Mr. Doyle.	14	came into effect; whereby, the benefits of accelerated
15	JUDGE PEARSON: Okay. Thank you.	15	depreciation were passed through two rate payers in the
16	Mr. Doyle, you are already sworn in. We	16	form of lower rates.
	-		The problem with that treatment is that it
17	don't need to do that again. You can go ahead and take	17	
	don't need to do that again. You can go ahead and take a seat.	17 18	created an unintended consequence inside the Treasury
17			created an unintended consequence inside the Treasury Department. Because when Treasury puts together its
17 18	a seat.	18	
17 18 19	a seat. And then, Ms. Gafken, you may proceed	18 19	Department. Because when Treasury puts together its
17 18 19 20	a seat. And then, Ms. Gafken, you may proceed whenever you're ready. MS. CAMERON-RULKOWSKI: Your Honor, staff	18 19 20	Department. Because when Treasury puts together its budget, the Government puts together its budget, it looks at taxable incomes from various sectors:
17 18 19 20 21 22	a seat. And then, Ms. Gafken, you may proceed whenever you're ready. MS. CAMERON-RULKOWSKI: Your Honor, staff also does have cross-examination for Mr. Doyle.	18 19 20 21	Department. Because when Treasury puts together its budget, the Government puts together its budget, it looks at taxable incomes from various sectors: individuals, industries, et cetera. And it didn't count
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17 18 19 20 21 22	a seat. And then, Ms. Gafken, you may proceed whenever you're ready. MS. CAMERON-RULKOWSKI: Your Honor, staff also does have cross-examination for Mr. Doyle.	18 19 20 21 22	Department. Because when Treasury puts together its budget, the Government puts together its budget, it looks at taxable incomes from various sectors: individuals, industries, et cetera. And it didn't count

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	Page 364		Page 366
	Dan Doyle by Ms. Gafken		Dan Doyle by Ms. Gafken
1	We are going to require you in your revenue requirements		with that time period would violate the normalization
2	to include deferred taxes on the timing differences	2	
3	between book and tax depreciation, account for them	3	A. Correct.
4	through accumulated deferred taxes and then as they turn	4	Q. Okay.
5	around pass them back to rate payers. That is what it	5	A. Sorry, I could have worded that a little
6	is all about.	6	differently.
7	Q. Okay. My next question is really a foundational	7	Q. The IRS has not issued guidance regarding the
8	question.	8	application of the TCJA normalization requirements;
9	A. Okay.	9	correct?
10	Q. With respect to the protected EDIT amortization	10	And if you need to, you can refer to Exhibit
11	for the period of January 1, 2018, through February 28,	11	DAD-17, page 26, lines 16 through 17.
12	2019, is it fair to say that PSE believes that the	12	A. That is correct. The guidance has not yet been
13	refunds to customers would violate the IRS normalization	13	
14		14	Q. The same IRS normalization rules apply to PSE
15	If we need to, we can refer to your rebuttal	15	that also apply to the other Washington investor-owned
16	testimony at Exhibit DAD-7T, page 26, lines 1 through 3.	16	utilities; correct?
17	A. Well, the pause is trying to sort through what	17	A. Correct.
18	angle you're coming at it this from. So there's two	18	Q. Indeed, the same IRS normalization rules apply
19	ways to look at it.	19	to PSE that also applies to all of the regulated
20	One is, we amortize the excess deferred taxes	20	utilities across the country; correct?
21	during that period of time.	21	A. Correct.
22	My testimony says that that was an appropriate	22	Q. Thank you.
23	refund of those taxes to customers because of the way	23	MS. GAFKEN: I have no further questions for
24	the normalization rules work.	24	Mr. Doyle.
25	If you're talking about capturing those excess	25	JUDGE PEARSON: Thank you.
	Page 365		Page 367
	Dan Doyle by Ms. Gafken		Dan Doyle by Ms. Cameron-Rulkowski
1	deferred taxes, recording a new regulatory liability,	1	Any redirect for this witness? Okay.
2	and then passing those back through rates, that would be	2	Ms. Cameron-Rulkowski.
3	a normalization violation.	3	MS. CAMERON-RULKOWSKI: Thank you, Your
4	So I don't know which angle you're coming at in	4	Honor.
5	your question, Counselor.	5	CROSS-EXAMINATION
6	Q. Well, I'm not coming at it from an angle. I	6	BY MS. CAMERON-RULKOWSKI:
7	just wanted you to answer the question.	7	Q. Good afternoon, Mr. Doyle.
8	May I have a minute to pull up the exhibit?	8	A. Good afternoon.
9	I thought I had it in paper form, but apparently	9	Q. I have a few questions for you on excess
10	I need to pull it up in electronic form.	10	deferred income tax.
11	If you could go to Exhibit DAD-7T, page 26,	11	In your rebuttal testimony in Exhibit DAD-7TR
12	lines 1 through 3.	12	you discuss the consistency rule in relation to the pass
13	A. Can you repeat that, Ms. Gafken?	13	back of excess deferred income tax; right?
14	Q. Absolutely. Exhibit DAD-7T, page 26, lines 1	14	A. (Witness nods head.)
15	through 3.	15	l do.
16	A. So I have DAD-7TR.	16	Q. Thank you.
17	Q. Oh, yes.	17	And are you aware of any IRS penalties assessed
18	So we have to take the negative inference.	18	since the TCJA was enacted for violation of the
19	There you state that "Unlike Commission Staff, Public	19	consistency rule against any utility in conjunction with
20	Counsel incorrectly asserts that the refund of protected	20	returning EDIT to rate payers?
21	EDIT amortization for the period of January 1, 2018,	21	A. No. But my testimony is pretty clear that we
22	through February 28, 2019, would not violate the IRS	22	wouldn't have that we wouldn't have that information
23	normalization rules."	23	at this point in time for a couple of reasons.
24	So is it fair to say that you believe that	24	Number one, we don't have a guidance. Number
25	Public Counsel's position with respect to the amounts	25	two
1		1	

	Page 368		Page 370
	Dan Doyle by Ms. Cameron-Rulkowski		Dan Doyle by Ms. Cameron-Rulkowski
1	Q. And I understand that.	1	A. I don't think that that I don't think that
2	But you're not aware to date that any penalties	2	that can happen unless you have perfect rate making and
3	have been assessed by the IRS; correct?	3	you change your rates every time the deferred the
4	A. No. That would come in the future.	4	excess deferred another vintage of property goes into
5	Q. Thank you.	5	being fully depreciated, you will never synchronize it
6	Can you tell us the initial balance of PSE's	6	up. It's not intended to work that way.
7	EDIT as of January 1, 2018, the effective date of the	7	Q. Would there be a way that it could?
8	TCJA?	8	A. One way that you could is if every time so
9	A. I can get I can get you in the ballpark. I	9	let me put it in this context.
10	don't have the exact figures. I think the protected	10	Staff, I believe, has has a proposal on the
11	balances were somewhere between 700 and 750 million, and	11	table which I recommend to the Commission that you not
12	then the unprotected was somewhere around 130 million	12	adopt, because I do believe it is a normalization
13	and change.	13	violation where you put a tracker on excessed deferred
14	Mr. Marcelia would have those numbers exactly.	14	taxes and every time a new vintage of property goes into
15	Q. Thank you. Ballpark is fine.	15	turnaround status or reversal status, you then change
16	Could you repeat the number for protected EDIT,	16	the rates. You cannot do that unless you change all of
17	please?	17	the other items that are components of applying the
18	A. Roughly 700 to 750 million.	18	consistency rule. You can't cherry pick that piece out.
19	Q. Thank you.	19	So what you could do is you could basically
20	Now, it's the Company's plan at a high level to	20	set rates, apply the consistency rules, call it once a
21	amortize this whole balance of EDIT over a number of	21	year, once a quarter, whatever, and change rates. I
22	years; right?	22	think that that could work.
23	A. Well, we would amortize them over a number of	23	I don't think that's regulatory practical. It's
24	years in concert with the normalization rules.	24	practical in a regulatory sense. I just don't think
25	Q. Understood.	25	it's practical.
	Page 369		Page 371
	Page 369 Dan Doyle by Ms. Cameron-Rulkowski		Page 371 Dan Doyle by Ms. Cameron-Rulkowski
1	_	1	Dan Doyle by Ms. Cameron-Rulkowski Q. So what the Company's proposing means that in
1 2	Dan Doyle by Ms. Cameron-Rulkowski And so we're looking at amortization over several decades; right?	1 2	Dan Doyle by Ms. Cameron-Rulkowski Q. So what the Company's proposing means that in between rate cases, when the amortizations happen, the
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	cket Nos. UE-190529 and UG-190530 (Consolidat	iea)	
	Page 372		Page 374
	Dan Doyle by Ms. Cameron-Rulkowski		Dan Doyle by Ms. Cameron-Rulkowski
1	Q. So how does PSE plan to incorporate EDIT	1	track it and try to get it as close as you could, you
2	amortization into rates?	2	probably would want to basically on an annual basis,
3	A. So it basically goes in two components. The	3	quarterly basis, whatever, in between rate cases, reset
4	average rate assumption method rules require us to	4	rates for all the components of the consistency rules.
5	amortize those deferred taxes back in rates once each	5	Okay? Because you can't change the amortization or
6	vintage of property becomes fully depreciated for tax	6	reversal of deferred taxes and rates unless you capture
7	purpose. So you start reversing those deferred taxes.	7	the other components of the consistency rules. Reset
8	Basically, what will happen is you'll you'll	8	rates, that complies with the normalization rules,
9	set a test year in your next GRC. You'll capture those	9	and and you go forward.
10	reversals or amortizations inside of of that test	10	l do think it's it's probably a little bit
11	year as part of setting the revenue requirement. You	11	futile, in a sense, or and really inefficient at one
12	will synchronize those amortizations or reversals with	12	sense and maybe futile in another, because it's never
13	current tax expense, deferred tax expense, rate base,	13	going to reconcile itself out.
14	and accumulated deferred taxes, set them all in	14	The key thing to remember about all of this is,
15	alignment, appropriate with the consistency rules, and	15	during the period of January 1 of 2018, when tax rate
16	then you set rates. And then it stays in effect until	16	changes right? and it was the end of February of
17	you repeat the process.	17	2019 when we actually put the ERF rates into effect and
18	Q. And under the Company's proposal, how will the	18	synchronized the consistency rules.
19	Commission be able to tell how much of the amortized	19	Pretty much any time during that time period if
20	EDIT has been returned to rate payers?	20	you would have done what I'm talking about, which is
21	A. Well, the way you would have to do in order	21	basically reset rates for all the components of of
22	to actually reconcile it to the penny, you basically	22	the consistency rules, you're gonna have an offset that
23	have to look at the amortizations or the reversals that	23	pretty close gets you to zero or you are going to have a
24	you basically captured in a test year, follow it while	24	rate increase that overtakes that that reversal.
25	those rates are in effect because that's basically what	25	That's exactly what happened with the gas rates
	Page 373		Page 375
	Dan Doyle by Ms. Cameron-Rulkowski		Dan Doyle by Ms. Cameron-Rulkowski
1	you're passing back.	1	in the ERF in February of 2019, if I got that right.
2	In the meantime, you are going to be reversing	2	And then there was just almost a dollar for dollar
3	additional vintages of of property that become fully	3	offset on the electric side.
4	depreciated for taxes; and then once you're done	4	So you can go through all these gyrations and
5	reversing other vintages, they totally drop out.	5	you're basically going to just end up with offsets.
6	So you would have to reconcile what goes on in	6	The rules contemplate the rules contemplate
7	the books to what you actually captured in rates over	7	that as you give back these deferred taxes, the IRS does
8	time.	8	not want its taxable income to come down, so the
9	I'm not sure I can imagine a circumstance where	9	amortization reduces taxable income to the IRS.
10	it comes out exactly to the penny. But what I will tell	10	The reason that rate base is part of the
11	you is in the earlier years of of the process, you'll	11	consistency rules is that rate base grows over time.
12	capture higher levels of amortization and those will	12	So as you reset the consistency rules into the
13	carry out as vintages come down. You might over collect	13	future, you're increasing rates on one side while you're
14	a little bit. But toward the end of the process, it	14	decreasing them for the amortization of the excess, and
15	reverses and it will average out over time. But it's	15	the IRS is held harmless.
16	never going to be to the penny.	16	Q. One last question, Mr. Doyle.
17	Q. So what so could you propose an alternative	17	Isn't the Company's intent to return as close as
18	to Staff's schedule well, to to Schedule 141X	18	possible to every dollar of amortized EDIT to rate
19	which Staff is has discussed in testimony to track	19	payers?
20	the amortized EDIT that has been returned to rate	20	A. It's the Company's proposal that we're going to
20 21	•	20 21	return we are going to return excess deferred taxes
21 22	A. Well, I think I explained that to you in an	21	consistent with the normalization rules and the timing
22 23	earlier question. I'll just refresh your memory on it.	22	of our rate cases.
	Q. Please do.		Q. And I'm going to ask you again. Sorry, I said
24		24	
25	A. So you if you really wanted to do this and	25	it was one more question. But you didn't quite answer

		<u>, </u>	
	Page 376		Page 378
	Dan Doyle by Ms. Cameron-Rulkowski and Mr. Kuzma		Matt Marcelia by Mr. Pepple
	it. And so I'll just ask the same question.	1	MR. MARCELIA: You did.
2	Is it the intent of PSE to pass back to rate	2	JUDGE PEARSON: Okay. Then never mind.
3	payers as close as possible dollar for dollar the entire	3	That's right, you are still under oath.
4	amortized EDIT ultimately?	4	And it looks like just Mr. Pepple has
5	A. As close as possible as a proper application of	5	questions for Mr. Marcelia.
6	the normalization rules in the context of the timing of	6	CROSS-EXAMINATION
7	our rate changes will allow.	7	BY MR. PEPPLE:
8	MS. CAMERON-RULKOWSKI: No further	8	Q. Could you turn to your rebuttal testimony to
9	questions.	9	Exhibit MRM-11T, page 9, please.
10	Thank you.	10	A. Okay. I'm there.
11	JUDGE PEARSON: Thank you.	11	Q. And just to set a little background. So this
12	Any redirect for this witness?	12	section of your testimony, this is Section B here,
13	MR. KUZMA: Yes, Your Honor.	13	you're responding to AWEC's witness Mr. Mullins'
14	REDIRECT EXAMINATION	14	proposal to offset the Colstrip 1 and 2 plant balances
15	BY MR. KUZMA:	15	with production tax credits that PSE has included in
16	Q. Mr. Doyle, you had mentioned that excess	16	estimated tax payments, but has not yet included on an
17	deferred income taxes were not going dollar for dollar.	17	annual tax filing; correct?
18	Does plant depreciation and deferred DFIT, which	18	A. Correct.
19	require similars treatment, it would cover dollar for	19	Q. And lines 17 through 19 of this page, you argue
20	dollar?	20	that Mr. Mullins' proposal is inconsistent with prior
21	A. No, they do not.	21	Commission orders and settlements addressing how and
22	Q. And so on the dollar for dollar on the EDIT, is	22	when PTCs may be utilized.
23	that so the rate impact would not necessarily be the	23	Do you see that?
24	dollar for dollar; is that what you were referring to?	24	A. That's correct. It is.
25	A. Correct.	25	Q. And then to the next page, the next Q&A starting
	Page 377		Page 379
	Dan Doyle by Commissioner Balasbas		Matt Marcelia by Mr. Pepple
1	MR. KUZMA: Thank you. That's all I have.		on 3, you discuss these prior orders in settlements that
2	JUDGE PEARSON: Okay. Thank you.	2	you're talking about.
3	COMMISSIONER BALASBAS: So, Mr. Doyle, I'm	3	A. Yes.
4	going to actually ask Ms. Cameron-Rulkowski's question		
–		4	Q. And so my understanding of the history of this
5	again, and I want a one-word answer. And I want a "yes"	4 5	issue is that PSE used to provide the value of PTCs to
5 6	again, and I want a one-word answer. And I want a "yes" or a "no."	_	issue is that PSE used to provide the value of PTCs to customers in the year that they were generated
	or a "no." Is the company planning to return amortized	5	issue is that PSE used to provide the value of PTCs to customers in the year that they were generated regardless of whether any of those PTCs could actually
6 7 8	or a "no." Is the company planning to return amortized EDIT as close as possible to the dollar to rate payers;	5 6 7 8	issue is that PSE used to provide the value of PTCs to customers in the year that they were generated regardless of whether any of those PTCs could actually be used by PTC [verbatim] on its tax returns?
6 7 8 9	or a "no." Is the company planning to return amortized EDIT as close as possible to the dollar to rate payers; yes or no?	5 6 7 8 9	 issue is that PSE used to provide the value of PTCs to customers in the year that they were generated regardless of whether any of those PTCs could actually be used by PTC [verbatim] on its tax returns? A. That's right. That was the original treatment
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	or a "no." Is the company planning to return amortized EDIT as close as possible to the dollar to rate payers; yes or no? MR. DOYLE: Yes. COMMISSIONER BALASBAS: Thank you. JUDGE PEARSON: We're just going to talk amongst ourselves for about 30 seconds. (Pause in the proceedings.) JUDGE PEARSON: We're going to take a five-minute recess right now. So we'll be off the record. (A recess was taken from 5:01 p.m. to 5:15 p.m.) JUDGE PEARSON: All right. So we'll be back on the record. And Mr. Marcelia is up and ready to testify. If you would please stand and raise your right hand I	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 issue is that PSE used to provide the value of PTCs to customers in the year that they were generated regardless of whether any of those PTCs could actually be used by PTC [verbatim] on its tax returns? A. That's right. That was the original treatment back in 2005 to 2010. Q. Okay. And so that's that's the circumstance that led to the creation of this large deferred tax asset that PSE had is that it was providing value to customers in a year but not getting the same value back from the IRS in the same year? A. Yeah. That's correct. Q. Okay. And so is it your understanding that Mr. Mullins' proposal is to use PTCs to offset Colstrip plant balances that have not even been used on an estimated tax return? A. The the orders and the rules that we're operating under now require that PTCs to be used on the

	Page 380	Í	Page 382
	Matt Marcelia by Mr. Pepple		Matt Marcelia by Mr. Pepple
1	between what happened before and what Mr. Mullins'	1	PTCs available to PSE doesn't change; correct?
2	proposal is I guess, in one sense, you would pass the	2	A. Well, that's correct. We have a total stack of
3	value of PTCs back to customers even if you knew with		PTCs.
4	near certainty that you wouldn't have any tax liability	4	It is theoretically possible that some of them
5	at all in a year; correct?	5	could expire worthless if it were to get out to that
6	A. That was the original back in 2005 and 2010,	6	time frame. Not really the issue here. But
7	yes.	7	theoretically some of them could expire.
8	Q. And Mr. Mullins' proposal, as you understand it,	8	Q. But other than that?
9	correct me if I'm wrong, is to use PTCs that you, in	9	A. Other than that; you're right.
-	fact, estimate you will use on a		Q. All right. And so, I guess so that means
10	A. Yes.	10	that the total value of PTCs that PSE has is known
11	Q and you have used to reduce your estimated	11	
12		12	today.
13	tax payments?	13	I guess the only uncertainty would be how much
14	A. Yes. In that regard, that is an improvement of	14	interest is applied based on
15	that situation. But the fundamental issue is still	15	A. Yeah. I would say that the total stack of PTCs
16	it's an estimate. It's a no. And the value hasn't been	16	is known today. But because we haven't gotten any
17	established yet.	17	benefit back from the IRS, there is no true benefit.
18	Q. Okay. Okay. And so setting aside the your	18	It is a the PTCs that haven't been utilized
19	concerns about the value how accurate the value is,	19	represent future benefit in our taxes, not current
20	are you aware of any IRS rule or other requirement that	20	benefit in our taxes.
21	would prevent the Commission from recognizing PTCs that	21	That's kind of that's the crux. So yes, we
22	are as being monetized when they are used as an	22	have this paper asset, which we've gotten no value for,
23	estimated on an estimated tax return?	23	but we will get it once we have taxable income and we're
24	A. The answer to that is there's no IRS rule	24	able to use it to reduce the tax payment.
25	because we're not talking about the PTC itself. We're	25	So the value of the PTC comes when it is
	Page 381		Page 383
	Matt Marcelia by Mr. Pepple		Matt Marcelia by Mr. Pepple
1	talking about the regulatory liability for the PTC. And	1	actually used to reduce a tax payment.
2	regulatory liability is fully in their control to do	2	Q. Right. So although, to be clear on that, you
3	whatever they want to it.	3	did use PTCs in your last tax return. So some of them
4	We're talking about using it in a way that's	4	have actually
5	appropriate relative to the underlying economics which	5	A. That's right.
6	are focused on the PTCs.	6	Q been monetized in that?
7	So there's two things. There's PTC. There's	7	A. That's right.
8	regulatory reliability for PTC.	8	Q. So, I guess, assuming that you know the
9	So we have this regulatory liability and we	9	unrecovered investment for Colstrip Units 1 and 2 with a
10	are the treatment that we're using for the regulatory	10	reasonable degree of certainty, you can also identify
11	reliability is being determined by what's happening to	11	with reasonable accuracy how many how much of the
12	the underlying PTC itself.	12	value of your PTC stack would be available to offset any
13	So once we use that PTC on a tax return, that	13	unrecovered plant ballots for Units 3 and 4 when those
14	means we free up some of this regulatory liability to be	14	are eventually out of rates; is that would you agree
15	re-classed against the Colstrip investment.	15	with that?
1		1	A. I would agree with that.
16	Q. Okay. So, in other words, the Commission has	16	i i i i i i i i i i i i i i i i i i i
16 17	Q. Okay. So, in other words, the Commission has discretion in this area?	16 17	But in terms of setting rates, we don't usually
	- · · · · · · · · · · · · · · · · · · ·		-
17	discretion in this area?	17	But in terms of setting rates, we don't usually
17 18	discretion in this area? A. Yes.	17 18	But in terms of setting rates, we don't usually use these estimates and projections to do that.
17 18 19	discretion in this area? A. Yes. Q. Okay. And I guess the issue of when PTCs are monetized is is really only a question of timing,	17 18 19	But in terms of setting rates, we don't usually use these estimates and projections to do that. Usually, it's like a known measurable. So these are
17 18 19 20	discretion in this area? A. Yes. Q. Okay. And I guess the issue of when PTCs are monetized is is really only a question of timing,	17 18 19 20	But in terms of setting rates, we don't usually use these estimates and projections to do that. Usually, it's like a known measurable. So these are estimates. Right? Estimated Colstrip balance at
17 18 19 20 21	discretion in this area? A. Yes. Q. Okay. And I guess the issue of when PTCs are monetized is is really only a question of timing, right?	17 18 19 20 21	But in terms of setting rates, we don't usually use these estimates and projections to do that. Usually, it's like a known measurable. So these are estimates. Right? Estimated Colstrip balance at closure. Estimate of PTCs that are available to use. A
17 18 19 20 21 22	discretion in this area? A. Yes. Q. Okay. And I guess the issue of when PTCs are monetized is is really only a question of timing, right? So, in other words, when PTCs are whether	17 18 19 20 21 22	But in terms of setting rates, we don't usually use these estimates and projections to do that. Usually, it's like a known measurable. So these are estimates. Right? Estimated Colstrip balance at closure. Estimate of PTCs that are available to use. A lot of estimates.
17 18 19 20 21 22 23	discretion in this area? A. Yes. Q. Okay. And I guess the issue of when PTCs are monetized is is really only a question of timing, right? So, in other words, when PTCs are whether whether PTCs are considered to be monetized when they are included in an estimated tax payment or whether they	17 18 19 20 21 22 23	But in terms of setting rates, we don't usually use these estimates and projections to do that. Usually, it's like a known measurable. So these are estimates. Right? Estimated Colstrip balance at closure. Estimate of PTCs that are available to use. A lot of estimates. Typically we want known measurable. But, yeah,

		100,	
	Page 384		Page 386
	Matt Marcelia by Mr. Pepple		Matt Marcelia by Mr. Pepple
1	pretty close to an	1	
2	A. Close but still an estimate.	2	A. It's recorded gross, so the plan balance is
3	Q. Yes. Okay.	3	still there and this reg liability for the PTC, it's
4	A. Right?	4	still there.
5	Q. Okay. And were you in the room just one	5	But because we are calculating the interest
6	other question.	б	component against that, because obviously the the
7	Were you in the room when I was cross-examining	7	Colstrip balance is in rates, it is part of rate base.
8	Ms. Free?	8	We monetized this this amount for PTC when we
9	A. Yes, I was.	9	filed the 2018 tax return. That occurred after rates
10	Q. Okay. And did you hear how she wantonly threw	10	were set. And so we're charging interest on that. Kind
11	you under the bus?	11	of the carrying cost. So that basically we're
12	A. I did. Susan Free is my friend. She meant it	12	offsetting the Colstrip balance for the regulatory
13	nicely.	13	liability for the PTCs, in essence.
14	Q. So I'll ask you the question that she deferred	14	When we did that, we moved the regulatory
15	to you which is why there is EDIT associated with	15	liabilities for the PTCs that had been monetized. We
16	monetized PTCs?	16	moved that out of the big bucket into a little bucket.
17	A. That is a great question.	17	And when we did that movement, the regulatory I'm
18	So it starts back in the day, when we created	18	sorry, the deferred tax asset needs to slide over with
19	the PTC the PTCs are generated. At that point in	19	it.
20	time so this goes back when the wind farms were first	20	Because at the end of time, we're going take the
21	placed in service because direct PTCs over the first	21	Colstrip plant and the reg liabilities of PTCs and we'll
22	ten years of the wind farm.	22	merge them together, and then we'll take the the
23	And so we recorded those PTCs as a deferred tax	23	deferred tax asset that's all in the PTCs and the
24	asset because it's a tax credit that we're entitled to.	24	deferred tax liability that's on the Colstrip plant,
25	When we do that, we create a regulatory	25	merge those together.
	Page 385		Page 387
	Matt Marcelia by Mr. Pepple		Matt Marcelia by Mr. Pepple
1	liability at that point in time.	1	So it will all come together. Right? All
2	The creation of the regulatory liability, when	2	the deferred taxes will have an offsetting effect. The
3	the PTCs are generated, triggers a deferred tax asset as	3	plant will have an offsetting effect.
4	an offset. Okay?	4	Does that make sense?
5	So our whole stack of our whole regulatory	5	Q. It makes sense enough, I think.
6	liability for PTCs has a deferred tax asset against	6	A. Okay.
7	them. All right?	7	- - · · · · · · · · · · · · · · · · · ·
~		/	Q. That was my worst grade in law school, was tax.
8	Q. So that can I interrupt you for a second?	8	Q. That was my worst grade in law school, was tax. All right. Those are all my questions. Thank
8 9	Q. So that can I interrupt you for a second?A. Sure.		
		8	All right. Those are all my questions. Thank
9	A. Sure.Q. That remains true even though you were passing	8 9	All right. Those are all my questions. Thank you.
9 10	A. Sure.Q. That remains true even though you were passing	8 9 10	All right. Those are all my questions. Thank you. JUDGE PEARSON: Any redirect?
9 10 11	A. Sure.Q. That remains true even though you were passing the value of PTCs back to the customers?	8 9 10 11	All right. Those are all my questions. Thank you. JUDGE PEARSON: Any redirect? MR. KUZMA: No, Your Honor.
9 10 11 12	 A. Sure. Q. That remains true even though you were passing the value of PTCs back to the customers? A. Yes. Yes. Because the regulatory liability is 	8 9 10 11 12	All right. Those are all my questions. Thank you. JUDGE PEARSON: Any redirect? MR. KUZMA: No, Your Honor. JUDGE PEARSON: Okay. Do any other parties
9 10 11 12 13	 A. Sure. Q. That remains true even though you were passing the value of PTCs back to the customers? A. Yes. Yes. Because the regulatory liability is attached sorry, the deferred tax asset that we're 	8 9 10 11 12 13	All right. Those are all my questions. Thank you. JUDGE PEARSON: Any redirect? MR. KUZMA: No, Your Honor. JUDGE PEARSON: Okay. Do any other parties have questions for this witness? No.
9 10 11 12 13 14	 A. Sure. Q. That remains true even though you were passing the value of PTCs back to the customers? A. Yes. Yes. Because the regulatory liability is attached sorry, the deferred tax asset that we're talking about is attached to the regulatory liability 	8 9 10 11 12 13 14	All right. Those are all my questions. Thank you. JUDGE PEARSON: Any redirect? MR. KUZMA: No, Your Honor. JUDGE PEARSON: Okay. Do any other parties have questions for this witness? No. And there is a question from Commissioner
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1	Page 388		Page 390
	Matt Marcelia by Commissioner Balasbas		Matt Marcelia by Commissioner Balasbas
_	timeline?	1	will occur dollar for dollar just like it does for book
2	MR. MARCELIA: I don't know exactly it	2	depreciation. But then when you set rates on a
3	would be in the ballpark of 36 years, something like	3	historical test, you go: What depreciation incurred in
4	that. It depends on how long take the book life of	4	my historical test year? That's what's going to be set
5	the longest asset that we have, and that's kind of	5	into rates.
6	what that's the longest.	6	What excess deferred tax reversed during a
7	But it ebbs and flows. It's not a constant,	7	historical test year? That's what's going to be set
8	you know, X million dollars every year. It flows	8	into rates.
9	because assets enter reversal, and so it's it will be	9	Will it all equal dollar for dollar?
10	a long period. So 36 years is probably ballpark.	10	Probably not. But it will be reversed dollar for dollar
11	COMMISSIONER BALASBAS: I would like to make	11	because assets get depreciated to zero. Excess deferred
12	a bench request for the best estimate that you have	12	taxes will reverse to zero. But rate making will occur
13	under the average rate assumption.	13	whenever rate making occurs using whatever rate-making
14	MR. MARCELIA: Okay.	14	techniques are permissible.
15	COMMISSIONER BALASBAS: That's it.	15	So I wanted to kind of clarify that because
16	JUDGE PEARSON: That's it. Okay.	16	there's two elements. And the consistency requirement
17	You're excused. Thank you.	17	is such which Mr. Doyle was referring to such that
18	MR. MARCELIA: Can I make a correction to	18	however you treat book depreciation is how you would
19	something my CFO said? Is that legal? I'm just asking.	19	treat EDIT, or however you treat rate basis is how you
20	JUDGE PEARSON: That's fine. Go ahead.	20	would treat the accumulated deferred income taxes.
21	MR. MARCELIA: So the one of the	21	All those things need to be treated the same
22	questions you asked was the final question you asked	22	in a rate-making context. In addition to how we're
23	a yes-or-no question. And I wanted to clarify	23	doing
24	something.	24	Your question about ARAM is about the length
25	So there's also a question about		of time things will be amortized. That covers the time
20	Page 389	20	Page 391
	Matt Marcelia by Commissioner Balasbas		Matt Marcelia by Ms. Cameron-Rulkowski
1	dollar-for-dollar return of the excess deferred taxes.	_	that the excess deferred will be put into tax expense.
2	So to be clear, the excess deferred taxes	2	That tax expense will then go into cost of service for
2 3	So to be clear, the excess deferred taxes will be amortized dollar to dollar to the penny. And we	2 3	That tax expense will then go into cost of service for some period, and that will then come into a rate case.
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2 3 4 5 6 7 8	So to be clear, the excess deferred taxes will be amortized dollar to dollar to the penny. And we can tell you that exact number at any point in time you would like to know, because we have software that tracks all of this. So that answer is "yes." The issue as to whether how that goes into rate. That's a rate-making question. And rate-making questions are inherently messy because there's not practically a dollar-for-dollar return of anything. So, if you recall, excessed deferred taxes are reversed because of book depreciation expense. And so there's a correlation. If book's depreciation on an asset ceases for some reason, the excess deferred tax ceases to reverse because it is caused by book depreciation. So then if you look at how do you recover book depreciation and rates? Do we recover it dollar for dollar? No, we don't recover it dollar for dollar, because there's there's different timing involved as to when an asset actually goes into rates.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	That tax expense will then go into cost of service for some period, and that will then come into a rate case. Perhaps this one. Perhaps another one. But it will it is then available once it hits tax expense, it's available for rate making. And so you will set rates based on that. But excess deferred tax isn't available to just be have its own amortization because it's a tax. It's a tax on something. This is being driven by book depreciation expense. So I wanted to kind of clarify a little bit. Hopefully that helped. MS. CAMERON-RULKOWSKI: Your Honor, could I please ask Mr. Marcelia a cross question, based on what he has just said? JUDGE PEARSON: That's fine. CROSS-EXAMINATION BY MS. CAMERON-RULKOWSKI: Q. Mr. Marcelia, one question. I hope. EDIT is made up of entirely of dollars collected from rate payers; correct?

	cket 105. 0E-190329 and 0G-190330 (Consolida	<u> </u>	
1	Page 392		Page 394
	Susan Free by Commissioner Balasbas		Thomas Hunt by Ms. Gafken
1	JUDGE PEARSON: Thank you.	1	rather than "operational."
2	Okay. And at this time we would like to	2	JUDGE PEARSON: Ms. Gafken, can I get a page
3	call Ms. Free back up because we do have another	3	number? Sorry.
4	question from the bench for her.	4	MS. GAFKEN: Sorry. We're still looking at
5	COMMISSIONER BALASBAS: Good evening,	5	page 1 of Exhibit TMH-7.
6	Ms. Free. Keeping on the EDIT theme.	6	JUDGE PEARSON: Okay. Thank you.
7	Would you please turn to your Exhibit	7	BY MS. GAFKEN:
8	SEF-26?	8	Q. I'm sorry, Mr. Hunt, you took some exception
9	MS. FREE: I'm there.	9	with my shorthand of "operational goals."
10	COMMISSIONER BALASBAS: I just want to	10	Could you give me the term that you would rather
11	confirm is that on line 34 of this exhibit.	11	hear?
12	So is this demonstrating that PSE's books of	12	A. Customer service and reliability.
13	account includes EDIT in a regulatory liability account?	13	Q. If PSE achieves at least six-out-of-ten customer
14	MS. FREE: That is for GAAP purposes. It is	14	service and reliability goals and achieved at least
15	in a regulatory liability account.	15	90 percent of EBIDTA, incentives are paid under the
16	COMMISSIONER BALASBAS: Okay. Thank you.	16	plan; correct?
17	JUDGE PEARSON: Thank you.	17	A. Yes.
18	Okay. And, Ms. Gafken, the time estimate	18	Q. And financial goals are capped at lower
19	shows here you have questions for Mr. Hunt; is that	19	performance levels for the customer service and
20	correct?	20	reliability goals but are also reduced for financial
21	MS. GAFKEN: 1 do.	21	performance below 100 percent EBIDTA?
22	JUDGE PEARSON: Okay. So, Mr. Hunt, if you	22	A. I'm sorry. I'm not sure I followed your
23	could please approach the witness table.	23	question.
24	MS. GAFKEN: My cross might go a tad bit	24	Q. We'll try it again.
	more than 15 minutes, but I don't think it will go too	25	So financial goals are capped at lower
	Page 393		Page 395
	Thomas Hunt by Ms. Gafken		Thomas Hunt by Ms. Gafken
1	much longer.	1	
2	JUDGE PEARSON: Please raise your right	2	reliability goals, but they are also reduced for
3	hand.	3	financial performance below 100 percent EBIDTA; correct?
5			
1			
4	(Sworn)	4	A. Yes, that's correct.
5	JUDGE PEARSON: Please be seated.	4 5	A. Yes, that's correct.Q. Would you please turn to cross Exhibit TMH-10X.
5 6	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION	4 5 6	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests
5 6 7	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN:	4 5 6 7	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is?
5 6 7 8	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt.	4 5 6 7 8	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE
5 6 7 8 9	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi.	4 5 6 7 8 9	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278.
5 6 7 8 9 10	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and	4 5 6 7 8 9 10	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it.
5 6 7 8 9 10 11	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1?	4 5 6 7 8 9 10 11	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1? A. Okay. Yes, I'm there. Q. Toward the bottom of the page there's a chart entitled "Short-term incentive plan." With respect to PSE's shore-term incentive plan, eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold for payment of an incentive; correct? A. That's one of the two thresholds for payment. Q. And the other finding threshold is achieving at	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has met both of the funding thresholds in the past ten-year period; correct? A. That's correct. Each year both thresholds were met for each of the ten years. Q. And, in particular, there has been no year in the past ten-year period where PSE has not achieved at least six of the customer service and reliability goals; correct?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1? A. Okay. Yes, I'm there. Q. Toward the bottom of the page there's a chart entitled "Short-term incentive plan." With respect to PSE's shore-term incentive plan, eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold for payment of an incentive; correct? A. That's one of the two thresholds for payment. Q. And the other finding threshold is achieving at least six out of ten operational goals; correct?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has met both of the funding thresholds in the past ten-year period; correct? A. That's correct. Each year both thresholds were met for each of the ten years. Q. And, in particular, there has been no year in the past ten-year period where PSE has not achieved at least six of the customer service and reliability goals; correct? A. Correct.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1? A. Okay. Yes, I'm there. Q. Toward the bottom of the page there's a chart entitled "Short-term incentive plan." With respect to PSE's shore-term incentive plan, eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold for payment of an incentive; correct? A. That's one of the two thresholds for payment. Q. And the other finding threshold is achieving at least six out of ten operational goals; correct? A. That's safety and SQI, yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has met both of the funding thresholds in the past ten-year period; correct? A. That's correct. Each year both thresholds were met for each of the ten years. Q. And, in particular, there has been no year in the past ten-year period where PSE has not achieved at least six of the customer service and reliability goals; correct? A. Correct. Q. Would you please turn to cross Exhibit TMH-12X,
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1? A. Okay. Yes, I'm there. Q. Toward the bottom of the page there's a chart entitled "Short-term incentive plan." With respect to PSE's shore-term incentive plan, eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold for payment of an incentive; correct? A. That's one of the two thresholds for payment. Q. And the other finding threshold is achieving at least six out of ten operational goals; correct? A. That's safety and SQI, yes. Q. Is it accurate to call them operational goals?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has met both of the funding thresholds in the past ten-year period; correct? A. That's correct. Each year both thresholds were met for each of the ten years. Q. And, in particular, there has been no year in the past ten-year period where PSE has not achieved at least six of the customer service and reliability goals; correct? A. Correct. Q. Would you please turn to cross Exhibit TMH-12X, which is a copy of Puget Sound Energy's response to
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1? A. Okay. Yes, I'm there. Q. Toward the bottom of the page there's a chart entitled "Short-term incentive plan." With respect to PSE's shore-term incentive plan, eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold for payment of an incentive; correct? A. That's one of the two thresholds for payment. Q. And the other finding threshold is achieving at least six out of ten operational goals; correct? A. That's safety and SQI, yes. Q. Is it accurate to call them operational goals? I did that as a shorthand in my questions, but I	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has met both of the funding thresholds in the past ten-year period; correct? A. That's correct. Each year both thresholds were met for each of the ten years. Q. And, in particular, there has been no year in the past ten-year period where PSE has not achieved at least six of the customer service and reliability goals; correct? A. Correct. Q. Would you please turn to cross Exhibit TMH-12X, which is a copy of Puget Sound Energy's response to Public Counsel data request 281.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	JUDGE PEARSON: Please be seated. CROSS-EXAMINATION BY MS. GAFKEN: Q. Good evening, Mr. Hunt. A. Hi. Q. Would you please turn to your Exhibit TMH-7 and go to page 1? A. Okay. Yes, I'm there. Q. Toward the bottom of the page there's a chart entitled "Short-term incentive plan." With respect to PSE's shore-term incentive plan, eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold for payment of an incentive; correct? A. That's one of the two thresholds for payment. Q. And the other finding threshold is achieving at least six out of ten operational goals; correct? A. That's safety and SQI, yes. Q. Is it accurate to call them operational goals?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes, that's correct. Q. Would you please turn to cross Exhibit TMH-10X. A. Could you let me know which of the data requests numbers that is? Q. Sure. So cross Exhibit TMH-10X is a copy of PSE response to Public Counsel data request to number 278. A. Okay. I have it. Q. In subsection B, the response says that PSE has met both of the funding thresholds in the past ten-year period; correct? A. That's correct. Each year both thresholds were met for each of the ten years. Q. And, in particular, there has been no year in the past ten-year period where PSE has not achieved at least six of the customer service and reliability goals; correct? A. Correct. Q. Would you please turn to cross Exhibit TMH-12X, which is a copy of Puget Sound Energy's response to

		100,	
	Page 396		Page 398
	Thomas Hunt by Ms. Gafken		Thomas Hunt by Ms. Gafken
	two threshold results over the past ten-year period;	1	MS. GAFKEN: Okay.
2	correct?	_	BY MS. GAFKEN:
3	A. That's correct.	3	Q. Mr. Hunt, have you studied the short-term
4	Q. Now, would you please turn to cross Exhibit	4	incentive plan of American Electric Power?
5	TMH-11X, which is a copy of Puget Sound Energy's	5	A. I'm not sure that I've studied it.
6	response to Public Counsel data request 279.	6	We did review the the report from
7	A. Okay.	7	Mr. Garrett's that was included in the data request
8	Q. The response says that performance of EBIDTA	8	and is an exhibit in my TMH-9.
9	below the funding threshold could still result in a	9	Q. Did you review the plan from the company?
10	payment of incentives if low performance was caused by	10	Let me clarify that question.
11	extenuating circumstances; correct?	11	Did you review the short-term incentive plan
12	A. Yeah. Yes. The the data request asked a	12	that American Electric Power has?
13	hypothetical question.	13	A. I don't recall reviewing the entire plan. But
14	One, that hasn't occurred. But in that	14	l
15	hypothetical situation it's possible that the plans	15	Q. Okay. Have you studied the short-term incentive
16	still could fund if if the CEO used that rule that	16	plan of CenterPoint?
17	said there were some extenuating circumstances.	17	A. No.
18	Q. By that rule, you're talking about Rule 8 that	18	Q. Have you reviewed the short-term incentive plan
19	is set out in the response?	19	of Southwestern Public Service Company?
20	A. Correct. That's that is an abstract from the	20	A. I don't recall.
21	plan document which was also shared as as my exhibit	21	Q. Let me ask you this question.
22	TMH-7, that we were looking at. That same one. The	22	Do you recall that Southwestern Public Service
23	rules are shown on page 5 of that Exhibit TMH-7 has 14	23	Company's plan is based on both financial and
24	different rules, many of which are just to clarify for	24	operational measures?
25	employees how the plan would work.	25	A. I'm I'm aware of other plans that have more
	Page 397		Page 399
	Page 397 Thomas Hunt by Ms. Gafken		Page 399 Thomas Hunt by Ms. Gafken
1	Thomas Hunt by Ms. Gafken	1	Thomas Hunt by Ms. Gafken
1	Thomas Hunt by Ms. Gafken Q. Would you please turn to your rebuttal testimony		Thomas Hunt by Ms. Gafken than one measure, but not that have a matrix where the
2	Thomas Hunt by Ms. Gafken Q. Would you please turn to your rebuttal testimony which is Exhibit TMH-8T. And please go to page 5, lines	2	Thomas Hunt by Ms. Gafken than one measure, but not that have a matrix where the two measures are tied together like PSE's plan.
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2 3 4	Thomas Hunt by Ms. Gafken Q. Would you please turn to your rebuttal testimony which is Exhibit TMH-8T. And please go to page 5, lines 18 through 19. A. Okay.	2 3 4	Thomas Hunt by Ms. Gafken than one measure, but not that have a matrix where the two measures are tied together like PSE's plan. Q. Have you studied the short-term intensive plan of Entergy?
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	Page 400	1	Page 402
	Thomas Hunt by Ms. Carson		Thomas Hunt by Chairman Danner
1	Q. Mr. Hunt, you've talked about you did not	1	measure, they are all treated the same in that you miss
2	necessarily study these plans but you've reviewed them	2	one, you drop one row down. You miss two, you drop a
3	and you reviewed Mr. Garrett's report; is that right?	3	second row down.
4	A. I certainly have reviewed Mr. Garrett's report	4	CHAIRMAN DANNER: One of the factors stated,
5	and looked at other some of the cases that were	5	as I recall, the CEO has the discretion to change the
6	mentioned in the report.	6	allotments among departments?
7	Q. And you you distinguished that Puget's is	7	MR. HUNT: So that that is theoretically
8	different from others that that have may look at	8	possible if one department has performed extremely well.
9	both financial and other metrics.	9	The the funding based on the targets might be lower
10	Can you just elaborate on that?	10	there, but the CEO could move, and really the
11	A. Sure. So that's it's still my understanding	11	management
12	is that our our plan which has the matrix of funding	12	CHAIRMAN DANNER: And that's just a
13	as shown like we looked at on page 1. It ties into	13	subjective determination?
14	measures together in a way that you have to accomplish	14	MR. HUNT: Correct. Yep.
15	both at certain instances. That's separate you can	15	CHAIRMAN DANNER: Okay. Thank you.
16	have other plans with more than one measure, but that	16	JUDGE PEARSON: Okay. Thank you.
17	that was what I was saying was unique about our plan,	17	Okay. So AWEC has waived cross for
18	that it looks at both of them together.	18	Mr. Henderson, but we do have some questions from the
19	And then, as well, it limits funding for if	19	bench. If he could come up. Raise your right hand.
20	the performance on the SQI and safety is not above 8 out	20	(Sworn)
21	of 10, it limits the funding. Doesn't matter what	21	JUDGE PEARSON: Please be seated.
22	happens with the financial measure. There's a limit on	22	COMMISSIONER RENDAHL: Good evening,
23	the funding for the for the overall plan. And I	23	Mr. Henderson. It is evening and, yes, there's a
24	don't believe I've seen other any other plan that	24	spotlight on you.
25	does it that way.	25	MR. HENDERSON: It is even brighter.
	D 101		B 100
	Page 401		Page 403
	Page 401 Thomas Hunt by Chairman Danner		Page 403 Duane Henderson by Commissioner Rendahl
1	-	1	C
1 2	Thomas Hunt by Chairman Danner	1	Duane Henderson by Commissioner Rendahl
	Thomas Hunt by Chairman Danner MS. CARSON: Thank you. No further		Duane Henderson by Commissioner Rendahl COMMISSIONER RENDAHL: So the questions I'm
2	Thomas Hunt by Chairman Danner MS. CARSON: Thank you. No further questions.	2	Duane Henderson by Commissioner Rendahl COMMISSIONER RENDAHL: So the questions I'm going to ask are about the Tacoma L+G project, and the
2 3	Thomas Hunt by Chairman Danner MS. CARSON: Thank you. No further questions. JUDGE PEARSON: Thank you.	2 3 4	Duane Henderson by Commissioner Rendahl COMMISSIONER RENDAHL: So the questions I'm going to ask are about the Tacoma L+G project, and the distribution systems upgrades.
2 3 4 5	Thomas Hunt by Chairman Danner MS. CARSON: Thank you. No further questions. JUDGE PEARSON: Thank you. Any questions from the bench?	2 3 4	Duane Henderson by Commissioner Rendahl COMMISSIONER RENDAHL: So the questions I'm going to ask are about the Tacoma L+G project, and the distribution systems upgrades. So, as I understand from your testimony,
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		1	
	Page 404		Page 406
	Duane Henderson by Commissioner Rendahl		Duane Henderson by Commissioner Balasbas
	admit.	1	COMMISSIONER BALASBAS: Could you describe
2	COMMISSIONER RENDAHL: I have a copy that I	2	in more detail how you believe those upgrades are used
3	can give to you.	3	and useful for your customers today?
4	Are you familiar that the fact that there is	4	MR. HENDERSON: So again, they are in
5	an allocation of costs to PSE and to the PSE L+G	5	service. Upgrade three might be the easier one to
6	MR. HENDERSON: And to the plant, yes.	6	explain, which was primarily upsizing of a gate station
7	COMMISSIONER RENDAHL: So regardless of	7	on our South Tacoma supply system.
8	whether there's a deferral or whether it applies to	8	I think as I mentioned in my my testimony
9	rates for these two for upgrade number one and	9	that that South Tacoma supply system not only once
10	upgrade number three, is the Company intending to apply	10	we interconnect with upgrade two being installed,
11	the common cost allocator that the Commission approved	11	supplies a high growth area from Tacoma southward down
12	as a part of that settlement agreement?	12	through JBLM and the DuPont area, a very high growth
13	Or if you're not the right witness, who	13	area.
14	would be the right witness for that?	14	Once that increase in the gate station
15	MR. HENDERSON: I'm not sure I am the right	15	capabilities was installed, we actually saw that the
16	witness. It would be the	16	flow from that gate station exceeded the design flow of
17	COMMISSIONER RENDAHL: Looks like Ms. Free	17	the previous gate station. The gate station before
18	is coming up again.	18	those upgrades were in effect.
19	MS. FREE: May I approach?	19	So there, I think, is a clear example where
20	JUDGE PEARSON: You may.	20	the existing customers are benefitting from that.
21	MS. FREE: Look, another panel.	21	In the case of the four mile the upgrade
22	COMMISSIONER RENDAHL: We're just having so	22	number one, which is the four mile pipeline that goes
22	much fun.	23	extends to the plant location.
23 24	Do you understand my question?	23 24	As I said, it is currently in service. It
	MS. FREE: I do understand your question.	24 25	is capable of being used. Even though the customer
		40	is capable of being used. Even inough the customer
25			Dere 407
25	Page 405		Page 407
	Page 405 Susan Free by Commissioner Rendahl		Duane Henderson by Chairman Danner
1	Page 405 Susan Free by Commissioner Rendahl This is like my third strike because I don't	1	Duane Henderson by Chairman Danner there isn't ready to receive receive the gas because
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Paul Wetherbee by Ms. Cameron-Rulkowski	Paul Wetherbee by Ms. Cameron-Rulkowski
1 modeling.	1 going with a simplified approach.
2 A. Okay.	2 One, you remove somebody out out of model
3 Q. PSE uses the AURORA model to forecast power	3 analysis that we had to do and we were able to
4 costs; correct?	4 consolidate into one model. Open model system.
5 A. Yes.	5 It also improves the efficiency of running the
6 Q. And one of the inputs into the model is	6 model system.
7 hydropower generation; right?	7 Q. Now, do you think that the difference in power
8 A. Yes.	8 costs using the 80 runs that Staff is suggesting versus
9 Q. Historically, PSE would run the model for each	9 a single run is entirely due to AURORA's high-capacity
10 year of hydro data; right?	10 violations?
11 A. Mm-hmm.	1 A. No. There's there's other factors going in
12 Q. And that data now totals 80 years' worth;	12 the model analysis for that.
13 correct?	13 Q. And do you have can you provide the dollar
14 A. Yes. That's right.	14 impact of the of all of the capacity violations in
15 Q. Now, in this case, PSE is proposing that it use	15 that series of the 80 runs?
16 a single average of hydro generation from those years of	16 A. I don't have that off the top of my head.
17 hydro data instead of running the model for each of	17 Q. Are you aware are you aware of any ways that
18 those years and generating an average from those model	18 PSE can prevent AURORA from violating the maximum hydro
19 runs; correct?	19 capacity?
20 A. That's right.	20 A. In the current piece of software that we're
21 Q. In your rebuttal testimony, you discuss the	21 using, it's and we've researched it and talked with
22 hydro capacity logic in the AURORA model and raise the	22 the folks that make AURORA and there's we can't do
23 issue that running AURORA results in violation of a	23 that right with the current system we cannot.
24 capacity constraints; correct?	24 With the new version that comes out, we do
25 A. That's correct.	25 understand there will be a workaround to this problem.
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Paul Wetherbee by Ms. Cameron-Rulkowski	Paul Wetherbee by Ms. Cameron-Rulkowski
1 Q. Would you say that overall AURORA software	1 Q. And when does that new version come out?
2 produces accurate results despite the fact that it may	2 A. I do not know.
3 occasionally violate the minimum and capacity	3 Q. Now, you were in a couple of answers back,
4 restraints?	4 you you were alluding to the two-zone run that PSE is
5 A. I think that's generally that's right. But	5 proposing, and this involves running the model twice.
6 we do quantify in our rebuttal that there's an	6 Is that right?
7 underestimate of the power cost.	7 A. That's right.
8 Q. And, actually, I'm going there. You note on	8 Q. All right. And this means running the model
9 you can refer to it if you need to.	9 once to get the projected power costs and then
10 You note on page 7 of of your rebuttal, which	10 ultimately to to actually get the forecasted power
11 is Exhibit PKW-34CT.	11 costs; is that right?
12 A. I'm sorry.	12 A. No. The first one is to establish the market
13 Q. So that's page 7.	13 price.
14 A. Thank you.	14 Q. Right.
15 Q. At lines 9 to 10.	15 A. And it is a WEC-wide system.
16 A. Okay. Thank you.	16 And the second run is just with the PSE system
17 Q. Now, you note there that, on average, a capacity	17 using that first run input to establish PSE's power
18 constraint was violated 1.7 percent of total hours;	18 costs.
19 right?	19 Q. That's what I thought I said, but thank you for
20 A. That's right.	20 clarifying.
21 Q. Do you believe AURORA's hydro capacity violation	Now, you were talking about efficiencies. It's
22 rate of 1.7 percent is a valid reason for the single run	22 possible you when you were just talking about
23 that PSE is proposing?	23 efficiencies, and I think you were talking about with
A. I would agree that that's that's small.	a two-zone run having to run the model twice for each of
25 However, it also you get additional benefits with	25 the data years. Is is that right?
	Dogo: C0 (400 444

	Page 412	-	Page 414
Paul Wethe	rbee by Ms. Cameron-Rulkowski		William Einstein by Commissioner Rendahl
1 A. Yes.		1	bench request as well.
2 Q. All right	Is it possible, however, to use a	2	JUDGE PEARSON: Number 7.
3 spreadsheet a	t the end of the 80 model runs that staff	3	CHAIRMAN DANNER: All right. Thank you.
4 is proposing i	nstead of using the model a second time	4	JUDGE PEARSON: Okay. I believe that's it.
5 with each run	to calculate the rate your power costs?	5	You are excused.
6 A. Right. TI	at's what we were trying to avoid was	6	And the next witness is William Einstein. I
7 use the the c	apacity of the model to to calculate	7	believe we have bench questions for Mr. Einstein.
8 some of these	contingency reserves type costs which you	8	Raise your right hand.
9 get at with the	wo-zone model.	9	(Sworn)
10 So instead	l of just doing one run, the old way	10	JUDGE PEARSON: Please be seated.
11 was to do 80 ru	ns, run through spreadsheets to	11	COMMISSIONER RENDAHL: Good evening,
12 average you	know, create one average from those	12	Mr. Weinstein Mr. Einstein. Excuse me. It's been a
13 outputs.		13	long hearing. Long day.
14 Q. And so v	vhat I'm getting at is if the company	14	Okay. So related to the water heater rental
15 used the spre	adsheet, it would be 80 runs and not 160	15	program.
16 runs; correct?		16	MR. EINSTEIN: Yes.
17 A. It would b	e 160 runs, because you would have to	17	COMMISSIONER RENDAHL: Okay. So I
18 run it twice for	each of the different years.	18	understand from the testimony you expect a sale on the
19 Q. Now, if y	ou used the spreadsheet, however, then	19	water heater rental program to close after the
20 you would on	y have to run it you wouldn't have to	20	conclusion of this rate case unless you have new
21 run the model	twice for each of the each of the hydro	21	information today.
22 years; right?		22	MR. EINSTEIN: Yes, it will conclude after.
23 A. I'm tracki	ng you. So your assumption so the	23	We're still in the process of negotiating
24 answer to that	vould be "yes." If you did not also use	24	the the final details of the sale with the proposed
25 the model to ca	Iculate some of the contingency reserve	25	buyer, and then the we expect that it would close,
	Page 413		Page 415
Paul Wet	erbee by Chairman Danner		William Einstein by Commissioner Rendahl
1 to calculate co	st. So you would go all the way back to	1	yes, I believe after that.
2 the old way.		2	COMMISSIONER RENDAHL: Okay. So in that
3 MS. CA	MERON-RULKOWSKI: Thank you. That's	3	case, how and when does the company propose handling the
4 II	6		
4 all my questior	5.	4	outstanding negative reserve of approximately \$188,000
	PEARSON: Okay. Any redirect?	4 5	outstanding negative reserve of approximately \$188,000 associated with the amortization of unrecovered
5 JUDGE		_	
5 JUDGE 6 MR. KU	PEARSON: Okay. Any redirect?	5	associated with the amortization of unrecovered
5 JUDGE 6 MR. KU 7 JUDGE	PEARSON: Okay. Any redirect? IZMA: No, Your Honor.	5 6	associated with the amortization of unrecovered depreciation for the gas conversion burner program, as I
5 JUDGE 6 MR. KU 7 JUDGE 8 Questio	PEARSON: Okay. Any redirect? IZMA: No, Your Honor. PEARSON: Okay. Thank you.	5 6 7	associated with the amortization of unrecovered depreciation for the gas conversion burner program, as I understand they were linked a bit in this case.
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1	Page 416		Page 418
-	Susan Free by Commissioner Rendahl	-	William Einstein by Commissioner Rendahl
1	MS. FREE: I think that negative reserve is		us the number of customers who have had replacement
2	actually in our test year rate base.	2	water heaters installed and also the number of those
3	And so I'm going to give you two scenarios,	3	that have been repaired over the course of the program.
4	because I don't know that for sure.	4	Does that make sense?
5	If it is, we could remove it at the	5	MR. EINSTEIN: The entire life of the
6	compliance filing, as it will be held over in a deferred	6	program?
7	account until with the water heaters until that gets	7	COMMISSIONER RENDAHL: That's a good
8	resolved.	8	question.
9	If it's not in our rate base, then there's	9	MR. EINSTEIN: You are talking 60 years.
10	really nothing that needs to be done.	10	COMMISSIONER RENDAHL: Probably the last
11	COMMISSIONER RENDAHL: So I guess maybe this	11	20 years.
12	is a bench request for you all to respond and clarify	12	MR. EINSTEIN: Okay.
13	the treatment of that.	13	COMMISSIONER RENDAHL: All right. Thank
14	And that would be bench request 8.	14	you.
15	Okay. Mr. Einstein, I still have questions	15	CHAIRMAN DANNER: Okay. Mr. Einstein, my
16	for you.	16	question won't take 20 years.
17	CHAIRMAN DANNER: Actually, Ms. Free.	17	So and it's not a question for Ms. Free,
18	MR. EINSTEIN: We've been tied at the hip	18	but basically it's based on Ms. Free's rebuttal
19	for a while.	19	testimony.
20	COMMISSIONER RENDAHL: I don't think she has	20	So in her rebuttal testimony this is in
21	an answer to this one, but you might be surprised.	21	regard to Green Direct. She proposes a tracking and
22	CHAIRMAN DANNER: No, I have a question.	22	reporting procedure for the Green Direct, and that just
23	COMMISSIONER RENDAHL: Oh, you have a	23	sort of kicked the question to me.
24	question.	24	Does the record in this case demonstrate
25	So how many of your current customers have	25	that the Company's proposed revenue requirement does not
	Page 417		Page 419
	William Einstein by Commissioner Rendahl		Susan Free by Chairman Danner
1	had replacement water heaters installed during the	1	include collecting the cost of the Green Direct program
2	course of their agreements? Do you know? Roughly.	2	through general rates?
	5 , 5 ,		5 5
1 5	MR. EINSTEIN: No. I don't know that number	З	Good thing you stayed.
3	MR. EINSTEIN: No, I don't know that number off the top of my head.	3	Good thing you stayed. MS_EREF: We have not the power costs
4	off the top of my head.	4	MS. FREE: We have not the power costs
	off the top of my head. COMMISSIONER RENDAHL: Okay. And do you	4 5	MS. FREE: We have not the power costs for the PPAs are included in base rates. The schedule
4 5 6	off the top of my head. COMMISSIONER RENDAHL: Okay. And do you know, from the data that you gather on this program, how	4 5 6	MS. FREE: We have not the power costs for the PPAs are included in base rates. The schedule 139 revenues are not included. And we've also removed
4 5 6 7	off the top of my head. COMMISSIONER RENDAHL: Okay. And do you know, from the data that you gather on this program, how you determine whether a water heater is replaced or	4 5 6 7	MS. FREE: We have not the power costs for the PPAs are included in base rates. The schedule 139 revenues are not included. And we've also removed the fixed cost. So those are not included.
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	cket nos. DE-190529 and DG-190530 (Consolida		
1	Page 420		Page 422
	Jon Piliaris by Chairman Danner		Jon Piliaris by Commissioner Balasbas
1	CHAIRMAN DANNER: Good evening.	1	even show of a grounding, as an impact to other
2	MR. PILIARIS: So the question was again?	2	customers in their rate. It would literally be that
3	Can you clarify?	3	small.
4	CHAIRMAN DANNER: Okay. So the question	4	But for sake of transparency, we would be
5	was: In Ms. Free's testimony, she proposes a tracking	5	happy to include that as part of the compliance filing
6	reporting procedures for the Green Direct program.	6	to make it transparent and clear that all those revenues
7	And my question to Mr. Einstein was: Does	7	are included and so it's clear how those revenues
8	the record demonstrate that the Company's proposed	8	match up with the PPA cost.
9	revenue requirement does not include collecting the	9	CHAIRMAN DANNER: All right. Thank you for
10	costs of the Green Direct program through general rates?	10	the offer. I'm not sure if it's necessary or we'll
11	She punted the question he punted the	11	see.
12	question to Ms. Free. Ms. Free answered that: Well, in	12	MR. PILIARIS: We're open to it.
13	fact, there are components, the PPAs, in base rates.	13	CHAIRMAN DANNER: Thank you.
14	And so I asked the question: Is this	14	COMMISSIONER BALASBAS: So, Mr. Piliaris,
15	program self-sufficient? And the answer was: Over	15	just to follow up on that, though, if the costs of the
16	time.	16	PPAs are included in base rates, I mean, is that
17	And so I'm just wondering if you can help me	17	effectively, if you will, I guess, like, a one-time
18	understand all that.	18	subsidy until the costs of 139 and the rates charged to
19	MR. PILIARIS: Okay. So as Ms. Free noted,	19	139 customers cover those costs within there?
20	the cost of the PPAs are included in in the portfolio	20	I mean I'm just trying to understand what
21	costs.	21	you mean when the cost of PPAs are included in base
22	You might recall in 139 there's a credit, an	22	rates but the revenues and the credits from schedule 139
23	energy credit. And that's meant to represent the value	23	are not.
24	of the foregone power that would no longer be used to	24	Because, to me, that seems like you have
25	serve those 139 customers, redirect customers. Instead	25	a you're not, as you said just a minute ago, maybe
	Page 421		Page 423
	Jon Piliaris by Chairman Danner		Jon Piliaris by Commissioner Balasbas
1	they would be used they would be served by the Green	1	not showing the full, if you will, akin to a balance
2	Direct PPAs.		
	Bildott 1718.	2	sheet of the schedule 139 costs and revenues there.
3	So I believe Ms. Free is correct that we	2 3	sheet of the schedule 139 costs and revenues there. So I'm just so help me out here to, you
3 4			
4	So I believe Ms. Free is correct that we	3	So I'm just so help me out here to, you
4	So I believe Ms. Free is correct that we didn't include 139 revenue in the calculation because we	3 4	So I'm just so help me out here to, you know, maybe put my mind at ease that by including the
4 5	So I believe Ms. Free is correct that we didn't include 139 revenue in the calculation because we were not also including the credit as well. And if you if you look at the cost of the	3 4 5	So I'm just so help me out here to, you know, maybe put my mind at ease that by including the cost of the PPAs in base rates that all customers are
4 5 6	So I believe Ms. Free is correct that we didn't include 139 revenue in the calculation because we were not also including the credit as well. And if you if you look at the cost of the	3 4 5 6	So I'm just so help me out here to, you know, maybe put my mind at ease that by including the cost of the PPAs in base rates that all customers are not subsidizing the 139 customers.
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20 (Sworn) 20 operating and maintenance expense at Colstrip. 21 JUDGE FEARSON: Okay. Thank you. 21 A. Okay. Great. 22 CHAIRMAN DANNER: All right. Good evening, 23 A. Okay. Great. 23 Ms. Scanlan. 24 Colstrip Units 1 and 2 just closed at the end of 24 So you heard Mr. Piliaris, Ms. Free, and 24 A. Correct. Actually, they shut down January 3rd 25 Ms. Scanlan by Chairman Danner Page 425 Page 427 Katie Scanlan by Chairman Danner Ronald Roberts by Ms. Cameron-Rulkowski 1 Q. Thank you for that clarification. 2 Staff satisfied with PSE's proposals and does your 3 in O&M costs from Colstrip Units 1 and 2 to Units 3 and 3 rig Liu, who also testified on power costs related to 9 G. Correct. 9 9 ChArd PSE is asking for recovery of these costs; 7 right? 11 A. That is true. 12 Q. And PSE is asking for recovery of these costs; 13 you just heard now that you feel that over time that 13 portion of the common expenses that will continue to basically 14 this program is self-sufficient and we're not basically 14	18	and take her out of order because it is a follow-up	18	Q. Good evening, Mr. Roberts. We're not going to
21 JUDGE PEARSON: Okay. Thank you. 21 A. Okay. Great. 22 CHAIRMAN DANNER: All right. Good evening, 23 Ms. Scanian. 23 Ms. Scanian. 24 So you heard Mr. Piliaris, Ms. Free, and 25 4 A. Correct. Actually, they shut down January 3rd 25 Mr. Einstein. I just wanted to follow up. You heard 25 and 4th, just slightly after the end of '19. Page 425 Katie Scanian by Chairman Danner Page 425 Ronald Roberts by Ms. Cameron-Rulkowski 1 their explanation of this, and I just want to know is 1 3 recommediation remain that the Company should just work 1 In this case, PSE shifted over a million dollars 3 reget 427 SA Correct. 2 In this case, PSE shifted over a million dollars 3 in O&M costs from Colstrip Units 1 and 2 to Units 3 and 4 4; right? 5 MS. SCANLAN: Yes, my recommendation remains 6 A. Correct. 9 Q. Colstrip 1 and 2 are in a decommissioning phase; 10 10 CHAIRMAN DANNER: Okay. So I will go back 11 A. That is true. 11 and look at that again. 11	19	question on Green Direct.	19	talk about taxes. Instead I would like to talk about
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23 recommend that there needs to be more process 23 A. Correct. 24 MS. SCANLAN: Correct. 24 Q. And PSE plans to sell Colstrip 4; right?	21	of costs and the revenues and the need for transparency	21	degradation estimated at \$20 million for replacement;
24 MS. SCANLAN: Correct. 24 Q. And PSE plans to sell Colstrip 4; right?	22	and you still, as you said, recommend you still	22	correct?
	23	recommend that there needs to be more process	23	A. Correct.
25 COMMISSIONER RENDAHL: or discussion? 25 A. That is the intention.	24	MS. SCANLAN: Correct.	24	Q. And PSE plans to sell Colstrip 4; right?
	25	COMMISSIONER RENDAHL: or discussion?	25	A. That is the intention.

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	Page 428		Page 430
	Ronald Roberts by Ms. Cameron-Rulkowski		Ronald Roberts by Ms. Cameron-Rulkowski
1	Q. Is it fair to say that these factors will	1	A. Correct.
2	influence the actual major maintenance cost for Colstrip	2	Q. And as I mentioned, the numbers in the exhibit
3	Units 3 and 4?	3	are confidential.
4	A. They could, but that project has not been	4	But in your testimony, you have averaged the
5	approved in the budget. So it's something that will	5	variances between budget and actual amounts. And and
б	come later in time and hopefully at post-closing to our	б	that's at the top of page 17 in your rebuttal testimony,
7	disposition of Unit 4 so we would have no share in the	7	if you need to look.
8	cost of that.	8	So you didn't talk about confidential numbers in
9	Q. All right. And so you were just referring to	9	your testimony, but you provided an average; correct?
10	the sale; correct	10	A. Correct.
11	A. Correct.	11	Q. All right. I want to ask you about a specific
12	Q in the answer you just gave?	12	variance and I want to ask you about the percentage of
13	A. Correct.	13	the variance so that we don't disclose the amounts.
14	CHAIRMAN DANNER: Mr. Roberts, could you	14	So I want you to please look at the at the
15	speak into the microphone?	15	variance for Colstrip Units 3 and 4 for the year 2017.
16	MR. ROBERTS: Certainly. Thank you.	16	Are you there?
17	BY MS. CAMERON-RULKOWSKI:	17	A. Yes.
18	Q. With regard to to the the super heat	18	Q. Now, this amount is significantly more than
19	section replacement and any other issues with Colstrip	19	the than the average that you calculated and you used
20	Unit 4, those factors could influence the actual major	20	in your testimony; right?
21	maintenance costs for Colstrip Colstrip Units 3 and	21	A. Correct.
22	4; right?	22	Q. All right. Now, can we talk about without
23	A. They could. It could proportionately change our	23	without violating confidentially, can we talk about what
24	share of the costs of that project going forward; so	24	this average I'm sorry, about what this percentage
25		25	variance is?
	Page 429		Page 431
	Ronald Roberts by Ms. Cameron-Rulkowski		Ronald Roberts by Ms. Cameron-Rulkowski
1	Q. And is it fair to say that that those very	1	A. Yes.
2	things could impact the difference between budgeted and	2	Q. All right. So it looks like the variance
3	actual costs?	3	
4	A. They could. However, when we do budgets at	4	about is about well, it looks like the the
5	Colstrip, it's usually just a one-year approval.	5	variance represents an actual amount that is about
6	And on Units 3 and 4, historically, we've been	6	
7	close budget to what we actually spend.	7	A. That is close; yes.
8	Now, the closure and potential disposition of	8	Q. Thank you. I don't have any further questions.
9	our interest in Unit 4, depending on what timing that	9	JUDGE PEARSON: Thank you.
10	happens and the approvals happen with that could impact	10	Any redirect?
11	that year.	11	MR. KUZMA: No, Your Honor.
11	Q. All right. You may have just covered this, but	11	JUDGE PEARSON: Okay. Do we have any
13	at any rate, PSE is proposing to recover in rates the	13	guestions from the bench for this witness? Nope. Okay.
14	budgeted amounts from Talen for O&M expenses for	14	You're excused. Thank you.
14	Colstrip Units 3 and 4 and not the actual amount of O&M	14	MR. ROBERTS: Thank you.
15	expense; is that correct?	16	JUDGE PEARSON: Next we will call staff
10	A. That's correct.	10	witness, Chris McGuire.
17	Q. I would like you to take a look at JL-15C. Take	11/	(Sworn)
	a second to find that.		JUDGE PEARSON: Please be seated.
19	A. Did you say "JL"?	19 20	Just have some bench questions for you,
20	Q. JL-15C. And thank you. This is a		Mr. McGuire.
21	confidential exhibit. But I'm going to avoid try to	21	
22		22	COMMISSIONER BALASBAS: Good evening.
23	avoid asking you about confidential information. This exhibit is based on a data request response	23 24	MR. McGUIRE: Good evening. COMMISSIONER BALASBAS: So in your response
0.1			
24			
	from the Company; correct?	24 25	

	cket Nos. UE-190529 and UG-190530 (Consolida	iou,	
	Page 432		Page 434
	Chris McGuire by Commissioner Balasbas		Chris McGuire by Commissioner Balasbas
1	costs associated with Colstrip Units 3 and 4 is a	1	the deadline for closure is, we don't know the closure
2	tracking and true-up mechanism; is that correct?	2	date.
3	MR. McGUIRE: That's correct.	3	So, I mean, are we going to be ready to, you
4	COMMISSIONER BALASBAS: So why not do	4	know, when the time comes when the decommissioning of
5	that why not establish that tracking mechanism now in	5	the remediation costs start that we'll be ready to track
6	this proceeding versus waiting until a future	6	them?
7	proceeding?	7	MR. McGUIRE: That's a good question.
8	MR. McGUIRE: The reason why we didn't make	8	If, for example, the facility were closed
9	that recommendation in this proceeding is because we	9	tomorrow, it may be problematic not to have some
10	believed that it was dependent on the Commission	10	tracking and true-up mechanism in place which argues for
11	interpreting it was dependent upon a specific	11	potentially setting up a tracking and true-up mechanism
12	interpretation of CETA.	12	now to protect against the possibility that the plant
13	And until the Commission makes that	13	just closes much earlier than we thought.
14	interpretation, we believed that it was inappropriate to	14	It's I wouldn't say that we would be in a
15	force something upon the Commission that maybe the	15	particularly precarious position at that point. Because
16	Commission didn't want.	16	if we do nothing now through rates, the company is
17	CHAIRMAN DANNER: So specifically what in	17	recovering decommissioning and remediation costs. And
18	CETA what is the discretion that we have or the	18	it is it is accumulating a reserve for
19	uncertainty that we have?	19	decommissioning and remediation costs, and that will
20	MR. McGUIRE: There are a couple of things	20	exist when facility is closed.
21	that are uncertain.	21	And at that point we're just left with the
22	One of them is CETA requires that coal-fired	22	question of what to do with the amount the estimated
23	facilities be removed from rates by 2025. But it	23	amount that has not yet been recovered, and at that
24	explicitly says that D&R, decommissioning and	24	point you could set up a mechanism to deal with that
25	remediation costs don't need to be accelerated to 2025.	25	situation.
	Page 433		Page 435
	Chris McGuire by Commissioner Balasbas		Chris McGuire by Commissioner Balasbas
1	D&R is typically recovered through	1	CHAIRMAN DANNER: Another option is the
1 2	D&R is typically recovered through depreciation over the life of an asset. But CETA allows	1 2	CHAIRMAN DANNER: Another option is the while Puget is not using the power from Colstrip, that
			•
2	depreciation over the life of an asset. But CETA allows	2	while Puget is not using the power from Colstrip, that
2 3 4	depreciation over the life of an asset. But CETA allows for recovery of D&R beyond 2025.	2	while Puget is not using the power from Colstrip, that Colstrip continues to operate. And so under that
2 3 4	depreciation over the life of an asset. But CETA allows for recovery of D&R beyond 2025. There's also a question about whether or not	2 3 4	while Puget is not using the power from Colstrip, that Colstrip continues to operate. And so under that scenario, D&R costs might be pushed out. So, basically,
2 3 4 5	depreciation over the life of an asset. But CETA allows for recovery of D&R beyond 2025. There's also a question about whether or not the term "prudently incurred" means something specific.	2 3 4 5	while Puget is not using the power from Colstrip, that Colstrip continues to operate. And so under that scenario, D&R costs might be pushed out. So, basically, your recommendation is just wait?
2 3 4 5 6	depreciation over the life of an asset. But CETA allows for recovery of D&R beyond 2025. There's also a question about whether or not the term "prudently incurred" means something specific. One could interpret the term "prudently	2 3 4 5 6	while Puget is not using the power from Colstrip, that Colstrip continues to operate. And so under that scenario, D&R costs might be pushed out. So, basically, your recommendation is just wait? MR. McGUIRE: Yes. My recommendation is to
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	Chris McGuire by Mr. Kuzma		Chris McGuire by Mr. Kuzma
1	CHAIRMAN DANNER: Thank you very much.	1	Q. Right. And the statute says and the part
2	JUDGE PEARSON: Is that it?	2	that you're mentioning the Commission shall allow
3	Thank you, Mr. McGuire.	3	nondiscretionary "shall" allow in electric rates all
4	Mr. McGuire, on that?	4	decommissioning and remediation costs prudently incurred
5	MR. McGUIRE: While I have the floor,	5	by an investor-owed utility for a coal-fired resource?
6	there's a bunch of chocolate over there by the door and	6	A. Correct.
7	I hope to say that before I got questioned so I could	7	Q. So if it's incurred and it's prudently incurred,
8	distract you from the content of my responses. But	8	the decommission or remediation cost, then the
9	anyone who wants chocolate.	9	Commission shall allow it in rates?
10	MR. KUZMA: I have a few follow-up	10	A. Yes. It shall allow it in rates, but is it
11	questions. It won't take long.	11	prudently incurred before it is incurred?
12	CROSS-EXAMINATION	12	Are we talking about the actual costs, the cash
13	BY MR. KUZMA:	13	flow associated with decommissioning and remediation or
14	Q. So is your is your concern with respect to a	14	are we talking about expenses that the company currently
15	tracking mechanism or is your concern with respect to	15	books?
16	allowing recovery in rates of D&R costs?	16	Q. But then I thought Chairman Danner mentioned a
17	A. I think my concern is more the former. It's	17	tracking and true-up mechanism where the prudence could
18	related to what seems like might be a need for a	18	be determined sort of after the fact and could be
19	tracking and true-up mechanism to in order for PSE to	19	tracked and then the prudence determination could be
20	comply with CETA.	20	made and then trued-up accordingly to whether those
21	I'm not particularly worried about recovery. I	21	expenses were or were not prudently incurred?
22	just want to make sure that, essentially, PSE complies	22	A. Are you asking this question with the assumption
23	with with CETA.	23	that all decommissioning and remediation costs all
24	Q. Okay. And then you had mentioned the prudently	24	projected decommissioning and remediation costs are
25	incurred being a precondition to inclusion in the	25	collected over the life of the asset or beyond the
	Page 437		Page 439
	Chris McGuire by Mr. Kuzma		Jason Ball by Commissioner Rendahl
1	tracking or inclusion in rates?	1	closure of the asset?
2	A. Inclusion in well, both, actually. The	2	Q. It would be collected during the life and after
3	latter, I think, is less of a concern.	3	the life.
4	I think that's not that's not the way I would	4	A. Yes. Then I don't see why that would be an
5	interpret the statute to preclude the company from	5	issue.
6	recovering decommissioning and remediation costs before	6	Q. Okay. Thank you.
7	they are actually incurred. That's not that's not		
8		7	JUDGE PEARSON: Thank you, Mr. McGuire.
	reasonable because ordinarily we would expect customers	7 8	JUDGE PEARSON: Thank you, Mr. McGuire. Ms. Cameron-Rulkowski, it doesn't look like
9			
	reasonable because ordinarily we would expect customers	8	Ms. Cameron-Rulkowski, it doesn't look like
9	reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning	8 9	Ms. Cameron-Rulkowski, it doesn't look like had you any redirect?
9 10 11	reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning and remediation costs, so why wait until those	8 9 10	Ms. Cameron-Rulkowski, it doesn't look like had you any redirect? MR. CALLAGHAN: No, Your Honor.
9 10 11 12	reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning and remediation costs, so why wait until those expenses those costs are incurred to recover them	8 9 10 11 12	Ms. Cameron-Rulkowski, it doesn't look like had you any redirect? MR. CALLAGHAN: No, Your Honor. JUDGE PEARSON: Next witness is Christina Stewart. Jason Ball, sorry.
9 10 11 12 13	reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning and remediation costs, so why wait until those expenses those costs are incurred to recover them from rate payers. So it's that interpretation doesn't	8 9 10 11 12 13	Ms. Cameron-Rulkowski, it doesn't look like had you any redirect? MR. CALLAGHAN: No, Your Honor. JUDGE PEARSON: Next witness is Christina Stewart. Jason Ball, sorry. MS. STEWART: You don't need me. Sorry.
9 10 11 12 13 14	reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning and remediation costs, so why wait until those expenses those costs are incurred to recover them from rate payers.	8 9 10 11 12 13 14	Ms. Cameron-Rulkowski, it doesn't look like had you any redirect? MR. CALLAGHAN: No, Your Honor. JUDGE PEARSON: Next witness is Christina Stewart. Jason Ball, sorry.
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9 10 11 12 13 14 15 16	reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning and remediation costs, so why wait until those expenses those costs are incurred to recover them from rate payers. So it's that interpretation doesn't doesn't make a lot of sense to me. So it's, again, not the inclusion in rates that worries me as much as the appearance that PSE can only collect exactly the dollar	8 9 10 11 12 13 14 15 16	Ms. Cameron-Rulkowski, it doesn't look like had you any redirect? MR. CALLAGHAN: No, Your Honor. JUDGE PEARSON: Next witness is Christina Stewart. Jason Ball, sorry. MS. STEWART: You don't need me. Sorry. JUDGE PEARSON: Please raise your right hand. (Sworn)
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	cket 103. 0E-190329 and 0G-190330 (Consolida	ieu,	
	Page 440		Page 442
	Jason Ball by Commissioner Rendahl		Shawn Collins by Mr. Ffitch
1	rate increases equally across the two existing energy	1	JUDGE PEARSON: If you would like to that's.
2	blocks and is open to exploring an expansion of the	2	MR. FFITCH: After you swear him.
3	first block energy rate from 600 kilowatt hours to	3	(Sworn in)
4	800 kilowatt hours.	4	EXAMINATION
5	Do you also support exploring that	5	BY MR. FFITCH:
6	modification?	6	Q. Good evening, Mr. Collins.
7	MR. BALL: I do.	7	A. Good evening.
8	COMMISSIONER RENDAHL: Okay. And so	8	Q. Could you please state your name and spell your
9	should is it your recommendation that the Commission	9	last name for the record?
10	implement that proposal in this case or to consult with	10	A. Shawn Collins, C-o-I-I-i-n-s.
11	a low income advisory group or CRAG to review and make a	11	Q. What is your current position?
12	proposal in a future rate case?	12	A. Director of The Engery Project at the
13	MR. BALL: I believe consulting with the	13	Opportunity Council.
14	CRAG would be a wise choice.	14	Q. Have you filed testimony in this case that's
15	COMMISSIONER RENDAHL: Okay. Do you have	15	been marked SMC-1T and SMC-2?
16	concerns about this change?	16	A. I have.
17	MR. BALL: Not necessarily. The original	17	MR. FFITCH: And, Your Honor, those have
18	600-kilowatt-hour block was used to share equitably the	18	been admitted into the record by stipulation.
19	low cost of power across the region.	19	BY MR. FFITCH:
20	If we're going to set a new block for to	20	Q. Mr. Collins, do you have any changes or
21	address issues if we're going to set a new block	21	corrections to your testimony?
22	based upon a fundamentally different premise, then I	22	A. No, I do not.
23	would just suggest that we spend a little bit more time	23	MR. FFITCH: Your Honor, Mr. Collins is
24	researching and understanding the fundamentals that led	24	available for questions.
25	to that block number.	25	JUDGE PEARSON: Thank you.
	Page 441		Page 443
	Jason Ball by Commissioner Rendahl		Shawn Collins by Chairman Danner
1	COMMISSIONER RENDAHL: And whether they	1	CHAIRMAN DANNER: Good evening, Mr. Collins.
2	still hold?	2	The Energy Project proposed the Commission
3	MR. BALL: Correct. And whether 600	3	order residential rate increases to be spread equally
4	kilowatt hours is the correct amount for the first block	4	across energy uses blocks but does not provide a
5	as a lifeline rate.	5	calculation to illustrate the recommendation.
6	COMMISSIONER RENDAHL: Okay. Thank you.	6	What's your proposed method for equal
7	That's all I have.	7	percentage allocations?
8	JUDGE PEARSON: That's it.	8	MR. COLLINS: We did not specify the
9	Thank you, Mr. Ball. You're excused.	9	methodology there. My expectation was that potentially
10	And the next witness is Glen Watkins for	10	that would be discussed similarly to the block rate
11	Public Counsel.	11	adjustment with with a CRAG. So, specifically, I do
12	MS. GAFKEN: Judge Pearson, it is	12	not have a recommendation for that.
13	approaching 10 o'clock on the east coast, so I had told	13	CHAIRMAN DANNER: Okay. Do you agree with
14	him that he could drop off.	14	Puget's understanding of this agreement with your
15	JUDGE PEARSON: Okay. We're fine. Okay.	15	proposal?
16	We're fine.	16	MR. COLLINS: We do. Our concern,
17	MS. GAFKEN: Do you want to talk to him	17	primarily, was focused on the the the tier 2 a
18	tomorrow?	18	third-tier addition or higher usage adding the costs for
19	JUDGE PEARSON: We're going to finish	19	that. So we're in agreement with with Piliaris'
20	tonight. If we need anything we can issue a bench	20	trial testimony.
21	request after the fact.	21	CHAIRMAN DANNER: Let me ask another
22	So next is Shawn Collins from The Engery	22	question. This is among your recommendations. You
23	Project.	23	propose that Puget develop and submit a disconnection
24	MR. FFITCH: Your Honor, while Mr. Collins	24	reduction plan for approval.
25	is coming up, do you want me to introduce the witness?	25	Can you expand a little bit on both process
25	0 1 / 5		

Page 444	Page 446
F aye 444 Shawn Collins by Chairman Danner	Brian Collins by Ms. Gafken
1 and the timeline for this kind of plan?	1 available"; correct?
2 MR. COLLINS: Sure. Based on the data	2 A. That is correct.
	3 Q. Further down the page further down the page,
	4 beginning at line 27 and continuing on to page 6,
-	
 And so our concern is with the policies 8 for for disconnections and wanting to minimize those 	
9 to the extent possible.	9 PSE's use of its GIS system to determine costs
10 And so for us, I think as I understood,	10 associated with its special contractors; correct? 11 A. That's correct.
11 within a year of the closure of this rate case would be	
12 acceptable to us in terms of formulating a plan, the	12 Q. Did you hear Mr. Taylor's testimony earlier in
13 sooner the better, in my opinion, though.	13 the hearing where Mr. Taylor testified that the Mains
14 CHAIRMAN DANNER: Okay. That's all I had.	14 serve a multitude of customers and that special customer
15 JUDGE PEARSON: Thank you. You're excused.	15 contracts were allocated a portion of the Mains?
16 And our last witness is Brian Collins.	16 A. I did hear that earlier today, yes.
17 If you raise your right hand.	17 Q. PSE's GIS study did not result in a direct
18 (Sworn)	18 assignment of dedicated facilities but rather it
19 JUDGE PEARSON: Okay. Please be seated.	19 resulted in an allocation of common use mains that
20 Mr. Pepple, you don't have a microphone. I don't know	20 served special contract customers among others; correct?
21 if you want to introduce your witness.	21 MR. PEPPLE: I'm going to object to that I
22 Go ahead.	22 don't think that was Mr. Taylor's testimony. I think
23 EXAMINATION	23 that mischaracterizes what he said.
24 BY MR. COLEMAN:	24 MS. GAFKEN: I'm not asking about
25 Q. Good evening, Mr. Collins.	25 Mr. Taylor's testimony. I'm asking Mr. Collins to
Page 445	Page 447
Brian Collins by Mr. Coleman and Ms. Gafken	Brian Collins by Ms. Gafken
1 A. Good evening.	1 evaluate the premise of the testimony.
2 Q. Are you the same Brian Collins who caused to be	2 MR. COLLINS: I guess I would disagree with
3 filed Exhibit BCC-1T in this case?	3 you.
4 A. lam.	4 JUDGE PEARSON: Hold on a second.
5 Q. Do you have any changes or corrections to that	5 Mr. Pepple, did you want to respond to that?
6 document?	6 The microphone.
7 A. I do not.	7 MR. PEPPLE: It just died.
8 Q. If you were to be asked those questions today,	8 As long as Mr. Collins understand that he's
9 would you provide the same answers?	9 not adopting Mr. Taylor's testimony, that he's he's
10 A. I would.	10 not speaking to what Mr. Taylor testified to.
11 MR. COLEMAN: Your Honor, Mr. Collins is	11 JUDGE PEARSON: Okay. Is that clear,
12 available for cross-examination.	12 Mr. Collins?
13 JUDGE PEARSON: Thank you.	13 MR. COLLINS: Yes.
14 Ms. Gafken.	14 JUDGE PEARSON: Go ahead, Ms. Gafken, when
15 MS. GAFKEN: Thank you.	15 you get your mic back.
16 CROSS-EXAMINATION	16 BY MS. GAFKEN:
17 BY MS. GAFKEN:	16 BY MS. GAFKEN:17 Q. I'll reask the question.
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. 	 BY MS. GAFKEN: Q. I'll reask the question. A. Okay.
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. A. Good evening. 	 BY MS. GAFKEN: Q. I'll reask the question. A. Okay. Q. PSE's GIS study did not result in a direct
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. A. Good evening. Q. Would you please turn to your cross-answering 	 BY MS. GAFKEN: Q. I'll reask the question. A. Okay. Q. PSE's GIS study did not result in a direct assignment of dedicated facilities, but rather it
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. A. Good evening. Q. Would you please turn to your cross-answering testimony BCC-1T, page 5, and go to lines 8 through 10. 	 16 BY MS. GAFKEN: 17 Q. I'll reask the question. 18 A. Okay. 19 Q. PSE's GIS study did not result in a direct 20 assignment of dedicated facilities, but rather it 21 resulted in an allocation of common use mains that
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. A. Good evening. Q. Would you please turn to your cross-answering testimony BCC-1T, page 5, and go to lines 8 through 10. A. Okay. I'm there. 	 BY MS. GAFKEN: Q. I'll reask the question. A. Okay. Q. PSE's GIS study did not result in a direct assignment of dedicated facilities, but rather it resulted in an allocation of common use mains that served special contract customers among others; correct?
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. A. Good evening. Q. Would you please turn to your cross-answering testimony BCC-1T, page 5, and go to lines 8 through 10. A. Okay. I'm there. Q. There you state: "The direct assignment of 	 BY MS. GAFKEN: Q. I'll reask the question. A. Okay. Q. PSE's GIS study did not result in a direct assignment of dedicated facilities, but rather it resulted in an allocation of common use mains that served special contract customers among others; correct? A. I would agree that those mains do serve other
 BY MS. GAFKEN: Q. Good evening, Mr. Collins. A. Good evening. Q. Would you please turn to your cross-answering testimony BCC-1T, page 5, and go to lines 8 through 10. A. Okay. I'm there. 	 BY MS. GAFKEN: Q. I'll reask the question. A. Okay. Q. PSE's GIS study did not result in a direct assignment of dedicated facilities, but rather it resulted in an allocation of common use mains that served special contract customers among others; correct?

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C C		Page 450
-		JUDGE PEARSON: That works. And we will
•		designate that as a bench exhibit. It looks like it
	_	will be bench Exhibit 11. So we'll expect to receive
	_	that on the 18th.
	-	And, actually, I would like to just take a
-	-	couple of minutes to consult with the Commissioners
	7	before we get to the post-hearing briefs.
с ,	-	So we'll be off the record for just a couple
-	9	of minutes.
-	10	(A recess was taken from 6:57 p.m. to 7:01 p.m.)
gate, but only applied that analysis to special contract	11	JUDGE PEARSON: Okay. Let's be back on the
customers; correct?	12	record. We were just having a conversation about page
A. It's my understanding they applied it only to	13	limits for briefs.
the special contract class and no other customer	14	For initial briefs, which are due on
classes.	15	March 17th, we'll allow the full 60 pages. And then for
Q. And you did not conduct a separate GIS analysis	16	reply briefs, which are due on March 27th, we're going
with respect to special contract customers other	17	to have a 20-page limit.
customers or the entire utility, did you?	18	Are there any any questions from the
A. I did not.	19	parties?
Q. Thank you. Those are my questions.	20	MS. CARSON: So that includes what's allowed
JUDGE PEARSON: Thank you. Is there any	21	with the consolidation of the additional dockets?
redirect?	22	JUDGE PEARSON: Correct.
MR. COLEMAN: No, Your Honor.	23	MS. CARSON: Because I think 60 is usually
JUDGE PEARSON: Okay. Then any questions	24	the standard.
from the bench for Mr. Collins?	25	JUDGE PEARSON: It is the standard.
Okay. Then you are excused. Thank you.		
Page 449		Page 451
MR. COLLINS: Thank you very much.	1	Sometimes we go shorter than that, though.
JUDGE PEARSON: That brings us to the end of	2	MS. CARSON: I would just say with a fully
our witness list.	3	contested case, we have no settlement here.
Is there anyone else you have questions for?	4	JUDGE PEARSON: How many extra pages do you
No. Okay.	5	think you need for the accounting petitions?
So there's just a few housekeeping matters	6	MS. CARSON: Maybe ten extra pages.
that I want to address before we adjourn.	7	JUDGE PEARSON: You mean just in the initial
Would the parties like me to I have all	8	briefs?
the bench requests recorded here, I could go over them	9	MS. CARSON: I think 10 in the initial brief
or I could send them in an e-mail to all the parties?	10	and 5. So it would be 25 in the reply brief.
MS. CARSON: E-mail would be good.	11	MS. CAMERON-RULKOWSKI: So Staff has an
JUDGE PEARSON: Okay. I will do that,	12	alternative recommendation. We would need 5. We would
•	13	suggest 5 in the initial brief and 3 in the reply. But
into the record. All right.	14	it's up to you.
Is there anything else?	15	MS. CARSON: Staff is primarily responding
	16	to the Company and we respond to eight different
-		parties.
up about that.	18	JUDGE PEARSON: Okay. We'll go with 70 and
So usually I request about a week. In this	19	25.
		MS. CARSON: Thank you.
	20	
case I would like to request just a tad more	20 21	-
case I would like to request just a tad more JUDGE PEARSON: That's fine.	21	JUDGE PEARSON: Okay. Is there anything
case I would like to request just a tad more JUDGE PEARSON: That's fine. MS. GAFKEN: than that.	21 22	JUDGE PEARSON: Okay. Is there anything else that we need to address tonight?
case I would like to request just a tad more JUDGE PEARSON: That's fine.	21	JUDGE PEARSON: Okay. Is there anything
	A. It's my understanding they applied it only to the special contract class and no other customer classes. 0. And you did not conduct a separate GIS analysis with respect to special contract customers other customers or the entire utility, did you? A. I did not. 0. Thank you. Those are my questions. JUDGE PEARSON: Thank you. Is there any redirect? MR. COLEMAN: No, Your Honor. JUDGE PEARSON: Okay. Then any questions from the bench for Mr. Collins? Okay. Then you are excused. Thank you. MR. COLLINS: Thank you very much. JUDGE PEARSON: That brings us to the end of our witness list. Is there anyone else you have questions for? No. Okay. So there's just a few housekeeping matters that I want to address before we adjourn. Would the parties like me to I have all the bench requests recorded here, I could go over them or I could send them in an e-mail to all the parties? MS. CARSON: E-mail would be good. JUDGE PEARSON: Okay. I will do that, because it would probably take ten minutes to read these into the record. All right. Is there anything else? Oh, Ms. Gafken, public comments. MS. GAFKEN: Yes. I was just going to chime	Brian Collins by Ms. Gafken1the special contract customers; correct?2A. That's my understanding.3Q. The next two questions I'm asking about your4understanding of PSE's GIS study.5PSE did not use a similar systemwide GIS6analysis applied to the entire utility, did it?7A. I'm not aware of them doing such an analysis.8Q. And PSE did not use a similar GIS analysis to9gate, but only applied that analysis to special contract11customers; correct?12A. It's my understanding they applied it only to13the special contract class and no other customer14classes.15Q. And you did not conduct a separate GIS analysis16with respect to special contract customers other17customers or the entire utility, did you?18A. I did not.19Q. Thank you. Those are my questions.21JUDGE PEARSON: Thank you. Is there any21redirect?22MR. COLLEMAN: No, Your Honor.24from the bench for Mr. Collins?25Okay. Then you are excused. Thank you.1JUDGE PEARSON: That brings us to the end of2our witness list.3Is there anyone else you have questions for?4No. Okay.5So there's just a few housekeeping matters6that I want to address before we adjourn.7Would the parties like me toI have all8the bench requests recorded here, I co

get this finished in one day. And we are adjo Thank you. (The hearing adjourned at 7:04 p.m.)
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