Docket Nos. UE-240004, UG-240005, and UE-230810 (Consolidated) - Vol. III

WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy

November 5, 2024



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WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy

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BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSIO	N		
		FOR JOINT ENVIRONMENTAL ADVOCATES:	
WASHINGTON UTILITIES AND) TRANSPORTATION COMMISSION,)		JAN E. HASSELMAN 4 Earthjustice	
) Complainant,)		810 Third Avenue 5 Suite 610	
) DOCKETS UE-240004 and v.) UG-240005		6 Seattle, Washington 98104 6 206.343.7340	
) (Consolidated) PUGET SOUND ENERGY,)		jhasselman@earthjustice.org	
) Respondent.)		JIM DENNISON 8 Sierra Club	
)		jim.dennison@sierraclub.org	
In the Matter of the Petition)		10 FOR FEDERAL EXECUTIVE AGENCIES: 11 RITA M. LIOTTA	
of) DOCKET UE-230810		US Navy	
PUGET SOUND ENERGY)		12 1 Avenue Of The Palms Avenue Suite 161	
Petitioner,)		13 San Francisco, California 94130 415.671.9187	
For an Accounting Order) Authorizing deferred)		14 rita.m.liotta.civ@us.navy.mil	
accounting treatment of () purchased power agreement ()		FOR AWEC:	
expenses pursuant to RCW) 80.28.410)		SOMMER MOSER 17 CORINNE OLSON	
		Davison Van Cleve PC	
EVIDENTIARY HEARING		Suite 430	
		19 Portland, Oregon 97214 503.241.7242	
Pages 286 - 370		20 sjm@dvclaw.com 21	
		FOR THE ENERGY PROJECT:	
Lacey, Washington		YOCHI ZAKAI 23 SETH GOLDMAN	
DATE TAKEN: November 5, 2024		24 Shute, Mihaly & Weinberger, LLP 24 396 Hayes Street	
REPORTED BY: Andrea L. Clevenger, RPR, CCR #30	941	San Francisco, California 94102	
		25 415.552.7272	
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1 APPEARANCES		1 APPEARANCES	
2 FOR THE COMMISSION: 3 Chair David Danner		2 FOR NUCOR STEEL:	
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4 Commissioner Ann Rendahl		3	
4 Commissioner Milt Doumit		3 DAMON E. XENOPOULOS 4 LAURA BAKER	
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5 Examination by Chair Danner 293 5 moming, It is Tuesday, November Sth. The time is 6 Examination by Commissioner Rendahl 296 My name is Bijan Huges, administrative law 8 Direct examination by Commissioner Rendahl 300 10 Examination by Commissioner Rendahl 301 11 Examination by Chair Danner 308 12 Lance Kaufman 306 13 Direct examination by Ms. Koser 310 14 Cross-examination by Ms. Moser 327 15 Examination by Commissioner Rendahl 328 16 Bradley G. Mullins 327 17 Direct examination by Ms. Moser 327 18 two fm seeing on Docksto UE-24004 and US-24005, which is 19 Examination by Commissioner Rendahl 331 10 Bradley Cebulko 22 11 Birantey Cabulko 23 22 Examination by Commissioner Doumit 338 23 Examination by Ms. Hasselman 335 24 24 24 25 EXAMINATION INDEX (Continuing) 24 EXAMINATION NOF: PAGE NO. 25 EXAMINATION NOF: PAGE NO. 26 Spelied Mi-Go-Gu-i-re.	4		4 JUDGE HUGHES: Let's be on the record. Good
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	Page 294		Page 296
1	this DR 327, which is included in her Exhibit 47,	1	That's very helpful. Commissioner?
2	explaining the variance is due to, quote, timing	2	EXAMINATION
3	differences and that the actual spend is higher by	3	BY COMMISSIONER RENDAHL:
4	approximately a million dollars than forecasted in the	4	Q. Just to follow up. And so I do understand that
5	2022 GRC.	5	that matter is on our meeting agenda, the provisional
6	Have you reviewed the data request response	6	plan issue, for Thursday.
7	that I just referenced? This is, again, DR 327.	7	A. That's correct.
8	A. I believe so, yes.	8	Q. And so we may have an opportunity to address
9	Q. Okay. Are you satisfied with the explanation	9	the concern that you just raised in that open meeting as
10	provided by Puget in that data request?	10	well.
11	A. I guess I would insert a little differently.	11	Is that your understanding?
12	When I filed my responsive testimony, the issue that I	12	A. It is. I have not had a chance to look at the
13	teed up with respect to AMI was an issue that was being	13	agenda. I'm not sure if this is an item on the
14	addressed in a separate docket.	14	discussion agenda or not. If it is, then, yes, you have
15	It was the annual capital review for the prior	15	an opportunity to further discuss.
16	calendar year, and I believe the docket dockets,	16	And there may be an informational memo that
17	plural, were UE-240779 and UG-240780.	17	staff circulates at some point that describes this issue
18	Since I filed responsive testimony, the issue	18	and staff's perspective on it, but the issue that I
19	that I had identified was resolved to staff's	19	raise in this case is the issue of what happens when we
20	satisfaction in those dockets. There is	20	use a portfolio approach to the annual plant reviews and
21	Q. I'm sorry. Would you give me those docket	21	what circumstances may warrant deviation from a stripped
22	numbers again?	22	portfolio approach.
23	A. Yeah. UE-240779 and UG-240780.	23	And identifying that the possibility of
24	Q. Thank you.	24	mistakes being made and forecasts was one example I gave
25	A. So from staff's perspective, the issue of the	25	for possibly needing to deviate from strict portfolio
	Page 295		
	rage 200		Page 297
1		1	
1 2	variance or the the error was largely resolved for	1	approach to the annual capital reviews.
1 2 3	variance or the the error was largely resolved for for AMI.	1 2 3	approach to the annual capital reviews. Q. Thank you. And it is on the no action agenda
2	variance or the the error was largely resolved for for AMI. My purpose for bringing up that issue in my	2	approach to the annual capital reviews. Q. Thank you. And it is on the no action agenda right now, just for clarification.
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2 3 4	variance or the the error was largely resolved for for AMI. My purpose for bringing up that issue in my	2 3 4	approach to the annual capital reviews. Q. Thank you. And it is on the no action agenda right now, just for clarification.
2 3 4 5	variance or the the error was largely resolved for for AMI. My purpose for bringing up that issue in my responsive testimony was not to have the commission address that issue specifically in these dockets here, in this GRC.	2 3 4 5	approach to the annual capital reviews. Q. Thank you. And it is on the no action agenda right now, just for clarification. So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the
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	. Puget Sound Energy / In the Matter or: Puget Sound Energy	Dock	ket Nos. DE-240004, DG-240005, and DE-230810 (Consolidated) - Vo
	Page 298		Page 300
1	somewhat of a surprise because, through the discovery	1	JUDGE HUGHES: Thank you. You are dismissed
2	process, the company had a number of opportunities to	2	or excused.
3	explain what those expenses were, what that reserve	3	CHAIR DANNER: There's redirect.
4	contingency pertained to, and it and it never did	4	JUDGE HUGHES: Oh.
5	that.	5	CHAIR DANNER: Is there redirect?
6	I am still unpersuaded that the reserve	6	JUDGE HUGHES: It wasn't cross; right?
7	contingency was specifically for CEIP-related costs. A	7	CHAIR DANNER: Okay. Never mind.
8	reserve contingency is is, well, a reserve for a	8	JUDGE HUGHES: We are going to Robert Earle
9	contingency. That's why an amount is identified in the	9	next. Welcome.
10	budget.	10	MR. EARLE: Thank you.
11	It would have been much simpler for the company	11	JUDGE HUGHES: Please raise your right hand.
12	to have just said that these are specific CEIP-related	12	ROBERT EARLE, having been first duly sworn
13	costs and identified them as such in their data request	13	testified as follows:
14	responses or in their work papers than calling it a	14	JUDGE HUGHES: Very good. Please introduce
15	reserve contingency and expecting parties to figure out	15	the witness.
16	what that's supposed to mean.	16	DIRECT EXAMINATION
17	So I I'm unconvinced. I don't know that the	17	BY MS. JOHANSON-KUBIN:
18	record indicates that those are, in fact, CEIP-related	18	Q. Will you please state your name and spell your
19	expenses that have been moved from a cost recovery	19	name for the record?
20	mechanism into the company's forecasted O&M expense.	20	A. My name is Robert Earle, R-o-b-e-r-t,
21	I think, if I were the commissioners, I may	21	E-a-r-l-e.
22	want some additional information on or some	22	MS. JOHANSON-KUBIN: Mr. Earle's testimony
23	additional proof that that is, in fact, what that	23	and exhibits have been admitted into evidence, and he's
24	reserve contingency had had pertained to.	24	ready for questioning.
25	I'll also note, though, that, in my review of	25	////
	Page 299		Page 301
1	the company's O&M expense, my primary objective is to	1	EXAMINATION
2	determine whether or not an identified cost meets the	2	BY COMMISSIONER DOUMIT:
3	commission's standard or ratemaking standards.	3	Q. So, Mr. Earle, a few questions on power costs.
4	And for these costs at issue, in particular,	4	On rebuttal, PSE states through Witness Mueller that it
5	the reserve contingency and the management reserves,	5	has increased its power cost forecast by 18.5 percent in
б	they're as the company had testified, those costs are	6	rate year one and by 8.7 percent in rate year two,
7	in constant flux.	7	claiming that most of the increase is due to new power
8	I was unable to track what numbers the company	8	purchase agreements signed since the direct testimony
9	was actually including in its O&M expense related to	9	was filed.
10	those items. There were different numbers different	10	Has public counsel had an opportunity or, in
11	amounts in the work papers of two different witnesses.	11	particular, an adequate opportunity to review those PPAs
12	Kensok's work papers contained reserve amounts that were	12	and other increases?
13	different than work papers that Witness Free provided.	13	A. We did take a look at those PPAs.
14	And the fact that these numbers were in	14	Q. Have you found any concern at all with those
15	constant flux is a good indication that they these	15	PPAs or any other additions to power costs the power
16	costs are not known. They're not measurable. They	16	cost forecast?
17	don't represent actual known costs and don't meet the	17	A. So one of my concerns has to do with the
18	commission's rules on pro forma adjustments.	18	excuse me the Sinclair contract that I detail in my
19	COMMISSIONER RENDAHL: Thank you. Do my	19	testimony. Basically I believe that they pay too much
20 21	colleagues have any follow-up? And if not, that's	20	for capacity on that contract compared with their
21	really all the questions.	21 22	contemporaneous evaluation of capacity for another
22	Thank you for being available today. THE WITNESS: You're welcome.	22	contract. Q. So can you just maybe describe a little more
23 24	CHAIR DANNER: Yeah. No further questions.	23	clearly the alternative methodology that you're that
25	Thank you.	24	you would suggest for that contract, calculating the
2.5	manix you.	25	שיש איטעות שעשעטי וטי נומו טטוונומטו, טמוטעומנוווץ נווכ

4 (Pages 298 to 301)

Page 302 Page 304 1 A. Sure. Sure. So Im trying to think how to do 1 So they don't really they don't give a 2 2 this without revealing any confidential information. I 1 So they don't really they don't give a 1 4 Basically Puge Sound Energy details a 1 So they don't really they hydre Sound the than 5 methodology where they come up with prices for different 0 1 So they don't really they hydre Sound 6 Energy claims that thay. = Puget Sound Energy claims that thay. = Puget Sound 1 1 9 Idential in my testimates of capacity value. 1 1 1 1 9 Idential in my testimates of capacity value. 1	WOIC V. PU	iget Sound Energy / In the Matter of: Puget Sound Energy	DOCK	(Consolidated) - Vol.
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4 Basically Puget Sound Energy details a 4 the other - other contract the hydro contract. 5 methodology where they come up with prices for different 6 6 components of a contract. One of those components is 1 7 the other - other contract the hydro contract. 8 table that various estimates of capacity value. 5 9 So around the same time of the Sinclair - and 1 10 as I detail in my testimony, there are problems with 10 11 using the components that they its, paratialy because 11 12 they resort of self-referential to their own bids. 12 13 Some bids succeeded, some didn't, but there are problems 14 14 with using those because they're combined with other 10 15 one of the components that they ibe cost 16 16 of new entry or CONE from WRAP that WRAP uses. The 17 17 problem with using that shale of using what should be 17 18 problem with using that shoule of on the CONE value. 10 19 into account countervailing revenues that the gas fire 10 10 ner coNE, they use ismy th	2 th	nis without revealing any confidential information. I	2	reason why one is why the Sinclair contract is has
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10 as I detail in my testimony, there are problems with 10 capacity. What I'm saying is, well, they don't 11 using the components that they list, partially because 10 and buy the contemporaneous evaluation. They appear to 12 they're sort of self-referential to their own bids. 10 and buy the contemporaneous evaluation. They appear to 14 with using those because they're combined with other 10 nad buy the contemporaneous evaluation. They appear to 15 One of the components they use also is the cost 10 have paid too much. 16 One of the components they use also is the cost 10 they need to buy cars new cars for their vehicle 16 of new entry or CONE from WRAP that WRAP uses. The 10 you know, an analogy might be to say, well, if 17 of new entry or CONE is based on. 11 You know, analogously here, I'm saying they 18 problem with using they use they use simply the CONE value. 12 and buy the contemporaneous valuation. 20 generation that the CONE is based on. 20 you know, analogously here, I'm saying they 21 And so what instead of using what should be 12 and buy the contemporaneous valuation. 22 net CONE, they use -	8 ta	able that various estimates of capacity value.	8	I'm saying.
10 as I detail in my testimony, there are problems with 10 capacity. What I'm saying is, well, they don't 11 using the components that they list, partially because 11 they	9	So around the same time of the Sinclair and	9	I don't argue that they don't meet the
12 they're sort of self-referential to their own bids. 12 and buy the contemporaneous evaluation. They appear to have paid too much. 13 Some bids succeeded, some didn't, but there are problems with using those because they're combined with other 13 have paid too much. 14 with using those because they're combined with other 14 You know, an analogy might be to say, well, if 15 components. 14 You know, an analogy might be to say, well, if 16 One of the components they use also is the cost 16 fleet, you know, you can argue about whether they need the cars, you say, well, should you pay 80,000 per car or 60,000 19 into account countervaling revenues that the gas fire 18 you say, well, should you pay 80,000 per car or 60,000 20 generation that the CONE is based on. 20 You know, analogously here, I'm saying they appear to have paid too much for what they've got by 21 And so what instead of using what should be 21 appear to have paid too much for what they've got by 22 net CONE, they use they uses of the Sinclair 24 So when they when in their materials to 24 25 justify the capacity value they use for the Sinclair 24 Ye got one more question, if my colleagues 26 one of the	10 a	s I detail in my testimony, there are problems with	10	capacity. What I'm saying is, well, they don't
13 Some bids succeeded, some didn't, but there are problems 13 have paid too much. 14 with using those because they're combined with other 14 15 components. You know, an analogy might be to say, well, if 16 One of the components they use also is the cost 15 17 of new entry or CONE from WRAP that WRAP uses. The 15 18 problem with using that value is that it doesn't take 19 19 into account countervailing revenues that the gas fire 19 20 generation that the CONE is based on. 19 21 And so what instead of using what should be 19 23 So that's that's also overstated. 24 24 So when they when in their materials to 24 25 justify the capacity value they use for the Sinclair 24 26 one of the values and say, "Well, this is the one we're 2 3 going to use" without any justification for why they 1 4 used it. 5 5 At the same time, right around the same period, 5 6 so within a month, they entered into one contract, and 7	11 US	sing the components that they list, partially because	11	they they buy what they've said and buy the record
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18 problem with using that value is that it doesn't take 18 you say, well, should you pay 80,000 per car or 60,000 19 into account countervailing revenues that the gas fire 19 you say, well, should you pay 80,000 per car or 60,000 20 generation that the CONE is based on. 20 You know, analogously here, I'm saying they 21 And so what instead of using what should be 21 appear to have paid too much for what they've got by 23 So that's that's also overstated. 23 Q. Okay. Thank you. 24 So when they when in their materials to 24 You say, well, should you pay 80,000 per car or 60,000 25 justify the capacity value they use for the Sinclair 23 Q. Okay. Thank you. 24 So when they when in their materials to 24 I've got one more question, if my colleagues 25 justify the capacity value they use for the Sinclair 25 So PSE Witness Mueller and I can give you 2 one of the values and say, "Well, this is the one we're 3 3 OPSE Witness for PPAs but not for power cost 3 going to use" without any justification for why they 4 So PSE Witness for PPAs but not for power cost forecast methodologies. 4	16	One of the components they use also is the cost	16	fleet, you know, you can argue about whether they need
19 into account countervailing revenues that the gas fire 19 per car? 20 generation that the CONE is based on. 20 21 And so what instead of using what should be 21 22 net CONE, they use they use simply the CONE value. 22 23 So that's that's also overstated. 23 24 So when they when in their materials to 23 25 justify the capacity value they use for the Sinclair 24 25 justify the capacity value they use for the Sinclair 24 26 contract, they refer to the table and simply pick out 25 26 one of the values and say, "Well, this is the one we're 3 3 going to use" without any justification for why they 3 4 used it. 5 5 At the same time, right around the same period, 5 6 so within a month, they entered into one contract, and 6 7 then they made the bid on the other They made a bid 8 8 that was half using half the value of of the 9 9 about half, speaking roughly here, of the value they 9	17 of	f new entry or CONE from WRAP that WRAP uses. The	17	the cars or not, but accepting that they need the cars,
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11 Now, both bids were successful, and so it leads 11 know, any change in methodology appears, you know, that				-
1 ± 2 one to worker, were wry did they - wry did they bld 1 ± 2 could - that could happen when they make a - you know,				
13 almost twice for the Sinclair contract as they bid for 13 the forecast in this proceeding, if they change				
14 the other? 14 something, or if they make it in in their annual		•		
15 And they don't really have a good reason. The 15 power cost cost review.			1	
16best the best reason or really the only reason they16Since they don't want power forecasts to be in		, , ,		
17 can come up with is, well, they're two different types 17 the PCORE or GRC, I would assume that then what they're				
18 of things. The Sinclair contract and Cogent is on 18 saying is, well, we want that to be whenever we make the				· · · · · · · · · · · · · · · · · · ·
19 Cogent facility, which basically has near 100 percent 19 power forecast or perhaps that would also include the		с		
20 low tech. In other words, it runs all the time. 20 PCA yearly PCA review.		÷		
21 The other one is on a hydro facility. They say 21 But my understanding of them saying that is				
22 they're different, and that's why they're different, but 22 that saying, well, no, you know, we want prudency review				
23 if that's the reason, logically, the value for the hydro 23 for methodology change for forecast in our annual in				
24 contract in terms of capacity should be greater because 24 our proposed annual power forecast review.				
25 it's more flexible. 25 And I just I find that problematic just from				
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5 (Pages 302 to 305)

WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy

WUTC	v. Puget Sound Energy / In the Matter of: Puget Sound Energy	Dock	et Nos. UE-240004, UG-240005, and UE-230810 (Consolidated) - Vol.
	Page 306		Page 308
1	a from a process point of view.	1	You know, if you have a new contract in the PCORE
2	COMMISSIONER DOUMIT: Okay. Great. Thank	2	that that excuse me in the power forecast, you
3	you. Nothing further from me.	3	know, it's going to affect your what's going on with
4	Any follow-ups?	4	the general acquisition of power into the PCORE or the
5	EXAMINATION	5	GRC.
6	BY COMMISSIONER RENDAHL:	6	Sorry that was a bit long.
7	Q. So why is it problematic to you? Can you	7	COMMISSIONER RENDAHL: No. That was very
8	explain what you just said? What in terms of when	8	helpful. Appreciate it.
9	that prudence review of the process happens?	9	THE WITNESS: Thank you.
10	And I just want to clarify, I understood you to	10	EXAMINATION
11	say they could change the forecast in the GRC or in the	11	BY CHAIR DANNER:
12	power cost adjustment mechanism but not in the PCORE and	12	Q. Can I I want to ask you a question about the
13	then you said the GRC.	13	Sinclair PPA. PSE's witness Phil Haines says that
14	So I just want to clarify what you meant about	14	public counsel's criticisms of that PPA contain no
15	when it should happen and when it shouldn't and why you	15	actionable alternatives for determining capacity value.
16	think it should be in one or the other.	16	Do you have alternative methodologies that
17	A. Thank you. I thank you. So my concern in	17	would be used to calculate the capacity value?
18	all of this is parties be given an ample opportunity to	18	A. Sure. The alternative is their own bid on the
19	review, and I think multiplying proceedings, as they	19	hydro contract. I mean, that's that's the thing. I
20	seem to be doing, makes it more difficult for public	20	mean, the Sinclair is almost twice the bid on the hydro
21	counsel, I believe for other intervenors, to to have	21	contract, but they have no they have no reason why
22	an adequate chance for review.	22	it's twice.
23	And so I guess in this proceeding we are	23	So so if their judgment was good on the
24	reviewing their power their their their power	24	hydro contract, why did they not use that same judgment
25	cost and their methodology.	25	for Sinclair? They have no reason.
	Page 307		Page 309
1	If what PSE wants to happen happens, then my	1	CHAIR DANNER: All right. Thank you.
2	understanding is that power forecasts won't happen in	2	JUDGE HUGHES: Thank you. You are excused.
3	the GRC, so I misspoke. I apologize, but they'll simply	3	THE WITNESS: Thank you.
4	happen in power cost reviews.	4	JUDGE HUGHES: Moving on to Michael Gorman.
5	The reason why I think that is problematic is,	5	MS. JOHANSON-KUBIN: I don't see Mr. Gorman
6	it just simply makes it more difficult with issues split	6	on this call. I have an email out to him. I will try
7	up across multiple rate cases for intervenors to really	7	and get in touch with him again.
8	have a good chance to to review.	8	JUDGE HUGHES: Okay. Thank you. Let's keep
9	Again, preferable would be if you're going to	9	things moving then. We'll wait to hear back from
10	have if you're going to have an annual power cost	10	Mr. Gorman.
11	update, which I don't object to, but if you're going to	11	Is Greg Meyer available?
12	have that, then you have a GRC. It helps defer that in	12	MS. JOHANSON-KUBIN: I will also attempt to
13	with the GRC because it consolidates related issues into	13	get ahold of him. I'm very sorry.
14	one docket.	14	JUDGE HUGHES: Okay. I will move to AWEC's
15	Certainly, if you're going to have a PCORE that	15	witnesses. Is Lance Kaufman available?
16	year, let's combine the annual power cost review into	16	MS. MOSER: I believe he's on the line, Your
17	the PCORE. I don't think that Puget Sound loses	17	Honor.
18	anything from that.	18	MR. KAUFMAN: Hello. This is Lance.
19	There may be efficiencies for them. I don't	19	JUDGE HUGHES: Welcome. Please raise your
20	know, but I certainly think, for intervenors,	20	right hand.
21	particularly for those representing low-income	21	LANCE KAUFMAN, having been first duly sworn
22	disadvantaged communities, it's much easier it's much	22	testified as follows:
23	easier for them to participate if if the number of	23	JUDGE HUGHES: Very good. Please prepare
24 25	dockets they have to deal with are consolidated.	24 25	the witness.
40	Plus, the issues the issues are related.	∠⊃	MS. MOSER: Thank you.
		1	

6 (Pages 306 to 309)

	Page 310		Page 312
1	DIRECT EXAMINATION	1	A. Yes.
2	BY MS. MOSER:	2	Q. I have a few questions about how you assigned
3	Q. Good morning, Mr. Kaufman.	3	the main, so I want to walk through how that calculation
4	Can you please state and spell your name for	4	was done using this work paper and how you signed the
5	the record?	5	mains to rate Schedules 87 and 87T.
б	A. Lance Kaufman, L-a-n-c-e, K-a-u-f-m-a-n.	6	Would you please look at Column E of cross
7	Q. And how are you employed?	7	Exhibit LDK-10X? Does Column E show your estimation of
8	A. I am employed by Western Economics as a	8	the mileage of various size mains that serve Schedule 87
9	consultant for AWEC.	9	and 87T?
10	MS. MOSER: Thank you. Your prefiled	10	A. Yes.
11	testimony and exhibits have previously been admitted to	11	Q. And those mains are 4-inch, 6-inch, 8-inch,
12	the record, so I believe this witness is available for	12	12-inch, 16-inch, and 20-inch steel pipe; correct?
13	cross.	13	A. Yes.
14	JUDGE HUGHES: Thank you. Staff may	14	Q. Did you derive these estimates from Puget Sound
15	proceed.	15	Energy's response to AWEC's Data Request No. 63?
16	MS. GAFKEN: Thank you.	16	A. I did for the 4-inch, 6-inch, and 8-inch mains.
17	CROSS-EXAMINATION	17	And for the 12-inch, 16-inch, and 20-inch mains, rather
18	BY MS. GAFKEN:	18	than direct assigning mains, I allocated the mains.
19	Q. Good morning, Mr. Kaufman or Dr. Kaufman.	19	Q. Puget Sound Energy's response to AWEC's Data
20	A. Good morning.	20	Request No. 63 is included in your Exhibit LDK-3C;
21	Q. Dr. Kaufman, is it correct that there are 14	21	correct?
22	customers taking service under rate Schedules 87 and	22	A. Yes.
23	87T?	23	Q. In response to AWEC's Data Request No. 63,
24	A. I believe so. There's due to transparency,	24	Puget Sound Energy provided schematics of mains serving
25	it's not clear to me that the distinction between	25	individual customers; correct?
	Page 311		Page 313
1	customers and service points, but there's at least 14	1	A. Yes.
1 2	customers and service points, but there's at least 14 service points.	1	A. Yes. Q. Okay. Let's refer back to your work paper ,
	-		
2	service points.	2	Q. Okay. Let's refer back to your work paper,
2 3	service points. Q. I would like to refer to one of your work	2 3	Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19.
2 3 4	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to	2 3 4	Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct?
2 3 4 5	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X.	2 3 4 5	Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes.
2 3 4 5 6	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit?	2 3 4 5 6	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch
2 3 4 5 6 7	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a	2 3 4 5 6 7	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?
2 3 4 5 6 7 8	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit	2 3 4 5 6 7 8	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes.
2 3 4 5 6 7 8 9	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit,	2 3 4 5 6 7 8 9	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that
2 3 4 5 6 7 8 9 10	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit	2 3 4 5 6 7 8 9 10 11 12	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by
2 3 4 5 6 7 8 9 10 11	service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1.	2 3 4 5 6 7 8 9 10 11 12 13	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? 	2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the A. I think I'm yeah. Okay. I have it's a 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so that's very likely how that's calculated.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so that's very likely how that's calculated. Q. Okay. In Column G, we see a factor of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names. Q. Yes. That's the one that I would like you to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so that's very likely how that's calculated. Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names. Q. Yes. That's the one that I would like you to look at. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so that's very likely how that's calculated. Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as the amount of feet assigned to Schedule 87 and 87T
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names. Q. Yes. That's the one that I would like you to look at. A. Okay. I'm here. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so that's very likely how that's calculated. Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as the amount of feet assigned to Schedule 87 and 87T divided by the total PSE system-wide feet of 4-inch
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 service points. Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X. Could you please turn to that exhibit? A. The exhibits that I have, have a have a just LDX blank CX on them. Is that Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1. A. Is it request C3? Q. No. It's the other one. It's the one that has the docket number and then a file name A. Okay. Q indicating that it's the A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names. Q. Yes. That's the one that I would like you to look at. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? A. Yes. Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct? A. Approximately, yes. Q. And Column F shows the number of feet that 4.4 miles converts to; correct? A. Yes. Q. Did you calculate the number of feet by multiplying 4.4 by 5,280? A. I believe so. I'd have to look at the formula and confirm that. Q. But assuming that you used the number of feet A. That that works out to the numbers, so that's very likely how that's calculated. Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as the amount of feet assigned to Schedule 87 and 87T

7 (Pages 310 to 313)

1	Page 314		Page 316
1	A. Yes.	1	No. 63.
2	Q. Okay. Staying with Row 19 and the 4-inch pipe	2	A. I'm there.
3	example, Column H reflects a cost of two million, four	3	Q. Okay. Are you aware that Puget Sound Energy
4	thousand fifty I'm sorry four hundred fifty-three	4	revised the response to AWEC's Data Request No. 63?
5	thousand one hundred and twelve dollars; correct?	5	A. Yes.
6	A. Yes.	6	Q. And cross Exhibit LDK-11CX contains both Puget
7	Q. The amount in Column H was calculated by		-
			Sound Energy's original schematics provided in response
8	multiplying the factor in Column G by the cost shown in	8	to the data request and the revised schematics.
9	Column C; correct?	9	Do you see that?
10	A. Yes.	10	A. Yes.
11	Q. To get the total amount of cost across all of	11	Q. My questions are not confidential, and I'm not
12	the sizes of main to be allocated to Schedules 87 and	12	anticipating that I will elicit confidential responses,
13	87T, you summed the costs in Column H, Lines 19 through	13	but, Dr. Kaufman, if you feel that a confidential
14	24; is that correct?	14	response is necessary, please let me know and we'll ask
15	A. Yes.	15	to go into confidential session, but I don't think
16	Q. Earlier you said that	16	that's going to be necessary, but you let me know as we
17	A. Can I can I clarify something you said	17	proceed.
18	earlier?	18	There's a couple of sets of pages that I want
19	Regarding the calculations in these columns,	19	to turn your attention to. The first is 7 and 8, and
20	the the answers that I've given you are applicable to	20	then the second one is 34 and 35, so if you could pull
21	Rows 19 through 21, and Rows 22 to 24 have slightly	21	up those two sets of or look at those two sets of
22	different formulas because they're the calculations	22	pages.
23	based on allocation factor rather than measurement of	23	A. Give me a minute. I've got this on a platform
24	number of feet.	24	that I'm not familiar with.
25	Q. I think you're hitting on what I started to ask	25	Q. And the page numbers I'm referring to are the
20	a. Think you're hitting on what i started to ask	25	a. And the page numbers in releasing to are the
	Page 315		Page 317
1	because, in your earlier answer, you stated that you	1	exhibit page numbers.
2	used the schematics for what I'm going call the smaller	2	A. Which pages did you want me to look at?
3	lines, 4-, 6-, and 8-inch, and that you did something	3	Q. Sure. 7 and 8, and then 34 and 35. These
4	different for 12-, 16-, and 20-inch pipe.	4	pages should show Attachment B to Puget Sound Energy's
5	Could you explain what the difference is?	5	response to Data Request 63.
6	A. For the 4-, 6-, and 8-inch pipe, I approximated	6	COMMISSIONER RENDAHL: Just to clarify, was
7	the number of miles of pipe between the customer and the	7	that letter B?
8	nearest regulatory station or gate station, using	8	MS. CARSON: Yes. B as in boy.
9		-	
	using the scale provided in the customer map.	9	COMMISSIONER RENDAHL: Thank you.
10	And for 12, 16, and 20, I allocated pipe using	10	A. Okay. I'm there.
1 7	the same allocation factors that we use for all other	11	Q. (By Ms. Gafken) Okay. Page 8 shows the
11	customers.	12	original schematic, and Page 35 shows the revised
12			
12 13	Q. What do you mean by the allocation factor used	13	schematic; is that correct?
12 13 14	Q. What do you mean by the allocation factor used for all of the customers?	14	A. Yes.
12 13	Q. What do you mean by the allocation factor used	14 15	A. Yes.Q. And those two pages depict an individual
12 13 14	Q. What do you mean by the allocation factor used for all of the customers?	14	A. Yes.
12 13 14 15	Q. What do you mean by the allocation factor usedfor all of the customers?A. The allocation factor, peak and average	14 15	A. Yes.Q. And those two pages depict an individual
12 13 14 15 16	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. 	14 15 16	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T;
12 13 14 15 16 17	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of 	14 15 16 17	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?
12 13 14 15 16 17 18	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size 	14 15 16 17 18	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct? A. Yes. Q. Please refer to Page 8 of cross Exhibit LD –
12 13 14 15 16 17 18 19	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 	14 15 16 17 18 19	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct? A. Yes. Q. Please refer to Page 8 of cross Exhibit LD – LDK-11CX. This is the original schematic that Puget
12 13 14 15 16 17 18 19 20	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct? A. Yes. 	14 15 16 17 18 19 20	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct? A. Yes. Q. Please refer to Page 8 of cross Exhibit LD LDK-11CX. This is the original schematic that Puget Sound Energy provided.
12 13 14 15 16 17 18 19 20 21 22	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct? A. Yes. Q. Okay. Could you turn to the other cross 	14 15 16 17 18 19 20 21 22	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct? A. Yes. Q. Please refer to Page 8 of cross Exhibit LD – LDK-11CX. This is the original schematic that Puget Sound Energy provided. In estimating the length of pipe for this
12 13 14 15 16 17 18 19 20 21 22 23	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct? A. Yes. Q. Okay. Could you turn to the other cross exhibit which has been designated cross 	14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct? A. Yes. Q. Please refer to Page 8 of cross Exhibit LD LDK-11CX. This is the original schematic that Puget Sound Energy provided. In estimating the length of pipe for this customer, did you estimate the length of pipe from the
12 13 14 15 16 17 18 19 20 21 22	 Q. What do you mean by the allocation factor used for all of the customers? A. The allocation factor, peak and average allocation factor. Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct? A. Yes. Q. Okay. Could you turn to the other cross 	14 15 16 17 18 19 20 21 22	 A. Yes. Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct? A. Yes. Q. Please refer to Page 8 of cross Exhibit LD LDK-11CX. This is the original schematic that Puget Sound Energy provided. In estimating the length of pipe for this

8 (Pages 314 to 317)

	Page 318		Page 320
1	Q. District regulators are located within Puget	1	A. Yes.
2	Sound Energy's system with no connection to Northwest	2	Q. In this definition, is it your understanding
3	Pipeline; is that correct?	3	that a town border station is where the gas enters the
4	A. No direct connection. Presumably there's a	4	PSE station or system?
5	connection upstream from the regulator.	5	A. Yes.
6	Q. But this means that the schematic on Page 8 of	6	Q. There are several stretches of pipe of varying
7	cross Exhibit LDX-11CX does not show the entire flow of	7	sizes between the town border station on the right side
8	gas on the Puget Sound Energy's system to serve this	8	of the page and the customer location on the left side
9	individual customer; correct?	9	of the page; correct?
10	A. That's my understanding. However, the	10	A. Repeat the question.
11	discovery response that I submitted requested that the	11	Q. Sure. There were several stretches of pipe of
12	station be shown.	12	varying sizes between the town border station on the
13	Q. I'm sorry. I'm not sure I understood your	13	right side of the page and the customer location on the
14	response.	14	left side of the page; correct?
15	A. The original the original version of this	15	A. Yes.
16	map was submitted by PGE sorry by Puget Sound due	16	Q. There are multiple routes that the gas could
17	to a misunderstanding on Puget Sound's side of what the	17	take to get from the town border station to the
18	data request was requesting.	18	customer's location; isn't that correct?
19	The data request was requesting border stations	19	A. If we assume that every visual intersection in
20	or limit stations, and not the district regulators.	20	the map has a physical a physical interconnection
21	Q. Okay. But it's fair to say that gas used by	21	that gas can flow through, then that's correct.
22	this customer enters PSE's system at a further point	22	Q. And there are several customers served along
23	upstream from the district regulator; correct?	23	the paths between the town border station and the
24	A. Yes.	24	customer's location; correct?
25	Q. Okay. Please turn to Page 35 of cross	25	A. I'm not aware of any specific customers, but
	Page 319		Page 321
1	Exhibit LDK-11CX.	1 1	
		1	that's a reasonable assumption.
2	There we see a wider view of PSE system in this		Q. Indeed there may be hundreds if not thousands
2 3			Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that
	There we see a wider view of PSE system in this schematic; correct? A. Yes.	2	Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE
3	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally	2 3	Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?
3 4	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request?	2 3 4 5 6	Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes.
3 4 5 6 7	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes.	2 3 4 5 6 7	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section
3 4 5 6 7 8	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on	2 3 4 5 6	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only
3 4 5 6 7 8 9	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the	2 3 4 5 6 7 8 9	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow
3 4 5 7 8 9 10	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down;	2 3 4 5 6 7 8 9 10	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?
3 4 5 6 7 8 9 10 11	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct?	2 3 4 5 6 7 8 9 10 11	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect.
3 4 5 6 7 8 9 10 11 12	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct? If you find the number 2 and observe the teal	2 3 4 5 6 7 8 9 10 11 12	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect. Q. Why is that incorrect?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct? If you find the number 2 and observe the teal and green lines that connect it to the district regulator noted by R, do you see the portion of what is on Page 8 on Page 35? A. That's correct. Q. And on the right side of the page, we see a town border station denoted by TB; correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect. Q. Why is that incorrect? A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially. I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct? If you find the number 2 and observe the teal and green lines that connect it to the district regulator noted by R, do you see the portion of what is on Page 8 on Page 35? A. That's correct. Q. And on the right side of the page, we see a town border station denoted by TB; correct? A. Yes. Q. PSE defines a town border station as the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect. Q. Why is that incorrect? A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially. I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct? If you find the number 2 and observe the teal and green lines that connect it to the district regulator noted by R, do you see the portion of what is on Page 8 on Page 35? A. That's correct. Q. And on the right side of the page, we see a town border station denoted by TB; correct? A. Yes. Q. PSE defines a town border station as the transfer of custody point from Northwest Pipeline lateral, but different from a gate station in the sense	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect. Q. Why is that incorrect? A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially. I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct? If you find the number 2 and observe the teal and green lines that connect it to the district regulator noted by R, do you see the portion of what is on Page 8 on Page 35? A. That's correct. Q. And on the right side of the page, we see a town border station denoted by TB; correct? A. Yes. Q. PSE defines a town border station as the transfer of custody point from Northwest Pipeline lateral, but different from a gate station in the sense that metering takes place upstream of this type of station. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect. Q. Why is that incorrect? A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially. I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station. And, furthermore, by allocating 100 percent of that pipe to the customer, that's actually overestimating or over-allocating costs to Customer 2
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	There we see a wider view of PSE system in this schematic; correct? A. Yes. Q. Is this more akin to what you were originally asking for in your request? A. Yes. Yes. Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct? If you find the number 2 and observe the teal and green lines that connect it to the district regulator noted by R, do you see the portion of what is on Page 8 on Page 35? A. That's correct. Q. And on the right side of the page, we see a town border station denoted by TB; correct? A. Yes. Q. PSE defines a town border station as the transfer of custody point from Northwest Pipeline lateral, but different from a gate station in the sense that metering takes place upstream of this type of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? A. Yes. Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct? A. That's incorrect. Q. Why is that incorrect? A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially. I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station. And, furthermore, by allocating 100 percent of that pipe to the customer, that's actually

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	Page 322		Page 324
1	customers served by the 8-inch and the 4-inch section	1	pipe.
2	that I included.	2	Q. Okay. Thank you for that.
3	And those customers are essentially receiving	3	Could you please turn to Page 35 of cross
4	the benefit of that, in that they are allocated none of	4	Exhibit LDK-11CX and look at the border station on the
5	that pipe, while the Customer 2 is allocated 100 percent	5	right side of the page?
6	of the pipe.	6	A. Okay.
7	So from that perspective, my estimates could	7	Q. Do you see the two short spurs the two short
8	actually be seen as an over-assignment of pipe to the	8	gray spurs coming off the green line?
9	87, 87T customers.	9	A. Going south near the border station?
10	Q. But your estimate only goes between the	10	Q. It's assuming that directionally going down on
11	district regulator and the customer site.	11	the paper is south.
12	It doesn't trace back to the the town border	12	A. Yes.
13	station; correct?	13	Q. Yes.
14	A. Yes. So if the point I'm making is that,	14	A. I see that.
15	even if I had traced back to the town border station, my	15	Q. Okay. The customer served off of these two
16	estimate would not change materially.	16	short spurs do not rely on PSE's system except for the
17	So what I did, looking at the revised exhibit,	17	very short length of main from the town border station;
18	is, I followed the path starting at the little red	18	correct?
19	box 2. I followed the path northeast to the	19	A. That's correct.
20	intersection of the 4-inch pipe and the 8-inch pipe, and	20	Q. Under your analysis, shouldn't these customers
21	then I traveled south through the regulator station.	21	be assigned only the costs of the pipe running from the
22	And the path going north is slightly longer	22	town border station to the customer locations?
23	than the path going south by I'd say approximately a	23	A. That's not what I proposed in my model. Those
24	half a mile. So it would be reasonable to add a half a	24	customers are likely to be a much smaller volume of gas
25	mile of 8-inch pipe to my model to account for the	25	and represent a very small fraction of the customers on
	Page 323		Page 325
1	corrected map, but it would not be reasonable to add	1	their schedule.
2	more than half of a mile because, under my model, I	2	It's certainly possible that, if a customer
3	would I would stop tracing the pipe back at the	3	group wanted to create an independent schedule, say, you
4	intersection between the 8-inch pipe and the 12-inch	4	know, residential customers close to the border gate
5	pipe directly north of the customer.	5	stations, you know, they could petition for a new a
6	And the reason for that is because the most	6	new schedule that is easy to develop direct assignment
7	likely and reasonable path for the gas to flow, looking	7	for them, but that's not what I've recommended.
8	at this figure, is that the gas would flow along the	8	MS. GAFKEN: Okay. Thank you. I have no
9	12-inch main rather than the 8-inch main.	9	further questions.
10	The 8-inch main that you see that kind of	10	JUDGE HUGHES: Thank you. And I will notice
11	splits off and and, you know, the various other	11	that the map does indicate north on the bottom left
12	routes that the gas could possibly travel are not direct	12	corner if that ever comes out.
13	paths and are not large diameter pipes, and, from my	13	Any redirect?
14	perspective, those pipes are more reasonably allocated	14	MS. MOSER: No, Your Honor. No redirect.
15	to other customers.	15	Thank you.
16	So just to reiterate, even looking at this map,	16	JUDGE HUGHES: Questions from the bench?
17	if I had calculated feet based on this map, I would add	17	All right. Thank you.
18	about a half a mile of 8-inch pipe to my analysis, which	18	CHAIR DANNER: Hang on.
19	would have a very small impact on the direct assignment	19	
20	of costs.	20	BY CHAIR DANNER:
21 22	And I mentioned before, it would also be an	21 22	Q. I just with regard to those two gray lines
	overestimate of costs because it's assigning 100 percent	22	going south, are they what do we know about them?
23	of the pipe connecting Customer 2 to the border station		Are they residential? Are there more than one customer
24	rather than a share of the nine recognizing the fact		On each of them or lifet Voll know/ do Voll have an idea
24 25	rather than a share of the pipe, recognizing the fact that the other customers are also served by that same	24 25	on each of them or just you know, do you have an idea from your

	r. Puget Sound Energy / In the Matter of: Puget Sound Energy		
	Page 326		Page 328
1	A. Those mains I would expect to be smaller than	1	EXAMINATION
2	4-inch mains. Other than the fact that they're smaller	2	BY COMMISSIONER DOUMIT:
3	than 4-inch mains, it's I don't have any	3	Q. Mr. Mullins, did you hear our questions to
4	Q. You don't know?	4	Dr. Earle, public counsel's witness, on power costs
5	A what type of customer.	5	A. I did.
6	Q. Okay.	6	Q just a few minutes ago? These will be real
7	A. It's possible that they're residential. It's	7	similar questions then.
8	possible that they're a smaller commercial customer,	8	So first, on rebuttal, PSE, through Witness
9	but	9	Mueller, has increased its power costs forecast by
10	Q. It's also possible there are multiple users on	10	18.5 percent in rate year 1 and by 8.7 percent in rate
11	that?	11	year 2, claiming that most of the increase is due to new
12	A. Yes.	12	power purchase agreements signed since direct testimony
13	CHAIR DANNER: Okay. All right. Thank you.	13	was filed.
14	JUDGE HUGHES: Okay. Thank you. You are	14	Has AWEC had an opportunity or, in particular,
15	excused.	15	an adequate opportunity, to review those PPAs and other
16	THE WITNESS: Thank you.	16	increases?
17	JUDGE HUGHES: And then do we have any word	17	A. We certainly reviewed some of them. I can't
18	from public counsel's witnesses? Just checking in.	18	say that we reviewed all of them. And I think we were,
19	MS. JOHANSON-KUBIN: Yes. Unfortunately, we	19	you know, concerned with the large increase to power
20	had a pretty serious miscommunication. They're not	20	costs.
21	available until 1:00 or 1:30 today.	21	In discovery, I think PSE, you know, did kind
22	We also would suggest that the commission could	22	of let parties know that some of these contracts were
23	alternatively issue written bench requests if the	23	coming, so it wasn't, you know, necessarily a huge
24	scheduling is too much of a problem.	24	surprise, but I think, in general, we're concerned with
25	JUDGE HUGHES: We will talk that over, but	25	the hydro contracts.
	Page 327		
			Page 329
1		1	
1 2	thank you for the update.	1	And I would actually refer you to Witness
1 2 3	thank you for the update. Okay. Moving forward then, Bradley Mullins.	1 2 3	And I would actually refer you to Witness Kaufman's testimony about the you know, justifying
2 3	thank you for the update. Okay. Moving forward then, Bradley Mullins. Okay. Please raise your right hand.	2 3	And I would actually refer you to Witness Kaufman's testimony about the you know, justifying those contracts, in part, on CEIP compliance.
2	thank you for the update. Okay. Moving forward then, Bradley Mullins. Okay. Please raise your right hand. BRADLEY G. MULLINS, having been first duly sworn	2	And I would actually refer you to Witness Kaufman's testimony about the you know, justifying those contracts, in part, on CEIP compliance. So there's you know, there's that issue.
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2 3 4 5	thank you for the update. Okay. Moving forward then, Bradley Mullins. Okay. Please raise your right hand. BRADLEY G. MULLINS, having been first duly sworn	2 3 4 5	And I would actually refer you to Witness Kaufman's testimony about the you know, justifying those contracts, in part, on CEIP compliance. So there's you know, there's that issue. And I think, you know, kind of for broader picture, the I think we're seeing, you know, a lot a lot of
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11 (Pages 326 to 329)

	Page 330		Page 332
1	have, generally you just stated your essentially two	1	mostly from hydro resources.
2	concerns?	2	And so the, you know, CCA compliance obviously
3	Okay. Great. Thanks.	3	plays into, you know, the the selection between, you
4	Another question I asked to Dr. Mueller, PSE	4	know, hydrocarbon you know, zero carbon resource
5	or excuse me to Dr. Earle, PSE Witness Mueller states	5	versus an unspecified Schedule-C-type contract.
6	that the company is willing to defer prudency reviews	6	And really, you know, the big difference
7	for PPAs but not for power cost forecast methodologies.	7	between the two, from a capacity perspective, is that,
8	What does AWEC understand to be the current	8	you know, Schedule C contract can be interrupted.
9	method for prudency review of power cost calculation	9	However, if it is, the counterparty has to pay
10	methodologies?	10	liquidated damages, so there's a chance that the power
11	A. Not quite sure what they meant by that. I	11	might not flow, you know, depending on your
12	think what they're saying is and maybe this is in the	12	counterparty, but the counterparty will reimburse the
13	context of their annual updates, that they will keep the	13	cost of that. And that's, you know, how it's been done
14	same power cost forecasting methods and that they	14	for, you know, longer than I've been around.
15	won't they won't change those.	15	And now we're switching into this sort of WRAP
16	And perhaps they're saying also that, you know,	16	framework, and I think it's getting and I think we're
17	parties couldn't couldn't contest those methods in an	17	starting to see the costs associated with moving towards
18	annual power concept update.	18	that. Whereas, you know, a Schedule C contract is going
19	And, you know, I would say this is a, you know,	19	to be much less expensive than you know, than a slice
20	pretty dynamic industry, and, you know, it would make	20	of hydro facility.
21	sense to me that if there's, you know, some sort of a	21	Q. And that's not just because of the liquidated
22	method or something that's not working correctly, that	22	damages issue but also because of the resource type, the
23	parties should have the opportunity to to contest	23	unspecified market power versus a specified source?
24	those and the assumptions.	24	A. Right. Yeah. And certainly carries, you know,
25	And, you know, at least certainly in this case,	25	environmental attributes, which are more you know,
	Page 331		Page 333
1	we raise the issue about the EIM congestion revenues,	1	more valuable, and it has you know, it's a flexible
2	which are a big source of revenues through the EIM,	2	resource, which is also, you know, more valuable.
3	which are excluded from their model.	3	So it's it's not you know, you can't
4	And so I think issues like that are would be	4	compare them, you know, one for one certainly, but I
5	appropriate to roles in the future undetex which I		
5	appropriate to raise in in future updates which I	5	think that's just a general comment on kind of what
6	know is a whole you know, how updates get performed	5 6	we're seeing in the market with and it's not just
	know is a whole you know, how updates get performed is a separate issue and question.	1	we're seeing in the market with and it's not just PSE, but a lot of utilities out there, you know, bidding
6	know is a whole you know, how updates get performed is a separate issue and question. COMMISSIONER DOUMIT: Follow-ups based on	6 7 8	we're seeing in the market with and it's not just PSE, but a lot of utilities out there, you know, bidding for this hydro capacity is, you know, driven by the WRAP
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	Page 334		Page 336
1	perception that that's, you know, generally less	1	EXAMINATION
2	reliable and, you know, a dedicated resource from hydro	2	BY CHAIR DANNER:
3	facility, which is, you know, theoretically, going to,	3	Q. Good morning, Mr. Cebulko.
4	you know, be there as long as there's, you know,	4	A. Good morning.
5	capacity.	5	Q. You know, in your response testimony, you
6	So it's it's that seems to be the shift	6	proposed the commission place the burden of proof on
7	at least, you know, with the WRAP is moving away from	7	Puget, that is, assess the non-pipeline alternatives,
8	that liquidated damages construct.	8	before recovering costs of pipeline investments, you
9	And, you know, I have sort of mixed feelings	9	know, aside from the safety and emergency costs.
10	about it, but, you know, I think, you know, it is what	10	On rebuttal, the company's witness Landers
11	it is, and I think that's that's really what's	11	claims that your proposal is duplicative with House
12	driving the at least, you know, from my perspective,	12	Bill 1589.
13	what's driving the demand in these in hydro contracts	13	What components of your proposal would be
14	and capacity contracts is, you know, the movement	14	additive to or duplicative of the requirements of House
15	towards the WRAP.	15	Bill 1589?
16	Q. Thank you.	16	A. So there's a couple pieces here. So House
17	And then just one last clarifying question.	17	Bill 1589 requires, I think, rate system planning
18	You mentioned Powerdex. Is that power with d-e-x at the	18	amongst some other components of the bill, and that plan
19	end, for the court reporter?	19	is scheduled on a cycle to kind of to replace
20	A. That is, yes. Powerdex. And that's the	20	integrative resource plan. It's really about a planning
21	that is an hourly index for, you know, bilateral energy	21	standard and assessing cost and risks of various
22	transactions.	22	futures uncertain futures.
23	COMMISSIONER RENDAHL: Great. Thank you. I	23	It's primarily based in planning. What I'm
24	appreciate the conversation this morning. That's all	24	asking this commission to do is to reorient the
25	that I have.	25	ratemaking process as well, right, to to to very
	Daga 225		
	Page 335		Page 337
1		1	Page 337 clearly state to Puget that, here are your requirements
1 2	THE WITNESS: Thank you. JUDGE HUGHES: Thank you. Redirect?	1 2	
	THE WITNESS: Thank you.		clearly state to Puget that, here are your requirements
2	THE WITNESS: Thank you. JUDGE HUGHES: Thank you. Redirect?	2	clearly state to Puget that, here are your requirements that you need to be changing how you operate as a
2 3	THE WITNESS: Thank you. JUDGE HUGHES: Thank you. Redirect? MS. MOSER: No. Thank you, Your Honor.	2 3	clearly state to Puget that, here are your requirements that you need to be changing how you operate as a company in every facet of the company, from the planning
2 3 4	THE WITNESS: Thank you. JUDGE HUGHES: Thank you. Redirect? MS. MOSER: No. Thank you, Your Honor. JUDGE HUGHES: Very good. You are	2 3 4	clearly state to Puget that, here are your requirements that you need to be changing how you operate as a company in every facet of the company, from the planning to the engineers to the day-to-day staff working on
2 3 4 5	THE WITNESS: Thank you. JUDGE HUGHES: Thank you. Redirect? MS. MOSER: No. Thank you, Your Honor. JUDGE HUGHES: Very good. You are dismissed.	2 3 4 5	clearly state to Puget that, here are your requirements that you need to be changing how you operate as a company in every facet of the company, from the planning to the engineers to the day-to-day staff working on these problems, that you have to change how you're
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13 (Pages 334 to 337)

	Page 338		Page 340	
1	when they come forth for any rate recovery of capital	1	through its first Phase 1 of the pilots.	
2	investments.	2	What I've seen with Phase 2 is, they're just	
3	Q. And is that already required by 1589, to your	3	pretty much pilot Phase 1 carryover to pilot Phase 2	
4	knowledge?	4	modest goals, 1,000 customers. The market is	
5	A. I'm not sure I'm qualified to give a legal	5	sufficiently there that Puget can roll out a broader	
6	opinion about 1589.	6	electrification plan at this time, targeting existing	
7	Generally, my experience with gas-integrated	7	customers.	
8	resource planning in this state is that they've been	8	construction. Right? Those King County and other areas	
9 10	mostly looking at resource procurement on the gas side.	9 10		
	Which supply basin are you pulling from? What pipeline	11	within Puget Sound are still adding new housing	
11 12	are you running that through? Do we need a new	12	developments. There are opportunities to work with	
13	transmission pipeline that Puget probably won't even	13	those developers on electrification market	
14	build. Right? It's a third party. Do you need an LNG facility possibly propane.	14	transformation and as well as providing general electrification plans of programs.	
15	Right? How you going to manage the peak?	15	So while my proposal might feel ambitious, I	
16	That's different than looking at the	16	don't actually think it is because the scale of what	
17	distribution system, right, and looking at the thousands	17	Puget needs to do to achieve its decarbonization goals	
18	of relatively small capital expenditures that go into	18	requires something far more ambitious than what we put	
19	the distribution system.	19	forth here.	
20	EXAMINATION	20	Q. So just on Pearl Street Mall my	
21	BY COMMISSIONER DOUMIT:	21	understanding of Pearl Street Mall in Boulder, Colorado,	
22	Q. Mr. Cebulko, I want to give you a little canvas	22	it's sort of like neighborhood, right, businesses	
23	to paint on here. Okay. Counsel for Joint	23	A. Yeah.	
24	Environmental Advocates said we need to be at 200,000	24	Q essentially and the cost differential	
25	buildings electrified by 2030. We heard Witness Landers	25	between repairing gas system and electrifying, which is	
	Page 339		Page 341	
1	yesterday say that across the country success is coming	1	why it was clearly cost-effective to go electric.	
2	in ones and fives.	2	A. Mm-hm.	
3	How do we go from where we are now to the	3	Q. And I was slightly surprised, you know, myself	
4	vision that counsel set forth?	4	that the businesses there, which are mainly, you know,	
5	A. So what I heard from Witness Landers was that	5	restaurants	
6	he was talking about targeted electrification and the	6	A. Mm-hm.	
7	de paired with the decommission of the pipe, right,	7	Q weren't protesting this, as we've seen here,	
8	and that tends to be smaller.	8	you know, wanting to continue to cook with gas, as it	
9	Although Puget in this case did propose a	9	were.	
10	targeted electrification project, we've seen some other	10	So, I mean, is that something is that	
11	proposals and implementations elsewhere. Colorado is a	11	one-off situation replicable here, would you say?	
12	great example with Xcel and their Pearl Street Mall	12	A. I do want to make a distinction here between	
13 14	electrified 66 customer decommissioning section.	13 14	kind of the targeted electrification paired with	
14 15	Sticking with Colorado, though, in Xcel's recent clean heat plan, the commission ordered a very	15	decommissioning and then a broad general interpretation. Right? Two different programs.	
16	ambitious electrification plan in the tens of thousands.	16	One is the broad general electrification	
17	I actually have the numbers pulled up in front of me	17	program is fairly easy to administer, and it's random.	
18	here.	18	Right? It's not necessarily paired with	
19	But they're ordering the company to spend looks	19	decommissioning. The decommissioning is the hard part.	
19	like 75 million in 2025 on electrification, 112 million	20	Right?	
20		20	And yes, I think it's been observed that that	
20 21	IN 2026 TANE OF TROUGANDE OF CUETOMORE ON		And yes, I think it's been upselved that that	
21	in 2026, tens of thousands of customers on electrification	2.2	can be challenging particularly because there is still	
21 22	electrification.	22	can be challenging particularly because there is still an obligation to serve Right?	
21 22 23	electrification. My proposal is a little scaled down from there,	23	an obligation to serve. Right?	
21 22 23 24	electrification. My proposal is a little scaled down from there, right, 7,500 customers in 2025. You have to start	23 24	an obligation to serve. Right? And that's why I you know, there's a recent	
21 22 23	electrification. My proposal is a little scaled down from there,	23	an obligation to serve. Right?	

14 (Pages 338 to 341)

	Page 342		Page 344
1		1	_
1	system rulemaking, talking about their experience at	1	initial C, H-i-g-g-i-n-s.
2	PG&E in California and that one to five customers seems	2	Q. And by whom are you employed and what's your
3	to be a more doable range, and that seems right to me.	3	position?
4	But nevertheless, it you know, as the the	4	A. I'm a principal in the firm Energy Strategies.
5	company should be looking for opportunities, not	5	MS. BAKER: Great. Mr. Higgins' prefiled
6	necessarily it's kind of part of its routine	6	testimony and exhibits have been entered by stipulation.
7	examination of, you know, alternatives or opportunities	7	Mr. Higgins is now available for cross.
8	that come up from talking to their, you know, customers.	8	JUDGE HUGHES: Thank you. Staff, please
9	But then also it's worth remembering that NPAs	9	proceed.
10	are not just targeted to electrification. Right? There	10	CROSS-EXAMINATION
11	is opportunities to do pipeline repair. There are	11	BY MS. GAFKEN:
12	opportunities that to do demand side management	12	Q. Good morning, Mr. Higgins.
13	through either additional energy efficiency and	13	A. Good morning.
14	weatherization, paired with electrification.	14	Q. Would you turn to your direct testimony KCH-1T.
15	Gas utilities have been doing supplies on NPAs	15	Go to Page 2, lines 8 through 12.
16	for a long time, right, through CNG tracks, needle	16	A. Which lines, please?
17	peaks. You pull those in as well. So really what I'm	17	Q. 8 through 12.
18	asking is just to because of the risk before the	18	A. Yes. I see that.
19	utility of the decarbonization targets, the very real	19	Q. Okay. There you indicate that you have
20	risk, as Puget is already experiencing of declining	20	testified before this commission in several Puget Sound
21	customer demand in growing capex, what the company	21	Energy cases, going back to 2001; correct?
22	should be looking for opportunities to to avoid	22	A. Yes.
23	capital expenditures where it can.	23	Q. Those cases include rate cases and other PSE
24	COMMISSIONER DOUMIT: Thank you. Thanks so	24	filings; correct?
25	much.	25	A. Yes.
	Page 343		Page 345
1	JUDGE HUGHES: Thank you. You are excused.	1	Q. Have your appearances consistently been on
2	Kevin Higgins.	2	behalf of large volume customers?
3	CHAIR DANNER: So, Your Honor, I'm wondering	3	A. In the yes. In the gas proceedings, yes.
4	if we can take a short break. It's almost 10:30. I	4	I've also participated in Puget Sound Energy
5	could use a few minutes. Thank you.	5	cases on behalf of The Kroger Co. on the electric side,
6	JUDGE HUGHES: Okay. We will be taking a		
		6	who also is a large customer, smaller facilities, but a
7	I'm sorry for prematurely calling you.	6 7	-
7 8	I'm sorry for prematurely calling you. We will be taking a brief recess, say, until		who also is a large customer, smaller facilities, but a
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8 9	We will be taking a brief recess, say, until 10:35. And then during the recess, the counsel could	7 8 9	 who also is a large customer, smaller facilities, but a large volume customer. Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case? A. I have a general recollection of that, yes.
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	We will be taking a brief recess, say, until 10:35. And then during the recess, the counsel could come up, and we can have a brief chat on exhibit stuff. So let's go off the record. (Recess from 10:25 a.m. to 10:41 a.m.) JUDGE HUGHES: We are back at 10:41. Let's be on the record. Okay. Mr. Higgins, will you please raise your right hand. KEVIN C. HIGGINS, having been first duly sworn testified as follows: JUDGE HUGHES: Thank you. Please introduce the witness. DIRECT EXAMINATION BY MS. BAKER: Q. Okay. Good morning, Mr. Higgins. For the	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 who also is a large customer, smaller facilities, but a large volume customer. Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case? A. I have a general recollection of that, yes. Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct? A. That's my recollection. It was quite a while ago, but, yes, I agree with that description. Q. That is fair. And to be clear, I'm only asking about your recollection, so not asking you to guess. Do you recall that the 2008 collaborative did not result in a consensus or resolution of how to allocate natural gas mains? A. Yes, I do recall that.

15 (Pages 342 to 345)

	Page 346		Page 348	
1	Chapter 480-85 WAC?	1	the number of customers and partially on peak demand;	
2	A. Yes, I am.	2	correct?	
3	Q. Those rules went into effect in 2020; correct?	3	A. That is an approach parties have advocated,	
4	A. Yes.	4	yes.	
5	Q. Prior to the rulemaking that resulted in the	5	Q. And are you familiar with the peak and average	
6	adoption of Chapter 480-85 WAC rate case, parties	6	method in which mains are allocated partially on peak	
7	proposed several methods to allocate natural gas mains	7	demand and partially on throughput or average day	
8	across customer classes; is that correct?	8	demand?	
9	A. Yes.	9	A. Yes, I am.	
10	Q. Is it fair to say that the issue of how to	10	Q. Comparing allocation I'm sorry. If I can	
11	allocate the cost of natural gas mains has been in	11	get the words out correctly.	
12	controversy for at least 20 years?	12	Comparing allocating mains using a peak and	
13	A. That's fair to say. It's probably also fair to	13	average method with allocating mains based partially on	
14	say that that's true about class cost allocation around	14	the number of customers and partially on peak demand, is	
15	the country for both gas and electric service.	15	it correct that small volume customers benefit more	
16	Q. Is it fair to characterize the controversy as	16	under a peak and average method as opposed to customer	
17	involving disagreement between larger and smaller	17	demand method?	
18	customer advocates regarding how to allocate the cost of	18	A. Can you please repeat your question?	
19	small, medium, and large diameter sized mains?	19	Q. I will. There's a couple of moving parts	
20	A. Certainly agree with that as being one of the	20	there.	
21	issues of contention, yes, in the Puget Sound territory.	21	A. Yeah.	
22	Q. Understanding that there's probably other	22	Q. So comparing allocation allocating mains	
23	things that were argued about as well during that time	23	using a peak and average method, with allocating mains	
24	period, but I do want to focus on the main distribution	24	based partially on the number of customers and partially	
25	aspect of that controversy.	25	on peak demand, is it correct that small volume	
	Page 347		Page 349	
1	Some parties, such as yourself, on behalf of	1	customers benefit more under a peak and average method	
2	large volume users have advocated an approach that	2	as opposed to a customer demand method?	
3	excluded large volume customers from assignment of small	3	A. I think what's throwing you off about your	
4	diameter mains; correct?	4	question, Ms. Gafken, is, I think at the end of your	
5	A. Yes.	5	question you're leaving out the customer.	
6	Q. And other parties have disagreed with that	6	I believe you're asking you're asking, are	
7	approach; right?	7	smaller customers better off under peak and average	
8	A. Yes.	8	versus something else, and the something else you're	
9	Q. The idea that large volume customers should be	9	referring to is peak demand customer.	
10	excluded from assignment of smaller diameter mains is	10	Q. Right.	
11	sometimes referred to as skeletonization of the natural	11	A. Okay.	
12	gas system; correct?	12	Q. Yes. That is that's a correct understanding	
13	A. Can you say that word again, please?	13	of the question.	
14	Q. Sure. I'll re-ask the question.	14	A. Okay. Well, I would say that the impact is	
15	The idea that large customers large volume	15	going to depend on any particular study. Okay. But I	
16	customers should be excluded from assignment of small	16	would agree that, as the general matter, smaller	
17	diameter sized mains is sometimes referred to as	17	customers would receive a lower allocation if there is	
	skeletonization of the natural gas system; correct?	18	not a customer component to the cost classification.	
18		19	MS. GAFKEN: I just want to ask quickly if	
18 19	A. You know, I'll be candid. I'm not familiar			
		20	folks are able to hear the witness sufficiently. The	
19 20	with the term "skeletonization," but I can infer what	20 21	folks are able to hear the witness sufficiently. The volume to me sounds a little bit lower.	
19	with the term "skeletonization," but I can infer what you mean by it.	1	folks are able to hear the witness sufficiently. The volume to me sounds a little bit lower. THE WITNESS: I will sit closer to the	
19 20 21	with the term "skeletonization," but I can infer what you mean by it. Q. Okay. Fair enough. I'd like to talk about the	21	volume to me sounds a little bit lower. THE WITNESS: I will sit closer to the	
19 20 21 22	with the term "skeletonization," but I can infer what you mean by it. Q. Okay. Fair enough. I'd like to talk about the idea of peak and average.	21 22	volume to me sounds a little bit lower. THE WITNESS: I will sit closer to the screen. Unfortunately, it makes you makes my face	
19 20 21 22 23	with the term "skeletonization," but I can infer what you mean by it. Q. Okay. Fair enough. I'd like to talk about the	21 22 23	volume to me sounds a little bit lower. THE WITNESS: I will sit closer to the	

	Page 350		Page 352
1	MS. GAFKEN: I think that did help with the	1	demands?
2	volume, so thank you for doing that. I wasn't sure if	2	A. I'm aware, yes, that that had been an issue
3	it was a tech issue on our side or your side, so thank	3	that has been addressed in prior Puget cases, yes.
4	you. That does seem to help.	4	Q. Through the rulemaking, the commission adopted
5	Q. (By Ms. Gafken) Okay. You may have covered	5	some usage of design day demands; is that correct?
6	this in your last answer, but I want to make sure that	6	A. Yes. And I'm must say, I completely agree that
7	you did have an opportunity to talk about it.	7	that's the right way to go.
8	Why is it that smaller volume customers would	8	Q. Design day demands are basically calculated
9	benefit more under a peak and average method as opposed	9	based on the coldest day possible on the natural gas
10	to a customer demand method?	10	system; correct?
11	A. Okay. As opposed to a customer demand method,	11	A. If not the coldest day possible, it is a day
12	combined with a oh, you said customer demand method.	12	for which the a cold day for which the system is
13	You're using the word customer, okay, to describe the	13	designed to serve.
14	customer component. I follow.	14	Q. If design day demands are used to define peak
15	Generally speaking, a smaller volume customers	15	demand instead of actual test year peak commands, this
16	are you know, receive lower allocation of costs if	16	tends to benefit large volume users over small volume
17	there is not a customer component included in the mains	17	users; is that correct?
18	allocation.	18	A. Well, it it tends to assign more costs to
19	Q. Is a component of it also that residential	19	weather sensitive classes because, you know, the system
20	customers comprise of 90 percent of a utility's	20	was is designed to serve weather sensitive classes in
21	customers, whereas industrial customers are large volume	21	particular on those cold days.
22	customers, represent a smaller percentage of overall	22	And so to the extent that large volume users
23	customers?	23	are less weather sensitive, it the use of the design
24	A. Well, that is a consequence of the math of	24	day is results in a lower allocation than usually,
25	using a customer allocator, yes.	25	you know, in actual historical number.
	Page 351		Page 353
1	Q. Okay. Focusing on peak and average,	1	Q. So I actually thought you had participated in
2	historically, parties have presented different proposals	2	the commissions cost of service rulemaking, but am I
3	regarding how to weigh the peak and how to weigh the	3	correct in understanding that you did not participate in
4	average, with some parties advocating that weighting	4	that rulemaking that resulted in the adoption of
5	should be based on a system load factor while others	5	Chapter 480-85 WAC?
6	advocated a 50/50 weighting between peak and average; is	6	A. That is correct.
7	that correct?	7	Q. My memory sometimes is faulty.
8	A. That is sometimes a debate that occurs in gas	8	Could you please turn to your direct testimony,
9	cost allocation, yes.	9	which is Exhibit KCH-1T, and go to Page 5.
10	Q. I want to explore the benefits that various	10	A. Yes. I'm there.
11	size customers could receive under those two proposals.	11	Q. Perfect. At Lines 12 through 20, you quote
12	Could you explain why it is more beneficial to	12	from the general order R599 from the commission's
13	large volume customers to base the weighting between the	13	rulemaking that adopted the cost of service rules;
14	peak and average on a system load factor basis versus a	14	correct?
15	50/50 weighting?	15	A. Yes.
16	A. Well, it all depends on the on the system	16	Q. Have you read the entire order?
17	load factor that occurs. So if the system load factor	17	A. Yes, I have.
	is, you know, below 50 percent, it's going to provide a	18	Q. Okay. You cite to Paragraph 77 in your
18			testimony; correct?
18 19	lower assignment of costs than a 50 percent. So, you	19	•
18 19 20	know and that means that, you know, a higher volume	20	A. Yes, I do.
18 19 20 21	know and that means that, you know, a higher volume user, all things equal, would have a as a class, have	20 21	A. Yes, I do. Q. And that paragraph explained a modification the
18 19 20 21 22	know and that means that, you know, a higher volume user, all things equal, would have a as a class, have a lower allocation of throughput costs.	20 21 22	 A. Yes, I do. Q. And that paragraph explained a modification the commission made to the allocation of distribution mains;
18 19 20 21 22 23	 know and that means that, you know, a higher volume user, all things equal, would have a as a class, have a lower allocation of throughput costs. Q. Focusing on peak demand, do you recall that for 	20 21 22 23	 A. Yes, I do. Q. And that paragraph explained a modification the commission made to the allocation of distribution mains; correct?
18 19 20 21 22	know and that means that, you know, a higher volume user, all things equal, would have a as a class, have a lower allocation of throughput costs.	20 21 22	 A. Yes, I do. Q. And that paragraph explained a modification the commission made to the allocation of distribution mains;

17 (Pages 350 to 353)

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	Page 354		Page 356	
1	Table 4 of WAC 480-85-060 and states, Direct assignment	1	effect, directly assigned the costs of the facilities.	
2	of distribution mains to a single customer class where	2	Q. Let me ask about that last thing you just said.	
3	practical. All other costs assigned based on design	3	Does that mean that a certain pipe could be	
4	day, peak, and annual throughput average based on system	4	directly assigned to multiple classes of customers?	
5	load factor; is that correct?	5	A. In effect. And, of course, by "directly	
6	A. Yes.	6	assigned," in that case, it would be the costs would	
7	Q. So direct assignment of mains is permitted	7	be exclusive to those classes, and among those classes,	
8	under the rule; correct?	8	the costs would be allocated.	
9	A. Yes, it is.	9	Q. Please turn to your direct testimony,	
10	Q. Would an example of direct assignment of gas	10	Exhibit KCH-1T, and go to Page 6.	
11	mains to an individual customer be assigning a dedicated	11	A. I'm there.	
12	spur that serves one customer from an interstate	12	Q. Okay. So we're actually going to go to Line 17	
13	pipeline?	13	and then continue on to Page 7 through Line 12.	
14	A. Yes, it would.	14	A. Okay.	
15	Q. And in that example, the spur is dedicated for	15	Q. Okay. There you discuss certain clarification	
16	that one customer, and the customer does not rely on any	16	requested by Puget Sound Energy in the cost of service	
17	other mains within the utility system; correct?	17	study rulemaking pertaining to using main pipe diameter	
18	A. That would be an example of direct assignment	18	to allocate costs; correct?	
19	that would be, you know, consistent.	19	A. Yes.	
20	Q. Generally speaking, mains can serve one	20	Q. You testified that the commission summarized	
21	customer or multiple customers or multiple classes of	21	and adopted staff's response, which was that the rules	
22	customers; correct?	22	are clear and do not allow for use of main pipe diameter	
23	A. Correct.	23	to allocate costs; correct?	
24	Q. Direct assignment is different than allocation	24	A. Yes.	
25	of mains that serve multiple customers or customer	25	Q. I want to refer you to a cross exhibit, and I'm	
	Page 355		Page 357	
1	classes; correct?	1	hoping that you have the numbers on them, but it's cross	
2	A. Not necessarily. I I I appreciate the	2	Exhibit KCH-11X, which is a transcript from the rule	
3	distinction that you're making, but I do believe that an	3	adoption hearing in that rulemaking.	
4	aspect of direct assignment is the or a corollary is	4	Do you have that available?	
5	that customer classes that do not use the facilities	5	A. I do have that available, and I have it up on	
6	they are being directly assigned are not assigned those	6	my screen right now.	
7	costs.	7	Q. Perfect. The page number that I refer to is	
8	So, whereas, like, if you consider a	8	going to be the exhibit page number in the top should	
9	hypothetical, if you consider a facility that is only	9	be the top right-hand corner, if you could turn to	
10	used by one customer class and you directly assign the	10	Page 14.	
11	costs of that facility to that customer class, you've	11	A. I'm there.	
12	simultaneously shielded all the other customers from	12	Q. Perfect.	
13	those costs.	13	Referring to Line 17 to 19, do you see that the	
14	Now, consider suppose that class is broken	14	speaker is Chad Stokes, representing the Alliance of	
15	up into two other classes. You would have more than one	15	Western Energy Customers?	
16	class using the directly assigned facility, but that	16	A. I want to make sure that I'm on the right page	
17	should not change the logic that the other classes are	17	because you said Page 14?	
18	not allocated those costs.	18	Q. I did. Page 14, Line 17 to 19.	
19	So whereas, it typically direct	19	A. I believe that Page 14 on the upper right-hand	
20	assignment is used in the way that you've described,	20	column is Mr. Pilianas (phonetic).	
21	Ms. Gafken, but I do believe the principle of it,	21	Q. You are correct. I have my page numbers mixed	
22	particularly as emphasized in the commission's order, is	22	up. Page 15 of the exhibit. If I was referring to	
23	a main sints that an all a second by the sect all a setting a sector	1 0 0	Page 14 of the actual transcript my appleates	
24	a principle that applies equally to not allocating costs to classes that do not use certain facility, even if it	23 24	Page 14 of the actual transcript, my apologies. A. No worries.	

a to classes that do not use certain facility, even if it
 means that conceptually more than one class is, in

18 (Pages 354 to 357)

Yes. I now see the page that you mentioned

25

	Page 358		Page 360
1	Mr. Stokes is responding.	1	less cost to large volume customers and more cost to
2	Q. Okay. I have another page reference, and I	2	small volume customers; correct?
3	want to double check that it's the same before I send	3	A. Yes. But I think the magnitude is important.
4	you someplace where we're not going.	4	Changing this allocation, as I'm proposing, would
5	Okay. If you could turn to Page 17 of the	5	reverse a 67 percent increase in rate base to
6	exhibit and look at Lines 7 through 15.	6	Schedules 87 and 87T and would result in less than a
7	A. Yes. I'm there.		
			1 percent increase in gross.
8	Q. There Chad Stokes referred to the same request	8	So directionally, it does move in the direction
9	for clarification about using pipe diameter to allocate	9	you're describing, but it has you know, not
10	costs; correct?	10	allocating mains the way I'm recommending has a very big
11	A. Yes.	11	negative impact on classes like 87 and 87T and a very
12	Q. And on that same page, Lines 18 through 20,	12	small almost negligible impact on other classes.
13	Chad Stokes states, AWEC urges the commission to make	13	Q. You also accept the use of system load factor
14	clear that the size of pipe can be used to allocate the	14	for the weighting between peak and average under the
15	cost to certain customers.	15	peak and average methodology; correct?
16	Is it your understanding that the commission	16	A. Yes.
17 18	did not adopt AWEC's request and its order or in WAC 480-85-060?	17	Q. By accepting the system load factor, this allows less cost to be assigned to large volume
		18	customers and measure cost to be assigned to small
19	A. That's my understanding. And I also understand	19	
20	that the commission's rules allow for a party to request	20	volume customers; is that correct?
21 22	an exemption. And so to the extent that an exemption is	21	A. The system load factor is the standard way of
23	required to the commission to consider my recommendation	22 23	using the peak and average method. So that, you know,
	with Nucor's, I make such a request.	23	when you say, by accepting it, I'm, you know, agreeing
24 25	Q. Do you recognize that WAC 480-85-060 represents	24	with some sort of cost shift, but simply accepting the
20	a compromise reached during the rulemaking, and to reach	25	growth factor of weighting means I'm accepting the
	Page 359		Page 361
1	that compromise, the commission considered arguments	1	standard approach for using the peak and average method
2	from several experts representing a wide range of	2	for gas cost allocation.
3	interests?	3	Q. My question goes more towards the impact of
4	A. As I did not participate directly in that, I	4	that particular part of the WAC.
5	you know, I I don't have a reason to dispute your	5	And so yes, it is part of the standard, but the
6	characterization of it.	6	impact of that standard does allow less cost to be
7	But I don't know firsthand of any of the	7	assigned to large volume users and more cost to be
8	compromises that may have been reached or concluded, you	8	assigned to small volume users; correct?
9	know. I'm really simply arguing, you know, a specific	9	A. I don't I don't really agree with that.
10	point principle here, but I hope the commission will	10	Let's if we take a step back, the peak and average
11	reconsider.	11	method in the first place is a method that is used to
12	Q. Comparing your proposal to what is set out in	12	for the purpose of allocating substantial costs to large
13	WAC 480-85-060 for allocating gas mains, you rejected	13	volume users because there is a volumetric component to
14	certain aspects and accepted certain aspects.	14	it.
15	Is that a correct characterization?	15	I mean, there are other methods that for
16	A. I'm not quite sure what you you're referring	16	allocating, you know, gas system costs that don't even
17	to, so maybe could you please clarify that?	17	use and so the very fact that peak and average is
18	Q. Sure. And maybe taking a different approach to	18	being used in the first place is is the adoption of a
19	it, we can go through the different aspects.	19	method that, by design, allocates substantial costs to
20	You reject allocating small mains to large	20	high volume users.
21	volume customers and instead recommend that the	21	Now, I think what you're asking me about is,
22	commission allocate mains based on the pipe size; is	22	well, does the fact that the volumetric component is
23	that correct?	23	weighted by system load factor does that provide, you
24	A. Yes.	24	know, a benefit to the large volume users?
25	Q. And the effect of this would be to allocate	25	And I would just say, well, the method in the

19 (Pages 358 to 361)

	Page 362	Page 364
1	first place is the method that is designed to make sure	1 MS. JOHANSON-KUBIN: I believe that we
2	that large volume users get allocated substantial costs.	2 traditionally ask for it to be due one week after the
3	Using the system load factor does provide a	3 hearing.
4	lower allocation of those costs than using some	4 JUDGE HUGHES: Okay. So November 12th? Or
5	arbitrary number like 50 percent.	5 is the there's a holiday.
6	So I think if that's what you're, you know,	6 MS. JOHANSON-KUBIN: Yes. Let me check my
7	wanting me to get out of the question, I would agree	7 calendar.
8	with you, that 50 percent would be a larger allocation,	8 COMMISSIONER RENDAHL: We may have discussed
9	but that would be, in my view, an arbitrary average.	9 that during the public comment hearing, and I'm not
10	Q. You also accept the use of design day demands	10 recalling at this moment what we decided.
11	within the determination of peak demands instead of	11 MS. JOHANSON-KUBIN: Yes. We did discuss it
12	using actual test year peak day demands; correct?	12 at the public comment hearing.
13	A. Yes. I I accept all of the assumptions that	13 CHAIR DANNER: We did. And I believe we
14	Puget Sound Energy used in its analysis, with the sole	14 agreed that the close of business on November 12th would
15	exception of the allocation of the small and medium	15 be the appropriate deadline for that exhibit.
16	means.	16 JUDGE HUGHES: Okay. Well, close of
17	Q. And similar to what we talked about in terms of	17 business November 12th it is.
18	the system load factor, benefits to the large volume	18 And we will designate that as a bench exhibit
19	customers, using design day demands also allows less	19 and number it as, I think, Bench Exhibit 1. It will be
20	cost to be assigned to large volume users and more costs	²⁰ filed in the docket on the 12th.
21	to be assigned to small volume users as compared to	21 So that brings us to briefs. A few issues
22	using the test year peak demand days; correct?	22 here. We have one round of post-hearing briefs due
23	A. The design day demand appropriately allocates	23 December 4th, 2024. Just based off of the we have an
24	more costs to classes that are rather sensitive, and to	24 election going on today, which may impact the length of
25	the extent that large volume users are less weather	25 this brief.
	Page 363	Page 365
1	Page 363	Page 365
1	sensitive than it, you know, allocates fewer costs to	1 So assuming nothing is repealed and nothing
2	sensitive than it, you know, allocates fewer costs to them than a historical test period, I agree with that as	 So assuming nothing is repealed and nothing changes, how many pages would the parties like, starting
2 3	sensitive than it, you know, allocates fewer costs to them than a historical test period, I agree with that as we discussed previously.	 So assuming nothing is repealed and nothing changes, how many pages would the parties like, starting with staff?
2 3 4	sensitive than it, you know, allocates fewer costs to them than a historical test period, I agree with that as we discussed previously. MS. GAFKEN: Okay. Thank you very much. I	 So assuming nothing is repealed and nothing changes, how many pages would the parties like, starting with staff? MS. GAFKEN: I think the standard 60 should
2 3	sensitive than it, you know, allocates fewer costs to them than a historical test period, I agree with that as we discussed previously. MS. GAFKEN: Okay. Thank you very much. I have no further questions.	 So assuming nothing is repealed and nothing changes, how many pages would the parties like, starting with staff? MS. GAFKEN: I think the standard 60 should be sufficient. I realize that this is a very large case
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20 (Pages 362 to 365)

	ruger Sound Energy / In the Matter of. Fuger Sound Energy	DUCR	et Nos. 0E-240004, 0G-240005, and 0E-250810 (Consolidated) - Vol.
	Page 366		Page 368
1	MS. MOSER: I expect we will also have a	1	JUDGE HUGHES: Okay.
2	brief shorter than 60 pages, but I'm not particularly	2	COMMISSIONER RENDAHL: Just curious what the
3	worried about a page limit or not having one.	3	parties what your thoughts are in terms of additional
4	JUDGE HUGHES: Okay. Any of the parties on	4	pages you would need.
5	the line outside of the room?	5	Do we think five could work? But, again, this
6	MS. JOHANSON-KUBIN: Public counsel feels 60	6	is potentially significant.
7	pages is sufficient.	7	MS. CARSON: So would this be five pages in
8	JUDGE HUGHES: Okay. The Energy Project?	8	addition to the 75? Is that what we're talking about?
9	MR. ZAKAI: Good morning. The Energy	9	CHAIR DANNER: That's what I'm thinking.
10	Project will file a brief less than 60 pages and has no	10	And, of course, if we read these and we feel our brains
11	preference. Thank you.	11	are going to explode, we might have to have more
12	JUDGE HUGHES: Very good. Nucor?	12	briefing or something, but that's where I would like to
13	MR. XENOPOULOS: That's more than adequate	13	start.
14	for us. Thank you, Your Honor.	14	MS. CARSON: I think that makes sense, from
15	JUDGE HUGHES: Very good. Federal agencies?	15	PSE's perspective.
16	MS. LIOTTA: Yes, Your Honor. I think we	16	MS. GAFKEN: That make sense to staff as
17	will not have a brief that long, so 60 pages is more	17	well.
18	than enough for us. Thank you.	18	JUDGE HUGHES: Okay. Let's give an
19	JUDGE HUGHES: Very good. Fred Meyer?	19	opportunity for any objections?
20	MR. BOEHM: Thank you, Your Honor. 60 pages	20	Hearing nothing, we will do the 75 pages with
21	is more than enough for us.	21	an optional plus five, depending.
22	JUDGE HUGHES: Very good. Walmart?	22	Are there any questions from the parties?
23	MS. CAVIGLIA: Thank you, Your Honor. We	23	Hearing nothing, once more, is there anything
24	are the same. 60 pages is more than we'll need.	24	else we need to address today?
25	JUDGE HUGHES: Fantastic. Microsoft.	25	Okay. Good. Thank you to all the parties,
	Page 367		Page 369
1	UNIDENTIFIED SPEAKER: Sixty is fine for	1	witnesses, and representatives. Your professionalism
2	Microsoft. Thank you.	2	made this go very smoothly, and I appreciate that, so
3	JUDGE HUGHES: I apologize. Did I forget	3	thank you.
4	any party?	4	We are adjourned and off the record. Thank
5	All right. So that's the easy of the brief	5	you.
6	questions.	6	(Hearing concluded at 11:19 a.m.)
7	There is an election going on and as I	7	(3 ,
8	mentioned, and the outcome of some initiatives may have	8	
9	some impacts on this proceeding.	9	
10	COMMISSIONER RENDAHL: I guess just in	10	
11	response to Puget Sound Energy, I think 75 is fine with	11	
12	75.	12	
13	JUDGE HUGHES: Okay.	13	
14	COMMISSIONER RENDAHL: I don't know about my	14	
15	colleagues.	15	
16	CHAIR DANNER: Yeah. I don't have a problem	16	
17	with 75, and I we have commitments from many other	17	
18	parties that their briefs will be less than 60, so we	18	
19	can deal with that. But, no, seriously a 75-page limit	19	
20	would be fine.	20	
21	I would also make some accommodation if there	21	
22	are any developments this evening that that we need	22	
23	to be informed about. You know, I would want to allow	23	
24	the parties at least five pages to discuss that and any	24	
25	impacts that they feel that we need to know.	25	

	Page 370	
1	CERTIFICATE	
2		
3	STATE OF WASHINGTON	
4	COUNTY OF THURSTON	
5		
6 7	I, ANDREA L. CLEVENGER, a Certified Court Reporter in and for the State of Washington, do hereby	
8	certify that the foregoing transcript of the evidentiary	
9	hearing on November 5, 2024, is true and accurate to the	
10	best of my knowledge, skill and ability.	
11	IN WITNESS WHEREOF, I have hereunto set my hand	
12	and seal this 20th day of November, 2024.	
13		
14		
15	- Amper 2 Clivinger -	
16 17	ANDREA L. CLEVENGER, CCR, RPR #3041	
17 18	My commission expires:	
10 19	DECEMBER 19, 2025	
20	5202MBER 10, 2020	
21		
22		
23		
24		
25		

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