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Transcript of Proceedings

August 24, 2023

Horse Heaven Wind Farm v.

EF-210011

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BEFORE THE STATE OF WASHINGTON ENERGY FACILITY SITE EVALUATION COUNCIL

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In the Matter of the Application of:

Scout Clean Energy, LLC, for) Docket No. EF-210011 Horse Heaven Wind Farm, LLC,)

Applicant.

ADJUDICATIVE HEARING VERBATIM RECORD OF PROCEEDINGS

VOLUME 7

August 24, 2023

Lacey, Washington

Reporter: John M.S. Botelho, CCR, RPR



	verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	Pa
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4	Elizabeth Osborne	
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6	Eli Levitt Department of Ecology	
7	Mike Livingston Department of Fish and Wildlife	
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9	Lenny Young Department of Natural Resources	
10	Stacey Brewster Utilities & Transportation Commission	
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12	Derek Sandison (NOT PRESENT) Department of Agriculture	
13	Ed Brost	
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18	_	cipant is appearing in shington, with the Court
19	_	r participants are via Microsoft Teams.
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21		
22		
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Horse Heaven Wind Farm		
Verbatim Record of Proceedings.	Adjudicative Hearing -	August 24, 2023

	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	Page 1300
1	INDEX OF PROCEEDINGS	
2	PROCEEDINGS/WITNESSES:	PAGE NO.
3	Housekeeping session	1303
4	Judge's remarks re schedule	1315
5	Roll call of Council	1317
6	Judge's inquiry re ex parte communications	1318
7	Roll call of parties	1318
8	BRYNN GUTHRIE	1 2 0 1
9	Adoption of prefiled testimony Cross-examination by Mr. Aramburu	1321 1322
10	Cross-examination by Ms. Voelckers Redirect examination by Ms. Schimelpfenig	
11	Recross-examination by Ms. Reyneveld Questions by Council Member Levitt	1373 1376
12	Questions by Council Member Livingston Questions by Council Member Young	1380 1382
13	Questions by Judge Torem Recross-examination by Mr. Aramburu Questions by Council Member Levitt	1383 1386 1392
14	DEAN APOSTOL	1372
15	Adoption of prefiled testimony Redirect examination by Mr. Aramburu	1395 1400
16	Recross-examination by Ms. Voelckers	1409
17	Questions by Council Chair Drew Questions by Council Member Brewster	1411 1412
18	Questions by Council Member Young Questions by Council Member Levitt Recross-examination by Ms. Schimelpfenig	1417 1422 1428
19		
20	Discussion re witnesses	1432
21	GREGORY POULOS Adoption of prefiled testimony	1440
22	Direct examination by Mr. McMahan Cross-examination by Mr. Aramburu	1442 1446
23	Redirect examination by Mr. McMahan Questions by Council Member Young	1484 1492
24	Questions by Judge Torem Recross-examination by Mr. Aramburu	1494 1499
25		



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	Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	Page 13
L	INDEX OF PROCEEDINGS (Continuing)	
2	PROCEEDINGS/WITNESSES:	PAGE NO.
3	Discussion re schedule, witnesses	1506
Ł	Adjournment	1516
1		
5		
:		
1		
,		
}		
5		
:		
1		



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adj	judicative Hearing - August 24, 2023	Page 1302
1		EXHIBIT INDEX	
2	EXHIBIT NO.	PARTY	ADMITTED
3	1000_T_Revised	Scout Clean Energy	1321
4	1001_Revised	Scout Clean Energy	1321
5	1021_R	Scout Clean Energy	1321
6	1031_R	Scout Clean Energy	1440
7	1032	Scout Clean Energy	1440
8	1036_R	Scout Clean Energy	1321
9	5100	Tri-Cities C.A.R.E.S.	1395
10	5101	Tri-Cities C.A.R.E.S.	1395
11	5102_T	Tri-Cities C.A.R.E.S.	1395
12	5103_R	Tri-Cities C.A.R.E.S.	1395
13	5104_R	Tri-Cities C.A.R.E.S.	1395
14	5904_X	Tri-Cities C.A.R.E.S.	1503
15	5905_X	Tri-Cities C.A.R.E.S.	1503
16	5906_R	Tri-Cities C.A.R.E.S.	1407
17			
18			
19			
20			
21			
22			
23			
24			
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Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative	Hearing - August 24, 2023

1	BE IT REMEMBERED that on Thursday,
2	August 24, 2023, at 621 Woodland Square Loop Southeast,
3	Lacey, Washington, at 8:45 a.m., before the Washington
4	Energy Facility Site Evaluation Council; Kathleen Drew,
5	Chair; and Adam E. Torem, Administrative Law Judge, the
6	following proceedings were continued, to wit:
7	
8	<<<<< >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
9	
10	JUDGE TOREM: All right. Good
11	morning, everyone. It is going to be our Day 7
12	housekeeping session, August 24th. We have a couple
13	issues today: I think really the question about
14	schedule and the Yakama Nation's witnesses. And then,
15	second, the map that you have, Mr. Aramburu, for today.
16	So if we have little bit of echo going on, if we
17	can figure that out, that'd be great.
18	All right. I think that might be solved.
19	Shona Voelckers, are you on?
20	There you are. Good morning.
21	MS. VOELCKERS: Good morning, Your
22	Honor.
23	JUDGE TOREM: What's happening at
24	the Yakama Nation as far as the witnesses?
25	MS. VOELCKERS: Your Honor, we are



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1304
1	going to try to contact Councilman Wallahee in the
2	middle of today and have not because we have not yet
3	been able to contact him this morning. So I apologize
4	we don't have more of an update, but our plan is to try
5	to speak with him in the middle of today.
6	And I think you know, I understand that this is
7	short timing, so I think it's best to plan on him for
8	tomorrow rather than today. And I also you know,
9	when we do speak with him, we'll try to see if if he
10	would just prefer that we have the parties stipulate to
11	acceptance of his testimony in the same way that we did
12	for the fire chief or if he still wants to try to
13	testify tomorrow. I'd like the opportunity to speak to
14	him about that first. So I have not I have not
15	yet not had a conversation with him.
16	JUDGE TOREM: Okay. And when you do
17	this afternoon, hopefully, then if this question of the
18	stipulation based on timing is there, we'll have to ask
19	the Council members, same with they did with Fire
20	Chief Click, about questions.
21	And I've still been rolling around in my mind as
22	to the necessity, if possible, for a supplemental
23	hearing time. And as we get your unavailability
24	notices, we might figure out when that might happen.
25	My concern with that is, as much as we've had not
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	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1305
1	all eight Council members in any of these days, we
2	might get even fewer supplemental, because we just
3	don't know what their availability is.
4	But, again, the videos, if you've looked at any of
5	them, are pretty good quality for capturing what's
6	going on. And staff behind me and around the building
7	has done a great job making sure what's on the screen
8	kind of corresponds to who's talking, so and it's as
9	good as anything the Brady Bunch was able to do years
10	ago, right? So we're looking okay on on how the
11	videos transmit the truth of what's happening in the
12	hearing and picks up, I think, both the words and the
13	spirit.
14	So if we need to take Councilman Wallahee and make
15	sure he's available for actual questions, I don't know
16	if he was going to speak in his own language as well.
17	Because I think, Ms. Voelckers, frankly, that's pretty
18	powerful witness testimony from the Yakama Nation, and
19	I don't want to deprive any witness of that ability as
20	well.
21	MS. VOELCKERS: Thank you, Your
22	Honor. I know in speaking with him before that he did
23	have more that he wanted to say to the Council than
24	what is in his written testimony. I also understand
25	that his loss earlier this week was an immediate family
2	253.627.6401 schedule@balitigation.c

	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1306
1	member, and so I continue to try to just do my best to
2	see what he would like to do moving forward, and I will
3	update you as soon as I have something to share.
4	JUDGE TOREM: Okay. Run by him the
5	chance of potentially that supplemental hearing.
6	Because, frankly, I'm advocating for that just to make
7	sure we have a complete record. And just even if we
8	hadn't cut off those other two days at the front of the
9	hearing, I think we'd still be facing some of these
10	issues. Because the COVID question; people die; babies
11	are born; life goes on outside of EFSEC. I think we
12	all know that. So we'll just take life as it happens
13	and try to repair things as we go.
14	So, again, my condolences to the family there. If
15	we can work with it after a grieving period and we get
16	his full attention, that might be better. So it's
17	it's another option unless he feels like today's the
18	day or tomorrow's the day.
19	MS. VOELCKERS: Thank you, Your
20	Honor. I I would expect that today does not feel
21	like the day, but I will I will convey all that to
22	him and appreciate the acknowledgment that we are all
23	human here in this process.
24	So I also just wanted to note that in in
25	general scheduling and actually I do share what I



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2	023

1	think what I'm hearing is that the two days that we
2	struck were not not the cause for any rescheduling
3	here. I don't expect that I will need the full half
4	hour that I've estimated for today's witnesses, and so
5	I just want to flag, I may still have a few questions
б	depending on what is brought out, but in preparation
7	for today, I wanted to share that so that hopefully
8	that would take a little pressure off or, you know,
9	allow some some time to others that that may have
10	questions.

11 I'm, frankly, JUDGE TOREM: 12 optimistic we can get through all of Brynn Guthrie and 13 then Mr. Apostol and Mr. Poulos today rather than carrying to tomorrow. I'm optimistic, but we'll see 14 15 how the questions go. That would leave us a little 16 more time for the Don McIvor testimony tomorrow and 17 maybe going back and resolving the question that you've 18 asked about the availability of the Fish and Wildlife 19 witnesses that are behind the EFSEC firewall at some 20 limit and figure that out.

So we're working that issue this morning and trying to sort out what the -- what the directors and just EFSEC policy would be on having them actually in front of the Council as opposed to just the limited depositions that you took. So we may have an answer



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1308 1 for that today as well. MS. VOELCKERS: Okay. We will --2 3 JUDGE TOREM: Okay. 4 MS. VOELCKERS: -- have our letter 5 to the Council in probably mid-morning. It's being 6 finalized. That would be great. 7 JUDGE TOREM: That would formalize the request and put it all out 8 9 there for Ms. Bumpus and, you know, the AGs to review 10 and know exactly the question they're trying to answer. 11 All right. Let's turn to -- Mr. Aramburu, you had 12 that map being developed. I don't -- I don't know if 13 it came to my e-mail this morning. I haven't really 14 checked a whole bunch of EFSEC e-mails today. 15 Has that been circulated to the parties? 16 You're on "mute." We can't hear you. You're on 17 "mute." Just proving we're all human, right? Okay. 18 19 MR. ARAMBURU: There. That's been proven many times already today. 20 21 So we -- we provided to the parties yesterday 2.2 afternoon two supplemental exhibits for -- from 23 Mr. Apostol and then cross-examination exhibits for 24 Mr. Poulos. And I hope the parties got them. 25 And I do apologize for the late delivery of these



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1309
1	materials. We have been working under extreme pressure
2	with these late-filed documents, including the Moon
3	memo. And so we've done our best in that regard to get
4	materials out to the parties. So so that's what
5	we've done.
6	A couple of other housekeeping matters, if you
7	want to talk about those too.
8	JUDGE TOREM: Sure. I just want to
9	confirm I just got an indication in the chat that Lisa
10	Masengale confirms we did get the map, so not a
11	concern.
12	What's next on your list?
13	MR. ARAMBURU: Okay. You should
14	have received several materials. The cross-examination
15	exhibits for Mr. Poulos and the supplemental maps for
16	Mr. Apostol. So sounds like you received those.
17	JUDGE TOREM: We did.
18	MR. ARAMBURU: Okay. Good. Good.
19	And so just to let you know, we're continuing to
20	work with Mr. Click to get some answers to Ms. Drew's
21	questions, or question to him yesterday. I believe
22	he's still fighting fires in Spokane.
23	We are still working on the response to the Wiley
24	materials. We expect to have a rebuttal witness. But
25	please understand, we are looking at the last two weeks



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1310
1	in summertime. People are not available. And a lot of
2	them not available on short notice because of other
3	things.
4	So, similarly, we are continuing to look for a
5	rebuttal witness to the Kobus addendum to his
6	testimony, or his supplement to his testimony, whatever
7	we're calling it. We're continuing to work on that.
8	But we have the same problem. Late-summer, short-
9	notice kind of situation.
10	JUDGE TOREM: No worries. And,
11	again, everything I said to the Yakama Nation about
12	potentially having that supplemental hearing date, if
13	this week's pressures don't don't work out, we may
14	have some other options, Mr. Aramburu, to make sure we
15	can get as much as we can.
16	MR. ARAMBURU: And I do want to put
17	a comment I don't know if it's an objection or it's
18	a motion, but I do want to address an issue.
19	Ms. Guthrie and Mr. Apostol are on this morning as
20	visual witnesses. We are doing our best with limited
21	materials to try to put together that testimony and the
22	cross-examination testimony.
23	Earlier in the hearing, we did point out the
24	difficulty of dealing with visual materials on a
25	fragmented situation with with counsel and with



Page 1311

1 members of the -- legal counsel and members of the 2 Council, itself. Those concerns continue, and we would 3 renew our request for the opportunity for an in-person 4 hearing where these materials can be easily passed 5 around, easily described, those kinds of things. And 6 it is just a concern.

We would request, should the -- should you decide 7 to provide extra time, we really do need some extra 8 time to -- to deal with this very important visual 9 10 material. We had hoped, as we were preparing, that we 11 would be able to provide individual papers, oversize 12 drawings, other things to the Council members. Time 13 has just not permitted that to happen. I think that's 14 a much more effective way to have the Council review 15 these materials.

And just to be quite frank, having received the Moon memo and the other materials, that has just not been possible, and we think we've been prejudiced by that.

So to the extent that we -- that you do find it appropriate to provide additional time, we would like some additional attention to those visual issues.

So I wanted that request to be on the record. JUDGE TOREM: And perhaps,

Mr. Aramburu, those supplemental exhibits of full scale

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Page 1312

might be submitted and be available for the Council in 1 deliberations at the scale that you're wishing. 2 So 3 that may be something where we could work out -- if they're admitted today and they can have a larger 4 version in deliberations, that's -- that's not unusual 5 trial practice, I think just to provide an exhibit in a 6 courtroom and then a larger one, at least that 7 giant-size one that they have in an in-person courtroom 8 9 to have the jury take back.

10 So in this case, I think we could do something 11 analogous if the other parties would stipulate it's the 12 same exhibit, just larger so that it brings out the 13 scale and the -- I guess the definition that you're 14 looking for. We can talk about that as well.

MR. ARAMBURU: And I do -- that is something we're planning on doing, and I was hoping to have that set of documents, at least 11 by 17 or more, kind of available, and it would have to be distributed individually to Council members. So it was -- it was quite a process. And we just have not had the time to do that.

We do continue to think, although it's looking increasingly unlikely based upon things here, that we could get everybody in the same room and look at these visual materials together on a screen, have both



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1313
1	Ms. Guthrie and Mr. Apostol address those issues in a
2	larger scale where everybody can ask questions and that
3	kind of thing. But and I continue to make that
4	request. But I understand your ruling.
5	JUDGE TOREM: All right. Well,
6	again, that issue's definitely left the Horse Heaven
7	barn. So it's not going to come back in any other
8	change as far as the in person. That's been dictated
9	not by me but by others. So noted again. It's in the
10	record plenty of times, Mr. Aramburu. So I don't know
11	what else I can tell you.
12	Did any other parties have a housekeeping item for
13	this morning? Because I know we just have a couple
14	minutes left.
15	Mr. McMahan.
16	MR. McMAHAN: Yes, Your Honor.
17	First of all, we will of course object to any attempt
18	to reopen testimony where the deadline has long
19	expired, so I'll just put that out there.
20	Secondly, we do have an objection to the map that
21	was submitted with the Apostol testimony. We could
22	either wait to air that objection once the Council
23	is is with us, and we can take that up then, or if
24	you would like, we can deal with that objection now.
25	JUDGE TOREM: I think timing-wise



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1314
1	we'll need to wait till we get to the Apostol
2	testimony. So we can go forward on that question then
3	when it's introduced. Unless if you and
4	Mr. Aramburu want to have that as the preliminary to
5	Mr. Apostol's testimony before he even has it in front
6	of him, I'll leave that to you guys as to the best way
7	to present that.
8	MR. McMAHAN: I'm fine taking it up
9	when we're in session.
10	JUDGE TOREM: Okay. I imagine we're
11	starting to get a number of the Council members
12	joining. So at 9:00 here, which is all of a minute
13	away, we'll go ahead and start, see what other
14	questions they might have or ex parte disclosures, and
15	then we'll get started with Ms. Guthrie, who I see
16	there with Ms. Schimelpfenig.
17	MR. ARAMBURU: And may I suggest
18	that with regard to the exhibits for Mr. Apostol, that
19	we address that when when at the beginning of his
20	testimony?
21	JUDGE TOREM: Certainly.
22	MR. ARAMBURU: And we can introduce
23	those. And if there's questions that Mr. McMahan has
24	or objections, then I think we can deal with that at
25	that time.



1	JUDGE TOREM: Certainly,
2	Mr. Aramburu. I will endeavor to when I give you
3	the 30,000-foot description of his testimony, you can
4	introduce the additional exhibits beyond the 5100
5	through 5104 that were originally part of his
6	testimony.
7	Well, Council members, good morning. It's 9:00.
8	As you can hear, we're just finishing up a couple of
9	preparation tips for today.
10	It is Day 7 of the hearing. And, as usual, we
11	start out the day with some optimism that we might get
12	a lot more done than is actually on the schedule, and
13	then we'll be overcome by events as usual as well.
14	So this morning we have Brynn Guthrie. And we'll
15	swear her in shortly. Then we're going to, I hope,
16	start on the visual witness, visual impacts witness
17	from the Apostol cross-exam testimony that Tri-Cities
18	C.A.R.E.S. is presenting today. There are some new
19	exhibits that are coming in for visual things. And if
20	you overheard, we may have some evidentiary objections,
21	so bear with us as we get started on that testimony.
22	And then Mr. Poulos, another witness regarding
23	visual impacts, is going to start his testimony today,
24	and I think there's some optimism, rather than carrying
25	over to Friday morning, we may have that taken care of



as well.

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Other items that you should be aware of. Mr. Jerry Meninick is going to testify tomorrow. He's on the schedule there as a time to be determined.

5 And Council Member Wallahee, Yakama Nation's going to reach out to him this afternoon and see whether he 6 can be rescheduled to Friday. But there's also a 7 possibility that we'll be setting up, as you've been 8 9 requested for your September availability, a 10 supplemental hearing of a few hours, not a full day, 11 but whatever time we think we need, and that may be the 12 time where Council Member Wallahee is able to provide 13 testimony in person rather than simply relying on the 14 written prefiled testimony that's in the packets that 15 everybody received.

16 So that's sort of where we're setting things up. 17 And I believe Council members may have a small deliberative-type session, informational session at the 18 19 end of this morning's morning just so we can bring you 20 up to speed on where plans are for scheduling 21 deliberations and anything else we need to know before 2.2 the end of the formal adjudicative hearing tomorrow and 23 get any procedural questions you might have on what we 24 do after tomorrow, waiting for post-hearing briefs and the rest of those kind of things. 25



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1317			
1	All right. So let me have somebody formally call			
2	the roll so we know who's here, and then I'll ask you			
3	about the any ex parte disclosures or contacts you			
4	may have had between yesterday and during the public			
5	comment session yesterday.			
6	Will the staff please call the Council member			
7	roll.			
8	MS. GRANTHAM: Certainly.			
9	EFSEC Chair.			
10	COUNCIL CHAIR DREW: Kathleen Drew,			
11	here.			
12	MS. GRANTHAM: Department of			
13	Commerce.			
14	COUNCIL MEMBER OSBORNE: Elizabeth			
15	Osborne, present.			
16	MS. GRANTHAM: Department of			
17	Ecology.			
18	COUNCIL MEMBER LEVITT: Eli Levitt,			
19	present.			
20	MS. GRANTHAM: Department of Fish			
21	and Wildlife.			
22	COUNCIL MEMBER LIVINGSTON: Mike			
23	Livingston, present.			
24	MS. GRANTHAM: Department of Natural			
25	Resources.			



	Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1318			
1	COUNCIL MEMBER YOUNG: Lenny Young,			
2	present.			
3	MS. GRANTHAM: Utilities &			
4	Transportation Commission.			
5	COUNCIL MEMBER BREWSTER: Stacey			
6	Brewster, present.			
7	MS. GRANTHAM: For the Horse Heaven			
8	project: Department of Agriculture.			
9	And Benton County.			
10	COUNCIL MEMBER BROST: Ed Brost is			
11	here.			
12	JUDGE TOREM: All right. Good			
13	morning. I thought I might have heard our agriculture			
14	rep trying to chime in, but he'll let us know. He was			
15	at the public comment hearing last night, and hopefully			
16	he has time today to join us for some or all of the			
17	session.			
18	Council members, did you have any ex parte			
19	disclosures or contacts that you needed to make today?			
20	All right. Not seeing any.			
21	So let's move on to calling the parties.			
22	For the applicant today?			
23	MS. SCHIMELPFENIG: Good morning,			
24	Your Honor. Emily Schimelpfenig for the applicant.			
25	And also here is Tim McMahan and Willa Perlmutter.			

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Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1319 1 JUDGE TOREM: All right. Thank you. I think I remember you said Ms. Stavitsky might be away 2 3 toward the end of the hearing. 4 For the County, Benton County. 5 MR. HARPER: Morning, Your Honor. Ken Harper with Z. Foster. 6 7 JUDGE TOREM: Good morning. Counsel for the environment. 8 9 MS. REYNEVELD: Good morning. Sarah 10 Reyneveld, Your Honor, here for counsel for the 11 environment. 12 JUDGE TOREM: And Yakama Nation. 13 MS. VOELCKERS: Good morning, Your 14 Honor and EFSEC Council. Shona Voelckers along with 15 Ethan Jones and Jessica Houston for the Yakama Nation. 16 JUDGE TOREM: Thank you. 17 And for Tri-Cities C.A.R.E.S. MR. ARAMBURU: Rick Aramburu 18 19 representing Tri-Cities C.A.R.E.S., intervenor in these 20 proceedings. 21 (Witness Brynn Guthrie 2.2 appearing remotely.) 23 24 JUDGE TOREM: All right. And we 25 have Brynn Guthrie as our first witness this morning.



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1320
1	Ms. Guthrie's exhibits Ms. Schimelpfenig, let me
2	know if any of these are I'm missing them are
3	1000 one triple zero T; 1001 I believe there's
4	a revised edition. And then later on, for response and
5	rebuttal testimony, 1021 and 1036.
6	And that should be what's showing in the Council
7	members' SharePoint folder for this witness.
8	Ms. Schimelpfenig, did I miss any?
9	MS. SCHIMELPFENIG: No, Your Honor.
10	Thank you.
11	JUDGE TOREM: All right. So,
12	Ms. Guthrie, good morning.
13	THE WITNESS: Good morning.
14	JUDGE TOREM: All right. We have a
15	court reporter, as you can see, to my right, taking
16	everything down, so we've asked witnesses to speak a
17	little slower and more deliberately than you might
18	otherwise.
19	I'm going to have you raise your right hand. I'll
20	swear you in. And Ms. Schimelpfenig can maybe give a
21	two- or three-sentence summary orienting everybody to
22	what you're testifying about. We'll adopt these
23	exhibits and turn you over for cross-exam.
24	If you'll raise your right hand.
25	////



1	BRYNN GUTHRIE, appearing remotely, was duly
2	sworn by the Administrative
3	Law Judge as follows:
4	
5	JUDGE TOREM: Do you, Brynn Guthrie,
6	solemnly swear or affirm that all of the prefiled
7	testimony contained in the exhibits I referenced and
8	any of the answers you'll give today to questions from
9	attorneys and Council members will be the truth, the
10	whole truth, and nothing but the truth?
11	THE WITNESS: I do.
12	JUDGE TOREM: All right. Thank you.
13	Ms. Schimelpfenig, I'm going to admit those
14	exhibits that we noted and ask you to give us a quick
15	view of where we're going.
16	(Exhibit Nos. 1000_T_Revised,
17	1001_Revised, 1021_R, and
18	1036_R admitted.)
19	
20	MS. SCHIMELPFENIG: Thank you, Your
21	Honor.
22	Ms. Guthrie is going to be testifying about visual
23	impacts and the visual impact assessment completed by
24	the applicant. She sponsored Section 4.2.3 of the
25	application and Appendix Q, both related to visual



1 impacts. 2 Thank you. 3 JUDGE TOREM: All right. And I 4 believe we have scheduled for cross-examination Mr. Aramburu for Tri-Cities C.A.R.E.S. and 5 Ms. Voelckers for the Yakama Nation. 6 7 Have the two of you worked out who's going to go first? 8 9 MR. ARAMBURU: Well, I think I'm 10 going to go first, unless Ms. Voelckers wants to. 11 MS. VOELCKERS: Please proceed. 12 Thank you. 13 JUDGE TOREM: All right. Mr. Aramburu, the floor is yours. 14 15 16 CROSS-EXAMINATION 17 BY MR. ARAMBURU: 18 Okay. I am going to try to share some exhibits today, 0 19 and this is an area in which angels fear to tread, but 20 I'm -- I'm going to do that, so... 21 MR. ARAMBURU: Okay. Hopefully we 2.2 have successfully screen shared. 23 Can the parties see on screen? And can they see 24 it as it gets bigger and smaller? 25 JUDGE TOREM: Yes, we can.



1		MR. ARAMBURU: Okay. Thank you.
2		Thank you.
3	Q	(By Mr. Aramburu) Okay. So, Ms. Guthrie, just a
4		couple of background issues here for you.
5		When did you first get started in this project?
6	А	I first became aware of this project in approximately
7		October 2021, around the time I joined Tetra Tech, my
8		current employer.
9	Q	So so you're an employee of Tetra Tech doing the
10		visual impact analysis for this application, correct?
11	A	That's the first time I became involved in it. That's
12		correct.
13	Q	Okay. I wanted to as we do our inquiries today, I
14		kind of wanted to set the stage a little bit.
15		How many times have you been down to the
16		Tri-Cities to look at the Horse Heaven Hills and this
17		project?
18	A	Sure. As I began reviewing the materials in
19		preparation for this process, I conducted two field
20		visits to the project area over the course of
21		approximately three days.
22	Q	Okay. And so I'd just like to talk a little bit about
23		kind of the general landforms down there, if I may.
24		And I'm going to try to bring up a map here. And
25		what you're looking at, Ms. Guthrie, is the section of



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1324
1		the draft EIS, the visual impact assessment portion of
2		the draft EIS.
3		Do you see that on your screen?
4	A	I do.
5	Q	Okay. And that was prepared for EFSEC by SWCA
6		Environmental Consultants in April of 2022.
7		Do you see that?
8	A	I see that.
9	Q	Okay. And have you had a chance to review this?
10	A	I have.
11	Q	Did you incorporate it at all into the work that you
12		did?
13	A	No. No. Our work was focused on the application
13 14	A	No. No. Our work was focused on the application materials.
_	Α Q	
14		materials.
14 15		<pre>materials. And so you didn't examine or rely on this document at</pre>
14 15 16	Q	<pre>materials. And so you didn't examine or rely on this document at all?</pre>
14 15 16 17	Q	<pre>materials. And so you didn't examine or rely on this document at all? No.</pre>
 14 15 16 17 18 	Q A Q	<pre>materials. And so you didn't examine or rely on this document at all? No. Okay. Okay. But you've read it?</pre>
 14 15 16 17 18 19 	Q A Q A	<pre>materials. And so you didn't examine or rely on this document at all? No. Okay. Okay. But you've read it? I've yes, I have read through it. That's correct.</pre>
 14 15 16 17 18 19 20 	Q A Q A	<pre>materials. And so you didn't examine or rely on this document at all? No. Okay. Okay. But you've read it? I've yes, I have read through it. That's correct. But I did not prepare this document.</pre>
 14 15 16 17 18 19 20 21 	Q A Q A	<pre>materials. And so you didn't examine or rely on this document at all? No. Okay. Okay. But you've read it? I've yes, I have read through it. That's correct. But I did not prepare this document. Okay. But you've read it before today, correct?</pre>
 14 15 16 17 18 19 20 21 22 	Q A Q A	<pre>materials. And so you didn't examine or rely on this document at all? No. Okay. Okay. But you've read it? I've yes, I have read through it. That's correct. But I did not prepare this document. Okay. But you've read it before today, correct?</pre>



1		She's read it.
2	Q	(By Mr. Aramburu) Okay. And I wanted to talk a little
3		bit about kind of the general landforms that exist
4		in in the community. And I'm putting up and as I
5		refer to this document I'm going to refer to PDF pages
6		because it's easier. And I hope you can see the PDF
7		pages. PDF Page 46.
8	А	Yes, I see that.
9	Q	See that.
10		So just kind of the general landforms of south
11		Benton County in general, can you see my cursor?
12	Α	I can.
13	Q	Okay. So Benton County. This is the southern part of
14		Benton County, southwest Washington.
15		There's an area here adjacent and south-southwest
16		of the Yakima River. And to acquaint everyone, this is
17		the Yakima that runs in a southeast direction, and
18		it let's see. Excuse me. That that is okay.
19		So the the Yakima runs in so the Yakima is
20		over here, correct?
21	A	That looks correct, yeah.
22	Q	Okay. The Yakima runs into the Columbia, just right at
23		Columbia Point, in Richland; is that right?
24	Α	Yes, I believe that's right.
25	Q	And and there's an area just to the southwest of the

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1		Columbia.
2		And can you describe what the improvements are or
3		the developments are in that area?
4	A	In the southwest as your cursor indicates currently?
5	Q	In this in this area in here. What's the activity
6		that's in here? What's the development activity?
7	A	I would characterize that area as developed, urban,
8		suburban areas. There are open spaces primarily
9		focused along the riverfront but also golf courses,
10		public parks, sports amenities, neighborhoods, shopping
11		centers, et cetera.
12	Q	Let me scroll down a little bit more and see if we can
13		find another document that might be more useful to us
14		here.
15		Okay. This might be a better map to to
16		describe this.
17		So this is PDF Page 53 of the visual impact
18		assessment.
19		So let me just go back for a moment here.
20		So the Yakima runs into the Columbia at this
21		location. And then this does this aerial photograph
22		show the development area around southwest Columbia?
23		(Audible videoconference
24		disruption.)
25		////

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	verba	titim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1327
1		MR. ARAMBURU: I hope that's not me.
2		THE WITNESS: Could I have you
3		repeat that question, please?
4	Q	(By Mr. Aramburu) And does this aerial photograph
5		generally show the development which is found southwest
6		of the Columbia?
7	A	It appears to, though I I don't know off the top of
8		my head the date of the aerial photograph.
9	Q	Okay. Let's assume that
10	A	But, in general, it appears to.
11	Q	Okay. And in this area here, we see the kind of
12		familiar pattern of residential development; is that
13		right?
14	A	Yes.
15	Q	And then more towards the northerly portion here,
16		there's more commercial areas, the industrial areas.
17		Is that
18		MS. SCHIMELPFENIG: Objection, Your
19		Honor. Vague. You can't identify what types of
20		activity is going on from this, like, level of zoom.
21		MR. ARAMBURU: No, I understand.
22		I'm just asking for the witness's recollections on
23		her when she was in the area.
24	Q	(By Mr. Aramburu) Is that about right?
25		JUDGE TOREM: The objection's



1		overruled.
2		You can answer, Ms. Guthrie.
3		THE WITNESS: Sure. Yeah. To my
4		recollection, I think that's that's a correct
5		characterization.
6	Q	(By Mr. Aramburu) And is this, topographically, is
7		this pretty flat area down in here
8	A	No. Not as I recall. The the residential
9		developments begin to kind of take on a more terraced
10		formation as they move to the south, up into that kind
11		of ridgeline.
12	Q	Right in here?
13	A	And to the northwest, as I recall.
14	Q	Okay.
15	A	The two begin to kind of merge together, if that makes
16		sense.
17	Q	Okay.
18	A	But as you get closer to the river, it does become
19		flatter, as I recall.
20	Q	Okay. Thank you.
21		Now, then continuing southwest, we get into the
22		area of the Horse Heaven Hills, do we not?
23	A	Correct.
24	Q	And is that topographically different from the areas to
25		the northeast?

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1	A	Not significantly different. You see more of the butte
2		formations, ridgelines, et cetera.
3	Q	Okay. And
4	A	In terms of landform.
5	Q	we see some of that on our on our map here over
6		in in this area, kind of in the left side of the
7		map?
8	A	Correct. Right. You get more more topography and
9		relief.
10	Q	Okay. And and so there's an elevation change here.
11		And then if we continue to go south we've had
12		some testimony about this we get into dryland
13		agriculture; is that right?
14	A	Yes.
15	Q	Okay. And this map shows the the drawings or the
16		locations of the turbines; is is that correct?
17	A	Yes. I believe that's correct.
18	Q	So I just wanted to we've got some a number of
19		visuals, stimula "stimulations" simulations
20		oh, boy that that are found here in the draft
21		EIS. And I just wanted to kind of go through and
22		and talk about some of these. This is
23		MS. SCHIMELPFENIG: Your Honor, I'm
24		going to object at this time. This is the SWCA DEIS
25		visual impact assessment, not the visual impact



Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 1 assessment completed by the applicant as part of the application. 2 3 JUDGE TOREM: What's the nature of 4 the objection? 5 MS. SCHIMELPFENIG: Relevance. JUDGE TOREM: Overruled on that 6 7 ground. I think it's highly relevant that Council's going to see this and already has in the draft EIS. 8 9 The fact that it's a SEPA-sponsored visual, I don't 10 think -- Mr. Aramburu can use it. If this is an 11 accurate one or not, he can ask her about it. We're 12 not getting into SEPA, I know, but these pictures are 13 out there, and if they're accurate enough to go in the 14 DEIS, they're accurate enough for cross-examination 15 today. 16 MS. SCHIMELPFENIG: Then I'd like 17 to --18 JUDGE TOREM: But Mr. Aramburu --19 MS. SCHIMELPFENIG: -- object on 20 lack of clarification. He has not clarified whether 21 the witness has had any role in preparing these 2.2 simulations. 23 JUDGE TOREM: It's entirely possible 24 she hasn't, but they're prepared by somebody with 25 enough credibility to put them in a DEIS. As long as



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1331
1		Mr. Aramburu doesn't ask about the SEPA process, I'm
2		going to continue to overrule those objections. He can
3		show these pictures and ask his questions.
4		MS. SCHIMELPFENIG: All right.
5		Thank you, Your Honor.
б		JUDGE TOREM: Mr. Aramburu, go
7		ahead.
8	Q	(By Mr. Aramburu) Okay. So there are 13
9		representative viewpoints, RVs, that are found in the
10		visual assessment in the DEIS.
11		Do you recall that?
12	A	Yes.
13	Q	And those same 13 representative viewpoints are the
14		ones that you've included in your work?
15	A	Same thing.
16	Q	Same thing? Okay.
17		Same same representative viewpoints, correct?
18	A	Correct.
19	Q	Okay. So so I'm trying to focus in here just on
20		what the the kind of the Horse Heaven Hills
21		looked like. And I don't want to use that one, because
22		that's the one that's got the turbines on it.
23		So now we're we're kind of over in the
24		southwest area here, and that does that accurately
25		depict the the Horse Heaven Hills in this photograph



1		that's taken from across the Columbia, north of Wallula
2		Gap?
3	A	Yes, from this viewpoint, I think that's accurate, yes.
4	Q	And in this view we have some wind turbines.
5		Do you know what those are?
6	A	If I'm not mistaken, I believe that's the Nine Canyon
7		wind project.
8	Q	Okay.
9	А	And then I see maybe some communication towers or what
10		have you.
11	Q	Okay. Okay. But then let's let's move along to
12		some other areas here.
13		So this is one exhibit, top exhibit, existing
14		condition. Second one, Option 1.
15		Same Option 1 that you're using in your work; is
16		that correct, Ms. Guthrie?
17	A	Yes.
18	Q	Okay. So
19	A	Although now I would point out that it's been
20		Option 1 has been modified per the recent memo.
21	Q	Okay. We'll get to that, Ms. Guthrie.
22		So we're just kind of looking at landforms here.
23		And, again, let's go down to the a couple of the
24		other landforms down to the south.
25		This is this is Viewpoint 3 looking southwest.



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 202	23

1		Does this indicate some of the landforms that are
2		found in the area, the hills in this area?
	_	
3	A	Yes, that's correct.
4	Q	And
5	A	This is
6	Q	And then
7	A	Cannon Beach, I believe.
8	Q	again yes.
9		And and then as we go farther south, then we
10		get into dryland wheat country, do we not?
11	A	Yes, I believe so.
12	Q	So just to kind of summarize and feel free to
13		disagree we have the area near the Columbia River
14		that has a residential-commercial development. We have
15		the Horse Heaven Hills that's kind of a second
16		topographic feature. And then beyond that is really
17		some flat country / bench country up on the top of the
18		Horse Heaven Hills, mainly in agriculture.
19		That was kind of a lot. If you disagree with any
20		of that, let me know.
21	A	I don't disagree. I would add, however, that the
22		features surrounding Badger Mountain to the east and
23		west are also fairly important in the context of my
24		testimony. So just some additional context I would
25		add.



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1334
1	Q	Okay. Good. Good.
2		And there's and we have some photos of that,
3		don't we, in here?
4	A	We do.
5	Q	Okay. Okay. So now we're down to PDF Page 64, and
6		we're looking at RV 5. And we go down here. We can
7		we can kind of hone in on where RV 5 is. And RV 5
8		is
9	A	Can I interrupt you at this point? Forgive me. This
10		image has been updated in the most recent application.
11		And I think it would be valuable to show that updated
12		view. And that would be in the revised application.
13		These photographs were reshot.
14	Q	I understand they may have been reshot, but and
15		you'll get a chance to talk about those on redirect
16		examination. So you'll get your chance on that.
17		So and but these these photographs have
18		"Tetra Tech" on them, don't they? These are
19	A	Yes.
20	Q	Tetra Tech materials?
21	A	Yes. If I'm not mistaken, I believe these were part of
22		the original application.
23	Q	Okay. Okay.
24		Now, so, again, now we're we're at Viewpoint 5,
25		taken from the residential areas below, looking back up



	verbu	rage 1555	
1		on the the Horse Heaven Hills. And so what we see	
2		are these typical views of the Horse Heaven Hills shown	
3		here?	
4	А	Yes.	
5	Q	Okay. And this same photograph appears in your work,	
6		does it not?	
7	A	It appeared in the original application that was then	
8		updated and revised.	
9	Q	Okay. Thank you.	
10		Okay. Now, there's some other viewpoints that we	
11		have here that are taken from the south to north. And	
12		there are several of those included in this analysis,	
13		in your analysis.	
14		However, there are very, very few people that	
15		actually see this this view, the No. 6 view,	
16		which which looks from the south to the north over	
17		the dryland wheat; is that right?	
18	А	There are there would be fewer viewers. That's	
19		correct. Although, you know, we have viewpoints, for	
20		example, from I-82, which would would be a high	
21		number of viewers.	
22		But, yes, in general, the views from the south	
23		would have fewer a fewer number of viewers. But the	
24		project would be	
25	Q	So	



e south would be of ncil than the ones nces to the south	
ncil than the ones	
nces to the south	
nod And the	
red. And the	
y closer distances,	
st as worthy of	
Okay. Well, let's get down here at No. 6, looking	
looking north.	
Say two-mile radius of where this is taken. How	
•	
d seen where	
d seen where	
d seen where yeah, the	
1	



1	Q	Okay.		
2	A	And we're also characterizing views from typical		
3		drivers, et cetera. So the residences aren't the only		
4		views that we're considering.		
5	Q	Okay. So over here on PDF Page 67 now, and we're		
6		looking at that view. Has some power lines in the		
7		in the foreground.		
8		Is this a more or less typical view of the Horse		
9		Heaven Hills from north to south?		
10	А	Can I have you zoom out a bit, please?		
11	Q	Oh, certainly. You tell me. I'm getting kind of good		
12		at this, so if you need a different view of this, I'm		
13		more than happy to provide it, Ms. Guthrie.		
14	A	If I can have you scale them to 100 percent. That's		
15		how they're intended to be viewed.		
16	Q	I understand that. I'm using them for a different		
17		purpose, though.		
18		So, 8A, the PDF Page 67 of the document, is taken		
19		from where?		
20	A	I believe that is in the vicinity of a Canyon Lakes, if		
21		I'm not mistaken, at the edge of a residential		
22		development.		
23	Q	Okay. So		
24	А	On the leading edge.		
25	Q	And so I'm I want to kind of expand in on the		



		e Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1338		
1		photograph here, which is 8A, just to kind of look at		
2	the characterization. And these are the Horse Heaven			
3	Hills over here? And I've expanded the the			
4	photograph.			
5	Are these Horse Heaven Hills over here?			
6	A	Yes.		
7	Q	Now, let me go down to another drawing here.		
8		And let's look at PDF Page 69. This is RV 9.		
9		This is from Benton City?		
10	A	Yes.		
11	Q	And, again, I'm expanding your photograph, and I know		
12		you may have some concerns about that.		
13		But I'm just kind of looking at the general		
14		landforms here.		
15		Is the landform we see in this expanded photograph		
16		here a good representation of the geomorphology of the		
17		Horse Heaven Hills?		
18	A	Yes, from from this distance for sure.		
19	Q	Okay. And it's 25 miles long, so it changes a bit,		
20		correct?		
21	A	Sorry. What is 25 miles long?		
22	Q	The project is 25 miles long, is it not?		
23	A	Yes. Just clarifying.		
24	Q	Okay. Okay. So so I just want to look at this		
25		this this photograph and ask you a question.		



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

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1		So often in the Northwest let me revise the	
2	question.		
3		What are the views like from the ridgelines up	
4		here on the top of Horse Heaven Hills?	
5	А	Looking to the north, then?	
6	Q	Yes.	
7	А	Is that the question?	
8	Q	Yes.	
9	А	Sure.	
10		So from what I recall when I was there on-site	
11		doing my fieldwork, you are overlooking kind of a	
12		valley formation below, with the the Tri-Cities	
13		developed areas and then the confluence of the river	
14		kind of flows through in the in the background.	
15	Q	So at this location, what's the difference? What's the	
16		elevation gain we're seeing from the from this	
17		location up at the top?	
18	A	I sure don't know that off the top of my head. I	
19		believe the top of Badger Mountain is approximately	
20		1500 feet. But I I don't know the elevation of	
21		the the top of the butte in the image that you're	
22		showing right now.	
23	Q	Okay. And as I don't want to go and go back and go	
24		through each one of these, these photographs.	
25		But but it is my observation that the ridgeline	



Page	1340
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1		of of the Horse Heaven Hills does not contain a lot
2		of development.
3		Is that correct?
4	А	It does contain some development. There are, as we
5		saw, communication towers. In some cases there's
6		residential development. In in some places. But
7		predominantly it's agriculture use, and some portions
8		are recreation areas.
9	Q	Okay. But but in the state of Washington, where
10		there's a nice view available, people like to go up to
11		the ridgelines and build a big house and look over
12		the the views.
13		Is that your experience?
14	А	I can think of examples of that in the area.
15	Q	Well, my question is this. We don't have that kind of
16		perched residential development on the ridgeline of the
17		Horse Heaven Hills; is that correct?
18	A	On the Horse Heaven Hills, there is some development.
19		And on the adjacent buttes to the north, there is
20		certainly residential development.
21	Q	Can you name one place where you can see a residence
22		from the valley looking up on the Horse Heaven Hills?
23	A	Not off the top of my head, no.
24	Q	Okay. There's some communications towers, some power
25		lines up there; is that right?



1 Α Yes. But generally no signs of civilization, correct? 2 Ο 3 MS. SCHIMELPFENIG: Objection, Your 4 Honor. Vaque. 5 JUDGE TOREM: Sure. Mr. Aramburu, "signs of civilization." Could you give us a 6 definition. 7 (By Mr. Aramburu) Okay. You've said there's some 8 0 9 power lines and some things like that. But -- but are 10 there any other sort of signs of civilization? That is, destruction of the natural landscape that might 11 12 take place. 13 I'm going to say that for all of the viewpoints that we Α 14 identified and used for our study, there are signs of 15 development in -- in all of them. So it's just a part 16 of the character of the area that it's -- it's developed and developing. 17 18 None of the farmhouses are perched up on the ridgeline, 0 19 are they? 20 I don't recall any on the -- on the ridgeline Α 21 especially to the north. 22 As you move -- excuse me -- farther east, there 23 does become development on some of the ridgelines, yes. 24 Okay. But in the particular section here near Benton 0 25 City there, that's natural character, is it not?



area? There's not development on the Horse Heaven Hills currently. But obviously we're viewing it from a developed area, and that is part of the view. So, again, if you could zoom out to, say, 100 percent as the simulations are intended to be viewed, then we can see the full context taking this example. Okay. The character of this view is developed. And it has the landforms as the backdrop. I understand. But I'm talking to you about the -- about the backdrop landform. And that is not a developed area, is it? No, it doesn't appear to be, in the -- in this image. Okay. Okay. We're moving down the way a little bit, and over here at the lower part of the photograph, we have a Viewpoint 10. Do you see that? Yes. Okay. And that's taken looking more or less southwest to the ridgeline?

And would it be fair to call this an undeveloped

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Yes.

Okav.



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1343
1	Q	Okay. And I'm going to zoom in here. And, again, I
2		understand that you're taking things in context. But
3		I'm just really looking at the hills here.
4		So the Horse Heaven Hills. And this is Page 70 of
5		the of the PDF. And this is representative
6		viewpoint let's go down here and find it. And this
7		is this is this is No. 10, again looking
8		southwest. Okay.
9		So so this is another view of the area. And I
10		just want to and I understand it's taken from the
11		road, and I understand all that. But I want us to
12		focus on the Horse Heaven Hills, themselves. Okay?
13		Now, we're we've expanded this a bit. We've
14		looking at this hillside along here, going into a
15		backdrop over here further, Horse Heaven Hills all
16		along here.
17		Is that a fair characterization of the Horse
18		Heaven Hills?
19	А	Those are the Horse Heaven Hills. Correct.
20	Q	Okay. Now, in this photograph, I don't I don't see
21		any development up there.
22		Am I right about that?
23	А	In this particular view, I don't see development on the
24		ridgeline, no.
25	Q	Okay. Okay. I don't see a single house up here.



1		We got something over here. Do you know what that
2		is?
3	Α	I I don't off the top of my head. Could be a
4		communication tower, something like that.
5	Q	I was looking looking at this area here.
6	A	Yes.
7	Q	Okay. So we're seeing I don't know what, three,
8		four miles of the Horse Heaven Hills here? Okay.
9		What do you think, Ms. Guthrie? Three or four,
10		five miles in this photograph?
11	A	That's probably fair. Five is probably stretching it.
12	Q	Okay. Five miles.
13		Five miles with no development of any kind in the
14		Horse Heaven Hills, correct?
15	Α	Again, in the context of this photo, you do see
16		development in your foreground.
17	Q	I understand that. I understand that.
18		But but on the hills, themselves, there is not
19		development?
20	А	In this image, there's not development on the hilltop,
21		except for the tower that we saw to the left.
22	Q	Okay. And the Benton County Comprehensive Plan
23		actually intends to protect this kind of condition on
24		the Horse Heaven Hills, does it not?
25	A	It does intend. We include that language in the



1		application materials. In the in the VIA, I believe
2		it's listed. Yeah, there are aspirational goals for
3		the the ridgelines.
4	Q	Okay. And I'm I apologize, but I don't want to try
5		to get too fancy about bouncing around between
б		between documents.
7		The updated ASC, at Page 4-59, does set out the
8		comprehensive plan goals, does it not?
9	A	Can I have you bring that up on screen, please, then?
10		MR. ARAMBURU: Can I get some help
11		from staff on this? I did not bring this up, 'cause
12		I'm just trying to not spend too much time screwing
13		around with screen sharing here.
14	Q	(By Mr. Aramburu) I can read it to you. I think you
15		have it in front of you, don't you?
16		Don't you have the ASC in front of you?
17		Ms. Guthrie?
18	A	I can try to bring it up on this side here.
19		Can you repeat the page number, please?
20	Q	4-59.
21	A	Where are the page numbers on here?
22		MS. SCHIMELPFENIG: Mr. Aramburu, if
23		you can also work on trying to pull it up. We're
24		trying to get it on our end, but I think it would be
25		helpful for us all to be looking at the making sure



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023Page 1346
we're looking at the same thing. And I know that
that's a hassle, but, you know, I just I think it'll
be helpful for us on our end so we don't have to figure
out where we're at.
MR. ARAMBURU: Okay. I'm trying
JUDGE TOREM: And, Council members,
just want to let you know Ms. Masengale was looking for
it, but it's not readily available with the documents
she had prepped for today, so we're going to rely on
the parties that want to talk about it.
MS. COHOE: It'd be
MR. ARAMBURU: No. It's it's in
the ASC.
MS. COHOE: The updated one, or the
red-liner?
MR. ARAMBURU: Okay. I think I've
done it.
MS. COHOE: Wait. Do you want
Page 490?
MR. ARAMBURU: Okay. Can everybody
see this?
(Background dialogue.)
MR. ARAMBURU: Can you see this?
MS. COHOE: Share.



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1347
1		MR. ARAMBURU: Oh, share. Oh. Oh.
2		MS. SCHIMELPFENIG: Not at this
3		time, no.
4		MS. COHOE: And this screen.
5		MR. ARAMBURU: Okay. Now.
6		THE WITNESS: Thank you so much,
7		Mr. Aramburu.
8		MR. ARAMBURU: I'm going to get
9		better at this.
10	Q	(By Mr. Aramburu) Okay. So we have up on the screen
11		the updated application for site certification, do we
12		not?
13	А	Yes.
14	Q	Okay. And you're responsible for Section 4.2.3,
15		"Aesthetics," beginning on Page 4-40; is that right?
16	А	Yes.
17	Q	Okay. Now, let's go down here. See if I can find
18		4
19		Okay. Now we're at the place. So I'm referring
20		you to, Ms. Guthrie, to Page 4-59 of the amended site
21		certification application. And I my question to you
22		was was whether or not Benton County has has
23		policies to protect these these ridgelines that
24		we've just been looking at. And and I was referring
25		you particularly here to this page.



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

r		
1		And does this correctly set forth the the goals
2		of Benton County?
3	A	Yes. As they were at the time of the writing of this
4		document.
5	Q	Okay. And PL Goal 3 has been to conserve visually
6		prominent naturally vegetated steep slopes and elevated
7		ridges that define the Columbia Basin landscape and are
8		uniquely a product of the Ice Age floods.
9		Would you say that that applies to the ridgelines
10		of the Horse Heaven Hills that we've just been looking
11		at?
12	Α	I'm aware that BLM has protected lands on the Horse
13		Heaven Hills, and the other areas are predominantly
14		privately held.
15	Q	Well, that wasn't the question. The question was:
16		Does this goal, PL Goal 3, to conserve visually
17		prominent naturally vegetated steep slopes and elevated
18		ridges, would that apply to the Horse Heaven Hills?
19	A	This is the goal as it was stated when this document
20		was prepared, yes.
21	Q	My question is: Would you consider that Goal No. 3
22		applies to the Horse Heaven Hills that we have just
23		been looking at?
24	Α	In addition to other other similar landforms and
25		ridges, yes.



1	Q	Okay. And what are those other landforms and ridges?
2	A	I would say, for example, Badger Mountain was conserved
3		and is a public recreation area, for example.
4	Q	Any others?
5	A	I believe Goose Hill to the west and north of Badger
6		Mountain would qualify.
7		There's also a ridgeline to the east of Badger
8		Mountain, but I don't know that it has a name.
9	Q	Okay. Any others?
10	Α	No. I can't think of any others.
11	Q	Those those are isolated elements, are they not?
12	A	I wouldn't characterize them as isolated. They're, you
13		know, part of a string, if you will, of landforms
14		within the area.
15	Q	Okay. So in our looking at what the Horse Heaven
16		Hills presents at this time, would you say the County's
17		been pretty successful in conserving the visually
18		prominent naturally vegetated steep slopes and elevated
19		ridges along the Horse Heaven Hills?
20	A	I would say yes.
21	Q	Okay. Okay. Good.
22		I want to talk a little bit about the project,
23		itself. And I'm going to go back to the let's go
24		back to the DEIS now.
25		Okay. So we're now looking at PDF Page 53 of the



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1350
1		DEIS visual assessment.
2		Is this a fair representation of the project?
3	A	Yes. This shows the Option 1 turbine layout.
4	Q	Okay.
5	A	And acknowledging that that's since been revised per
6		the, I guess what's been called the Moon memo. So this
7		has been updated and revised.
8	Q	Okay. Okay. Understood.
9		Now, just so we get some kind of a context here,
10		from the I'm going to call it the northwest corner
11		of the project over here just not too far from Benton
12		City, over here to the far eastern point, approximately
13		how many miles is that?
14	A	I think it's in the neighborhood of 25 miles.
15	Q	Okay. And and I'm going to call it the depth of
16		the of the project. Let's say this area through
17		here.
18		How many miles is that?
19	A	I couldn't say specifically. Maybe two miles, three
20		miles.
21	Q	Okay. Okay. Well, and we've got a scale here, so we
22		can use the scale if we need to figure it out more
23		precisely, correct?
24	A	Yes.
25	Q	Okay. And there's been discussion of the Nine Canyon
	1	



	project.
	Are you familiar with Nine Canyon?
А	I'm familiar with Nine Canyon, yes.
Q	Okay. Is Nine Canyon shown on this on this on
	this map? This is Figure 9, representative viewpoint
	locations, PDF Page 53.
A	Correct. As I'm reading the legend, the existing
	turbines represent Nine Canyon in the so the yellow.
Q	So these are the the Nine Canyon turbines, correct?
A	I believe that's right.
Q	Okay. If you're up here in Benton City, can you see
	the Nine Canyon turbines?
A	I don't know for sure.
Q	Okay. Okay. So what other wind projects have you
	worked on that are 25 miles long?
A	I'm currently working on a number of related wind
	projects in the state of Washington in Garfield and
	Columbia Counties. Taken together, they're over 25
	miles long.
Q	Is that the lower Snake River project?
A	Yes, sir.
Q	Okay. And Garfield and Columbia Counties, that's
	that's sort of due east, slightly north of here?
A	Yeah, I think that's right.
1	
	Q A Q A Q A Q A Q A



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	3

		tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1352
1		lower Snake River project that see the project?
2	Α	There are developed communities there, yes.
3	Q	Okay. Dayton being the closest?
4	Α	And other cities, Pomeroy, et cetera.
5	Q	Pata I'm sorry. What was the last last one?
6	A	Sorry. Pomeroy.
7	Q	Dayton and Pomeroy, correct?
8	A	Mm-hmm.
9	Q	I thought you mentioned a third one. I'm sorry.
10	A	No, sir.
11	Q	Okay. If I'm standing on Highway 12 going out of
12		Dayton, can I see the lower Snake River project?
13	A	Sir, we're just beginning our investigation, so I can't
14		answer those questions here.
15	Q	Okay. But you've been along Highway 12 in Dayton,
16		correct?
17	А	Yes.
18	Q	Okay. Okay. So let's go to Pomeroy, then.
19		If you're standing on the main street in the west
20		side of Pomeroy, Washington, and you are looking west,
21		can you see any lower Snake River turbines?
22	Α	I don't recall.
23	Q	In fact, are lower Snake River turbines visible from
24		Highway 12?
25	Α	Yes, I believe they are.



1	Q	How many?
2	А	I couldn't say.
3	Q	Okay. How many farmhouses would view the lower Snake
4		River project?
5	Α	What's the question?
6	Q	How many farmhouses would be impacted by their views
7		impacted by the lower so lower Snake River project,
8		I think, correct?
9	А	I don't know.
10	Q	Not very many, correct?
11	A	That's probably fair, though I don't know.
12	Q	Okay. Okay. So you're working on the lower Snake
13		River project for PSE, as I understand it; is that
14		right?
15	A	Yes.
16	Q	Okay. Any other 25-mile-long wind turbine projects?
17	A	I'm working on a number of offshore wind projects on
18		the East Coast, and obviously those study areas are
19		are very large as well.
20	Q	Let's limit ourselves here to to on-shore projects,
21		if we may.
22		Do you are you working currently on any other
23		25-mile-long wind turbine projects?
1		
24	A	No.



	have 244 turbines?
A	No.
Q	Okay. What's the biggest one you're working on right
	now?
A	Limiting ourselves to on shore?
Q	Yes, please.
A	I would say the biggest is probably Summit Ridge in the
	state of Oregon.
Q	Okay. How big is that?
A	I beg your pardon?
Q	I said, how big is that? Meaning, how many turbines?
A	I believe 40.
Q	Okay. And are you working on I notice, again,
	looking at the representative viewpoints in the aerial
	photograph, it looks in certain locations there are
	five, four there's lines of turbines, one after the
	other.
	Do you see that?
A	Yes.
Q	I'm looking in the location. It looks like five
	turbine lines, one after the other; is that right?
A	Yes.
Q	Are you working on any other projects where we have
	these turbine lines that are in such close proximity to
	each other?
	Q A Q A Q A Q A Q A Q A

1	A	Again, certainly with offshore wind projects, that's
2		very characteristic. On-shore, the current projects
3		that I'm working on have different configurations.
4	Q	Okay. And I'm not asking you questions about offshore
5		projects now.
6		But are you working with anyone, any projects that
7		are five turbine rows thick?
8	A	No.
9	Q	Okay. Okay. So this is a pretty unusual project.
10		Is that would that be fair to say?
11	Α	We evaluated the project as as it was presented to
12		us.
13	Q	But I understand that.
14		But this is a pretty unusually large wind turbine
15		project, is it not? And feel free to disagree with me.
16	Α	It is a large project, yes.
17	Q	Okay. Now, this project can be seen by a lot of
18		people, can it not?
19	Α	Yes.
20	Q	Okay. And okay. And, again, I'm looking at your
21		materials here.
22		Do you recognize this page, which is Page 4-45 of
23		the amended site certification application?
24	A	We're looking at the the red-line application?
25	Q	We are



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1356 Okay. Yes. Okay. Yes. 1 Α So -- so the red-line application was -- was 2 0 3 prepared -- the original application was prepared when? 4 Oh, let's see. I believe the original application was Α 5 2021. Okay. And when did you come to work on the project? 6 0 In October of 2021. 7 Α So you -- so you didn't write this material, did you? 8 0 9 I did not, no, sir. Α 10 Who wrote it? 0 Other staff with my company. 11 Α Okay. Do you happen to know who wrote it? 12 0 13 I believe there were different parties. Again, it was Α written before I joined my company. But I believe 14 15 the -- one of the primary authors was Shaun Brooks. She's a land-use planner. 16 Is he a visual impact expert? 17 Q She has visual impact --18 Α 19 I'm sorry. Q 20 -- experience, yes. Α Does Ms. Brook [sic] -- pardon me -- have your kind of 21 Q credentials in visual analysis? 2.2 23 No, not -- not equivalent backgrounds, no. Α 24 Okay. Okay. Okay. So this is February 2021 material. 0 25 And it says, Turbine visibility would potentially --

Horse Heaven Wind Farm



Horse Heaven Wind Farm
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1		turbine under Turbine Layout 1, would potentially be
2		visible from certain places.
3		Turbine Layout 1 is the 244 version of the
4		project, correct?
5	А	That's correct.
6	Q	Okay. And okay. So would be visible from
7		approximately 86 percent of the area within five miles
8		and 81 percent of the area within ten miles of the
9		project.
10		Would that be correct?
11	A	That's obviously what the text indicates. These
12		figures are based on the viewshed analysis that was run
13		that only considers bare earth; that is, topography.
14		So it's not considering vegetation, structures, things
15		like that, that will obviously dramatically affect how
16		the project is viewed, especially from developed areas.
17		So that is correct in terms of what viewshed was
18		analyzed, so that's a highly conservative figure. But
19		I think we want to keep that context in mind of what it
20		accounted for and what it doesn't.
21	Q	Okay. So as I understand it, if somebody's sitting
22		on on their back porch in the hot summer weather in
23		a certain location, they probably can't see the Horse
24		Heaven Hills; is that right?
25	A	No, I'm sure there are locations where folks can see



		Heaven Wind Farmtim Record of Proceedings, Adjudicative Hearing- August 24, 2023Page 1358
1		the Horse Heaven Hills from a deck or what have you.
2	Q	What you're saying is there may be some things in the
3		way of views of individual persons up to the Horse
4		Heaven Hills, correct?
5	A	That's correct.
6	Q	Okay. But but the landscape, the bare ground, the
7		area, 86 percent of people of the area within five
8		miles can see the turbines. 81 percent within ten
9		miles.
10		Is that right?
11	A	That's what the analysis found, yes.
12	Q	Okay.
13	Α	Again, just studying bare earth.
14		And now we know that would even be reduced with
15		the turbine reduction.
16	Q	The Moon memo, correct?
17	A	That's correct.
18	Q	Okay. Going over to Page 2-46. Again, material
19		written before you got involved.
20		Transmission lines would be visible from 52
21		percent of the area within ten miles of the project; is
22		that right?
23	Α	That's what the analysis found. Again, all of the
24		viewsheds were only considering bare earth. But, yes,
25		this is what the analysis found.

	verbu	um Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1359
1	Q	Okay.
2		JUDGE TOREM: Mr. Aramburu.
3	Q	(By Mr. Aramburu) So in this
4		MR. ARAMBURU: Yeah.
5		JUDGE TOREM: We've been going for
6		quite a while, a little bit longer than you had
7		anticipated.
8		Do you know how much longer you're asking the
9		Council to listen to your cross?
10		MR. ARAMBURU: Probably another half
11		an hour.
12		JUDGE TOREM: Can we make it a
13		little more snappy? Because otherwise, we're going to
14		run over today. So I'll let you go for a little bit
15		longer, but let's get to the heart of what you're
16		trying to get to as opposed to reading parts of the
17		updated application for site certification. She can
18		agree to what's in there. I think she sponsored this
19		entire portion at some level, so she agrees with it.
20		MR. ARAMBURU: Okay.
21	Q	(By Mr. Aramburu) So when you when you started your
22		work on the new visual analysis, what community
23		outreach did you conduct?
24	A	I wasn't involved in community outreach for the
25		project, but I'm aware that it had occurred and had



		tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1360
1		been occurring for a number of years.
2	Q	Okay. But specifically the visual impacts to be
3		anticipated from the project, what community outreach
4		are you aware of with regard to the project?
5	A	Yeah, I'm aware of specific community outreach by the
6		applicant directly with Yakama Nation and with
7		obviously the the public comments that came in from
8		the draft or on the draft application. We responded to
9		comments from EFSEC, and that that process resulted
10		in some of the additional viewpoints that we
11		investigated.
12	Q	That wasn't my question.
13		My question is: What community outreach was
14		undertaken to inform the community of the the visual
15		impacts of the project?
16	А	I don't know specifically other than what I just
17		mentioned that I was aware of.
18	Q	Okay. Okay. Fair enough.
19		Are you aware that a substantial number of
20		community leaders in the Tri-Cities have come out in
21		opposition to the project?
22		MS. SCHIMELPFENIG: Objection, Your
23		Honor. Vague. "Substantial number of community
24		leaders" doesn't give us any indication of who is for
25		or against this project. And it's, frankly,



argumentative. 1 2 JUDGE TOREM: Ms. Schimelpfeniq, I 3 think based on the public comment hearing last night 4 and a variety of other witnesses that have been 5 proposed by TCC, it's pretty much an obvious answer. Ι think she can answer. 6 THE WITNESS: I'm aware that the 7 project has opposition, yes. 8 9 (By Mr. Aramburu) Okay. And from -- from the 0 10 Realtors, from city of Richland, the city of Kennewick, 11 the regional chamber of commerce, the tourist bureau, 12 the economic development Council, the mayor of Benton 13 City. 14 Are you aware of those? 15 Α I wasn't aware of the full list, no, sir. Okay. And who are you aware of in a community 16 0 17 organization sense that supports the project? 18 That supports the project? Α 19 Yes. 0 20 I don't know, sir. Α 21 Okay. 0 2.2 Okay. We've talked a little bit about the Moon 23 memo. 24 Do you recognize what I've put up on the screen? 25 Α I do.



1	Q	And would you identify this as a map from the Moon
2		memo?
3	A	Yes.
4	Q	Did you participate in the drafting of this overview
5		map, Turbine Layout Option 1?
6	Α	Repeat the question, please.
7	Q	I'm going to lay a foundation here that everyone's fond
8		of.
9		Did you have any participation in the drafting of
10		this map, and in particular, the removal of certain
11		turbines?
12	Α	Not directly, no.
13	Q	Not directly?
14		Did you provide opinions concerning which turbines
15		should be removed?
16	Α	I did not.
17	Q	Who made the decision to remove the turbines?
18	Α	I don't know the answer to that specifically. I assume
19		that it came from the applicant.
20	Q	Okay. And have you would it be your opinion that
21		the turbines that are removed significantly mitigate or
22		avoid impacts of the project?
23	Α	Can you ask that question one more time for me, please?
24	Q	The turbine layout here has removed a certain number of
25		turbines; is that correct?



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1363
1	A	That's correct. 13 turbines.
2	Q	Okay. And is it is it your opinion that the removal
3		of the 13 turbines significantly avoids or mitigates
4		the visual impact of the project?
5	A	No.
6	Q	Okay. Now
7	A	It would reduce impacts to certain residents there
8		specifically at the the four turbines to the
9		northwest. I think it's, like, 5 through 5 through
10		8.
11		There at No. 3, for example, that would reduce
12		impacts to the residents there immediately adjacent.
13	Q	Okay. And other than this, have you presented any
14		proposals or worked on any proposals that would involve
15		mitigation of visual impacts?
16	A	I'm aware of opportunities that the applicant is
17		pursuing and exploring to reduce impacts, including
18		visual, but those are decisions that are coming from
19		the applicant.
20	Q	Okay. But have you recommended to the applicant that
21		certain steps be made to avoid or mitigate visual
22		impacts of this project?
23	A	No.
24	Q	And have you prepared new simulations or photographs
25		that would indicate the impact of removing these



1		turbines?
2	A	Have we prepared simulations?
3	Q	Yes.
4	A	No.
5		JUDGE TOREM: Mr. Aramburu, as you
6		move the map, I think there's a couple pages, depending
7		on which version you're using, that might be redacted,
8		so let's be careful not to stray into those
9		confidential maps.
10		MR. ARAMBURU: I'm using the
11		redacted version, Your Honor.
12		JUDGE TOREM: All right. Thanks for
13		the clarification.
14	Q	(By Mr. Aramburu) Have you reviewed the conclusions of
15		impacts of the turbines that were done by that are
16		done in the environmental impact statement?
17	A	In the EIS.
18	Q	Yeah.
19	A	Yes.
20	Q	You have.
21	А	Yes.
22	Q	Do you agree with them?
23	А	Is there a specific conclusion that you would like me
24		to focus on?
25	Q	Well, just in general, you reviewed them.



1		Do you have any specific objections to the
2		analysis that was done in the draft environmental
3		impact statement?
4	A	As I recall, the findings are largely similar to what's
5		presented in the application.
6	Q	Okay. Well, so we're now looking at the Appendix D
7		10-2 of the environmental impact statement. And
8		this the material on these pages provides an
9		assessment, key observation point, viewpoint impact
10		table, Turbine Option 1.
11		Do you see that?
12	A	Yes.
13		MS. SCHIMELPFENIG: Your Honor
14		MR. ARAMBURU: Okay.
15		MS. SCHIMELPFENIG: I think we're
16		starting to kind of stray into the SEPA process and the
17		validity of the DEIS and its analysis. I know that
18		that's not really relevant to these proceedings, which
19		are about the application and the applicant's visual
20		impact assessment. I was fine with using the photo
21		simulations, but I'd like to object here on relevance
22		grounds.
23		JUDGE TOREM: Mr. Aramburu
24		MR. ARAMBURU: Well
25		JUDGE TOREM: any response?



	MR. ARAMBURU: Well, I'm asking the
	witness about a comparison between the work she did and
	the work that was done in the impact statement. That
	does not get into the SEPA process. The document is
	open and available in these proceedings. And I
	don't don't want to extend things out too far, but I
	do have a couple of questions about this.
	JUDGE TOREM: You can ask them. At
	10:20, I'm cutting you off so we can get to the Yakama
	Nation. Thank you.
	MR. ARAMBURU: Okay.
Q	(By Mr. Aramburu) So looking at the at the analysis
	of the viewpoints here, do you have any specific
	disagreements with with what the DEIS said about the
	impacts?
A	Can I ask you to be more specific about a particular
	impact? I feel like this is
Q	Sure.
A	too broad.
Q	Might take a couple minutes here. But, for example,
	let's take let's take No excuse me No. 2,
	South Clodfelter Road. Okay?
A	Okay.
Q	And three miles away, visual contrast strong, magnitude
	of impact high.
	A Q A Q A

253.627.6401

1 2 Do you see that?

A I see that.

3 Q Okay. And then there's text. Impact description is 4 provided for that. And I'm going to run out of time 5 here.

б But it says turbines would dominate views from 7 this location. Large percentage of the viewshed would include moving turbines. Views of the project would be 8 9 unobstructed. Views towards the east would include the 10 Nine Canyon project but only a narrow portion of the landscape. The series of proposed skylined wind 11 turbines would be highly prominent in the view, 12 13 resulting in high long-term impacts on view, 14 particularly where views of multiple wind turbines 15 would overlap and appear larger in mass.

16

Do you agree with that?

17 A Yes, I think that's fair.

18 Q Okay. Okay. I'm not going to -- because -- because 19 I'm restricted in time, I'm -- I'm not going to go 20 through the rest of them, but there are similar 21 statements in -- in that -- in that material as well.

22 A And I would also say that we found impacts in the23 application also.

Q I -- well, again, I'm short of time here. My observation is that your analysis of the impacts and

Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1368 viewpoints differ from this, from mine; is that 1 2 correct? 3 I don't think there were big variations, no. Α Okay. Okay. Well, we don't have time to -- to get --4 0 5 get into that. б Have you looked at the option of -- for avoidance or mitigation mechanism to avoid the impacts of wind 7 turbines by providing for more solar development on the 8 project? 9 10 No, I'm not aware of that. Α 11 MR. ARAMBURU: Okay. Well, Judge 12 Torem, I'm going to be cognizant of your -- your 13 limitations, and I'll stop now. I have more questions, 14 but I will stop now. 15 JUDGE TOREM: All right. Thank you, 16 Mr. Aramburu. I appreciate it. 17 Let's shift over, Ms. Voelckers, to your questions for this witness after we take a little bit of a break. 18 19 So we'll come back at 10:25 and, with that, 20 Ms. Voelckers' questions. (Pause in proceedings from 21 2.2 10:18 a.m. to 10:25 a.m.) 23 24 JUDGE TOREM: All right. We're back 25 on the record, ready to go forward with the Yakama



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1369
1		Nation's questions for Ms. Guthrie.
2		Ms. Voelckers, go right ahead.
3		MS. VOELCKERS: Thank you, Your
4		Honor.
5		
6		CROSS-EXAMINATION
7		BY MS. VOELCKERS:
8	Q	And good morning, Ms. Guthrie.
9	A	Good morning.
10	Q	My name is Shona Voelckers, and I represent the Yakama
11		Nation in these proceedings.
12		I just have a few questions for you this morning
13		about the scope of your testimony and what you are
14		sponsoring to the Council.
15		Are you aware that the project's viewshed impacts
16		will be devastating to multiple legendary and
17		monumental sites of cultural importance to the Yakima
18		people?
19	A	I'm not aware of that. And I can speak to the the
20		visual assessment, but I'm not an expert on cultural.
21	Q	And your testimony in this proceeding does not account
22		at all for those viewshed impacts to cultural
23		properties of the Yakama Nation, correct?
24	A	No, again, not to cultural impacts.
25	Q	Okay. And to be clear, that includes a portion of the



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	5

Page	1370
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1		application, itself, that you are sponsoring on visual		
2		resources and effects, correct?		
3	A	A Yes. To the extent that we studied effects to views		
4		and viewsheds, yes.		
5	Q	Yes, that doesn't include any study of those effects to		
б		cultural properties that might be impacted by viewshed		
7	effects, correct?			
8	А	We studied impacts to views, but I can't speak to		
9		cultural impacts.		
10		MS. VOELCKERS: Okay. Those are my		
11		questions this morning. Thank you for your time.		
12		JUDGE TOREM: And, Ms. Voelckers,		
13		thank you for the concise questions.		
14		Let me see if Ms. Schimelpfenig has anything she		
15		wants to go over with the witness before checking with		
16		Council on their questions.		
17		Ms. Schimelpfenig, any limited redirect?		
18		MS. SCHIMELPFENIG: Yes. Can I just		
19		have one moment? I didn't realize you were going to		
20		cycle back around so quickly.		
21		JUDGE TOREM: I'll tell you what		
22		MS. SCHIMELPFENIG: I just need,		
23		like, one minute to confer with counsel.		
24		JUDGE TOREM: Yes. Let's go ahead		
25		and take that. We'll just pause.		



1		(Pause in proceedings from
2		10:27 a.m. to 10:29 a.m.)
3		
4		MS. SCHIMELPFENIG: Thank you, Your
5		Honor. We're ready whenever the Council is.
6		JUDGE TOREM: All right. Why don't
7		you proceed with yours. And then I'll ask Council
8		members just to get ready by putting up their
9		electronic hands if they are going to have any
10		questions.
11		MS. VOELCKERS: And, Your Honor, if
12		I may before okay. We're having the same issue
13		seeing Ms. Schimelpfenig, but I see her now, so I
14		appreciate being able to see everyone at the same time.
15		Thank you.
16		MS. SCHIMELPFENIG: Sorry. We're
17		sharing a computer screen. So thanks.
18		
19		REDIRECT EXAMINATION
20		BY MS. SCHIMELPFENIG:
21	Q	Okay. The first question I want to ask relates to a
22		question from Mr. Aramburu about the role you played in
23		the development of the application.
24		You reviewed the assessment completed by
25		Ms. Brooks, correct?



1	A	I reviewed it. It had already been completed. That's		
2		correct.		
3	Q	And what was your opinion about that assessment?		
4	A	It was a robust and objective assessment based on the		
5		BLM guidelines.		
6	Q	And this came up numerous times in, you know, as we		
7		were working through the visual simulations.		
8		What is the appropriate way to view those		
9		simulations?		
10	A	The viewing guidelines are shown on the simulations,		
11		and they should be viewed at 100 percent, is how		
12		they're intended to be viewed.		
13	Q	And how does zooming in distort them?		
14	A	It can sometimes depending on, you know, technology		
15		and how they're being viewed, it can create distortion		
16		or reduce clarity.		
17	Q	And you mentioned that there are updated visuals.		
18		Where are those located?		
19	A	Yes. We prepared additional simulations from		
20		viewpoints that were requested as part of the the		
21		data request process. I believe everything that we've		
22		prepared was submitted to EFSEC in June of this year.		
23	Q	And there were updated photo simulations prepared for		
24		the updated application, right?		
25	A	For the red-line version of the application. Correct.		



There were reshoots and additional KOPs photographed, 1 2 studied, et cetera. Sorry. "KOP" is a key observation point. 3 Yes. Thank you. 4 Q 5 Α So the -- the representative -- the representative viewpoints. Forgive me. Some -- some terminology. 6 7 MS. SCHIMELPFENIG: Okay. No further questions at this time, Your Honor. 8 9 JUDGE TOREM: All right. I see that 10 Sarah Reyneveld had a question as counsel for the environment, and then we'll come to Eli Levitt. 11 12 MS. REYNEVELD: Thank you, Your 13 I just have a few questions just in regards to Honor. 14 the turbine lighting. 15 16 **RECROSS-EXAMINATION** 17 BY MS. REYNEVELD: So good morning, Ms. Guthrie. My name is Sarah 18 0 19 Reyneveld, and I am an assistant attorney general in 20 the --21 COUNCIL MEMBER LEVITT: Sorry, 2.2 Sarah. I'm unable to hear you. 23 THE WITNESS: I hear you, Sarah. 24 MS. REYNEVELD: Can you hear me now, 25 Eli? Hello?



Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1374 JUDGE TOREM: Mr. Levitt, I'm not 1 2 sure if the sound issue's on your end. Were you saying 3 you couldn't hear Ms. Reyneveld? 4 COUNCIL MEMBER LEVITT: Yes, that's 5 correct. Maybe I'll try switching to my cell phone or leaving and coming back. 6 MS. REYNEVELD: Okay. I apologize. 7 8 (By Ms. Reyneveld) I am -- just to continue, I'm 0 9 counsel for the environment in this matter. And 10 counsel for the environment is assigned to represent 11 the public in its interest in protecting the 12 environment. 13 I just have a few questions for you in regards to 14 the turbine lighting. 15 So is it correct to say that you analyzed visual 16 or aesthetic impacts of turbine lighting? 17 I'm aware of what's presented in the application, yes, Α and I reviewed it. 18 Okay. And is it correct to say that there will only be 19 0 20 exterior lighting on the turbines that's kind of either 21 aviation warning lighting or that is either on the 2.2 exterior or potentially kind of mid-tower lighting, depending on the size of the turbines? 23 24 That aligns with my understanding, yes. Depending on Α 25 the size of the turbines, yes.



Horse Heaven Wind Farm
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

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1	Q	Okay. And that was my question, or one of my
2		questions, is: Do you know how that will vary
3		depending on the size of the turbines?
4		Like, what additional lighting will be necessary
5		if there's a larger turbine?
6	А	This is outside my area of expertise. I believe that
7		the taller there's a threshold that escapes me at
8		the moment, but above which the mid-tower lighting
9		becomes required by the FAA.
10	Q	Okay. And this lighting that we've been discussing, is
11		that lighting that's required by the Federal Aviation
12		Administration?
13	А	Yes, that's correct.
14	Q	And you had some questions earlier and were discussing
15		just kind of the visual impacts potentially to
16		residents.
17		Do you know whether these lights will be visible
18		to residents and up to how many miles?
19	A	Yes. The lights would be visible from some residents
20		as kind of depicted in some of the simulations that are
21		representative of residential views, and we know that
22		the lights can be seen from from some distance.
23	Q	And are these lights that we're discussing just
24		nighttime lights, or is the project also anticipating
25		daytime lights?



A I'm not aware of daytime lights other than potentially at the substations for maintenance, security, that kind of thing. And the -- the FAA lights on the turbines would be at night as affected or mitigated by the aircraft detection system. And so they would only be activated when there's aircraft in the area.

7 Q Thank you.

1

2

3

4

5

6

8 And I understand that you didn't necessarily 9 prepare all of this analysis. But to the extent that 10 you know, the application focuses on the aesthetic 11 impacts of lighting. But did you also work or are you 12 aware of work that was also done with wildlife experts 13 on the project to determine the visual impact of these 14 lights on birds and bats?

15 A No, I'm not aware.

MS. REYNEVELD: Okay. Thank you. I don't have any further questions.

18 THE WITNESS: Thank you. 19 JUDGE TOREM: All right. 20 Mr. Levitt, I'm not going to let Mr. Livingston jump your place in line now that you're back. 21 2.2 Go ahead, Mr. Levitt. 23 COUNCIL MEMBER LEVITT: Thank you. 24 My name is Eli Levitt. I'm Ecology's EFSEC Council member. 25



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1377
1	So, Ms. Guthrie, I believe your rebuttal testimony
2	mentions that, when looking at some of the key
3	observational viewpoints I don't know what round it
4	was, but you did include feedback from the Yakama
5	Nation and other stakeholders.
6	THE WITNESS: Yes.
7	JUDGE TOREM: Could you please
8	define what you mean by "other stakeholders"? Who does
9	that include?
10	THE WITNESS: Sure. Through
11	revisions that came to us for through the EFSEC
12	process, I'm aware of, for example, private winery
13	owners, and we prepared simulations for them. And I
14	don't know specifically, but the way that the data
15	requests were worded, the requests indicated that
16	additional view studies came as part of the public
17	comment period, or from from comments that came from
18	the public.
19	COUNCIL MEMBER LEVITT: Do you know
20	if any members of the Latinx, BIPOC, or Spanish
21	community, leaders of those groups were invited to
22	provide feedback on any of the key observational
23	viewpoints or the analysis that you conducted for this
24	project?
25	THE WITNESS: I'm not aware of any



1	direct results of those interactions, but I believe,
2	you know, the public comment period was was just
3	that, public for for folks to to participate in
4	and provide comments or feedback.
5	COUNCIL MEMBER LEVITT: Yeah, I
6	guess, you know, the Yakama Nation was invited. But
7	I'm curious as to I don't know how they were
8	included. Perhaps you can enlighten me.
9	But why were some some groups invited perhaps
10	and not others?
11	THE WITNESS: I'm afraid I can't
12	speak to that.
13	COUNCIL MEMBER LEVITT: Okay. Thank
14	you.
15	I guess, one very theoretical exercise. It
16	strikes me that the map we were looking at this morning
17	is not terribly different than some urban areas. So,
18	you know, just for a moment, let's let's think about
19	the city of Portland. There's a ridgeline, and there's
20	a river. The Willamette River enters into the Columbia
21	River.
22	And in the 1970s the population of Portland was in
23	the 300,000, more than more than the Tri-Cities
24	area, 370,000.
25	Would your visual analysis change at all if in



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing	- August 24, 2023

1	terms of methodologies if you were conducting the city,
2	you know, this type of analysis in a much more
3	urbanized area like Portland? So picture, you know,
4	the lines of wind turbines being placed where Forest
5	Park is, you know. But in this case, Forest Park would
6	be 20 to 30 miles long.
7	Would it change the way you went about your
8	analysis in terms of methodologies?
9	THE WITNESS: In terms of
10	methodology, no. That is a repeatable process that we
11	would conduct in various different kinds of landscapes.
12	But I wouldn't go into hypotheticals about anything
13	beyond the methodology. But the methodology would be
14	the same, you know, inventory, viewpoint, selection, et
15	cetera.
16	COUNCIL MEMBER LEVITT: Would you
17	change the stakeholders that were invited to
18	participate in any way?
19	THE WITNESS: I wasn't directly
20	involved in I'm just not sure what you mean by
21	invitations. You know, obviously there's the
22	stakeholder process, but I think the the
23	opportunities for the public to be engaged would be the
24	same.
25	COUNCIL MEMBER LEVITT: And just



1	maybe separating your role from Tetra Tech in your
2	personal role, would you agree, though, that putting,
3	you know, five lines of wind turbines on the ridges of
4	Portland's hills would dramatically impact the views
5	and aesthetic of the city of Portland?
6	THE WITNESS: I feel like that's not
7	a fair comparison.
8	COUNCIL MEMBER LEVITT: Well, I'm
9	talking about Portland when it was 370,000 people, not
10	the current Portland.
11	THE WITNESS: I'm still not going to
12	answer to hypotheticals. We would take a project that
13	was proposed as proposed and conduct an analysis.
14	So
15	COUNCIL MEMBER LEVITT: Okay. Thank
16	you.
17	JUDGE TOREM: Mr. Livingston.
18	COUNCIL MEMBER LIVINGSTON: Thank
19	you, Your Honor.
20	Ms. Guthrie, I'm Mike Livingston. I'm with the
21	Washington Department of Fish and Wildlife on the
22	Council.
23	THE WITNESS: Good morning.
24	COUNCIL MEMBER LIVINGSTON: So just
25	two quick questions.



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1381
1	One is: I know there was some discussion about
2	project size that you've worked on offshore and some
3	more local, Snake River.
4	Have you done any analysis for projects of this
5	size in proximity to this large of a urban population?
6	THE WITNESS: No.
7	COUNCIL MEMBER LIVINGSTON: All
8	right. And then do you think this project could be
9	reconfigured to substantially reduce the visual impact
10	from the Tri-Cities and Benton City?
11	THE WITNESS: The question of
12	mitigation is really not in my scope. We conducted the
13	analysis that was done based on kind of the maximum
14	scenario, and decisions about the the scale and
15	scope of the project are to be decided by the
16	applicant.
17	COUNCIL MEMBER LIVINGSTON: Let me
18	ask it a different way.
19	So if they were, say if the applicant asked you
20	to design this in a way to minimize visual impact,
21	would you be able to reconfigure the project as it
22	or not reconfigure design the project in such a way
23	that it would have less visual impact than it currently
24	does?
25	THE WITNESS: Again, I would say



Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

that we conducted our analysis based on the project in 1 its maximum scenario as it was presented to us. And so 2 3 I can't -- I'm not a wind project designer, so --4 COUNCIL MEMBER LIVINGSTON: Okay. 5 THE WITNESS: -- I can't speak to that. 6 7 COUNCIL MEMBER LIVINGSTON: Okay. Well, thank you. 8 9 JUDGE TOREM: Lenny Young. 10 COUNCIL MEMBER YOUNG: Good morning, Ms. Guthrie. My name's Lenny Young, and I represent 11 the State Department of Natural Resources on the 12 13 Council. 14 Going beyond RCW and what's established in WAC, 15 could you explain in your own words why it is important to consider visual impacts when analyzing a project 16 17 proposal such as this and how visual changes in what people see affect their lives? 18 19 THE WITNESS: Let's see. I think 20 certainly we have the range of visual conditions, 21 right? We have national parks. We have state parks. 22 We have trails. And I'm, you know, an advocate for all 23 of those things that can be restorative to us and allow 24 people to experience the landscape in different ways. And there are areas that have been designated for 25



1	
1	scenery, and those areas are because of their
2	designation, they are to be considered for impacts to
3	the visual values that they represent.
4	COUNCIL MEMBER YOUNG: That sounds a
5	little bit to me like maybe a synopsis of why we have
6	laws and rules around visual impacts. But could you go
7	a little bit further and explain how changes in what
8	people see can affect their lives?
9	Why is this so important? Why is this an
10	essential part of analyzing a project such as this?
11	THE WITNESS: I think there are
12	certain expectations with certain kinds of views;
13	namely, again, from amenities that are valued for their
14	scenery, so and those are worthy of protection.
15	COUNCIL MEMBER YOUNG: Thank you.
16	JUDGE TOREM: And I have one
17	question for you.
18	And, Ms. Schimelpfenig, I don't know if you have
19	access to Exhibit 1001. It's really just a
20	geographical clarification at the bottom of Page 1 in
21	your credentials.
22	And I'm asking because you indicate you're a
23	specialist on the Badger Gap solar project in Kittitas
24	County, Washington, and yet you're before the State of
25	Oregon's energy facility siting council. And as an



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1384
1	Ellensburg resident, I'm not aware of this particular
2	one, and I don't see it on our Council's schedule.
3	So where is Badger Gap? I know we have Badger
4	Pocket, and up in Douglas County we've got Badger
5	Mountain. But my Google says Badger Gap might be in
6	Wisconsin.
7	THE WITNESS: Yeah, that that
8	project is in its early stages, and we conducted
9	fieldwork for it south of Ellensburg, I believe. It's
10	been a while.
11	JUDGE TOREM: So is that one I can
12	say is now coming to the State of Washington's energy
13	siting council as opposed to Oregon?
14	THE WITNESS: In Washington.
15	JUDGE TOREM: Okay. Thanks for the
16	clarification. Maybe we'll be seeing you again.
17	All right. Does that raise any other questions
18	for Council members?
19	MR. McMAHAN: Your Honor, if I could
20	just interject here. Tim McMahan here, for the record.
21	Because of the nature of my practice, I tend to
22	know much, much earlier stage what I know is kind of
23	out there. Sometimes it's hypothetical. Sometimes
24	it's never going to come along at all. Sometimes it
25	dies on the vine.



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1385
1	And and so I just want to indicate that the
2	project you mention may or may not have legs, and there
3	are many others like that in my portfolio. So it's
4	really difficult for Ms. Guthrie to answer that
5	question.
б	JUDGE TOREM: Fair enough,
7	Mr. McMahan. I just was confused by the geography.
8	MR. McMAHAN: And I hope that helps.
9	JUDGE TOREM: Yes. Kittitas County
10	is clearly not in Oregon, and that was just my
11	question.
12	MR. McMAHAN: Okay.
13	JUDGE TOREM: Just take a look at
14	the bottom of Page 1. It might be something to be
15	corrected in her future credentials.
16	Council members, any
17	MR. McMAHAN: Sorry, Your Honor.
18	Sorry, Your Honor.
19	JUDGE TOREM: Mr. McMahan.
20	MR. McMAHAN: Tim McMahan here. I'm
21	sorry. Were you I think I might have been muted
22	when I just articulated a response to that question.
23	Did you hear any of what I said?
24	JUDGE TOREM: The bulk of it, yes.
25	MR. McMAHAN: Well, I'm happy to



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1386 answer any other questions, but as I indicated, you 1 2 know, yeah. Thank you. 3 JUDGE TOREM: No. Just a question 4 of geography. 5 Any other questions -б MR. McMAHAN: Yeah. JUDGE TOREM: -- for Ms. Guthrie? 7 All right. Mr. Aramburu, I see your microphone is 8 9 open. 10 MR. ARAMBURU: Thank you. 11 12 RECROSS-EXAMINATION 13 BY MR. ARAMBURU: Just a couple of questions, Ms. Guthrie. 14 0 15 You indicated that you did some supplemental work on view impacts in, what, '22? '21, '22? 16 17 Can you specify what you mean by "supplemental"? Α Well, during my questioning, you indicated you didn't 18 0 work on the original visual impact analysis that is in 19 20 the original ASC, but then there was some supplemental work that was done. 21 2.2 Am I right about that? 23 That's correct. Α 24 Okay. Was that supplemental work vetted or reviewed by 0 25 SWCA?



		ann Record of Froceedings, Adjudicative frearing - Adjust 24, 2025
1	A	As I understand, they used what's in the application
2		for their work as a reference.
3	Q	Okay. But you've done new work, I understand, that
4		when you took over from another person at Tetra Tech.
5		That's correct, isn't it?
6	A	I was involved in the preparation of some of the
7		supplemental simulations that were prepared; for
8		example, for data requests.
9	Q	And were you involved in some of the red-lining that
10		went into the visual impact analysis?
11	Α	No.
12	Q	Well, who put the the red-lining I'm referring to is
13		we have a red-line updated application, and there's
14		red-line material in that, changed or added material
15		from the original application.
16		Do you are you aware of that?
17	Α	Correct. Yes.
18	Q	And were you responsible for any of that red-line, new
19		red-line material?
20	A	I didn't prepare the text.
21	Q	Who did?
22	A	Can we be specific about particular red-lines?
23		Are you talking about the additional simulations
24		that were created, for example?
25	Q	The I'm short of time here, Ms. Guthrie. And as I



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

1		look at the application, there's considerable red-line
2		material in the application. I don't want to go
3		through every page and line, or else I'm something
4		bad's going to happen to me.
5		But what I want to know is whether you were
6		responsible for any any or all of that material,
7		writing it and including it in the red-line version.
8	A	For my role here, yes, I'm sponsoring that.
9	Q	Ms. Guthrie, I understand that. And I understand
10		you're sponsoring it.
11		The question is: Who wrote the new red-line
12		material in the updated ASC?
13	А	I think there were different staff. Just as one
14		example, I know the person responsible for, for
15		example, site photography and edits to the photography
16		wrote the parts explaining how, for example, the
17		dehazing simulations were prepared, for example, and I
18		believe other other staff at Tetra Tech that were
19		involved in the project before my involvement.
20	Q	I don't want to belabor this point. What I'm really
21		asking, there's a number of red-line there's a
22		certain amount substantial amount of red-line
23		material in the visual assessment, the aesthetics part
24		of the red-line, the new amended or updated ASC.
25		My question is: Were you responsible for writing



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1389 1 any of that? MS. SCHIMELPFENIG: Objection, Your 2 3 Honor. Asked and answered. The witness has testified 4 that the team at Tetra Tech contributed to that, and she also indicated that she had not worked on the 5 updated ASC. 6 JUDGE TOREM: Mr. Aramburu, I don't 7 know that you're going to get any better answer. 8 And 9 I'm not --10 MR. ARAMBURU: I think --11 JUDGE TOREM: -- totally sure --12 MR. ARAMBURU: I think there's a --13 JUDGE TOREM: -- on the --14 MR. ARAMBURU: -- yes or --15 JUDGE TOREM: -- relevance. 16 Yeah, yes or no, but I don't think there's a whole 17 lot of relevance as to who wrote what in the updated ASC. The updated application states what's there for 18 19 the Council. 20 Does it really matter if this person wrote one 21 sentence or another? It was a team effort apparently. 2.2 MR. ARAMBURU: Well, she's 23 sponsoring it, and it would be interesting to know 24 whether she wrote any of what she's sponsoring. So if 25 that's not a proper question, fine.



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1390
1		JUDGE TOREM: Well, let's ask her
2		that.
3		How much of the new application for site
4		certification, the updated version, are you personally
5		responsible for? Just give us a ballpark fraction and
6		who you worked with.
7		THE WITNESS: I worked primarily
8		with our project manager, Linnea Fossum, and Shaun
9		Brooks was involved in writing the bulk of the
10		revisions.
11		JUDGE TOREM: And you were familiar
12		with it enough that you're able to sponsor with this
13		their inputs?
14		THE WITNESS: That's correct.
15		JUDGE TOREM: Done deal,
16		Mr. Aramburu.
17		Anything else?
18	Q	(By Mr. Aramburu) Were these revisions and other
19		materials shared with WCA SWCA?
20	A	Yes.
21	Q	They were.
22		Do you know who I'm talking about?
23	A	Yes. For the EIS.
24	Q	For the EIS.
25		Were these shared by them, with them?
	1	



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing	- August 24, 2023

1		MS. SCHIMELPFENIG: Objection, Your
2		Honor. Vague. What is "these" referencing?
3	Q	(By Mr. Aramburu) The new red-line updated materials.
4		Were they shared with SWCA?
5	A	Yes, I believe they are they're available on the
6		the EFSEC web website. And, yes, were provided to
7		SWCA so that they could perform their work.
8	Q	Okay. Did you ask them for any comments or any peer
9		review of your material?
10	A	I was not involved in that process, no, sir.
11	Q	Okay. Good.
12		You talked about certain designated scenic areas.
13		Would it be fair to say that the section of the
14		comprehensive plan of Benton County, which talks about
15		conserving visually prominent naturally vegetated steep
16		slopes and elevated ridges, is a scenic designation?
17		MS. SCHIMELPFENIG: Objection, Your
18		Honor. Ms. Guthrie is not a land-use expert. She's a
19		visual expert. She is not an expert on whether how
20		the County does its designation of scenic lands or not.
21		JUDGE TOREM: Sustained. Let's stay
22		within her area of expertise and what she's testified
23		to, please.
24		MR. ARAMBURU: Okay. No further
25		questions.



	Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1392
1	JUDGE TOREM: Fantastic. And
2	nothing bad happened to you.
3	Any other questions from the Council for this
4	witness?
5	MR. ARAMBURU: Not yet.
б	JUDGE TOREM: Yes, it's early,
7	Mr. Aramburu. It's early.
8	Mr. Levitt.
9	COUNCIL MEMBER LEVITT: I'm sorry.
10	I just want to ask one or two follow-up questions from
11	my earlier questions.
12	Ms. Guthrie, are you aware that TCC has said that
13	approximately 40 percent of the TCC excuse me 40
14	percent of the Tri-Cities population identifies as
15	Latinx or people of color?
16	THE WITNESS: I wasn't aware of that
17	statistic in particular, no. Though I visited the
18	area.
19	COUNCIL MEMBER LEVITT: Okay. And,
20	again, just a yes-or-no question.
21	Is there a reason that Tetra Tech and the
22	applicant or any other parties involved in assessing
23	key observational viewpoints did not reach out, broadly
24	speaking, to leaders that represent that 40 40
25	percent of the Tri-Cities population?



1	THE WITNESS: I wasn't directly
2	involved in the public outreach, so I just can't answer
3	that question.
4	COUNCIL MEMBER LEVITT: Okay. Thank
5	you.
6	JUDGE TOREM: All right. Thank you,
7	Ms. Guthrie, for your time and attention today.
8	We have an hour-plus before we would be scheduled
9	to break for lunch, so I'd like to get right into
10	Mr. Apostol's testimony, if he's available. I'll see
11	if we can move the tiles around to get him on my
12	screen.
13	(Witness Dean Apostol
14	appearing remotely.)
15	
16	JUDGE TOREM: Good morning,
17	Mr. Apostol. I see you there.
18	THE WITNESS: Good. I see myself in
19	my upper right-hand corner of my screen.
20	JUDGE TOREM: Okay. Good.
21	THE WITNESS: It worked out pretty
22	good, but I'm small.
23	JUDGE TOREM: And we like your shirt
24	too.
25	THE WITNESS: Thank you.



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing	- August 24, 2023

1	JUDGE TOREM: So, Mr. Aramburu, if
2	you could mute your mike, I think we might eliminate
3	some feedback since we've got at least three open.
4	Dean Apostol, you have sponsored a number of
5	exhibits, and I think they've been numbered 5100, 5101,
6	5102, -3, and -4. And there was a rebuttal exhibit. I
7	think it's 5906.
8	Are you aware of any others?
9	THE WITNESS: No. Well, I think
10	there might have been some maps submitted today or
11	yesterday.
12	JUDGE TOREM: Yes. But I'm not sure
13	if those have been numbered or uploaded to the folder
14	I'm looking at on the EFSEC website well beyond your
15	control.
16	Mr. Aramburu, are there any other exhibit numbers
17	that you're aware of yet? And Ms. Masengale might
18	MR. ARAMBURU: No. I think you've
19	covered them, and the the supplemental material is
20	5906.
21	JUDGE TOREM: Okay. Thank you. I
22	saw that Ms. Masengale had put that in the folder
23	already, so everyone has access.
24	All right. Mr. Apostol, let me swear you in.
25	We've got a little bit of an echo, but we'll work



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1395
1	with that for the swearing in and see if closing my
2	microphone helps with that.
3	THE WITNESS: Okay.
4	
5	DEAN APOSTOL, appearing remotely, was duly
6	sworn by the Administrative
7	Law Judge as follows:
8	
9	JUDGE TOREM: Do you, Dean
10	Apostol if you raise your right hand solemnly
11	swear or affirm that all of the testimony in
12	Exhibits 5100 through 5104 as well as the supplemental
13	Exhibit 5906 will be the truth, the whole truth, and
14	nothing but the truth and that all of your answers
15	today to questions will be the same?
16	THE WITNESS: I do.
17	JUDGE TOREM: All right. We'll have
18	adopted 5100 through 5104. I know there might be some
19	objections as to 5906, so we'll wait on those and make
20	a ruling later.
21	(Exhibit Nos. 5100, 5101,
22	5102_T, 5103_R, and 5104_R
23	admitted.)
24	
25	JUDGE TOREM: I'm going to go mute



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	Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page
1	my microphone here. Mr. Aramburu, if you want to give
2	a kind of 30,000-foot couple of sentences. Then I'll
3	turn Mr. Apostol over to the applicant for their
4	cross-exam. And then we'll come back to the Yakama
5	Nation as well.
б	UNIDENTIFIED SPEAKER: Rick, your
7	mike's off.
8	MR. ARAMBURU: There we go. The
9	microphone's on. Thank you.
10	Mr. Apostol is a long-standing visual expert with
11	years of experience. He has he has reviewed the
12	visual material submitted in the application and in the
13	draft environmental impact statement and have reached
14	conclusions regarding the sufficiency of those
15	materials for visual analysis and has other comments on
16	them.
17	And we do have 5906. I know Mr. McMahan had
18	indicated he has some objections to it. I will want
19	the witness to testify concerning that matter, but
20	perhaps we can address those issues at the beginning.
21	JUDGE TOREM: Yeah, I think that
22	might be brought up depending on when you use the
23	exhibit. So we'll wait. I don't know if the
24	applicant's going to refer to it in their cross-exam,
25	but we'll deal with it when we get to it in a little



1	bit.
2	Mr. Apostol, do you happen to have two different
3	ways you're listening to the audio, maybe your computer
4	as well as a cell phone?
5	THE WITNESS: No. My cell phone's
6	off.
7	JUDGE TOREM: Okay. I'm just trying
8	to identify where the sound quality's being diminished.
9	But if you have speakers on your computer, they might
10	be providing some feedback also to your own microphone.
11	But beyond that, I'm not sure what we can do. But
12	anything that might happen on your end, it might be
13	helpful, and maybe we've got that resolved at the
14	moment. We'll see.
15	THE WITNESS: I just turned the
16	volume down. Does that help?
17	JUDGE TOREM: Actually, I think it
18	does.
19	THE WITNESS: Right. Right.
20	JUDGE TOREM: All right. Mr
21	THE WITNESS: I got a brand-new
22	brand-new webcam, and so this is the first time I'm
23	using it, so
24	JUDGE TOREM: All right.
25	THE WITNESS: Give me a little bit



1 of a chance here. JUDGE TOREM: You're well centered 2 3 in the screen. We'll work with it. Technology gods have been mostly on our sides, but they show up from 4 5 time to time. All right. I'm going mute on this end and ask 6 7 Mr. Aramburu do the same except for objections. Ms. Schimelpfenig, I'm going to turn over the 8 witness to you. 9 10 MR. ARAMBURU: Mr. Examiner, may I 11 have the witness identify 5906 and what it's being used 12 for? 13 JUDGE TOREM: At the appropriate 14 time, when it's used. 15 MR. ARAMBURU: Okay. 16 MS. SCHIMELPFENIG: Thank you. Your 17 Honor, at this time, we don't have any questions for 18 Mr. Apostol, but we reserve the opportunity to recross 19 after -- after the other -- any other questions. 20 JUDGE TOREM: All right. Let me 21 turn to Ms. -- Ms. Voelckers and see what questions she 2.2 has. We may get to 5906 sooner than we thought, 23 Mr. Aramburu. 24 Ms. Voelckers, I saw that Yakama Nation had some 25 questions reserved or time for them.



1 MS. VOELCKERS: My apologies, Your I didn't realize that was addressed to me. 2 Honor. 3 As I said this morning, we actually don't plan to 4 take the time that we had reserved. I do, you know, 5 want to ask questions based upon what comes out. But thank you for allowing me to reiterate that we -- that 6 estimate was made a couple weeks ago, and we don't at 7 this time plan to use that time that we had asked for. 8 9 JUDGE TOREM: All right. 10 Mr. Aramburu, it's a little unusual to allow redirect 11 after no cross. But because you've introduced this 12 other exhibit demonstrative, let's deal with that now 13 and see if it's appropriate to admit. 14 I'll be liberal with my ruling. I'll let the applicant know that. And if we limit your questions 15 16 about it just to introduce it, then that might be the 17 best course for having Mr. Apostol's testimony reclarified based on anything he was rebutting with 18 19 5906. 20 So I'm going to ask and see if we can put that up 21 on the screen for context, and you go ahead, 2.2 Mr. Aramburu. 23 And, Ms. Schimelpfenig, if you'll hold your 24 objection until the exhibit's been adequately 25 introduced, and we can see what's going on.



Thank you, all. 1 2 MS. SCHIMELPFENIG: Thank you, Your 3 Honor. 4 (Background dialogue.) 5 б MR. ARAMBURU: Okay. It should be 7 on the screen. Is everybody getting it? Okay. 8 9 REDIRECT EXAMINATION 10 BY MR. ARAMBURU: This is Exhibit 5906. It consists of two pages. And 11 0 I'd like to ask, Dean: Can you explain how this was 12 13 prepared and why it was prepared? 14 This was a map that was prepared with my -- by Α Yeah. myself and Paul Krupin. And Paul did a lot of the 15 16 work, but I kind of helped him or helped describe what 17 was needed. And what this does is it shows the -- it breaks 18 19 the project area into four visual areas, kind of moving 20 from the west to the east, Visual Area 1 through 4. And it shows some of the key or representative 21 22 viewpoints in the big red dots. And it shows distance 23 to the project. And the -- it breaks the project into 24 these layers.

There's kind of a layer that's closest to the



1		observers. I think I think what I remember is the
2		distance was zero to two miles from the edge of the
3		urban area. And then the that's the first zone,
4		which has kind of green turbines represented. And then
5		the next zone is in blue. I believe that's two to
6		three miles distance. And then the the red zone is
7		three to four miles.
8	Q	Okay. And the first page of 5906 contains red dots,
9		and they're referring to RV, and those are the visual
10		reference points?
11	A	Representative viewpoints, yeah.
12	Q	They're representative viewpoints. And we had a lot of
13		discussion about those in the visuals
14	A	Yeah.
15	Q	from from those as well.
16		And the base map that we are using here, is that a
17		base map from the from the Moon memo, the the
18		memo which made some changes to the to the project?
19	A	I believe so.
20	Q	Okay. So I will represent to you and the parties that
21		this is the map that from the Page 11 of the Moon
22		memo, the redacted version, by the way. And and to
23		the extent you can see my hand moving through this,
24		this shows the areas of in which the the turbines
25		were removed. We had some discussion of that with



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	3

1	Ms. Guthrie.	Okay. So that's what's on Page 1.
2	Page 2.	Can you describe what's shown on Page 2,
3	Mr. Apostol?	

4 A Yeah. This is a table that indicates how many turbines
5 are in each of the zones. And we did some -- we did
6 some modeling. If you were to take -- or take away
7 turbines in a zone, how much would you reduce?

And so, like, when you look at the top line there where it says visual area, some reduction, that's -there's 57 turbines in the first zone, which is the green zone, and that's 24.7 percent of the total number of turbines. I believe that's -- yeah, based on 231 turbines, which I believe is the number that's after the Moon memo.

15 Q Okay. So --

16 A And for each -- each of the -- each of the visual areas 17 that were on the map were those kind of corridors, 18 those are identified Visual Area 1, 2, 3, and 4 with a 19 kind of which representative viewpoint is within those 20 areas those are labeled and how many turbines are 21 within each of those kind of corridors.

Q Okay. So risking being accused of distortion, in looking at the first page of that document, we're seeing the three layers, and we're seeing the numbers for the individual turbines as we zoom in a bit here?



1	A	Yeah.
2	Q	Okay. And how should how should the the
3		Council that is, the EFSEC Council use this
4		material? What's helpful?
5	A	Well, there were some questions from some of the
6		Council members earlier about visual mitigation and
7		modifying the design to reduce some of the visual
8		impacts. And this this is a good starting point for
9		thinking about that.
10		Generally speaking, the closer the turbines are,
11		the higher the impact. That's not always the case, but
12		that's a a good generalization. So it's good to
13		know what we're dealing with as far as distance zones.
14		Just as an aside, with wind turbines, modern wind
15		turbines, which are getting bigger and bigger all the
16		time, I think these turbines are about twice the height
17		of the existing turbines at the Nine Mile site, for
18		example. A lot of the work done at Robert Sullivan at
19		the Argonne National Laboratory, who's looked at
20		turbines in the field and then measured viewing
21		distances and visual dominance. You know, wind tur
22		the modern wind turbines are visually dominant
23		MS. SCHIMELPFENIG: Your Honor.
24		Your Honor, I'm sorry. I don't mean to interject. But
25		I think we're straying beyond laying the foundation for

Γ



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1404
1	this exhibit into testimony of the witness. And I
2	think we should determine whether this exhibit should
3	be admitted before we start discussing it any further.
4	JUDGE TOREM: Fair enough.
5	Mr. Apostol, let's just stop there. I want to
6	hear the applicant's objection to this map that you and
7	Mr. Krupin worked on.
8	THE WITNESS: Okay.
9	JUDGE TOREM: Ms. Schimelpfenig, go
10	ahead. And then I'll hear from Mr. Aramburu if I need
11	to.
12	MS. SCHIMELPFENIG: Thank you.
13	Your Honor, applicant objects to the admission of
14	Exhibit 5906_R, the supplemental testimony of
15	Mr. Apostol, under WAC 463-30-310, which allows the
16	presiding officer to first set deadlines that permit
17	for the study and presentation of cross and rebuttal
18	evidence, and then second, directs the presiding
19	officer to exclude evidence not submitted prior to that
20	deadline unless an exception applies.
21	The witness had the opportunity to submit this
22	exhibit prior to the deadline of July 14th, 2023, and
23	TCC has not shown that any exception here warrants the
24	admission of this exhibit today. Therefore, the
25	Council should exclude Exhibit 5906_R.



	Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1405
1	JUDGE TOREM: Mr. Apostol, before I
2	go to Mr. Aramburu, can you tell me the date that you
3	were preparing this?
4	THE WITNESS: This was prepared
5	mostly over the last week to ten days.
6	JUDGE TOREM: And let me ask you why
7	the last week to ten days, just so I understand if
8	there was a particular justification. I think I know
9	what it's going to be, but tell me.
10	THE WITNESS: Well, I'm not sure
11	when this map was initially prepared. The Moon memo,
12	when that came out.
13	JUDGE TOREM: Yeah, I think that
14	was that was made available to the parties
15	approximately August 9th is when it surfaced. So
16	THE WITNESS: Yeah, so this wasn't
17	even available until August 9. So it would have
18	been
19	MS. SCHIMELPFENIG: Your Honor.
20	THE WITNESS: hard to work on it
21	without having it available.
22	JUDGE TOREM: Yes,
23	Ms. Schimelpfenig.
24	MS. SCHIMELPFENIG: Yeah. If I may
25	respond briefly.



Horse Heaven Wind Farm
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1	This map is an amendment showing the removal of 13
2	turbines. However, the exact same map, obviously with
3	those 13 turbines in it, was available in the
4	application for site certification as Figure 2.3-1 on
5	Page 2-19 of the updated application for site
6	certification. The witness has had and been able to do
7	this analysis since the application was initially
8	submitted.
9	JUDGE TOREM: I understand. I
10	understand the applicant's position.
11	Mr. Aramburu, do you want to give me TCC's
12	position besides the questions I've already asked
13	Mr. Apostol for background?
14	MR. ARAMBURU: This exhibit was
15	prepared in response to the Moon memo received on
16	August 9 and to the contentions made in the Moon memo
17	that there was significant mitigation of the project
18	based upon the changes that were made. So this memo
19	was produced to to address those issues and to
20	address the contentions in the Moon memo.
21	MS. SCHIMELPFENIG: If I may.
22	JUDGE TOREM: Well, no. With all
23	due respect to Tom Petty, we're all having full moon
24	fever. It's admitted.
25	////



1		(Exhibit No. 5906_R
2		admitted.)
3		
4		MS. SCHIMELPFENIG: Thank you, Your
5		Honor.
6		MR. ARAMBURU: And if I may ask a
7		question of Mr. Apostol.
8	Q	(By Mr. Aramburu) You you have reviewed the Moon
9		memo, and you reviewed the the turbines, the 13
10		turbines that were removed as shown on Page 1 of
11		Exhibit 5906; is that correct?
12	А	Yes.
13	Q	Do you believe that the the deletion of the turbines
14		that are shown on the map of 5906 will significantly
15		reduce or mitigate the visual impact of the project?
16	A	It will not significantly reduce impacts, no.
17		MR. ARAMBURU: Okay. Thank you.
18		JUDGE TOREM: All right.
19		Mr. Aramburu, thanks for the background on
20		reintroducing this exhibit. It's been admitted.
21		In fairness, then, Ms. Schimelpfenig, if you have
22		any additional cross-exam or any cross-exam, I guess,
23		for the witness, now would be the time.
24		MS. SCHIMELPFENIG: Your Honor, may
25		we request the opportunity to submit supplemental



written testimony from our expert Brynn Guthrie after 1 she has the time to review this exhibit in full since 2 3 we did not receive this until after 5 p.m. yesterday? 4 JUDGE TOREM: You may offer it. Whether I will allow it, we'll see. At some point we 5 have to cut things off. And, again, with the Moon 6 memo, my interest in admitting this is how much it's 7 been mentioned in the adjudication, and I think the 8 Council members would like to know as much as possible 9 10 and allow Tri-Cities C.A.R.E.S. to make their arguments 11 on these visual impacts. It's the main aspect of their 12 case. 13 If we need that supplemental testimony, we'll --14 subject to objection, I'll make a ruling on it. But it may not come in, in time for tomorrow's hearing. 15 There 16 may be a supplemental hearing mid September, but you 17 can make a written motion in between. I'll allow the 18 response time of, I think it was four business days on 19 those motions to allow TCC to respond. 20 MS. SCHIMELPFENIG: Okay. 21 JUDGE TOREM: Ms. Voelckers, I see 22 you might have an additional question. 23 MS. VOELCKERS: Thank you, Your 24 Honor. 25 ////



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1409
1		RECROSS-EXAMINATION
2		BY MS. VOELCKERS:
3	Q	I do have a question now trying to also digest this
4		information. And we have talked about the Moon memo a
5		lot, Mr. Apostol. And, I guess, first, I don't know
6		how much you've watched of the hearing. So my name is
7		Shona Voelckers, and I am representing Yakama Nation in
8		this adjudication.
9		Knowing that this memo has been discussed on other
10		impacts that have been raised, I would like to better
11		understand your the reason for your answer of "no"
12		in terms of why you I think what I heard, but I want
13		to make sure I caught it, was that this map supports
14		that answer that, no, there's there's not a
15		reduction of the visual impacts from the Moon memo.
16		Could you better explain or maybe go into a little
17		more explanation of of why, please?
18	A	Yeah. Sure. So there is a slight reduction in visual
19		impact in the northwest corner, where I believe some
20		turbines were removed.
21		And but the the problem is that the number

he number of turbines in view and the close proximity of those 22 23 turbines to most of the viewers -- and I'm primarily talking about those to the north of the project in the 24 Tri-City areas -- proximity in number and the extent of 25



the project viewed along the ridgeline, none of that changes. The removing 12 or 13 turbines in a couple of pockets really doesn't change the big picture at all.

So it has some minor value from a couple of
viewpoints, but that's about it. It's -- it's just not
nearly enough to get the job done.

7 Q And I don't know if this happened in closed record or 8 open record, but I'll represent to you that -- and I 9 believe it was closed record -- that Yakama Nation's 10 archaeologist testified on Monday that the turbine 11 removals that are shown here do not impact or lessen 12 the impact of the project's detrimental harm to 13 traditional cultural properties that she identified.

14 So when you say there was a slight reduction in 15 impacts on the northwest corner, is it fair to say, 16 though, that you're not speaking about reduction to 17 harm of Yakama Nation's cultural properties in your 18 answer?

19 A Correct. Yeah. I'm not speaking to those properties.
20 I'm speaking about the view primarily from Benton City,
21 which is up in that northwest corner. I think there's
22 some benefit to removing those turbines that are close
23 to Benton City, for viewers in Benton City.

24 MS. VOELCKERS: Okay. Thank you for 25 indulging those additional questions.

1

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Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1411 Nothing further from me right now, Your Honor. 1 JUDGE TOREM: Chair Drew? Council 2 3 members? Any question for Dean Apostol? 4 COUNCIL CHAIR DREW: I have a 5 question. Just looking at the map, I'm thinking about how it 6 was developed. And is it, like, as the bird flies, two 7 miles? 8 9 THE WITNESS: Yes. 10 COUNCIL CHAIR DREW: So --11 THE WITNESS: Yes. 12 COUNCIL CHAIR DREW: -- the land 13 formations that are up on the hill didn't affect where 14 you drew your two-mile line? 15 THE WITNESS: No. It was strictly a distance zone. However, the -- the land formations, 16 17 you know, they are correspondent to some extent with 18 the front row of turbines is along the escarpment. 19 COUNCIL CHAIR DREW: Uh-huh. 20 THE WITNESS: And the back row of 21 turbines is along on the fat area, further back. 2.2 COUNCIL CHAIR DREW: Okay. Thank 23 you. 24 JUDGE TOREM: We have Stacey 25 Brewster, and then Lenny Young also has some questions.



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

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Council Member Brewster, you're on "mute." If you want to come off, we'll get you your question.

COUNCIL MEMBER BREWSTER: Thank you. Thank you, Mr. Apostol.

My question is: You mentioned the removal of the approximately 13 turbines was not significantly impacting the visual impact.

Can you tell me what -- what it would take, what in your opinion, how many turbines would need to be removed and where?

11 THE WITNESS: So, yeah, I'm glad you 12 asked that, because that gets to one of the reasons 13 when he did this map, was -- and why we zoned it the 14 way we did front to back, is my theory of design and visual impact on this project, consistent with other 15 16 projects that I've worked on, is that the closer 17 turbines to the observer are the ones that are the 18 biggest problem from the visual impact standpoint.

And so what we were trying to do is layer the project, I'll call it front to back. What I mean by "front to back" is north to south. We were trying to layer it in a way that we could model it. We could do a visual model similar to the simulations that Ms. Guthrie's team did and then look at it and say, What happens if you take out the closest turbines to



1 the observer?

So those in, for example, in Zone 1, I think there were 60 or so in that zone. The green zone. If you take those out and then you look at it from the same viewpoints, what happens? Does it improve -- does it markedly improve the visual impact, lessen the visual impact?

And then if that's not sufficient, what happens if you also remove those in Zone 2? And then we didn't think we'd ever get to Zone 3, but we actually did do some modeling there as well. So we have done some modeling. We have looked at it. And so we've used this map as a guide for that purpose.

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Does that answer your question?

COUNCIL MEMBER BREWSTER: I

understand the modeling and how the map works. 16 I'm 17 wondering if you came to a determination as to, say in 18 Zone 1, of the number of turbines left. Would you 19 remove all of them? Would you remove the first row of 20 them? What sort of decrease in turbines would it take 21 for TCC to feel the impact is less than significantly? 22 THE WITNESS: I understand. So we 23 did not kind of do it turbine by turbine or row by row. 24 We did it zone by zone. So we -- we took a look at what it looks like now with all the -- with all the 25



Page 1414

1	turbines in the view except for those 13 that were
2	removed. And then we removed those in the first zone,
3	which I think, Rick, if you scroll down to the table, I
4	could see the number.
5	MR. ARAMBURU: You want the table,
6	Dean?
7	THE WITNESS: Keep going.
8	MR. ARAMBURU: Here?
9	THE WITNESS: Yeah, right there.
10	Stop there.
11	So that was 57 that's 57 turbines in that first
12	zone, which is about 24.7 percent of the total of 231.
13	So we said, Well, what happens if we take those 57
14	out and then you relook at it from we used four key
15	viewpoints that we were looking at, which gave us a
16	kind of a east-to-west range so we could see the entire
17	ridgeline from these four viewpoints.
18	And I think if the question is was that sufficient
19	to reduce the visual impact to a level that I would
20	consider acceptable, I'd say no. We didn't we
21	weren't able to do we didn't achieve that with the
22	first group of reductions.
23	Then we tried the second group of reductions, the
24	blue zone. And surprised me that we still didn't
25	achieve it, at least from two no, from yeah, two



1	of the four viewpoints were still very high impacts.
2	Particularly Badger Mountain is a is a real
3	difficult one because the viewers on top of Badger
4	Mountain, their eye level is about where the elevation
5	of the of the top of the ridge is. And you just see
6	so many turbines from Badger Mountain, and you see them
7	all the way to the back of the project, it looks like.
8	And so
9	MR. ARAMBURU: Dean, can I
10	THE WITNESS: it's very difficult
11	to to mitigate
12	MR. ARAMBURU: Dean, can I interrupt
13	you? Just just showing
14	THE WITNESS: Yeah.
15	MR. ARAMBURU: here on 56
16	56 5906, RV 5 is Badger Mountain? That's what
17	you're referring
18	THE WITNESS: Badger Mountain
19	MR. ARAMBURU: to in your
20	testimony? Okay.
21	THE WITNESS: Yeah. That's correct.
22	And I believe also that
23	MS. SCHIMELPFENIG: Your Honor
24	THE WITNESS: the view
25	MS. SCHIMELPFENIG: I would like

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	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1416
1	to object at this time. This is extensive new
2	testimony. And we have not had the opportunity to
3	review these maps, present our side of the story and
4	our response.
5	And, frankly, this is inappropriate information to
6	put before the Council at this time, because it is
7	Mr. Apostol's own subjective testimony about the types
8	of turbines that should or should not be removed.
9	I just wanted to state our objection on the
10	record.
11	JUDGE TOREM: I'll note your
12	objection. I'm going to allow him to answer Council
13	Member Brewster's question. She's interested in this,
14	and I think the Council is significantly interested in
15	the impacts of view for the scope and scale of this
16	project, and that's what Mr. Apostol's here for.
17	I know that the applicant only got this map last
18	night in preparation for today's cross-exam. Your
19	objection's noted, but the Council will have to give
20	appropriate weight. As I said, if your the
21	applicant needs to supplement its testimony for any
22	reason, that motion can be made. And we'll get
23	MS. SCHIMELPFENIG: Thank you.
24	JUDGE TOREM: an appropriate
25	appropriate ruling on it as time allows.



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1	MS. SCHIMELPFENIG: Thank you, Your
2	Honor.
3	THE WITNESS: Was I done answering?
4	I can't remember.
5	JUDGE TOREM: Ms. Brewster, did you
б	need him to further elaborate on how the map was
7	created and the other viewpoints that are hypothesized
8	here?
9	COUNCIL MEMBER BREWSTER: No. Thank
10	you.
11	JUDGE TOREM: All right. Let's move
12	on to Council Member Young's question.
13	COUNCIL MEMBER YOUNG: Thank you.
14	Mr. Apostol, my name is Lenny Young, and I
15	represent the State Department of Natural Resources on
16	EFSEC. And I have the same question for you that I
17	posed to Ms. Guthrie.
18	Why is it important to do this type of analysis as
19	part of an evaluation of a project of this nature? And
20	how can changes in what people see affect them or their
21	daily lives?
22	THE WITNESS: Yeah, thanks for that
23	question. I could probably talk all day on that, so
24	I'm going to try and find a way to keep it short and
25	sweet.



1 There are a number of -- to my expertise, the 2 visual resources dates back with my work with the 3 Forest Service. And the Forest Service pioneered a lot 4 of the visual impact analysis work in this country. 5 And over the years, they sponsored a lot of different 6 studies, a lot of academic studies.

7 And there are just a lot of ways that visual 8 resources affect people's lives. And some of those are 9 very obvious. If -- you know, people go on vacation to 10 the Grand Canyon to enjoy the view, or they go to 11 Yellowstone, or they go to the Columbia Gorge National 12 Scenic Area.

Others are closer to home. One of the councilmen -- it might have been you, Mr. Young -mentioned about Portland and the West Hills and the river and the visual qualities there and how those might be disrupted by a project.

So when -- unfortunately, over the years, people have tended to kind of brush off visual impacts as just merely subjective, somebody's opinion, not that big a deal. It's not the same as a wildlife impact or water impact.

But these visual impacts have physiological impacts on people. They can raise blood pressure. I mean, the sight of a natural area versus the sight of



an industrial area. There have been studies done that
 show that blood pressure is raised when you go from one
 to the other.

And healing is faster. There have been hospital 4 studies done where people have views out their windows 5 of gardens. People with the same disease had views of 6 a brick wall. The ones with the views of gardens --7 this was at University of Texas. The ones with the 8 views of gardens healed faster. There's a whole 9 10 movement in the hospital industry about healing gardens 11 based on that original research.

People are more creative when they see scenes thatthey enjoy. Their creativity goes up.

Of course real estate values have been talked about elsewhere. Those are tied to scenery.

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Sense of well-being.

17 These are all very important things. And people 18 do want to preserve local views. They're not always 19 successful in doing that, and -- but -- but people make 20 an effort.

And sometimes counties like Benton County recognize they have resources that they should protect, but they don't necessarily take all the steps necessary to get those protected. And I think that's one of the things that happened here, is there's -- there's an



Page 1420

1	obvious scenic resource, which is the ridgeline that
2	borders the entire metropolitan area. And it's not
3	fully protected, and so here we are. You know, we're
4	trying to deal with this project and find something
5	that will work.
6	Did that answer your question, Mr. Young?
7	COUNCIL MEMBER YOUNG: Yes. Thank
8	you.
9	THE WITNESS: Okay. Sorry to
10	ramble.
11	JUDGE TOREM: Counsel for the
12	environment has another question for you, Mr. Apostol.
13	THE WITNESS: Okay.
14	MS. REYNEVELD: I actually don't
15	have a question, Your Honor, so if anyone else has a
16	question prior to me. I just wanted to join in the
17	objection. I had my hand up prior but was not
18	recognized at that time.
19	JUDGE TOREM: Sorry. I did see your
20	hand come up, but it was in a sequence that I was
21	trying to follow of where it came up.
22	Did you want to state any more about counsel for
23	the environment's objection?
24	MS. REYNEVELD: Certainly. I just
25	wanted to join in the applicant's objection to the late



admission to this exhibit. I do think that a late admission the night prior to this testimony is prejudicial and really introduces the element of surprise to the parties. And I would just join the opportunity to either provide, you know, responsive testimony or to have this witness recalled for additional questions.

JUDGE TOREM: Understood. So we'll make a note of that. And, again, if the applicant's going to submit supplemental testimony, you might coordinate with Mr. McMahan and Ms. Schimelpfenig for the counsel for the environment to do that as well.

All right. Any other questions for Mr. Apostol?

I'm sure that Mr. Aramburu apologizes for any last-minute surprise. But as he's made abundantly clear, it's been very difficult to roll with the punches, if you will, and with the compressed schedule.

Again, my ruling was I think this is information the Council's interested in, as you can see the number of hands going up. That's why I'm making the ruling I am to keep the record as open as possible and as full as possible. If we need that supplemental testimony, we're starting to look at that question of a supplemental hearing date in the week of September 11th to the 15th. So that may be a time, Mr. Apostol, that

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	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1422
1	you might be recalled on that Monday or Friday, is what
2	it's looking like.
3	Ms. Voelckers, I see you have your hand up, and
4	then I'll come back to Council Member Levitt.
5	MS. VOELCKERS: Thank you, Your
6	Honor. While I don't understand this discussion this
7	morning to be inconsistent with anything that
8	Mr. Apostol submitted in his written testimony, if he
9	is recalled, then we will also be asking for time for
10	any additional questions that we might have after
11	reviewing especially this second page of the admitted
12	exhibit. So I just wanted to note that as we're
13	scheduling. Thank you.
14	JUDGE TOREM: Thank you.
15	Council Member Levitt.
16	COUNCIL MEMBER LEVITT: Yes.
17	Hopefully these questions are fast.
18	So I'm Eli Levitt. I'm Ecology's Council member
19	to EFSEC.
20	Could you briefly, just very briefly just
21	summarize how your methods would differ if you were
22	able to do this analysis on behalf of the applicant or
23	another party?
24	THE WITNESS: Well, good question.
25	So it's I'll start with it all depends on the



applicant's -- what the applicant's trying to achieve
 and then what they ask you to do.

But my -- my approach wouldn't change. So I'm trying to -- I would be trying to find a design of the turbine layout that achieves a visual quality impact level that is less than high. So at least get down to the moderate level of impact, which many people could probably live with. It would still be some impact, but they could live with it.

And so I would want to reconfigure the turbines, in particular -- the solar panels don't have much of any visual impacts. The power lines don't appear to have much of any visual impact. But the turbines do. And so that's where I would focus the issue, is on the turbine layout.

And I would work with the engineers who are expertise in turbine placement and see what can be done to reconfigure, you know, where they are, find out which ones are the most egregious. Can we move those elsewhere? And if we can't and we get into removals, which ones should we start with as far as removals?

Then build a visual model that shows what it looks like. So if I take out 10 turbines or 20 turbines or however many or move them, and let's take a look at it, and would say, Do we meet the visual objective of

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getting it down into a moderate level of impact? 1 If that doesn't work, you go to the next layer. 2 3 Maybe there's another 10 or 20 that are the next-most egregious. Pull them out or push them to the back or 4 5 push them somewhere else, and you try it again. And you just keep doing it until you get to the 6 point where, from all the key viewpoints, you've 7 achieved a moderate level of impact. And like I've 8 said, the most difficult place to do that from is going 9 10 to be Badger Mountain. But for most of the other 11 viewpoints where you're down lower and you're looking up, you don't see as many turbines, the possibility 12 13 certainly exists to reach a point where you could get 14 to a moderate level of impact. 15 Does that answer your question? COUNCIL MEMBER LEVITT: Yes. Thank 16 17 you. And would you do anything differently when it 18 comes to involving stakeholders in assessing the 19 20 viewpoints? 21 For sure. THE WITNESS: Yes. 22 The best way to do this is to have the 23 stakeholders decide whether it's reached an acceptable 24 level of impact or not. It's not to have me do it. 25 Not to have Ms. Guthrie do it. Not to have SWCA do it.



But to have the people who are going to -- going to be 1 looking at it every day, have them do it. 2 3 And so that involves structuring your public involvement and outreach in a way that goes out to 4 5 those communities, finds a comfortable setting for them, either takes them into the field to their 6 preferred viewpoints and then models it from there or 7 the nearest possible viewpoint to what they might 8 9 prefer. Because there could be -- you know, there could be 10 11 an infinite number of viewpoints in a metropolitan area this big. And so for practical reasons, you do need 12 13 representative viewpoints. 14 But, yeah, you have to talk to those people who have been left out and ask them what's important to 15 them, where is it important, how do they feel about 16 17 what it looks like under this scenario, this scenario, 18 this scenario. You can't just hand them a 19 take-it-or-leave-it proposition. 20 COUNCIL MEMBER LEVITT: Is it fair to say you have decades of experience doing visual 21 2.2 impact assessments in different places? 23 THE WITNESS: Yeah, dating to 1986. 24 COUNCIL MEMBER LEVITT: And given 25 your decades of professional experience, do you think



1	the applicant and Tetra Tech methodologies were robust
2	in nature?
3	THE WITNESS: They're they're
4	reasonably robust in doing the assessment of the
5	impact. They what they completely left out is any
6	attempt at mitigation beyond the 13 turbines that
7	recently were removed.
8	And those as Ms. Guthrie's testimony today
9	pointed out, they weren't even consulted. I mean, the
10	vis the the visual impact specialists on this
11	team were not even consulted about those 13 turbines.
12	They may have identified a different 13 turbines or a
13	different 20 turbines and said, you know, "These are
14	more problematic visually." But apparently, from what
15	I heard today, if I heard it right, they weren't even
16	asked.
17	So, you know, while their assessment is good
18	enough it's got problems, which is in my written
19	testimony points out the the problems, especially
20	with the simulations. It's good enough to understand
21	that the impacts here are very high.
22	COUNCIL MEMBER LEVITT: You
23	mentioned your your methodologies with stakeholders
24	would be different. What would you do to ensure that
25	leaders of different groups were invited to participate



1 in your individual impact assessment? THE WITNESS: Yeah, thanks for that 2 3 question. I'm not an expert on public outreach. However, I -- I have worked on -- with public outreach 4 5 experts on all my projects. And, you know, you have to have the right team, and you have to have the right 6 attitude to go out, and you've got to -- I'm not the 7 expert on how to reach out to, say, BIPOC communities. 8 9 But you need somebody on your team that has that 10 expertise and can design a process for reaching out. 11 It so happens my partner here is a visual rec- -or sorry -- a public outreach expert, and her approach 12 13 is always talk to the people and figure out what works 14 best for them. Don't just come in with your plan. Ask 15 them, What works for you? Do you have meet -- do you like to go to public meetings? Do you like to work at 16 home on your computer and do it remotely? Do you want 17 18 to meet at a park, out in a field? Do you want to go 19 on a field trip? 20 I mean, you have to ask people how they want to be 21 involved. 22 COUNCIL MEMBER LEVITT: And from all 23 the materials that you reviewed to prepare for this 24 testimony and your testimony, itself, did you see 25 anything that indicated to you that that was a



Page 1428

1	methodology that the applicant and/or Tetra Tech used
2	in their approach?
3	THE WITNESS: Quite the opposite. I
4	don't understand really what they did to reach out.
5	There's some mention of having some public involvement
6	or community involvement in selecting viewpoints,
7	and but it's not clear at all who they talked to. I
8	mean, I don't I don't find it anywhere about who
9	they talked to or why they pick those particular
10	viewpoints. So, yeah, I think there's a lot of work to
11	do on that end.
12	COUNCIL MEMBER LEVITT: Okay. Thank
13	you.
14	(Simultaneous speaking.)
15	
16	COUNCIL MEMBER LEVITT: Thank you
17	for your testimony.
18	THE WITNESS: Yeah.
19	JUDGE TOREM: Ms. Schimelpfenig.
20	MS. SCHIMELPFENIG: Yes, just one
21	question, Your Honor.
22	
23	RECROSS-EXAMINATION
24	BY MS. SCHIMELPFENIG:
25	Q Hello, Mr. Apostol.



Hi. 1 Α 2 I'm Ms. Schimelpfenig. I'm counsel for the applicant. 0 3 I just have one question for you today. Did you review Section 1.12 of the updated 4 5 application for site certification? I'm sure I looked at it. 6 Α Is it part of the visual impact assessment? 7 It is not. 8 0 9 So then I probably didn't. Because that's --Α 10 Okay. 0 11 -- what I focused on. Α 12 MS. SCHIMELPFENIG: Thank you. No 13 further questions. JUDGE TOREM: Council members, does 14 that raise any additional questions? 15 16 And, Mr. Aramburu, it's your witness. I want to 17 make sure you get the last word here. 18 Was there anything else you wanted Mr. Apostol to elaborate on, given the Council's questions and 19 20 Ms. Schimelpfenig's question there? 21 MR. ARAMBURU: I do not intend to 2.2 gild the lily. No. Thank you. JUDGE TOREM: All right. Fair 23 24 enough. 25 Seeing no other questions for you, Mr. Apostol. Ι



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1430
1	appreciate your testimony. As I said, if you might be
2	recalled for supplemental cross-exam, it would be in
3	mid September. And we're coordinating dates that
4	that's going to happen. To be determined still, but
5	that's the planning.
6	(Simultaneous speaking.)
7	(Witness excused.)
8	
9	JUDGE TOREM: We have Mr. Poulos as
10	the remaining witness for today. I'm optimistic still,
11	as I was this morning, that we can recall him, say,
12	start at 1:15, and for all the scheduled time, complete
13	our discussion of visual impacts with Mr. Poulos before
14	4, 4:30 today at the latest.
15	So I'm going to adjourn this hearing now. The
16	Council members are going to gather in another meeting
17	room shortly, say at 11:50, and we'll take 10 or 15
18	minutes to go over some procedural issues and talk
19	about the post-hearing deliberations that will be
20	scheduled once the post-hearing briefs are in.
21	So, Council members, you've got an invite to that.
22	Why don't we come back at about 11:50.
23	Ms. Voelckers, anything before we adjourn for
24	lunch?
25	MS. VOELCKERS: Thank you, Your



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1431
1	Honor. Just a note that I did e-mail to all the
2	Council members as well as yourself I believe to the
3	Council members; I sent it to the general EFSEC as
4	well as yourself and the attorney generals for EFSEC my
5	letter. Just in case this is part of the discussion, I
6	wanted you to know that it was waiting in your in-box,
7	the letter about the request for testimony by WDFW.
8	Thank you.
9	JUDGE TOREM: Thank you. Yeah, I
10	confirmed receipt of that, and it's been submitted to
11	Ms. Bumpus. And Chair Drew is aware of it as well.
12	Ms. Perlmutter.
13	MS. PERLMUTTER: Yes, Your Honor.
14	To the extent that the that the Council or yourself
15	will take that letter up and the request in that
16	letter, we'd like the opportunity, of course, to be
17	heard before a decision is made.
18	JUDGE TOREM: If there's one made
19	that's leaning toward the in favor of that occurring,
20	that will be necessary perhaps. But if the request is
21	going to be denied, Ms. Perlmutter, I don't think
22	you'll need any input on that. Is that correct?
23	MS. PERLMUTTER: That's absolutely
24	right. Obviously, or clearly, we we oppose the
25	request. I would like to have our say if we need to.



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1432
1	JUDGE TOREM: All right. I'll let
2	you know.
3	MS. PERLMUTTER: Thanks.
4	JUDGE TOREM: All right. Let's
5	break for lunch. Council, I'll see you in about five
б	or six minutes.
7	And if I wasn't clear, we'll come back at 1:15.
8	1:15.
9	(Pause in proceedings from
10	11:44 a.m. to 1:25 p.m.)
11	
12	JUDGE TOREM: All right. Good
13	afternoon, everybody. You can see we added another ten
14	minutes to the lunch hour. Hope that was well
15	appreciated when you saw the slide back up there.
16	And, Mr. McMahan, I did receive your note that
17	Mr. Poulos will be ready at or about 1:30.
18	MR. McMAHAN: Correct.
19	JUDGE TOREM: All right. Let me
20	make sure all the Council members are back. Staff's
21	just going to check the attendance list.
22	MR. McMAHAN: Your Honor, maybe
23	before we do that, I have a question.
24	JUDGE TOREM: Sure. They're just
25	doing that on the side.



1 Mr. McMahan. 2 MR. McMAHAN: Okay. And I know 3 Mr. Aramburu's raised this issue as well, and I think we probably have to figure out what we're going to do 4 5 about it. There is a request for a battery energy storage 6 system witness from Scout. And if that's going to 7 happen tomorrow, we should probably figure out where we 8 9 can do that, and we'll make arrangements to have him 10 available. 11 JUDGE TOREM: Mr. Aramburu, can you 12 remind us where we are on that request? 13 MR. ARAMBURU: Well, originally we 14 had the supplement to the Kobus testimony. Turns out Kobus didn't actually write the supplement at all, and 15 16 it was somebody else that wrote it. And I've sort of 17 assumed that we're not going to have anything on that time. I'm really not prepared to deal with that 18 19 tomorrow. 20 If you give me the name, I may have some questions 21 for that person, but I've been busy today, and I

23 So I'd be happy to learn of that person, and it 24 would be available, and then possibly examine the issue 25 again and let the parties know if I really do want

haven't really counted on that coming up at this time.

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1 cross-examination. I don't think it's necessary for Mr. Kobus to 2 3 appear. I will, for the record, state an objection to 4 the supplementation of his testimony, because he didn't write the supplementation, and he wasn't -- he had 5 somebody else write it. So I don't think it's proper 6 supplementation of a deposition, so I would object on 7 that grounds. 8 And depending on how that turns out, I don't 9 10 really think I have any questions of Mr. Kobus, so... 11 MR. McMAHAN: All right. So I 12 understand all that. 13 Your Honor, the -- really -- and you have -- you have, in fact, ruled on Mr. Kobus's deposition 14 15 testimony. I am just simply willing to and will do 16 what I can to reach out to provide the availability of Craig Gustafson, is the name, from Scout to talk about 17 18 battery energy storage systems and the fire protection 19 issues involved. We can do it in September, or I can 20 make Mr. Gustafson available tomorrow if the parties 21 wish that to happen. 2.2 JUDGE TOREM: Understanding that 23 Mr. Aramburu may not have a lot of time to prepare for 24 Mr. Gustafson, I would appreciate if you could send his 25 résumé out to all the parties and make him available



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1435
1	tomorrow. There's no guarantee there'll be any time
2	added to the schedule in September.
3	So the Council may have questions about battery
4	energy storage facilities and the fire control issues
5	that have been discussed, so I think having him
6	available tomorrow, time allowing, will be appreciated
7	by the Council members, assuming they might have
8	questions, Mr. McMahan.
9	MR. McMAHAN: All right. I'll take
10	care of it. Thank you.
11	JUDGE TOREM: And, Mr. Aramburu, if
12	you have limited questions for him, understanding that
13	you might have additional preparation time at a later
14	date, I just I can't guarantee it that September's
15	going to be opened up and a new supplemental hearing
16	scheduled. We shall see where we stand and will
17	address that some more in housekeeping tomorrow.
18	MS. VOELCKERS: Your Honor, if I may
19	on housekeeping, a schedule follow-up to what was just
20	discussed?
21	JUDGE TOREM: Yes. Please.
22	MS. VOELCKERS: It is our
23	understanding from your previous ruling that if
24	Mr. Kobus was to appear tomorrow, any questions would
25	be limited to his supplemental testimony and would not



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

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Page 1436

1 be allowed regarding anything else, including the Moon 2 memo; is that correct?

JUDGE TOREM: That's correct. The -- his deposition was taken. I know the Moon memo came to attention shortly after that. But, again, that's mostly in the SEPA side of the house, so I don't really want to air that any further than it has been.

8 So if Mr. Kobus appears and the Council has 9 questions, of course they might stray from the battery 10 energy storage supplement to his testimony or -- but 11 they may have questions about what's in his deposition 12 as well.

13 All the other parties have had a chance to depose 14 him, but the Council hasn't, so I'll give them latitude to take a look at the deposition tonight, and if they 15 16 have questions that are for Mr. Kobus they think is 17 appropriate, we'll see what they are. And if -- if they -- if you think they're straying into something 18 19 completely different, certainly you can lodge an 20 objection before Mr. Kobus answers the Council's 21 question.

That -- that's not that unusual that we have Council members' questions objected to. I think in the old-school days -- Mr. McMahan could remind me -- they used to hand them in on paper, and we'd circulate them



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	;

1	to the parties, and that way no one would know who may
2	have made the objection. But with the virtual hearing
3	format, that's just not how it's going to work. So
4	people have to own their objections, and we'll see if
5	the Council members' questions could be reformulated,
6	if necessary.
7	MS. VOELCKERS: So with that
8	understanding, Your Honor, to that, first is that if
9	that is the limitation on our ability to cross him,
10	then we do not have a need to call him for that
11	purpose.
12	And I'm hearing that Mr. Aramburu does also not
13	have a need to call him. So I would like some clarity
14	on whether or not he even needs to appear if none of
15	the parties are calling him, while of course reserving
16	the ability to ask follow-up questions that we may have
17	to what the Council members do bring out if he is to
18	appear.
19	But I think there's a threshold question here now
20	about whether he even needs to appear. And I don't
21	know that we need to resolve it this minute, but we
22	would appreciate resolving it before the end of day so
23	we can prepare for tomorrow. Thank you.
24	JUDGE TOREM: No no suspense.
25	He'll be he'll be presented. His his deposition



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1438
1	he doesn't need to adopt. It's not prefiled testimony.
2	I'm sure he was sworn on the record with his answers
3	already. It's been admitted to evidence. And if the
4	Council members have question on that piece of
5	evidence, they'll ask him. He may appear and not have
6	anything asked of him as has occurred with a few other
7	witnesses. So no suspense. He's on the schedule for
8	tomorrow at some point.
9	Any other questions before I introduce Greg Poulos
10	and his exhibits?
11	I'm not hearing any.
12	(Witness Gregory Poulos
13	appearing remotely.)
14	
15	JUDGE TOREM: So good afternoon,
16	Mr. Poulos. How are you?
17	THE WITNESS: I'm fine. Thank you.
18	Thanks for having me.
19	JUDGE TOREM: We're glad to have you
20	here.
21	I'm going to refer to your prefiled testimony and
22	have you go through the process of adopting it today
23	and letting us know if there's any alterations or
24	updates.
25	I believe it's exhibits marked as 1031, 1032. And



there are some cross-examination exhibits, 5904 and 5950, that I think Mr. Aramburu will be going through with you.

He may also have some questions -- or Mr. McMahan might -- about an exhibit that was recently admitted, 5906, that I'm hoping was provided to you over the last hour and a half so that you might be ready to answer questions about that.

9 So I'm going to have you raise your right hand.
10 I'll swear you in, get them adopted. I'll have
11 Mr. McMahan give kind of the 30,000-foot view of what
12 you'll be adopting there, and then Mr. Aramburu has a
13 number of questions.

Mr. Aramburu, I think you've put in for two hours 14 of time today. So at 3:30-ish, 3:45 at the latest, I'm 15 16 going to be putting on the brakes, so be efficient with 17 the time you have. We might take a break in between for five minutes, so let me know when you think there's 18 19 a good time. But around 2:30, 2:24, we'll want a 20 five-minute comfort break. And then I'm going to hold 21 you to that time estimate of 3:45 at the latest, and 22 we'll go from there.

23 Mr. Poulos, if you raise your right hand.
24 ////
25 ////

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Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1	GREGORY POULOS, appearing remotely, was duly
2	sworn by the Administrative
3	Law Judge as follows:
4	
5	JUDGE TOREM: Do you, Greg Poulos,
6	solemnly swear or affirm that all the testimony
7	contained in the exhibits you submitted, 1031 and 1032,
8	and all your answers today will be the truth, the whole
9	truth, and nothing but the truth?
10	THE WITNESS: I do.
11	JUDGE TOREM: All right. Thank you.
12	So 1031 and 1032 are admitted. And our records
13	clerk, Ms. Masengale, will add that to the exhibit
14	list.
15	(Exhibit Nos. 1031_R and 1032
16	admitted.)
17	
18	JUDGE TOREM: Mr. McMahan, a little
19	bit of preview of what we're going to hear, and then
20	I'll turn it over to Mr. Aramburu.
21	MR. McMAHAN: Yeah, Your Honor. And
22	I hate to say this, but Mr. Poulos has not reviewed and
23	has not received 5905, which I think is the same
24	exhibit that was provided from Mr. Apostol.
25	THE WITNESS: I have 5905. I did

Page	1441
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1	not get 5906. I think that was referred to.
2	MR. McMAHAN: Correct. And given
3	the rush of things and, frankly, the untimeliness that
4	we've all talked about this morning, that has not been
5	circulated to Mr. Poulos.
6	JUDGE TOREM: Why don't you send him
7	an e-mail now, if you can. Otherwise, he's going to
8	see it on the screen when Mr. Aramburu displays it.
9	So, Mr. Poulos, I think given your expertise as
10	stated in your materials, you should be able to respond
11	to whatever questions, seeing it for the first time.
12	If not, let us know. If at the break you need to
13	review it before you have questions, we may do it that
14	way.
15	All right. Mr. McMahan, any statement otherwise
16	about introducing your witness?
17	MR. McMAHAN: Yeah, Your Honor, I
18	don't know if it's on my end or the parties' end, but
19	you cut out a bit there. And I'm looking at a
20	not-very-clear screenshot of you, Judge Torem. And it
21	may be on our end. So I'm wondering if others are
22	having
23	JUDGE TOREM: I'll try to look more
24	clear. But it looks good on our end. And we'll go
25	from there.



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1442 What you might have missed when I cut out was just 1 asking if you wanted to introduce your witness, and 2 3 then we can turn him over to Mr. Aramburu so we don't 4 take any more of his time. 5 MR. McMAHAN: Yes. Thank you, Your 6 Honor. 7 DIRECT EXAMINATION 8 9 BY MR. McMAHAN: 10 All right. Dr. Poulos, are you out there still? 0 I -- I am here. Yes. 11 Α 12 All right. Thank you. I see you now. 0 13 Would you please -- well, first of all, I'm going 14 to preface --15 MR. McMAHAN: Just a little bit of 16 prefacing, Your Honor. And I talked to Mr. Poulos 17 about this last night. There are issues that are in 18 play, and there are issues that are off limits as a 19 consequence of the striking orders, so I want to make 20 sure that we all are on the same page there. I think in play -- issues that are in play involve 21 choice of turbine technology, project size, and impact 2.2 23 on surrounding projects. The issues that are off 24 limits, per the striking order or orders, are wind 25 resource potential, economic feasibility and viability,



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1443
1		grid availability, proprietary data, and relying on
2		CETA or other clean energy policy matters.
3		So I talked to I did send that to to
4		Dr. Poulos last night. And he's aware of it, but I
5		just want to make sure this is appropriately framed.
6		JUDGE TOREM: I think that's
7		generally
8		Off mike, please.
9	Q	(By Mr. McMahan) So do you understand that,
10		Dr. Poulos?
11	A	I do. Yes. I've got a list here.
12		JUDGE TOREM: Mr. McMahan.
13		Mr. McMahan, I think that's generally correct. I think
14		the wind resource question might be as to the location
15		of the turbines. But, again, not to go into the
16		economic feasibility. But I think, "Where does the
17		wind blow?" is a key question. But the actual studies
18		and underlying things, it would be just a question of
19		the motivation for where the turbines are sited.
20		I think that's pretty obvious and should be a very
21		small part of the questioning. But otherwise, I think
22		you've adequately and accurately stated the outcome of
23		all the prehearing orders.
24		MR. McMAHAN: All right. Thank you.
25		I just want to make sure we're clear on that.



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1444
1	Q	(By Mr. McMahan) All right. Dr. Poulos, I have your
2		CV here, which is rather extensive. And I will ask if
3		you want to punctuate anything in your own CV before we
4		get going here.
5		I think you're aware of the scope of the
6		questioning here. And and we spent a fair amount of
7		time talking about this over the last couple of days.
8		So I believe that you understand if you have any
9		questions about the scope or any issues of questions,
10		you're free to ask them now, but I think you do
11		understand where we're going here.
12	A	Yeah, I don't have any questions with respect to
13		emphasis about the scope, I don't have any
14		questions. And with respect to emphasis of anything in
15		my CV, I suppose it's important to understand where I'm
16		coming from.
17		My my background is in meteorology and
18		atmospheric science. I've studied the way the wind
19		blows over the surface of the Earth for a pretty
20		lengthy research career. And then I entered the the
21		wind energy business first, so that I've been in the
22		wind that was in 2007. And I've been in the
23		renewable energy business ever since that time.
24		So I serve on some standards committees related to

24 So I serve on some standards committees related to 25 wind energy resource assessment. Might be worth



1		pointing out that there's a international standard
2		that's being concocted at the moment that I'm a
3		participant in, in helping to define that standard.
4		So deeply involved in this kind of work. And
5		that's probably the background. Thank you.
б	Q	Yeah.
7		Then quick snapshot of your educational
8		background, please.
9	A	Oh. Yeah. Sure.
10		Undergraduate degree in 1989 out of Cornell
11		University in upstate New York, meteorology.
12		And then when you get to graduate school, they
13		change the name to something a little more erudite.
14		They call it atmospheric science, and you study
15		atmospheres of planets and various other things.
16		Master's degree from Colorado State University. And
17		after a brief break at Los Alamos National Laboratory,
18		I went back for my Ph.D. in atmospheric science, which
19		I graduated in 1996 with.
20	Q	Thank you, Dr. Poulos.
21		And is it "Poulos" or "Poulos," for the good of
22		the order?
23	A	It's "Poulos." "Pool," as in "swim in the pool."
24		"Poulos."
25		MR. McMAHAN: I wanted to make sure



Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1446 we were all saying it correctly. 1 2 All right. Mr. Aramburu, your witness. 3 MR. ARAMBURU: Okay. Thank you, Mr. McMahan. 4 5 6 CROSS-EXAMINATION 7 BY MR. ARAMBURU: Good afternoon, Mr. Poulos. I'm Rick Aramburu. T'm 8 0 9 the attorney for the community organization Tri-City 10 C.A.R.E.S., and I have some questions today concerning your testimony. 11 12 So let me start out: Rich Simon is going to be a 13 witness for Tri-City C.A.R.E.S. tomorrow. Have you worked with Mr. Simon before? 14 15 Α Yes. And what was the nature of your relationship? 16 0 17 Let's see. So after I left the first job I had in wind Α 18 energy, Clipper Windpower, I joined V-Bar. And Rich is 19 one of the partners at -- at V-Bar. 20 And eventually the two of you separated your business 0 interest; is that right? 21 22 Yeah, I took over V-Bar in December 31st, 2015. Α 23 Okay. Okay. Now, I've read your résumé and other Q 24 materials. So I'm interested in knowing your 25 involvement in this -- in this site to begin with.



1		When did you get involved in what we'll call the
2		Horse Heaven site first?
3	Α	Right. So when I joined Clipper Windpower that was
4		my first job in the wind business, as I've already
5		stated they had a suite of projects already
6		underway, and that included what is now called Horse
7		Heaven Hills by Scout. At the time, it was called
8		Columbia. It was a two-phase project that they had.
9		And there were already some meteorological towers
10		erected at the time I joined Clipper Windpower in
11		was that July 2007, I believe is correct, yeah.
12	Q	Were you involved in the selection of this particular
13		site for a wind farm?
14	А	No. It existed when I arrived. It had already been
15		chosen by Clipper as a project.
16	Q	Okay. And were you involved in the layout of the
17		turbines on the site?
18	Α	Yes. Yes. At that time, I was involved. I served two
19		years in that position before joining V-Bar. During
20		that time, you would routinely get involved in turbine
21		placement activities.
22	Q	Okay. Let's see if I can do this by myself here.
23		Okay. Have I successfully shared the screen?
24		Mr. Poulos, can you see that? Poulos.
25	Α	I certainly can. Thanks. Yes. Thanks. "Poulos."



1 Right. 2 Okay. There we go. 0 3 And there's some lines being drawn on the map. 4 But do you recognize the underlying project here, locations of the turbines? 5 I believe that that's one of the images out of 6 Α Yes. 7 either the filing or maybe the Moon memo. I'm not sure. But, yeah, I recognize the general area, of 8 9 Yes. course. 10 Okay. And I'll represent to you that this is the map 0 out of the Moon memo, Page 11, that describes the 11 turbines and some of the turbines that were removed. 12 13 So were you involved in the detailed siting of the 14 individual turbines that's shown on this -- on this 15 map? 16 Let's see. The best way to answer that is, early in Α 17 the process, I was. Our company as a whole, though, 18 has been involved in that working with the -- the Scout internal meteorology team. 19 20 Okay. But did you have -- there's a particular layout 0 I'll just kind of "hone in" on -- on the 21 here. 2.2 northwest side of the project. There's a bunch --23 bunch of named turbines here. 24 And did you locate these individual turbines, 131, 25 132, 130, all those?



1	A	I I can't say for sure. The last time I worked on
2		the array was I don't know in the range of two
3		years, three years ago. So I'm sure it's been modified
4		by the Scout team and our other meteorologists on staff
5		since that time. But it's it's of similar nature
6		to to what I'm familiar with, I would say for sure.
7	Q	Okay. And it's my understanding that the Moon memo
8		included, amongst other things, a removal of a certain
9		number of turbines.
10		Is that your understanding?
11	A	Yes. I I read the memo, and I see the green
12		markings there that indicate the turbines that were
13		removed. And I'm familiar with that.
14	Q	Okay. And were you consulted with regard to the
15		selection of turbines to be removed?
16	Α	To my knowledge, our company was not contacted at all,
17		and I certainly was not.
18	Q	Okay. So this was a Scout decision as opposed to a
19		ArcVera decision?
20	A	That is correct.
21	Q	Okay. Okay.
22		Now, have you ever been asked to design a layout
23		of turbines on the site that would minimize the visual
24		impacts of of the individual turbines?
25	A	I don't recall being given that instruction.



1		There's some discussion of the there was at
2		times discussion of the far left-hand side of that
3		figure, there's a ridgeline that is prominent. I think
4		that was excluded at one time. I don't know if it was
5		exclusively visual, but there may have been a a
6		cultural artifact in the far left, upper left-hand side
7		there. But that's that's that's the only
8		recollection I have of anything close to what you're
9		suggesting or asking.
10	Q	Okay. So just so we get ourselves straight right and
11		left, sometimes it's confusing.
12		We talking about east or west?
13	A	On the west side, there is a prominent terrain feature.
14		There's this Chandler Butte.
15	Q	Okay. And can you see my cursor here, or my hand, so
16		to speak?
17	A	Yes, I can.
18	Q	Okay. Chandler Butte is what you're talking about?
19	A	Yeah. Yeah.
20		So there was
21	Q	And there was discussion
22	А	some talk about there was some talk about either
23		a cultural artifact or there may have been a discussion
24		once or twice over the years about the viability of
25		turbines due to construction, visibility, et cetera.



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1		That's my only recollection, though. Nothing of the
2		current array, in particular.
3	Q	Okay. And was there discussion about removing some of
4		the turbines here, 200, 264, very, very northwest
5		corner of the project?
6	А	Not to my recollection, no.
7	Q	Okay. Do you design a layout of this project that
8		that would maximize the protection of views and visual
9		resources?
10	A	Did you say could I, or
11	Q	Could have. Could you?
12	A	have I done that?
13		Could?
14	Q	Yeah.
15	A	Given given inputs as to what
16		MR. McMAHAN: Your Honor, I'm going
17		to object to this. This calls for a question for the
18		Scout team. This is not within Mr. Poulos's area of
19		expertise nor has he and he's testified that he was
20		not involved in those decisions.
21		JUDGE TOREM: Mr. Aramburu, any
22		MR. ARAMBURU: No, I'm simply asking
23		him if he was given that and given any of those
24		responsibilities. I think it's a fair question.
25		Visual resources. He does talk about visual resources



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

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1		in here, in his testimony.
2		JUDGE TOREM: Well, let's not
3		belabor the point. I think, pretty clear he said he
4		hasn't worked on this since a couple years ago. That's
5		well before any of the amendments or changes to the
6		application in any form.
7		So I'll have you rephrase your question generally
8		so we can move on, not spend any more of your time
9		chasing after things he clearly hasn't done.
10		MR. ARAMBURU: Okay.
11	Q	(By Mr. Aramburu) So I understand, Mr. Poulos, that
12		you Poulos, that you were not involved in the
13		amendments to the site certificate application?
14	A	Correct.
15	Q	Okay. Okay. And I have just a few questions about
16		your testimony here, and I'm going to put it up on the
17		screen.
18		And were you able to see that, Mr. Poulos?
19	А	Yes. "Introduction and Qualifications."
20	Q	There we go. Okay. Thank you. Thank you.
21		So I had a couple of questions about your
22		your your testimony.
23		Over on Page 12. Scroll fast.
24		We're going to get there, Mr. Poulos.
25	A	It's okay.



1		(Simultaneous speaking.)
2		
3		MR. ARAMBURU: Okay. Good. Thank
4		you.
5	Q	(By Mr. Aramburu) So Page 12, Lines 13 to 15, sentence
6		there: Given the rather uniform dominant west to east
7		or southeasterly wind direc or northeasterly wind
8		direction, expected the wind turbines would have a
9		common profile.
10		I've looked at the windrows for this area. I
11		don't see any predominance of northeasterly winds at
12		all.
13		Am I wrong about that?
14	A	Not no, you're not particularly wrong, no. The
15		prevailing wind direction is west-southwesterly from
16		220, 230, or 240 degrees, depending on the
17		meteorological equipment. And there's a small
18		secondary peak from the northeast, which is what I was
19		trying to refer to. It's actually north-northeast.
20		But they're they're kind of like this.
21		South-southwest and north-northeast. That was why it
22		was in parentheses. It's not the dominant direction,
23		but
24	Q	Okay. And you've had a chance to look at the
25		Exhibit 5904?



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1454
1	Α	Yes. I saw that. Yep.
2	Q	Okay. And you've had a chance to read it.
3		Do you disagree with any of the information that's
4		contained within this exhibit?
5	Α	The the I don't have any any concern with the
6		presentation of the Pasco airport data. I think the
7		interpretation of what it means for the the way the
8		wind farm would be affected is off. Because the Pasco
9		airport measurements aren't the same as the
10		measurements up on the hills.
11		So I don't know if that that counts towards
12		your question. But just the interpretation of of
13		how the wind farm would be impacted
14	Q	So you
15	Α	because those winds aren't necessarily what occurs
16		up on the hills, yeah.
17	Q	So you have some meteorological data that indicates
18		this is inaccurate, the Pasco airport windrows is
19		inaccurate?
20	A	No. No. No. Pa I have no doubt the Western
21		Regional Climate Center has the the windrows right,
22		and what's presented there I mean, I haven't gone
23		and checked on the on on their Web page lately to
24		pull that data down, but I think that windrow is
25		accurate for the airport.

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1		But in complex topography, wind directions vary
2		pretty significantly. And because of of the
3		distance from the valley bottom where the Pasco airport
4		is close to the river, and the hills and the irregular
5		topography in the vicinity of the project, you wouldn't
6		expect that particular windrows to represent the winds
7		that would be impacted would be felt, if you will,
8		by turbines constructed on the Horse Heaven project.
9	Q	So do you have a different windrows for Horse Heaven?
10	Α	Well, I have access to proprietary data of Scout's. So
11		yes.
12	Q	And that's not data available to us, is it?
13	Α	No.
14	Q	Okay.
15	А	It's related to the economic value of the project, so
16		it's very sensitive information.
17	Q	Okay. Back to back to Page 12, there's a on this
18		page, you are responding some testimony to a
19		Mr. Apostol
20	Α	Mm-hmm.
21	Q	who testified earlier today.
22		Did you did you happen to listen to his
23		testimony?
24	A	I did not listen to his testimony.
25	Q	Okay. But you're responding to his written testimony

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Horse Heaven Wind Farm

1 here, correct?

2 A The written. The written. Yes.

3 Q Okay. Last sentence on Page 12 says, "Removing wind 4 turbines that have been carefully sited...on wind 5 resources and other factors would only serve to reduce 6 the energy production of the project, impacting 7 financial calculations and feasibilities."

Is that an accurate statement for you? 8 9 Yes, it -- yes, it is, yeah. The removal of turbines Α 10 reduces the amount of energy produced, which affects 11 the amount of money that would be generated by the project. So I don't know how it would affect it. 12 I'm 13 not running the financial models and economics or, you 14 know, off the table for this discussion, but I do 15 consider that a accurate statement.

16 Q So do I understand that the siting of the wind turbines 17 and the number of wind turbines is all done to maximize 18 use of the wind resource?

19 A It's not quite that simple.

Within a bunch of constraints, right? So -- so
there's certain landowners participating. You might
start with a large palette. You don't know which
landowners are going to participate. And then you go
through a series of processes as -- and we get feedback
from the developer, that if we're helping design the



array -- and I'm talking in general terms with any 1 2 development project globally -- you get constraints. 3 You might have wetlands. You might have environmental 4 constraints due to birds, bats, and any endangered 5 species. Roadways, transmission lines. Off-limits areas that landowners just designate because they don't 6 7 want turbines placed there for agricultural or other 8 reasons.

9 There's a number of factors that come into play. 10 But within all that, once you've kind of bound 11 everything, yes, then the -- the general goal is to 12 maximize the energy production across the project. 13 I think your answer was rather general, but -- but the Q 14 location of the wind turbines in particular locations 15 on this site was not something that you did, as I understand? 16

17 A Yeah, not for a couple years, I haven't literally put
18 dots in a map or reviewed the dots in the map, other
19 than, yeah, reviewing reports related to the project.
20 Go ahead. Yeah.

21 Q Well, did you put the dots on the map before two years 22 ago?

A Yes, I did. Yes. And when I was at Clipper in 2007, I
put dots on the map for this project. So it's gone
through a number of years of development.



1		Every time there's a new turbine model released
2		that has desirable characteristics for a wind farm,
3		you're often asked, and sometimes I would participate
4		in placing the dots on the map, yeah.
5	Q	So were the dots that you placed on the map for Clipper
6		the same dots as we have on the map now?
7	A	No. The turbine models were much different at that
8		time.
9	Q	And the Clipper Clipper project, I understand, was
10		not the same exact property?
11	A	Now you're getting back there in history. I don't know
12		if they had the same landowner boundary. I can't
13		recall.
14		In the definitely in the same area. But
15		whether it extends as far east, west, north, south,
16		that could well have changed and then likely did
17		change.
18	Q	Okay. Over on Page 15, statement on Page 4, you're
19		talking about Mr. Sharp's testimony now. And he and
20		I'm reading from Lines 8 to 15 on Page 15 of your
21		written testimony. And he talks about very cold days.
22	Α	Mm-hmm.
23	Q	And it says the examination of on-site wind data, five
24		years of data on the escarpment, shows that the coldest
25		1 percent of days, the overall wind speeds are reduced



1 by 10 percent. And I understand that that is based upon the 2 3 proprietary meteorological data that you have? 4 That's right. Α 5 Okay. Now, I understand that oftentimes during the 0 very cold winters and cold spells we have in the 6 northwest, that there are multiple days in which the 7 wind doesn't blow at all, north, south, east, or west; 8 9 is that correct? 10 It certainly -- certainly can not blow at all in -- it Α 11 depends where you are, so it's complex topography. 12 So in those high-pressure system moments where you 13 get calm, clear days generally, the winds at elevation 14 can be dramatically different than, say, felt at the 15 airport station, for example. That's one of the times 16 where conditions can be quite different. That may 17 relate to why you're -- you're hearing different things 18 about that. You know, meteorology is quite complex, and flow 19 20 in complex terrain, river valleys, hills, hot change in elevation, varies quite a bit. 21 2.2 But I have looked at data -- and I suspect you have as 0 23 well -- that comes from BPA --24 Α Mm-hmm.

25 | Q -- that says how much wind production is going on, on a



five-minute basis. 1 Am I right about the existence of that data? 2 3 Oh, I thought you were referring to meteorological Α data. 4 You're referring to energy production data from 5 some source? I'm not familiar with the five-minute 6 7 production data, no. Okay. But are you aware that BPA does keep track, on a 8 0 9 time basis, of the production of wind energy in the 10 Northwest and in the state of Washington that is publicly available? 11 A As a whole. I actually was not aware that five-minute 12 13 data was available, but it's great to hear. 14 I'll send you the link, Mr. Poulos. Thank you. 0 15 The -- so a couple of questions here about the project, itself. 16 17 And so I put up for your review, Mr. Poulos, 18 Page 2-101 of the amended or the updated site 19 certification agreement. 20 Have you seen this page? Yes, I have. 21 Α 2.2 Did you help write it? 0 23 I did not. Α 24 MR. McMAHAN: Excuse me. Excuse me, 25 Mr. Aramburu. If I can interrupt you.



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

1		You're asking about information from the site
2		certificate agreement. Are you talking about the
3		application for site certificate?
4		MR. ARAMBURU: I am, Mr. McMahan.
5		Thank you for the correction. I appreciate it.
6		MR. McMAHAN: All right.
7	Q	(By Mr. Aramburu) So this is Page Page 2-101 of the
8		amended we'll go up at the top the updated EFSEC
9		application for site certification. Okay?
10	A	Right. Yeah. I recall that one.
11	Q	Okay.
12	A	Yep.
13	Q	Okay. Did you have did you have a hand in preparing
14		this?
15	A	I did not.
16	Q	Okay.
17	A	And to my knowledge, to my knowledge, no one in our
18		company was involved either.
19	Q	Okay. And this there's Phase 2A and Phase 2B of the
20		project.
21		Do you see those phases?
22	A	One second here.
23		Yes, I do. I see the two phases. Yeah.
24	Q	Okay. And were you consulted about which phase might
25		be the best?



1 I was not. Α 2 Okay. I wanted to ask you some questions about --0 3 about wind turbines and wind speeds. 4 Okay. Α 5 And I recall in your testimony here that -- kind of 0 looking for it here -- that what goes on, on one wind 6 turbine may affect the next wind turbine down the line. 7 Is that -- is that a physical factor in wind 8 9 turbine production? 10 Yes, I -- yes, it is, if you're referring to what I Α 11 think you are, which is generally referred to as wakes. 12 In our firm, we call that now wind farm atmosphere 13 interaction. But, yes, each wind turbine reduces the 14 wind speed as it passes through the turbine and leaves 15 behind a wake. An analogy -- it's not a perfect analogy -- might 16 17 be a rock in a river that interferes with the -- the 18 flow of the river, and you'll see the eddies and slower area of -- of water behind a rock in a river in the 19 20 same way behind the obstacle, the wind turbine -- of course, it's spinning, and it's a different physical 21 process -- also creates slower winds behind the wind 22 23 turbine.

It takes some time for those winds to recover to a reasonable speed, and so that's an important factor not



	[
1		only in the energy production, but in the so but
2		that therefore means it's an important factor in the
3		overall design and optimization of a wind farm to
4		maximize energy production.
5		You don't basically, you don't want the wind
6		farm turbines too close if the wind is dominant from a
7		certain direction in particular. But it really depends
8		a lot on the site-specific meteorological data.
9	Q	Okay. So I'm putting up on the screen Exhibit
10		5905_X
11	A	Oh, yeah.
12	Q	which which is listed to be a document that you
13		prepared October of 2022, just recently, regarding
14		long-range wind losses for apparently proposed
15		development in South Africa.
16		Is that a paper that you prepared?
17	A	Yes, I believe that I presented that in in Cape Town
18		at a wind energy conference, technical.
19	Q	And does this paper focus on downstream losses of
20		energy due to upstream wind turbines?
21	A	It does.
22	Q	Okay. And I understand from reading through this
23		and you're obviously much more familiar with it than I
24		am is I'm looking on Page 3 of the document now,
25		5905, and this basically explains that wind comes in



Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1464 fast and goes out the other side half as fast. 1 Is that -- is that an accurate statement? 2 3 It's -- it's not always exactly half. That was Α representative of a kind of typical value. But -- but, 4 5 yes, it is slower behind the turbine as the wind passes through. That's how it generates energy ultimately. 6 7 Q Okay. So half as fast is a good rule of thumb? Rule of thumb. 8 Α 9 So -- and on Page 4, you're talking about wind turbines 0 10 getting much bigger. Mm-hmm. 11 Α And I see we're not dealing offshore wind turbines 12 Ο 13 here, although you were in South Africa. 14 But here, on-shore wind turbines 2019. Is this 15 about -- the one on the left there, the 2.5-megawatt turbine, is that about what we're going to have up here 16 17 on Horse Heaven Hills? 18 I -- I believe approximately, yes. In the -- in the Α 19 application, there are two sets of turbine scenarios 20 presented, so it's not entirely certain. And do you --21 Q 22 But yes. Yeah. Α 23 Do you have a recommendation as to between those two? Q 24 Well, those -- that is a very generic picture. That is Α 25 not sufficient information to make a recommendation on.



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1		It is it is just a piece of the puzzle. You need
2		technical specs, and then you need to do a bunch of
3		analysis to make that recommendation. But but, in
4		general, in general terms, I can't I can't make a
5		recommendation just on that picture that you displayed.
6	Q	And I want to be more specific as to this, this
7		project.
8	A	Mm-hmm.
9	Q	Let's see. Got to go up just a little bit here.
10	Α	That's fine.
11	Q	Okay. Hope everyone isn't getting dizzy with all this
12		scrolling around.
13		So, Mr. Poulos Poulos excuse me Page 2-17
14		of the ASC has potential turbine specifications.
15		Do you see that page?
16	A	I do, yeah.
17	Q	And based upon your background and experience, is it
18		more likely that Turbine Layout 1, Option 1, is going
19		to be built over Turbine Layout Option 2?
20	А	It's impossible to say. Because it's really a
21		commercial decision. Depends on a lot of factors that
22		go into financial models that we don't run on behalf of
23		Scout Clean Energy. So I can't really I can't
24		really say. It could be the could be, but I
25		don't you know, and those could work.



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

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JUDGE TOREM: We're back on the record. And I apologize. We had about a five-minute, we'll call it a power outage for what we have today, where Microsoft Teams shut us down. We've now restarted the meeting, and everybody's had an opportunity to rejoin. We've got the full Council back

that we had before, and as far as I can tell, all the parties and participants.

9 Let me just give a quick ask for any of the 10 parties, if they see somebody that's not listed that 11 you wanted in the meeting. I thought I saw everybody 12 come up in the participants. Let me know. But 13 otherwise, we're going to get started here.

Mr. Aramburu, back to you. And we'll look for a break probably, that we start, in about 20 to 30 minutes, if you get to that point, and then we'll come back on and finish the remaining hour of your time from there.

19 Q (By Mr. Aramburu) Okay. Mr. Poulos, before we were so 20 rudely interrupted here, we were looking at Page 2-17 21 of the amended site certification --

22 A Mm-hmm.

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Q -- application for site certification, and I was asking
you what the most likely turbine would be under
Layout 1.



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1468
1	And do you have an opinion on that?
2	MR. McMAHAN: And, Your Honor,
3	that's where I jumped in with an objection, and so that
4	means I'm probably responsible for everybody going
5	down, because I was busy doing that.
б	The objection is that Mr. Poulos has already
7	testified to this. He was not he is not the
8	designer of the project. He's not selected the
9	turbine. That is a business decision of Scout Clean
10	Energy.
11	JUDGE TOREM: Are you saying that he
12	can't comment, in his expertise, what he thinks about
13	that question?
14	I mean, I know he's not making the decision. I
15	think that was posed as a hypothetical, wasn't it,
16	Mr. Aramburu?
17	MR. ARAMBURU: It was.
18	MR. McMAHAN: I don't see where that
19	goes as a hypothetical. Thank you, Your Honor.
20	JUDGE TOREM: Yeah, I don't want it
21	to stray into any, you know, economic viability
22	questions, but I think it's just a what-if, and he's
23	talking about the turbine wind wake and based on the
24	model.
25	Is that right, Mr. Aramburu?



1		MR. ARAMBURU: That's correct.
2		JUDGE TOREM: All right. So restate
3		that question. Mr. Poulos, after all this exchange,
4		needs to know what you're asking.
5	Q	(By Mr. Aramburu) What I'm asking, Mr. Poulos, is that
6		under Turbine Layout Option 1, would you think it most
7		likely that the GE 3.03 turbine or the GE 2.82 turbine
8		would be employed on this project?
9	Α	Well, based on my experience, given the hypothetical,
10		they're both quite productive turbines. So hmm.
11		Again, without the technical specs, those are both
12		pretty productive turbines, so either one may come out
13		ahead in terms of energy production and wakes based on
14		those detailed technical specs, again which don't
15		really show up here.
16		Turbine power curve, the turbine thrust curve, the
17		cutout wind speeds, the temperature cutout spee
18		temperature cutouts sorry low and high
19		temperature cutouts.
20		So the it's a more intricate question. But
21		those are both both via good, viable options, I
22		would say, for that generation of turbines. Those have
23		both been available on the market for some time.
24	Q	Not to be facetious, but in these selections, other
25		things being equal, the bigger the better?



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1470
1	А	No. No, not really. Gosh. You know, there's so many
2		factors that come in there.
3		With well, it gets into the economics, you
4		know. So so maybe we shouldn't discuss. But let's
5		just say the price of the turbine matters a lot too.
6	Q	Okay. Okay. Let's not let's not go further with
7		that issue.
8		So I want to go back to your paper that you
9		delivered.
10	A	Yeah.
11	Q	And, again, I want to be respectful to you.
12		I see in this paper and other papers you've
13		delivered on the subject that that you're trying to
14		get people to use your new modeling that you have that
15		you call wind parameter what is it? wind
16	A	Wind farm parameterization.
17	Q	Wind farm parameterization.
18		And we'll just call it "WFP"?
19	A	Mm-hmm.
20	Q	And are you attempting to persuade people to use the
21		that modeling in consideration of wind farm locations?
22	A	Well, to some degree, yes. But mainly as regards
23		long-range wakes. So that that refers to very
24		distance. Wind farms that previously had been
25		considered too distant to have a material effect, and



so the wind farm parameterization wasn't developed by our company. It is part of a piece of publically available software from the National Center for Atmospheric Research that's used widely in the industry by many industry participants, including our company.

We happen to have distinct experience in that area and hired a Ph.D. student from a local university, the University of Colorado, to study the usefulness and accuracy of that parameterization for real commercial purposes, and we found it to be quite useful.

11 So the purpose of this presentation was just to 12 relay to the folks that are planning to develop South 13 Africa's wind -- offshore wind energy industry --14 there's no offshore wind farms in South Africa at the 15 moment -- about to be wary of these long-range wakes and the design in choosing areas of the ocean to pick 16 17 based on the way the wind blows so that there's no 18 ad- -- there's no excessive adverse impact at long 19 range.

20 So that's -- that was the nature of that 21 particular presentation.

Q Okay. So I'm looking at Page 5 here, and there's -there's a diagram here that shows wind turbines and
what I take to be the wakes from those wind turbines.
Is that -- is that what this simulation, I suppose

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Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1		we would call it, is designed to tell us?
2	A	Right. Yes. So this is an actual photograph of of
3		an offshore wind farm in Europe where they took some
4		pretty spectacular pictures where the turbine wakes are
5		kind of visualized by the fog being stirred up as it
6		passed through the wind farm.
7		Yes, the and so, yes, the wind farm
8		parameterization that that we're talking about
9		applying to wind farms and we validated against some
10		real cases is what I was talking about in the
11		presentation meant to capture not really these close-in
12		ones. This is more a picture of within a wind farm
13		wakes. That's handled really well with existing
14		software packages. The WRF WFP does a better job with
15		very long-range wakes.
16	Q	Okay. And this is an actual photograph.
17		Can you tell me what the distances are between the
18		turbines as shown on this photograph on Page 5 of
19		Exhibit 5905?
20	Α	Sure. Yeah. I think these wind farms I think this
21		is, I believe and this is just purely from memory.
22		I believe this is the Horns Rev wind farm, which is
23		roughly seven by seven rotor diameter spacing, I
24		believe.
25	Q	Seven rotor diameters sort of lengthwise and seven



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1473
1		rotor diameters well, here. Let me do it like this.
2		Between the two turbines is seven rotor diameters?
3	А	Let's see. Yeah, I guess we can kind of estimate that
4		by eye. Let's see.
5		One, two, three, four yeah, maybe that's more
6		like eight.
7	Q	Okay.
8	A	Yeah, approx approximately you know, we can look
9		that up or measure it on Google Earth, if needed.
10		But but, yeah, approximately seven seven to eight
11		rotor diameters in a grid, gridded pattern. There's no
12		topography to work with there in landowners, so you
13		have some flexibility in the preparation of
14	Q	Okay. And
15	A	offshore yeah.
16	Q	Okay. Excuse me.
17		And the distance between where my hand is, the
18		upstream wind turbine, and the second turbine
19		downstream, do you know what that distance is?
20	A	I think it's the same. I think this is a regular grid
21		of turbines.
22	Q	So rotor diameter times seven?
23	A	I believe so. It's I believe so, yeah.
24	Q	Okay. We're not holding you to detail here. I
24		
24		understand that.



Horse Heaven Wind Farm
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1	A	Thank you.
2	Q	Okay. But let's go back to the to the project that
3		we have
4	A	Right.
5	Q	now.
6		And this project is laid out in a more or less
7		linear fashion from northwest to southeast.
8		Is that fair to say?
9	A	Yeah. Yeah. In general terms, yep.
10	Q	Okay. And there and on the drawing, there is an
11		arrow that says that the wind resource crosses
12		approximately five miles and five turbine strings.
13		Do you see that?
14	A	I do. Yeah.
15	Q	Okay. Now, the modeling that you're talking about, the
16		WFP modeling, was that used in any fashion for the
17		Horse Heaven project?
18	A	It was not, no.
19	Q	Okay. And was there any modeling done down here
20		you're familiar
21	A	By the way, I just a just a little correction.
22		I just measured by eye. I I think I think
23		that five miles, which would be ten kilometers I'm
24		sorry would be eight kilometers, is a little long.
25		I think it's more like four miles, 6 6.5 kilometers

Γ



1		or so.			
2		In any case, I get the point. Cross crosswise,			
3		the widest spot, roughly five miles, we'll call it.			
4		But I think it's closer to four. But in any			
5		technical detail.			
6		Please go ahead. Sorry. You were you were on			
7		a more important point. Go ahead.			
8	Q	I'm not sure it was more important.			
9		But was there any you're familiar with the Nine			
10		Canyon project?			
11	A	Yeah. Yeah. Its proximity to Horse Heaven, yeah.			
12	Q	And and is that generally in the location where I've			
13		got my hand going?			
14	A	It is.			
15	Q	Okay. Was there any effort to estimate the impacts of			
16		wake turbulence on the production in the Nine Canyon			
17		project?			
18	A	Not not by our company on behalf of Scout Clean			
19		Energy.			
20	Q	Do you know if it was done?			
21	A	I don't. I don't know.			
22	Q	Okay. Now, and looking at your materials here, I want			
23		to go up to just kind of where this line is. And we			
24		have some we've got a scale on here, so we can			
25		measure it if we want to, correct, Mr. Poulos? Measure			



		In Record of Proceedings, Adjudicative Hearing - Adgust 24, 2025 Page 1476
1		the
2	A	I'm sorry.
3	Q	distance?
4	A	Sorry. One more time.
5	Q	I said, we've got a scale down here at the bottom. We
6		can measure things, if we like, right?
7	А	We do.
8	Q	In miles?
9	А	Yes.
10	Q	Okay. But we don't need to do that for this question.
11		And that is, given the the impacts of wake
12		turbulence, wouldn't you expect the production of
13		turbines downstream here to be impacted by the upstream
14		turbines?
15	A	Yes. And that would be handled by the wake or wind
16		farm atmosphere interaction models run during the
17		course of energy calculations for a client in general,
18		but overall, yeah.
19	Q	Okay. I'm not going to ask you the outcomes or the
20		results, but to ask you whether that modeling was done
21		for this project.
22	А	Yes, it is a standard practice in wind resource
23		assessment to run wake or wind farm atmosphere
24		interaction models, and it was done for this project by
25		our company.



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

	verba	In Record of Proceedings, Adjudicative flearing - August 24, 2025			
1	Q	Okay. And when was that done?			
2	A	I think the most I think the most recent assessment			
3		we've done for this project was dated November '22. I			
4		can look that up, but that's my recollection.			
5	Q	And do I understand that correctly that that is			
6		considered to be proprietary information, not			
7		disclosable to TCC?			
8	A	Certainly it contains information that's directly			
9		related to the economic viability of the project from a			
10		third-party independent consultant, and we keep our			
11		clients' data private. So we couldn't we couldn't			
12		share it unless Scout were to give permission to share			
13		it.			
14	Q	Well, they're not willing, so			
15		So, but let me ask the question here.			
16		We've got some turbines down here, 12, 14, 15, 16,			
17		17.			
18	А	Yeah.			
19	Q	Would those turbines produce less energy in a southwest			
20		wind than the turbines that are upstream, 125, 129,			
21		130?			
22	A	Hmm. You know, it's that's a great that's a			
23		great question.			
24	Q	Thank you.			
25	А	It's entirely possible they could produce less than the			



upwind turbines. The upwind turbines are seeing wind that is free stream; that is, it's unaffected -- except for something we call blockage -- by other turbines, and then wakes are produced as you move from string to string or row to row, if you want to use that terminology. But as you move to the northeast, following your arrow there.

8 So that back row, that is -- I'm sorry -- the 9 northeast row could produce less for that reason, the 10 accumulated effect of multiple wakes, but it could also 11 produce more for some kind of trickier reasons.

12 The topography there is decreasing in -- in 13 elevation, but one of the complexities of meteorology 14 is that occasionally you get acceleration downhill and 15 downwind. So it's possible that while the wakes 16 decrease the wind, the -- the wind, itself, there is 17 naturally higher, which produces an offsetting effect.

And then there are other even more complicated atmospheric kinds of things that might cause wind to, the term we might use is mix downward from above, higher wind speeds, and hit that back row at the same time.

23 So I can't say off the top of my head for sure, 24 every single time. It depends on atmospheric structure 25 and other complexities at any given moment in time.



1		But it's certainly possible they'll produce less. And			
2		it may be a greater than 50 percent chance or even 80			
3		percent chance. But I I'd really have to do the			
4		the time series analysis to really figure figure			
5		that out. But the the average production could be			
6		lower.			
7	Q	Okay.			
8	Α	Certainly.			
9	Q	Now, and then so also on the on the map here, where			
10	you have prevailing wind direction, December-February.				
11	And I understand from the airport windrows that				
12	that the northwesterly winds, Pasco Tri-Cities Airport,				
13	that we have on the same drawing, northwest winds,				
14	during the wintertime, during December, January,				
15		February, you indicated some reluctance to use that			
16		data.			
17		Is there do you have any better data than that			
18		about the change in wind direction?			
19		MR. McMAHAN: I would object, Your			
20		Honor, if he's seeking proprietary information here.			
21		The Pasco data, I believe, is the data that we have in			
22		hand.			
23		JUDGE TOREM: I'm sure			
24		Mr. Aramburu's being careful not to request any			
25		proprietary data.			



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1		So let's keep the answer away from that,		
2	Mr. Poulos. If you can answer the question.			
3	THE WITNESS: Sure. Would you			
4		repeat the question, please.		
5	Q	(By Mr. Aramburu) Previously, you indicated some		
6		reluctance to rely upon the Pasco airport data because		
7		of more localized conditions.		
8		My question to you is: Do you have any better		
9	information that would indicate the prevailing winds			
10	during December, January, and February would come or			
11	not come from the northwest quadrant?			
12	A Let's see. So we have access to the proprietary data			
13	from the project, like we do from many wind projects			
14	and the world, and that is generally considered better			
15		information.		
16		Quite often airport data, especially in complex		
17		topography, is inaccurate, so not representative of		
18		what would be occurring where the turbines are. So I		
19		think that indicates why I'm reluctant.		
20		And earlier in the in the presentation, I		
21		actually put my hands up and sort of showed what the		
22		the windrows really looks like. It's not like it's		
23		not like the Pasco airport experiences. And those		
24		that meteorological tower at the Pasco airport is ten		
25		meters aboveground. These wind turbines are tens of		



Verbatim Record of Proceedings, Adjudicative Hearing	j -	· August 24, 2023
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1	meters aboveground. Their hub heights are 90 meters				
2		or it's in that table you showed.			
3	So there's a number of reasons why airport data is				
4		not representative of what would be occurring on-site.			
5		And, yes, we do have access to the proprietary data.			
6	Q	Okay. Without getting into the proprietary data, is it			
7		fair to say that the wind direction generally changes			
8		during the December, January, February time frame from			
9		other times of the year?			
10	Α	Yes, it does. Not to the indicated direction, but it			
11		does change.			
12	Q	Okay. Okay. We're fooling around here with			
13		proprietary data.			
14		So so if the wind is really coming from the			
15		northwest as shown here, the downstream wake turbulence			
16		effects that come out of your WFRP model would would			
17		be useful in looking at turbines that are 10 to 15			
18		miles downstream, correct?			
19	A	Well, not necessarily, no. We haven't found that in			
20		our studies. We're testing it for that purpose and			
21		hoping it will be able to do internal wind farm			
22		atmosphere interaction studies accurately, but we've			
23		only confirmed its accuracy once you're past the wind			
24		farm.			
25		So so if there's a cluster of turbines that are			

253.627.6401



all close together, our current existing tools have 1 been validated in the industry to do well at that 2 3 circumstance. So what you're saying I wouldn't say is 4 The WRF wind farm parameterization method that I true. describe in that South Africa exhibit works well once 5 you're well away from the wind farm, better than our 6 current -- current models commercially available from 7 our competitors and ourselves, and then -- somebody got 8 9 an update.

10 The -- so, no, I wouldn't -- I wouldn't recommend 11 using WRF WFP method to determine, for example, the 12 wakes of -- of Horse Heaven when the wind's from any 13 direction.

14 But if you were looking at, say, let's say there was another wind farm 10 kilometers or 20 kilometers 15 away on the other side of the valley, let's say, you 16 17 might be concerned with the wakes at that kind of a 18 range and be able to calculate them using that particular method. Otherwise, I'd just recommend using 19 20 currently existing known models in the industry that have been validated for that purpose. 21

Q But as a general matter, if the winds coming from the northwest, as we're talking about here, these -- these downstream turbines, location of 8, 4, and 5, those would be impacted, would they not, by the upstream



turbines?

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A If the wind were from the northwest, yes. That doesn't happen very often, but -- so it doesn't really affect the array design all that much. When the wind isn't too often from any given direction, you don't ignore it. You do your best to work around that, but you -you don't generally let it materially affect the array design.

9 MR. ARAMBURU: Judge Torem, I am 10 just about at the end of what I'm going to -- I think 11 I'm going to ask the witness. So could we take a bit 12 of an early break here? And I think I'll be done very 13 quickly after that.

14JUDGE TOREM: Okay. Let's do that.15Let's take a break till 2:50. We'll come back.

And, Mr. McMahan, this will be your chance also to get ready for any redirect. I'll ask the other parties if they have questions and the Council members after your redirect.

We'll be on recess till 2:50. Thank you.

(Pause in proceedings from 2:41 p.m. to 2:50 p.m.)

JUDGE TOREM: We're back on record.

It's now 2:50.

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Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Verba	tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1484
	Mr. Aramburu, did you have time to decide if you
	had any additional questions?
	MR. ARAMBURU: Well, as much as I
	would like to ask Mr. Poulos about the winds in Hells
	Canyon and Salmon River, where I've spent many days on
	the top of a river raft, but that will be for another
	day. So I don't have any further questions.
	Thank you, Mr. Poulos.
	JUDGE TOREM: Yes, I'm aware of your
	friendly association with the Columbia Gorge. That's
	just fine.
	MR. ARAMBURU: This is Snake River
	country.
	JUDGE TOREM: Yes.
	Mr. McMahan.
	MR. McMAHAN: Yeah. Thank you, Your
	Honor.
	REDIRECT EXAMINATION
	BY MR. McMAHAN:
Q	Thank you, Dr. Poulos, for your testimony. I like to
	ask this kind of blanket question.
	Were you do you feel that you were able to
	answer all the questions that were asked, or do you
	have anything to add to any of the questions that were



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1		asked at this point in time?	
2	A	No. I think I got I think I got the points out that	
3		needed to be made rather thoroughly. Thoroughly enough	
4		for everybody to understand.	
5	Q	All right. I tend to agree.	
6		So I want to take you to this supercool photo that	
7		you have in front of us from your PowerPoint	
8		presentation.	
9		Can you explain kind of the difference between	
10		ocean conditions here with flat water and kind of the	
11		characteristics here versus a project like Horse Heaven	
12	with a lot of topography and terrain?		
13		Are you implying that there's kind of this a	
14		uniformity based upon this ocean picture, or could you	
15		maybe explain just a little bit better about how	
16		topography and other conditions fit into this question	
17		of wake effect and how and how that affects the	
18		project, without again, without entering into	
19	confidential information?		
20	A	Sure. And I if you're showing a picture, I can't	
21		see it. I'm not seeing your screen, Tim, if that's	
22		what your	
23	Q	Yeah, so it's the cross-examination Exhibit 5950. I'm	
24		really just taking you to the to the photo, would	
25		be	



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1486 The photo. 1 Oh. Okay. Α 2 That's where I'm taking you too. And I don't --0 Okay. 3 Α -- (videoconference technical difficulties) show it 4 0 5 aqain. Yeah, no --6 Α 7 MR. ARAMBURU: I'm in -- I'm in a helpful mood this afternoon. I'll put it up. 8 9 That's very kind of MR. McMAHAN: 10 you, Rick. 11 MR. ARAMBURU: There we go. So --12 THE WITNESS: 13 MR. ARAMBURU: Okay. 14 THE WITNESS: So, yeah, right, no, 15 condition -- conditions offshore, as you would expect, are much different. There's no roughness elements, as 16 17 we call them, vegetation, hilltops, terrain, canyon 18 structures, rivers, those sorts of things. So the 19 wakes tend to persist differently offshore than on 20 shore for those reasons. It's actually an active area of research and discovery for the whole industry. 21 22 But -- but, yeah, the complex topography tends to 23 break up the wakes, more or less. So undulations in 24 topography, frictional elements like trees or other 25 rough, rocky areas will break up the wakes. So they're

Horse Heaven Wind Farm



have a model that is sophisticated enough to do so.

Q Okay. Got it. Great. Thank you.

5 Can you -- I don't know if you're aware of this, 6 but can you compare the rotor diameter separation in 7 various projects in the Northwest and really kind of 8 what -- what impacts -- what affects the decisions on 9 separation of turbines? Not this project, but 10 generically and in general.

11 A Yeah, so -- so the design of wind farms has -- has 12 evolved to some degree over the 15 years, 16 years I've 13 been in the industry, but -- but the fundamental 14 principles were established long ago.

So there were some, let's say, overzealous folks early in the day that were using tighter-than-expected spacing of turbines, tighter than optimal spacing of turbines, because the rapid change in turbine technology over time changed the way those turbines interact with each other as they grow taller and bigger.

22 So the industry has moved to somewhat broader 23 spacing over time. So the early Pacific Northwest wind 24 farms tend to have tighter side-by-side and 25 string-to-string spacing, more like one and a half to

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1		two to two and a half rotor diameters as small as			
2		that; not all of them are subject to that and			
3		six-to-ten rotor diameter string-to-string spacing over			
4		times over time, though that's changed, and it's			
5		moved to a somewhat wider spacing, more like 3 by 10 or			
6		3 by 12 or 4 rotor diameters side by side and 14, this			
7		kind of thing, to help reduce those those wakes and			
8		improve project performance.			
9	Q	Okay. Just one moment, Your Honor.			
10		Oh, yeah. Right. (Indiscernible.)			
11		Can you explain what you mean by			
12		string-to-string			
13	A	Oh.			
14	Q	space?			
15	A	Sorry. Yeah. So in the in the picture that was			
16		shown of the dots on the map for Horse Heaven Hills,			
17		there's sort of irregularly shaped rows. So I call			
18		them strings because it "row" implies linear.			
19		String. They kind of undulate like this. They're			
20		following topographic features for various reasons.			
21		And the distance between those strings has to be			
22		far enough that you're optimizing well, one of the			
23		things you're optimizing is the amount of energy			
~ .	1				
24		produced by the next string downwind. So if the wind's			
24 25		produced by the next string downwind. So if the wind's always from one direction, there's a longer distance			

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between strings than there is side by side, because the 1 wind very seldom blows along the rows. 2 3 So along -- the -- the r-o-w-s, rows, along the --4 the string or row. Very seldom you get wind that way, 5 so you preferentially put them close together, perpendicular to the wind direction, and you have a 6 greater distance string to string or row to row. 7 So a row of closely spaced turbines is separated by a much 8 9 longer distance to another row. 10 Okay. Got it. 0 I think this is my last question? 11 12 Topographically, does the wind tend to speed up, 13 whether kind of heading up a hill or down a hill? And 14 particularly I'm curious how that works in a topography 15 and terrain such as Horse Heaven generically again. Right. Right. So in Horse Heaven, the wind tends to 16 Α 17 come from one direction the majority of the time. That 18 is kind of 220 to 230 degrees. That means southwest, 19 pure southwest wind. Not all the time. 20 But in any case, with that wind direction, terrain features that are perpendicular to that wind direction 21 can have acceleration downwind downhill. So stronger 22 23 winds can be measured and present just based on

fundamental meteorological principles, and that -- that is modulated quite a bit by the vertical temperature

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structure of the atmosphere. Common term for that is "atmospheric stability."

3 But in any case, in a situation like Horse Heaven 4 Hills, you want to avoid areas upwind and downhill. So 5 if there's a hill feature like -- like this, you'll generally find -- and the wind's coming from this 6 direction, you'll find weaker winds going into the back 7 of my hand here, stronger winds at the top, like 8 9 everybody expects. On a ridgetop, you expect it to be 10 windy. When you climb the top of a mountain, you 11 expect it to be windy.

But there's this effect, which is common in 12 13 meteorology. Downslope windstorms are caused by this 14 effect. You get acceleration over and down the hill. 15 Not really steep hills. It gets very turbulent. But nice, smooth hills like there at Horse Heaven Hills, 16 17 you get acceleration downhill. So you get some wind 18 speeds in those areas so -- so turbines can be placed 19 in those. It's one of those methods we use to help 20 improve wind farms.

21 Q Got it. That's great.

And then just one final question.

23 When you talk about 260 degrees, I assume you mean24 compass 260 degrees?

25 A I'm sorry. Yeah. On the compass. So southwest winds

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/erbatim Record of Proceedings, Adjudicative Hearing -	-	August 24, 2023
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1		is probably the easiest way to say it. But, yeah, 220
2		to 240 degrees is southwest winds.
3	Q	Okay.
4	А	On
5		MR. McMAHAN: Your Honor
6		Yeah. Thank you, Dr. Poulos.
7		Your Honor, I think I I don't believe I have
8		any further questions.
9		JUDGE TOREM: All right. I'm going
10		to come to the Council. If Mr. Aramburu can take the
11		pretty wake picture down.
12		One thing while we're getting that down,
13		Mr. Poulos. You kept referring to "WRF," and I think
14		that was the Weather Research and Forecasting Model; is
15		that correct?
16		THE WITNESS: That's right. It's an
17		acronym placed upon it by the developers of it.
18		JUDGE TOREM: The court reporter and
19		I were belaboring whether it was one R or two Rs, but I
20		think my Googling brought us to "WRF."
21		THE WITNESS: That's right.
22		JUDGE TOREM: Okay. Thank you.
23		THE WITNESS: And "WFP" is "wind
24		farm parameterization."
25		JUDGE TOREM: Excellent. That will



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1492
1	help with the transcript.
2	Chair Drew, Council members, by show of hands, any
3	questions? I see them going up already.
4	We'll start with Lenny Young. You'll introduce
5	yourself to Dr. Poulos, and fire away.
6	COUNCIL MEMBER YOUNG: Good
7	afternoon, Dr. Poulos. My name is Lenny Young, and I
8	represent the State Department of Natural Resources
9	on on EFSEC.
10	Appreciate this information. It's really
11	fascinating.
12	Do you think that your work is raising any public
13	policy issues where long-range wake losses have the
14	potential to influence the quality of the wind, if you
15	will, that is available several or many miles away from
16	the property where the turbines are installed on other
17	jurisdictions or other landowners' lands?
18	THE WITNESS: I haven't gotten that
19	feedback from State agencies or the Bureau of Ocean
20	Energy Management, which governs those offshore wind
21	farms. I have some a YouTube video where I explain
22	the impacts on New York offshore wind farms. And so I
23	haven't gotten that response, but I do think it's a
24	very important issue for wind farm developers to be
25	aware of. And, you know, it's becoming much more



prominent in the industry.

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We first talked about, in 2021, in a conference, and subsequent to that now some of the -- our major competitors that are much larger companies than ours have come out with their own research validating it, so -- or verifying the same thing, which is not to be unexpected. They were just doing it in their own way.

8 So -- so I do think there are implications, and --9 but to date, there's been no -- I don't know -- public 10 policy modifications based on the little alarm bells 11 I'm ringing out there.

12 COUNCIL MEMBER YOUNG: Yeah, just --13 it just struck me that right now the focus seems to be 14 on intrafarm considerations, but there seems to be the 15 potential for interfarm interactions in terms of sort 16 of who gets the clean air and how could a wind farm in 17 one location influence the ability of neighbors up to a 18 considerable distance away to have a viable project.

19 THE WITNESS: Yeah, that's exactly 20 the point. And so you've got it. I'm glad you've got 21 it. I feel like sometimes maybe I don't explain things 22 clearly enough in my public presentations. But, to me, 23 it's very obvious we need to start thinking about this 24 more. But the -- the -- the response from public 25 policy has not -- not been there yet, so...



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023
1	COUNCIL MEMBER YOUNG: Thank you.
2	JUDGE TOREM: Any other questions
3	from Council members?
4	All right. Not seeing any.
5	Mr. Poulos, I like to ask this because this is
6	such a key question for us on the visual stuff today.
7	What's the takeaway other than what Mr. Young
8	just asked you on getting down in the weeds, what's th
9	takeaway from all the Council members today from your
10	testimony as far as looking at this wind farm from
11	various directions and considering any other
12	wind-related issues?
13	THE WITNESS: Well, I mean, based o
14	my experience with the wind farm for all these years,
15	mean, it's developed like more or less any other wind
16	farm has that I've been around.
17	Development takes a lot of twists and turns, and
18	ultimately there's a permitting process everywhere you
19	go. Some are different than others. And you have to

Young t's the your om ased on ears, I wind , and re you Some are different than others. And you have to ao. get through that step, you know, for a variety of 20 reasons of subsequent downstream things that have to 21 22 happen. If you're not permitted, you're not going to 23 get a big loan from the bank to -- to fund your wind

farm, for example. 24

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So things have to happen. And some of the



permitting process is a necessary step for every wind So I don't see anything unusual here. I don't

see anything unusual in the way the turbines were aligned, arranged on the topography.

5 Generally there are meteorological measurements taken, and those guide the energy part of the process, 6 and then there are these constraints that come from a 7 lot of different quarters, environmental, private 8 9 landowners, and then ultimately the turbine models and 10 various other construction costs are taken into account 11 and proprietary financial modeling, which causes the 12 developer to take it forward based on what their 13 requirements are to go forward internally, make it 14 worth the investment, as it were.

15 So I don't see anything unusual here, is -- is the fundamental thing. There are many other wind farms or 16 17 wind farm clusters of this size already operating in the United States. We'll work on much, much, much 18 larger wind farms than this around the world on a 19 20 day-to-day basis with clients.

So that would be my main -- my main takeaway, or main point, I guess. It's just been done the way I've seen it done with advancements over time, and here we are, you know, so it makes sense to me.

JUDGE TOREM: And when you talked

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farm.



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - /	August 24, 2023

1	about the permitting process and the changes along the
2	way, would the if there's a permit granted here,
3	there'd be some other micro-siting decisions that may
4	move or eliminate turbines along the way based on the
5	mitigation that would be required, and you'd have to
6	re-rack and re-stack some of those other decisions
7	accompanied for the company to do?
8	THE WITNESS: Yeah, so let's see. I
9	think you're saying well, what are you I'm sorry.

think you're saying -- well, what are you -- I'm sorry. What's -- repeat it again. What is it you're trying to get at?

12 JUDGE TOREM: Well, you said there 13 was the permitting process as it went. I'm getting to 14 the tail end of the permitting process, where if one is 15 granted, there might be some other mitigation measures 16 required. There might be some micro-siting decisions 17 to move things, from what I heard from your wake effect 18 analysis and then, again, the economic viability that 19 will leave for the applicant and the company to get 20 into. The natural process of that would fit into 21 everything you just said as well, I think. 22 THE WITNESS: Yeah. Yeah. 23 Absolutely. You -- you -- you respo- -- what I've seen 24 developers do is respond, you know, to challenges

25 and -- and do so as, you know, in a -- in this case, I

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1 mean, based on the Moon memo, in a very neighborly way 2 kind of.

You know, there's some more aggressive developer types out there. Scout is not behaving like those. So I don't want to pass judgment. I -- it's not my decision, right? I just observe the behaviors of many different kinds of developers around the world, and some are, you know, different, so...

JUDGE TOREM: Yeah.

10 The -- I asked simply because I think the Council 11 members are looking at this now. And we're on Day 7 of 12 8 in this hearing. They've got a lot of information. 13 They've started to think about questions that are 14 important to consider on their recommendation to the governor. Some of them come down to individual wind 15 16 turbine strings or solar arrays. And I wanted them to 17 be clear that they don't have to think about the 18 economic viability. That's up to the applicant. Thev 19 don't need to think about the wind wake issues. They 20 need to say, Well, this wind turbine is bothersome or 21 not for any given reason and make their decisions based 2.2 on topics in front of them. Maybe not the downwind 23 issues, if you will.

> THE WITNESS: Yeah, well said. JUDGE TOREM: All right.

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1	THE WITNESS: Right. Right.
2	JUDGE TOREM: All right. I just
3	contextually, I wanted to put that out there as we get
4	toward the end as we're sewing things up.
5	Let me see if the other parties have any questions
6	for you before we let the afternoon go by here.
7	Ms. Voelckers, I see you on my screen. I'll ask
8	you first.
9	MS. VOELCKERS: Thank you, Your
10	Honor. I I don't have a question, but I did want to
11	address something real quick
12	JUDGE TOREM: Well, let's hold that
13	if it's not for this witness.
14	Yeah, let's hold that if it's not for this
15	witness.
16	Okay. Ms. Reyneveld.
17	MS. REYNEVELD: I don't have any
18	questions for this witness. Thank you, Your Honor.
19	JUDGE TOREM: Mr. Harper, by chance?
20	MR. HARPER: No questions, Judge.
21	Thank you.
22	JUDGE TOREM: All right. Let me
23	come back to Mr. Aramburu. And, then, Ms. Voelckers,
24	I'll come back to you and make sure it's nothing that
25	needs to be asked and answered while Mr. Poulos is with



1 us. Mr. Aramburu. 2 3 4 RECROSS-EXAMINATION 5 BY MR. ARAMBURU: Mr. McMahan asked you some questions concerning wake 6 0 turbulence over water as opposed to over land. And I 7 understand your answer to be that -- that the cool 8 9 water through the ocean provide a more stable set of 10 circumstances, and wind turbine wake turbulence tends to be farther, go farther in those circumstances. 11 Is that -- is that a fair characterization? 12 13 Well, that -- I don't believe that's what I said. Α That 14 may be the case. It really depends on location. 15 Everything's very site-specific because the meteorology 16 of the globe changes in pretty fascinating ways 17 depending where the jet stream is, where your latitude 18 is, longitude, whether there's a coastline, whether 19 it's cold water, warm water, we have an El Niño going 20 on, really warm water over there. That changes the stability of the atmosphere. 21 So stability is definitely a major factor in -- in 22 23 the behavior of wakes. They tend to travel further 24 when the atmosphere is stable and less far when the

atmosphere is unstable. They tend to recover, I should



1		say, as they that have deficit behind the turbine
2		tends to recover faster if the atmosphere is turbulent,
3		that is unstable, and it tends not to that that
4		deficit tends not to recover if it's stable.
5		So that's an expansion sort of what I what I
6		had said. I hadn't I don't think I said that as
7		part of the answer originally, but that's
8		clarification.
9	Q	Thank you.
10		So if we're in the middle of one of these eastern
11		Washington Tri-Cities cold spells with
12	A	Mm-hmm.
13	Q	inversions, would that create a stable environment
14		that might tend to extend wind turbine wake
15		turbine wake turbulence
16	Α	Right. Probably. Probably. Yeah. It will depend,
17		again, on everything else that's going on in the
18		weather, so
19	Q	Okay. And you've seen those rather lengthy times of
20		cold weather with with inversions in the Tri-Cities
21		area?
22	A	Yeah. It can happen anywhere, yeah. And anywhere in
23		the mid latitudes.
24	Q	Mr. Young asked you some questions about the importance
25		of of assessing these these wake losses



		Heaven Wind Farm tim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1501
1		downstream. And I just want to go back to your exhibit
2		again, and I'm looking at Page 8 of your exhibit. And
3		this was your PowerPoint.
4	A	Yep.
5	Q	And on that page is you say that the bottom line is
6		that a gap in knowledge can easily translate to
7		billions of dollars. Is that dollars, ZAR?
8	А	That's South African rand. That's the
9	Q	Okay.
10	А	acronym for that.
11	Q	Okay. And how much is that in dollars, roughly?
12	А	You just divide by about 20.
13	Q	Okay. Okay. So lots of money?
14	А	To me it is.
15	Q	Okay. Okay. And so you you propose that to to
16		properly analyze that, you use the WRF WFP method to
17		analyze what those losses might be?
18	A	The the yeah, I think the key is in that in
19		that bottom line, first line, it says for long-range
20		external wake losses. So not for the the wind farm
21		cluster, itself. The current models work
22		satisfactorily for that. But for long range, you know,
23		yeah, yeah, so 25-kilometer range between these
24		these two in that example you just pulled up, so
25	Q	Okay.



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1502

1	A	Yeah, just just a clar it's a nuanced
2		clarification. But, you know, in our in our
3		technical niche, it's very important to understand the
4		difference, yeah.
5	Q	25 kilometers is about 18 miles?
6	A	Yes.
7	Q	Okay.
8	A	15.5, I think. Yeah.
9	Q	Okay. You're better at math than I am.
10		And you've talked about there were some
11		questions about rotor diameters. And I think on Page 6
12		over here, you talked about the rotor diameters for
13		this project of your testimony? Page 6.
14		So Page 6, 14 to 18, you talk about the rotor
15		diameters to be applied for this project?
16	А	Array designs. Right. You're talking about that
17		sentence right there with the dot?
18	Q	Yeah.
19	А	Yeah. Yeah, that's what I wrote.
20	Q	Okay. Okay. Accurate statement?
21	А	Yeah. Yeah. Commonly. Right. Yeah. We see some
22		exceptions. In Brazil, they're still doing 1.5 rotor
23		diameter, side by side spacing, which is frustrating,
24		but we can't change everybody all the time. So, yeah,
25		the more experienced well, yes, that's current

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Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1503 current common practice, I guess, best way to put it. 1 2 MR. ARAMBURU: No further questions. 3 JUDGE TOREM: Mr. Aramburu, at this time, did you want to move the admission of 5904 and 4 5 5905? 6 MR. ARAMBURU: I would, please. 7 JUDGE TOREM: Any objections to those two exhibits coming in? I hope not. 'Cause I 8 9 really like that wake picture. 10 All right. Hearing none. Those will come in. 11 (Exhibit Nos. 5904_X and 12 5905 X admitted.) 13 14 JUDGE TOREM: Are there any other 15 questions for Mr. Poulos? 16 MR. McMAHAN: None from the 17 applicant. 18 JUDGE TOREM: Well, Mr. Poulos, 19 Dr. Poulos, I'm only disappointed no one referenced my 20 favorite song by Kansas, so we'll just move along and 21 let you go. 22 THE WITNESS: Thank you, everyone. 23 It's been a pleasure. 24 (Witness excused.) 25 ////



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Heari	ng - August 24, 2023

1	JUDGE TOREM: All right. I think,
2	Ms. Voelckers, you had an issue you wanted to raise.
3	And maybe now is a good time since we finished the
4	witness testimony for the day.
5	Did you want the Council members to be present as
6	you make this? Or I've got one other thing to do with
7	them present.
8	MS. VOELCKERS: Thank you, Your
9	Honor. And just a quick I just wanted to, if I
10	could, just give a finish my explanation. I don't
11	have any questions for Mr. Poulos.
12	So I just wanted to say that we Yakama Nation's
13	not having questions is not a reflection of not my
14	client not having interest in understanding how a
15	project can move forward in a way that that
16	minimizes T TCP impacts and still is a viable
17	project.
18	We just don't have information, you know, to to
19	be able to really engage and, you know, remain
20	concerned that that information was withheld despite
21	all parties having entered into confidentiality
22	agreement.
23	So while I do agree with Your Honor's point that
24	the Council is not, you know, required by by the law
25	or shouldn't be, under the law, making economic



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1505
1	analysis about the project, they are going to receive a
2	SEPA analysis that only has two options.
3	And so I just want to be clear that my client
4	remains interested in having a dialogue about
5	responsible siting, location design of this project and
6	other projects, and so I want to make sure that my lack
7	of questions was not taken as anything less than that.
8	Thank you.
9	JUDGE TOREM: No, and I don't think
10	that a lack of questions from anybody is an endorsement
11	of any other sponsoring witness. It just simply means
12	that there were no questions.
13	I think that can be made clear in post-hearing
14	briefs as well for any of the parties. There are so
15	many issues in this adjudication. I don't expect each
16	party to have questions for each and every witness.
17	So thanks for that clarification. It helps put
18	the Council a little bit on notice of what they have
19	heard or not heard.
20	Mr. Aramburu, if you could do me the favor of
21	taking that screen share down.
22	MR. ARAMBURU: I do love the note
23	here that says stop sharing, which is not what my
24	mother told me.
25	JUDGE TOREM: Well, today we're



1 going to play nice and not share for the whole time. That's just fine. 2

Council members, I want to address one thing first. For tomorrow's schedule, we've now eliminated the need to recall Mr. Poulos, so that frees up another hour and ten minutes that would have been at 9:00 in the morning.

I'm going to ask Ms. Reyneveld if she thinks her 8 9 witness, Mr. McIvor, can be ready sooner than the 10:15 10 he was originally scheduled. And, if not, we might 11 take Dave Kobus, who I know is super flexible on his 12 time and has been watching the proceedings. He might 13 be able to go first and move him out of the way and 14 then take Mr. McIvor.

We'll find out whether Council Member Wallahee is 15 available. Maybe we can set Jerry Meninick as before 17 or after Mr. McIvor as well.

So we're going to start at 9:00 tomorrow. 18 Just a 19 question of which witnesses you're going to have first.

Ms. Reyneveld, what can you tell me? MS. REYNEVELD: Yeah. Your Honor,

Mr. McIvor is available at 9:00 tomorrow.

23 JUDGE TOREM: All right. Thank you, 24 Ms. Reyneveld. So maybe we'll start with him tomorrow and allow things to fall into line after that. 25

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	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1507
1	The he's been allocated an hour. If we give
2	him an hour and a half or so, maybe we could schedule
3	Mr. Meninick at at or around 10:30 that might
4	even accommodate a break between witnesses and then
5	Mr. Kobus.
6	Parties, are there assuming that Councilman
7	Wallahee from the Yakama Nation is not available
8	tomorrow to fill any time and appear personally in
9	front of you, were there any other witnesses besides
10	Mr. McIvor, Mr. Kobus, and Jerry Meninick?
11	Ms. Voelckers?
12	MS. VOELCKERS: Thank you, Your
13	Honor. I just I just wanted to be clear.
14	Mr. Meninick is available in the afternoon tomorrow.
15	So that's the the what I've confirmed with him,
16	and he is holding the full afternoon, but I did not
17	confirm his availability for tomorrow morning.
18	JUDGE TOREM: Okay. Maybe you can
19	let us know in housekeeping tomorrow morning or an
20	e-mail tonight the earliest possible time he's
21	available. Because I think, frankly, if we get a big
22	block in the middle of the day, it won't be as economic
23	with everybody else's time, but if he's got a
24	commitment in the morning, I understand, given what we
25	were working with. So hopefully he's at or before

253.627.6401



Horse Heaven Wind Farm

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1508 If we can do that, that would be fantastic. 1 1:00. Mr. Aramburu. 2 3 MR. ARAMBURU: Rich Simon is 4 scheduled to testify tomorrow. 5 JUDGE TOREM: Right. He is scheduled, and I understand his flight is either -- if 6 I'm reading my Alaska Airlines page correct -- either 7 82 or 94. Those come in at around -- at or before 8 9 That was our bet a couple weeks ago -- right? -noon. 10 that that flight would be on time, and I'm glad to tell 11 you that both those flights today from Anchorage were 12 on time. 13 MR. ARAMBURU: Okay. Well, given the circumstances, we were having some real concerns 14 15 about his appearance and nonappearance and that kind of 16 thing. So I do -- I would like some flexibility. And 17 I don't know what's going to happen in September, but I would prefer not to have my witness get off even an 18 19 on-time Alaska Airline flight and have to immediately 20 come into these hearings. 21 So if there's some way we can schedule him so he 2.2 doesn't have to come off a six-hour airplane ride, I 23 would request that. But I understand your prior 24 ruling.

JUDGE TOREM: I have the flight down



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 202	3

as three hours and 29 -- maybe it's four hours and 29 1 minutes with the time change. Maybe it's the other 2 3 way. But hopefully the latest flight he's on gets in at 11:30. So hopefully by noon or thereafter, he will 4 5 be in a place we have a good, guiet phone connection. But keep us posted as you hear from him tomorrow. 6

MR. ARAMBURU: Okay.

8 JUDGE TOREM: So you're right. We 9 have -- we have Mr. McIvor. We have Mr. Kobus. We 10 have Mr. Meninick as his schedule allows, and Mr. Simon 11 at the whims of Alaska Airlines, and then Caseymac 12 Wallahee. So, Council members, those are the remaining 13 witnesses unless anyone reminds me there's anyone else.

14 Hearing none. It sounds like that's what we have for tomorrow.

Let me turn to another question, Ms. Voelckers. You sent and reduced to writing the question you had earlier about the wildlife biologist Mr. Watson and Jason Fidorra and whether or not -- whether or not the Council would benefit from having them available for personal testimony.

2.2 We had a little bit of a consultation over the 23 lunch hour with Council on some procedural matters, and 24 I had a chance to consult with Director Bumpus on this 25 question. And after consulting with the attorneys

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	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1510
1	general as well, I think the general decision, and
2	rather than have you wait for a response letter, we
3	could just take care of it here. I've been asked to
4	transmit it.
5	The Council doesn't really think EFSEC doesn't
6	think it's appropriate or necessary to call either of
7	those wildlife biologists. That would be just the
8	purpose of allowing for cross-exam of those witnesses.
9	And they weren't sponsored as prefiled testimony from
10	any party.
11	And I recognize there were some limitations made
12	on the ability for Yakama Nation to delve into the SEPA
13	process during the discovery depositions. But those
14	depositions and they're quite lengthy; I think one
15	is at least 400 pages are already in the record.
16	And the Council has access to that.
17	And my understanding from reviewing the transcript
18	was that at least two parties asked detailed questions,
19	and the other parties were present as well. So
20	everybody's had a bite at the proverbial apple and had
21	a chance to flesh out anything they want to with
22	Mr. Watson and with Mr. Fidorra. And their testimony
23	speaks for itself, and the the Council members will
24	review it, but I don't think there's any benefit from
25	bringing forward any friendly cross-examination to

253.627.6401



1 | flesh it out.

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They are not anybody's witness. They are the Council's contracting consultants and experts. And allowing them to be essentially called by a party after the discovery deposition, I don't think it would be fair to the other parties to have someone pull them into their alignment and say, Yes, this is what we're saying Fish and Wildlife would do.

And on the question of what Fish and Wildlife 9 10 would do, if you recall, the statute allows those State 11 agencies to petition for intervention. And they're 12 parties of right. It's -- they're not even 13 intervenors. And Fish and Wildlife indicated by their 14 absence that they're not taking a position in this 15 matter as an agency. They're not participating on the 16 Council, and they haven't provided a witness to be 17 called that can speak on behalf of that State agency.

18 So for those reasons, I don't know if Ms. Bumpus 19 is going to respond to your letter in writing or not, 20 but that's the general ruling, is that they're not 21 going to be called as additional witnesses. The 22 discovery depositions are more than sufficient.

23I don't think there's anything much more I can say24on that. But that was the end of the discussion.

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If you have questions, I'm happy to hear them for



the record.

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MS. VOELCKERS: Thank you, Your Honor. And I do appreciate the -- the verbal answer. I would respectfully request that -- that we be answered in writing and that be clear who is making that decision and whether or not it is the presiding officer. So that's my first request. I do understand what I'm hearing and do appreciate having that response as soon as possible.

10 I will, secondly, note that I would also 11 respectfully request an explanation of how that is any 12 different than having Mr. Kobus testify tomorrow on his 13 deposition testimony when he was not sponsored for 14 prefiled testimony and no one else here is planning to cross-examine him. So I respectfully ask for that 15 16 explanation on the distinction that's being drawn 17 there.

And, lastly, I would just respectfully disagree that anyone is calling them to take a position. Rather, we were wanting to call them so that they could answer directly, and I don't believe that we were the only party that wanted that to happen. We're the party that made the request yesterday.

24 So that is -- those are my thoughts and do, again, 25 appreciate getting that verbal response and would very



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

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Page 1513

much appreciate having in writing an understanding who
 made the decision. Thank you.

JUDGE TOREM: Thank you. And, again, I'm simply transmitting the decision that was made by the Council and as I'm not, under the APA, the presiding officer. The Council is. I'm here kind of calling balls and strikes as best I can, but not the presiding officer.

I expect you will get a written decision. I just didn't want you to have to wait for one. EFSEC staff is busy today too, so that should get drafted in the course of events and be memorialized.

As for the distinction for Mr. Kobus, again, it's a very limited purpose he's being called back tomorrow to respond to new information that came up since his deposition, and it's a clarification. I'm certainly not aware of any new information that Mr. Fidorra or Mr. Watson would need to clarify.

We had plenty of other updated information and best available science from Mr. Jansen and from Troy Rahmig yesterday. No one raised any questions that made it -- any indication that those other biologists had changed their tune or had gotten a new study or some other late-breaking news that would change generally what's in their deposition about this.



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1	Yes, Moon memo notwithstanding, again, that's part	
2	of the SEPA process, and they do have input for the	
3	final EIS which is being drafted. So having them	
4	testify at the adjudication is, to me, different	
5	qualitatively than the limited purpose we're having	
6	Mr. Kobus be aware of things tomorrow. And, frankly,	
7	there may not be any questions for Mr. Kobus. So we'll	
8	see what happens.	
9	Mr. McMahan.	
10	MR. McMAHAN: Thank you, Your Honor.	
11	I was just going to suggest perhaps in our in our	
12	our pre-meet tomorrow, housekeeping session, we kind of	
13	determine whether or not Mr. Kobus needs to be called,	
14	will be called. I'm just hearing a lot of ambiguity	
15	about that.	
16	I mean, Mr. Kobus will be here no matter what, but	
17	I think if we can, you know, kind of come to terms on	
18	that, that would be helpful.	
19	JUDGE TOREM: Yeah, Mr. McMahan, my	
20	only question whether I don't want to put Council	
21	members on the spot right now to see if they have	
22	questions for Mr. Kobus. That's probably, if no one	
23	else does, if there are no Council member questions	
24	tomorrow, if they they have a chance to review his	
25	deposition tonight if they choose to do that and have	

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	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1515
1	questions. They may be redigesting things in sequence,
2	so I don't want them to commit right now for what they
3	might be reviewing tonight.
4	MR. McMAHAN: Perfect. Thank you,
5	Your Honor.
6	JUDGE TOREM: All right. Chair
7	Drew, anything else for today that you want input on or
8	want me to address before our last day of hearing
9	tomorrow?
10	COUNCIL CHAIR DREW: No. That's
11	great. Thanks, everybody.
12	JUDGE TOREM: Parties, anything else
13	for the Council members before we adjourn for the day?
14	I think we'll do our housekeeping session at 8:30,
15	because there's a few other moving parts. And we want
16	to probably also have Ms. Masengale's been giving us
17	updated master exhibit lists each night. Tomorrow
18	morning would be a great time for everybody to walk
19	through the master exhibit list to make sure we haven't
20	missed anything so that a complete record of documents
21	can be admitted and we don't have to chase back after
22	each other with a motion to admit something that was
23	overlooked.
24	So I believe Ms. Masengale's notes are pretty good

25 about indicating what's admitted and when. So take a



	Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1516
1	look, each party, at your own exhibits, including your
2	own cross-exam exhibits, and make sure if there's a
3	piece of housekeeping we need to clean up and get it
4	admitted, we can do that tomorrow morning as well.
5	I'll see all the parties at 8:30. Council
6	members, I'll see you at 9:00. And Ms. Masengale
7	continues to be a Jeannie-on-the-spot. She's going to
8	send that exhibit list out shortly.
9	Everybody have a good afternoon. Thanks very
10	much. We're adjourned for the day.
11	(Proceedings adjourned at
12	3:31 p.m.)
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Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1	STATE OF WASHINGTON) I, John M.S. Botelho, CCR, RPR,
2) ss a certified court reporter County of Pierce) in the State of Washington, do hereby certify:
3 4	
5	That the foregoing proceedings were taken in my presence and were adjourned on August 24, 2023, and thereafter were transcribed under my direction; that the
б	transcript is a full, true and complete transcript of the said proceedings and was transcribed to the best of my
7 8	ability; That I am not a relative, employee, attorney or counsel
9	of any party to this action or relative or employee of any such attorney or counsel and that I am not financially interested in the said action or the outcome thereof;
10	IN WITNESS WHEREOF, I have hereunto set my hand
11	this 12th day of September, 2023.
12	
13	
14	John M.S. Botelho
15 16	John M.S. Botelho, CCR, RPR Certified Court Reporter No. 2976
17	(Certification expires 5/26/2024.)
18	
19	
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	- 11:44 1432:10
-	11:50 1430:17,22
-3 1394:6	11th 1421:24
-4 1394:6	12 1352:11,15,24 1410:2 1452:23 1453:5 1455:17 1456:3 1477:16
1	1488:6
1 1332:14,15,20 1350:3 1357:1,3	125 1477:20
1362:5 1365:10 1383:20 1385:14	129 1477:20 13 1331:8,13 1363:1,3 1406:1,3
1400:20 1402:1,18 1407:10 1413:2, 18 1458:25 1465:18 1466:11 1467:25 1469:6	1407:9 1410:2 1412:6 1414:1 1426:6,11,12 1453:5
1.12 1429:4	130 1448:25 1477:21
1.5 1502:22	131 1448:24
10 1342:20 1343:7 1423:23 1424:3	132 1448:25
1430:17 1459:1 1481:17 1482:15	14 1477:16 1488:6 1502:14
1488:5	14th 1404:22
10-2 1365:7	15 1430:17 1453:5 1458:18,20
100 1337:14 1342:7 1372:11	1477:16 1481:17 1487:12
1000 1320:3	15.5 1502:8
1000_t_revised 1321:16	1500 1339:20
1001 1320:3 1383:19	15th 1421:25
1001_revised 1321:17	16 1477:16 1487:12
1021 1320:5	17 1312:17 1477:17
1021_R 1321:17	18 1502:5,14
1031 1438:25 1440:7,12	1970s 1378:22
1031_R 1440:15	1986 1425:23
1032 1438:25 1440:7,12,15	1989 1445:10
1036 1320:5	1996 1445:19
1036_R 1321:18	1:00 1508:1
10:15 1506:9	1:15 1430:12 1432:7,8
10:18 1368:22	1:25 1432:10
10:20 1366:9	1:30 1432:17
10:25 1368:19,22	2
10:27 1371:2	
10:29 1371:2	2 1366:21 1402:2,18 1413:9 1465:19 1466:13
10:30 1507:3	2-101 1460:18 1461:7
11 1212.17 1/01.21 1//0.11	
11 1312:17 1401:21 1448:11 11:30 1509:4	2-17 1465:13 1467:20

-46 1358:18 **.3-1** 1406:4 2.5-megawatt 1464:15 **.82** 1466:13 1469:7 **1**379:6 1423:23 1424:3 1426:13 1467:15 1482:15 1501:12 **200** 1451:4 **2007** 1444:22 1447:11 1457:23 2015 1446:22 **2019** 1464:14 **1323:7 1356:5,7,24 1493:2 022** 1324:6 1463:13 2023 1303:2 1404:22 **21** 1386:16 **22** 1386:16 1477:3 20 1453:16 1489:18 1491:1 **30** 1453:16 1489:18 **31** 1402:12 1414:12 4 1303:2 **4.7** 1402:11 1414:12 **40** 1453:16 1491:2 **44** 1354:1 1357:3 **4th** 1303:12 **5** 1338:19,21,22 1350:14 1351:15, 18 1502:5 25-kilometer 1501:23 5-mile-long 1353:16,23 **260** 1490:23,24 **264** 1451:4 **29** 1509:1 2:12 1466:24 2:17 1466:24 **2:24** 1439:19 **2:30** 1439:19 **2:41** 1483:22 2:50 1483:15,20,22,25 **A** 1461:19

Page 1518Index: -3..2A

Horse Heaven Wind Farm



Hors

Vert Hearing - August 24, 2023 Page 1519Index: 2B..accurately

2B 1461:19	5103_F
3	5104 1
	5104_F
3 1332:25 1348:5,16,21 1363:11 1402:18 1413:10 1463:24 1488:5,6	52 135 53 132
3.03 1466:13,15 1469:7	56 141
30 1379:6 1467:15	57 140
30,000-foot 1315:3 1396:2 1439:11	5904
300,000 1378:23	5904
31st 1446:22	5905 1
370,000 1378:24 1380:9	1503:
3:30-ish 1439:15	5905_ 2
3:45 1439:15,21	5906 1 1398: 1407:
4	5906 I
4 1400:20 1402:18 1430:14 1458:18 1464:9 1482:24 1488:6	5950_i
4- 1347:18	
4-40 1347:15	
4-45 1355:22	6 1335 13,14
4-59 1345:7,20 1347:20	6.5 14
4.2.3 1321:24 1347:14	60 141
40 1354:12 1392:13,24	621 13
400 1510:15	64 133
46 1325:7	67 133
463-30-310 1404:15	69 133
490 1346:19	
490 1346:19 4:30 1430:14	

5

5 1334:6,7,24 1363:9 1408:3 1415:16 1471:22 1472:18 1482:24 **50** 1479:2 **5100** 1315:4 1394:5 1395:12,18,21 **5101** 1394:5 1395:21 **5102** 1394:6 5102_T 1395:22

5103_R 1395:22
5104 1315:5 1395:12,18
5104_R 1395:22
52 1358:20
53 1326:17 1349:25 1351:6
56 1415:15,16
57 1402:10 1414:11,13
5904 1439:1 1453:25 1503:4
5904_X 1503:11
5905 1440:23,25 1463:25 1472:19 1503:5
5905_X 1463:10 1503:12
5906 1394:7,20 1395:13,19 1396:17 1398:11,22 1399:19 1400:11 1401:8 1407:11,14 1415:16 1439:6 1441:1
5906_R 1404:14,25 1407:1
5950 1439:2 1485:23
6
6 1335:15 1336:12 1474:25 1502:11, 13,14
6.5 1474:25
60 1413:3
621 1303:2
64 1334:5
67 1337:5,18
69 1338:8
7
7 1303:11 1315:10 1497:11

/ 1303:11 1315:10 1497:11

70 1343:4

8

- **8** 1363:10 1458:20 1482:24 1497:12 1501:2
- 80 1479:2
- **81** 1357:8 1358:8
- **82** 1508:8

86 1357:7 1358:7 8:30 1515:14 **8:45** 1303:3 8A 1337:18 1338:1

9

9 1338:8 1351:5 1405:17 1406:16 **90** 1481:1 **94** 1508:8 9:00 1314:12 1315:7 1506:6,18,22 **9th** 1405:15

Α

a.m. 1303:3 1368:22 1371:2 1432:10 ability 1305:19 1437:9,16 1493:17 1510:12 aboveground 1480:25 1481:1 absence 1511:14 absolutely 1431:23 1496:23 abundantly 1421:15 academic 1418:6 acceleration 1478:14 1489:22 1490:14,17 acceptable 1414:20 1424:23 acceptance 1304:11

access 1383:19 1394:23 1455:10 1466:5 1480:12 1481:5 1510:16

accommodate 1507:4

accompanied 1496:7

account 1369:21 1495:10

accounted 1357:20

accumulated 1478:10

accuracy 1471:9 1481:23

accurate 1330:11,13,14 1332:3 1336:5 1454:25 1456:8,15 1464:2 1502:20

accurately 1331:24 1443:22 1481:22



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 **accused** 1402:22 admitted 1312:4 1321:18 1395:23 1404:3 1406:24 1407:2.20 1422:11 achieve 1414:21,25 1423:1 1438:3 1439:5 1440:12,16 1503:12 achieved 1424:8 1515:21,25 achieves 1423:5 admitting 1408:7 acknowledging 1350:5 adopt 1320:22 1438:1 adopted 1395:18 1439:10 acknowledgment 1306:22 acquaint 1325:16 adopting 1438:22 1439:12 advancements 1495:23 acronym 1491:17 1501:10 adverse 1471:18 activated 1376:6 active 1486:20 advocate 1382:22 activities 1447:21 advocating 1306:6 aerial 1326:21 1327:4,8 1354:14 activity 1326:5,6 1327:20 aesthetic 1374:16 1376:10 1380:5 actual 1305:15 1443:17 1472:2.16 aesthetics 1347:15 1388:23 ad- 1471:18 affect 1357:15 1382:18 1383:8 Adam 1303:5 1411:13 1417:20 1418:8 1456:12 add 1333:21,25 1440:13 1484:25 1462:7 1483:3,7 added 1387:14 1432:13 1435:2 affected 1376:4 1454:8 addendum 1310:5 affects 1456:10 1485:17 1487:8 addition 1348:24 affirm 1321:6 1395:11 1440:6 additional 1311:21,22 1315:4 afraid 1378:11 1333:24 1360:10 1372:19 1373:1 1375:4 1377:16 1387:23 1407:22 Africa 1463:15 1464:13 1471:14 1408:22 1410:25 1421:7 1422:10 1482:5 1429:15 1435:13 1484:2 1511:21 Africa's 1471:13 address 1310:18 1313:1 1314:19 **African** 1501:8 1396:20 1406:19,20 1435:17 1498:11 1506:3 1515:8 afternoon 1304:17 1308:22 1316:6 1432:13 1438:15 1446:8 1486:8 addressed 1399:2 1487:2 1492:7 1498:6 1507:14,16 adequately 1399:24 1443:22 Age 1348:8 adjacent 1325:15 1340:19 1363:12 agencies 1492:19 1511:11 adjourn 1430:15,23 1515:13 agency 1511:15,17 adjudication 1408:8 1409:8 aggressive 1497:3 1505:15 1514:4 agree 1359:18 1364:22 1367:16 adjudicative 1316:22 1380:2 1485:5 1504:23 Administration 1375:12 agreement 1460:19 1461:2 1504:22 Administrative 1303:5 1321:2 agrees 1359:19 1395:6 1440:2 agricultural 1457:7 admission 1404:13,24 1421:1,2 1503:4 agriculture 1318:8,13 1329:13 1333:18 1340:7 admit 1321:13 1399:13 1515:22

Page 1520Index: accused..analysis

AGS 1308:9

ahead 1314:13 1331:7 1369:2 1370:24 1376:22 1399:21 1404:10 1457:20 1469:13 1475:6,7

air 1313:22 1436:7 1493:16

aircraft 1376:5,6

Airline 1508:19

Airlines 1508:7 1509:11

airplane 1508:22

airport 1454:6,9,18,25 1455:3 1459:15 1479:11,12 1480:6,16,23, 24 1481:3

Alamos 1445:17

alarm 1493:10

Alaska 1508:7,19 1509:11

aligned 1495:4

alignment 1511:7

aligns 1374:24

allocated 1507:1

allowed 1436:1

allowing 1399:6 1435:6 1510:8 1511:4

alterations 1438:23

ambiguity 1514:14

amended 1347:20 1355:23 1388:24 1460:18 1461:8 1467:21

amendment 1406:1

amendments 1452:5,13

amenities 1326:10 1383:13

amount 1388:22 1444:6 1456:10,11 1488:23

analogous 1312:11

analogy 1462:16

analysis 1323:10 1335:12,13 1356:22 1357:12 1358:11,23,25 1359:22 1365:2,17 1366:12 1367:25 1376:9 1377:23 1378:25 1379:2,8 1380:13 1381:4,13 1382:1 1386:19 1387:10 1396:15 1406:7 1417:18 1418:4 1422:22 1465:3 1479:4 1496:18 1505:1,2



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1521Index: analyze..assessment

analyze 1501:16,17 analyzed 1357:18 1374:15

analyzing 1382:16 1383:10

Anchorage 1508:11

and/or 1428:1

angels 1322:19

answering 1417:3

answers 1309:20 1321:8 1395:14 1436:20 1438:2 1440:8

anticipated 1359:7 1360:3

anticipating 1375:24

anybody's 1511:2

APA 1513:5

apologies 1399:1

apologize 1304:3 1308:25 1345:4 1374:7 1467:2

apologizes 1421:14

Apostol 1307:13 1308:23 1309:16 1310:19 1313:1,21 1314:1,18 1315:17 1393:13,17 1394:4,24 1395:5,10 1396:3,10 1397:2 1398:18 1402:3 1404:5,15 1405:1 1406:13 1407:7 1409:5 1411:3 1412:4 1417:14 1420:12 1421:13,25 1422:8 1428:25 1429:18,25 1440:24 1455:19

Apostol's 1314:5 1393:10 1399:17 1416:7,16

apparently 1389:21 1426:14 1463:14

appearance 1508:15

appeared 1335:7

appearing 1319:22 1321:1 1393:14 1395:5 1438:13 1440:1

appears 1327:7,10 1335:5 1436:8

Appendix 1321:25 1365:6

apple 1510:20

applicant 1318:22,24 1321:24 1330:1 1360:6 1362:19 1363:16,19, 20 1381:16,19 1392:22 1396:3 1399:15 1404:13 1416:17,21 1422:22 1426:1 1428:1 1429:2 1496:19 1497:18 1503:17 applicant's 1365:19 1396:24 1404:6 1406:10 1420:25 1421:9 1423:1

application 1321:25 1323:10 1324:13 1330:2 1334:10,12,22 1335:7 1345:1 1347:11,21 1355:23, 24 1356:2,3,4 1359:17 1360:8 1365:5,19 1367:23 1370:1 1371:23 1372:24,25 1374:17 1376:10 1387:1,13,15 1388:1,2 1389:18 1390:3 1396:12 1406:4,5,7 1429:5 1452:6,13 1461:3,9 1464:19 1467:23

applied 1502:15

applies 1348:9,22 1404:20

apply 1348:18

applying 1472:9

appreciated 1432:15 1435:6

approach 1423:3 1427:12 1428:2

appropriately 1443:5

approx- 1473:8

approximately 1323:6,21 1339:19 1350:12 1357:7 1392:13 1405:15 1412:6 1464:18 1473:8,10 1474:12

April 1324:6

Aramburu 1303:15 1308:11,19 1309:13,18 1310:14,16 1311:25 1312:15 1313:10 1314:4,17,22 1315:2 1319:18 1322:5,9,14,17,21 1323:1,3 1325:2 1327:1,4,21,24 1328:6 1330:10,18 1331:1,6,8 1341:5,8 1345:10,14,22 1346:5,12, 16,20,24 1347:1,5,7,8,10 1359:2,3, 4,10,20,21 1361:9 1364:5,10,14 1365:14,23,24 1366:1,11,12 1368:11,16 1371:22 1386:8,10,13 1389:7,10,12,14,22 1390:16,18 1391:3,24 1392:5,7 1394:1,16,18 1396:1,8 1398:7,10,15,23 1399:10, 22 1400:6,10 1404:10 1405:2 1406:11,14 1407:6,8,17,19 1414:5,8 1415:9,12,15,19 1421:14 1429:16, 21 1433:11,13 1434:23 1435:11 1437:12 1439:2,12,14 1440:20 1441:8 1442:3 1446:2,3,7,8 1451:21,22 1452:10,11 1453:3,5 1460:25 1461:4,7 1467:14,19 1468:16,17,25 1469:1,5 1480:5 1483:9 1484:1,3,12 1486:7,11,13 1491:10 1498:23 1499:2,5 1503:2,3, 6 1505:20,22 1508:2,3,13 1509:7

Aramburu's 1433:3 1479:24

archaeologist 1410:10

Arcvera 1449:19

area 1322:19 1323:20 1325:15,25 1326:3,5,7,22 1327:11,23 1328:7,22 1329:6 1331:24 1333:2,13 1336:22 1340:14 1341:16 1342:3,6,16 1343:9 1344:5 1349:3,14 1350:16 1357:7,8 1358:7,21 1375:6 1376:6 1378:24 1379:3 1391:22 1392:18 1400:19,20 1401:3 1402:9,18 1411:21 1418:12,25 1419:1 1420:2 1425:11 1448:8 1451:18 1453:10 1458:14 1462:19 1471:6 1486:20 1500:21

areas 1326:8 1327:16 1328:24 1332:12 1334:25 1339:13 1340:8 1348:13 1353:18 1357:16 1378:17 1382:25 1383:1 1391:12 1400:19 1401:24 1402:16,20 1409:25 1457:6 1471:16 1486:25 1487:1 1490:4,18

Argonne 1403:19

argumentative 1361:1

arguments 1408:10

arranged 1495:4

arrangements 1433:9

array 1449:2 1451:2 1457:1 1483:4, 7 1502:16

arrays 1497:16

arrived 1447:14

arrow 1474:11 1478:7

articulated 1385:22

artifact 1450:6,23

ASC 1345:7,16 1346:13 1386:20 1388:12,24 1389:6,18 1465:14

aspect 1408:11

aspirational 1345:2

assessing 1392:22 1424:19 1500:25

assessment 1321:23 1324:1 1326:18 1329:25 1330:1 1331:10 1350:1 1365:9,20 1369:20 1371:24 1372:3,4 1388:23 1426:4,17 1427:1 1429:7 1444:25 1476:23 1477:2



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023Page 1522Index: assessments..blanket

assessments 1425:22

assigned 1374:10 assistant 1373:19

association 1484:10

assume 1327:9 1362:18 1490:23

assumed 1433:17

assuming 1435:7 1507:6

atmosphere 1462:12 1476:16,23 1481:22 1490:1 1499:21,24,25 1500:2

atmospheres 1445:15

atmospheric 1444:18 1445:14,18 1471:4 1478:19,24 1490:2

attempt 1313:17 1426:6

attempting 1470:20

attendance 1432:21

attention 1306:16 1311:22 1393:7 1436:5

attitude 1427:7

attorney 1373:19 1431:4 1446:9

attorneys 1321:9 1509:25

audible 1326:23

audio 1397:3

August 1303:2,12 1405:15,17 1406:16

authors 1356:15

availability 1305:3 1307:18 1316:9 1434:16 1443:1 1507:17

average 1479:5

aviation 1374:21 1375:11

avoid 1362:22 1363:21 1368:7 1490:4

avoidance 1368:6

avoids 1363:3

aware 1316:2 1323:6 1348:12 1359:25 1360:4,5,17,19 1361:7,14, 15,16 1363:16 1368:10 1369:15,19 1374:17 1376:1,12,15 1377:12,25 1384:1 1387:16 1392:12,16 1394:8, 17 1431:11 1443:4 1444:5 1460:8, 12 1484:9 1487:5 1492:25 1513:17 1514:6

В

beg 1354:10

began 1323:18

1352:13 1396:20

behaving 1497:4

behavior 1499:23

behaviors 1497:6

belabor 1388:20 1452:3

belaboring 1491:19

bells 1493:10

bench 1333:17

1419:21

bet 1508:9

1494:23 1507:21

1469:25 1487:21

billions 1501:7

bird 1411:7

biologist 1509:18

biggest 1354:3,7 1412:18

biologists 1510:7 1513:22

bit 1303:16 1323:14,22 1325:3

25 1402:25 1440:19 1441:19

1326:12 1337:10 1338:19 1342:18

1368:18 1383:5,7 1394:25 1397:1,

1442:15 1459:21 1465:9 1483:11

1485:15 1489:25 1505:18 1509:22

1343:13 1349:22 1359:6.14 1361:22

BIPOC 1377:20 1427:8

birds 1376:14 1457:4

1511:17

begin 1328:9,15 1446:25

beginning 1314:19 1347:15

behalf 1422:22 1465:22 1475:18

benefit 1410:22 1509:20 1510:24

Benton 1318:9 1319:4 1325:11,13,

1348:2 1350:11 1351:11 1361:12 1381:10 1391:14 1410:20.23

biq 1340:11 1354:9,11 1368:3

1400:22 1410:3 1418:20 1425:12

bigger 1322:24 1403:15 1464:10

14 1338:9 1341:24 1344:22 1347:22

babies 1306:10

```
back 1307:17 1312:9 1313:7
1326:19 1334:25 1339:23 1349:23,
24 1357:22 1368:19,24 1370:20
1374:6 1376:21 1396:4 1411:20,21
1412:14,20,21 1415:7 1418:2
1422:4 1424:4 1430:22 1432:7,15,
20 1445:18 1455:17 1458:11
1467:1,6,14,17 1470:8 1474:2
1478:8,21 1483:15,24 1490:7
1498:23,24 1501:1 1513:14 1515:21
```

backdrop 1342:12,15 1343:15

background 1323:4 1339:14 1346:22 1400:4 1406:13 1407:19 1444:17 1445:5.8 1465:17

backgrounds 1356:23

bad 1392:2

bad's 1388:4

Badger 1333:22 1339:19 1349:2,5,7 1383:23 1384:3,4,5 1415:2,3,6,16, 18 1424:10

ballpark 1390:5

balls 1513:7

bank 1494:23

- bare 1357:13 1358:6,13,24
- barn 1313:7
- base 1401:16,17
- **based** 1304:18 1312:23 1357:12 1361:3 1372:4 1381:13 1382:1 1399:5,18 1402:12 1406:18 1419:11 1459:2 1465:17 1468:23 1469:9,13 1471:17 1485:14 1489:23 1493:10 1494:13 1495:12 1496:4 1497:1,21

basically 1463:5,25

Basin 1348:7

basis 1460:1,9 1495:20

bats 1376:14 1457:4

battery 1433:6 1434:18 1435:3 1436:9

Beach 1333:7

bear 1315:21

bite 1510:20



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1523Index: BLM..change

BLM 1348:12 1372:5

block 1507:22 blockage 1478:3

blood 1418:24 1419:2

blow 1443:17 1459:8.10

blows 1444:19 1471:17 1489:2

blue 1401:5 1414:24

borders 1420:2

born 1306:11

bothersome 1497:20

bottom 1383:20 1385:14 1455:3 1476:5 1501:5,19

bouncing 1345:5

bound 1457:10

boundary 1458:12

boy 1329:20

BPA 1459:23 1460:8

Brady 1305:9

brakes 1439:16

brand-new 1397:21,22

Brazil 1502:22

break 1368:18 1393:9 1432:5 1439:17,20 1441:12 1445:17 1467:15 1483:12,15 1486:23,25 1507:4

breaks 1400:18,23

Brewster 1318:5,6 1411:25 1412:1, 3 1413:15 1417:5,9

Brewster's 1416:13

brick 1419:7

briefly 1405:25 1422:20

briefs 1316:24 1430:20 1505:14

bring 1316:19 1323:24 1345:9,11,18 1437:17

bringing 1510:25

brings 1312:12

broad 1366:19

broader 1487:22

broadly 1392:23

Brook 1356:21 Brooks 1356:15 1371:25 1390:9

Brost 1318:10

brought 1307:6 1396:22 1491:20

brush 1418:19

Brynn 1307:12 1315:14 1319:21,25 1321:1,5 1408:1

build 1340:11 1423:22

building 1305:6

built 1465:19

bulk 1385:24 1390:9

Bumpus 1308:9 1431:11 1509:24 1511:18

bunch 1305:9 1308:14 1448:22,23 1456:20 1465:2

bureau 1361:11 1492:19

business 1408:18 1444:21,23 1446:20 1447:4 1468:9

busy 1433:21 1468:5 1513:11

butte 1329:1 1339:21 1450:14,18

buttes 1340:19

С

C.A.R.E.S. 1315:18 1319:17,19 1322:5 1408:10 1446:10,13

calculate 1482:18

calculating 1487:2

calculations 1456:7 1476:17

call 1317:1,6 1342:2 1350:10,15 1412:20 1437:10,13 1445:14 1447:1 1462:12 1467:3 1470:15,18 1472:1 1475:3 1478:3 1486:17 1488:17 1510:6 1512:20

called 1350:6 1447:6,7 1511:4,17, 21 1513:14 1514:13,14

calling 1310:7 1318:21 1437:15 1512:19 1513:7

calls 1451:17

calm 1459:13

Cannon 1333:7

canyon 1332:6 1337:20 1350:25 1351:2,3,4,8,9,12 1367:10 1418:10 1475:10,16 1484:5 1486:17

Cape 1463:17

capture 1472:11

capturing 1305:5

care 1315:25 1435:10 1510:3

career 1444:20

careful 1364:8 1479:24

carefully 1456:4

carrying 1307:14 1315:24

case 1312:10 1379:5 1403:11 1408:12 1431:5 1475:2 1489:20 1490:3 1496:25 1499:14

cases 1340:5 1472:10

Caseymac 1509:11

caught 1409:13

caused 1490:13

cell 1374:5 1397:4,5

Center 1454:21 1471:3

centered 1398:2

centers 1326:11 1351:25

certificate 1452:13 1461:2,3

certification 1347:11,21 1355:23 1359:17 1390:4 1406:4,6 1429:5 1460:19 1461:9 1467:21,23

CETA 1443:2

cetera 1326:11 1329:2 1337:3 1352:4 1373:2 1379:15 1450:25

Chair 1303:5 1317:9,10 1411:2,4,10, 12,19,22 1431:11 1492:2 1515:6,10

challenges 1496:24

chamber 1361:11

chance 1306:5 1324:9 1334:15,16 1398:1 1436:13 1453:24 1454:2 1479:2,3 1483:16 1498:19 1509:24 1510:21 1514:24

Chandler 1450:14,18

change 1313:8 1329:10 1378:25 1379:7,17 1410:3 1423:3 1445:13 1458:17 1459:20 1479:18 1481:11 1487:18 1502:24 1509:2 1513:24



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023Page 1524Index: changed..complicated

verbatim Record of Proceedings, Adj	udicative Hearing - August 24, 2023P	age 1524Index: changedcomplicated
changed 1387:14 1458:16 1487:19	clean 1443:2 1465:23 1468:9	comfort 1439:20
1488:4 1513:23	1475:18 1493:16	comfortable 1425:5
character 1341:16,25 1342:11 characteristic 1355:2	clear 1369:25 1421:16 1428:7 1432:7 1441:24 1443:25 1452:3 1459:13 1497:17 1505:3,13 1507:13	comment 1310:17 1317:5 1318:15 1361:3 1377:17 1378:2 1468:12
characteristics 1458:2 1485:11	1512:5	comments 1360:7,9 1377:17 1378:4 1391:8 1396:15
characterization 1328:5 1338:2 1343:17 1499:12	clerk 1440:13	commerce 1317:13 1361:11
characterize 1326:7 1349:12	Click 1304:20 1309:20	commercial 1327:16 1465:21
characterizing 1337:2	client 1476:17 1504:14 1505:3	1466:5 1471:9
chase 1515:21	clients 1495:20	commercially 1482:7
chasing 1452:9	clients' 1477:11	Commission 1318:4
chat 1309:9	Climate 1454:21	commit 1515:2
check 1432:21	climb 1490:10	commitment 1507:24
checked 1308:14 1454:23	Clipper 1446:18 1447:3,10,15 1457:23 1458:5,9	committees 1444:24
	Clodfelter 1366:22	common 1453:9 1490:1,12 1503:1
checking 1370:15	close 1354:24 1409:22 1410:22	Commonly 1502:21
chief 1304:12,20 chime 1318:14	1450:8 1455:4 1463:6 1482:1 1489:5	communication 1332:9 1340:5
choice 1442:22	close-in 1472:11	communications 1340:24
choose 1514:25	closed 1410:7,9	communities 1352:2 1425:5
choosing 1471:16	closely 1489:8	1427:8
chosen 1447:15	closer 1328:18 1336:1,9 1403:10	community 1325:4 1336:21
circulate 1436:25	1412:16 1418:13 1475:4	1359:22,24 1360:3,5,13,14,20,23 1361:16 1377:21 1428:6 1446:9
circulated 1308:15 1441:5	closest 1352:3 1400:25 1412:25	companies 1493:4
circumstance 1482:3	closing 1395:1	company 1356:11,14 1448:17
circumstances 1499:10,11 1508:14	cluster 1481:25 1501:21	1449:16 1461:18 1471:2,5 1475:18 1476:25 1496:7,19
cities 1352:4	clusters 1495:17	compare 1487:6
city 1338:9 1341:25 1350:12	Coast 1353:18	comparison 1366:2 1380:7
1351:11 1361:10,13 1378:19 1379:1	coastline 1499:18	compass 1490:24,25
1380:5 1381:10 1410:20,23	cognizant 1368:12	competitors 1482:8 1493:4
civilization 1341:2,6,10	COHOE 1346:11,14,18,25 1347:4	complete 1306:7 1430:12 1515:20
clar- 1502:1	cold 1458:21 1459:6 1499:19 1500:11,20	completed 1321:23 1330:1 1371:24
clarification 1330:20 1364:13 1383:20 1384:16 1500:8 1502:2	coldest 1458:24	1372:1
1505:17 1513:16	color 1392:15	completely 1426:5 1436:19
clarified 1330:20	Colorado 1445:16 1471:8	complex 1455:1 1459:11,19,20 1480:16 1486:22
clarify 1513:18	Columbia 1325:22,23 1326:1,20,22	complexities 1478:13,25
clarifying 1338:23	1327:6 1332:1 1333:13 1348:7 1351:18,22 1378:20 1418:11 1447:8	complicated 1478:18
clarity 1372:16 1437:13	1484:10	



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 age 1525 Index: comprehensive..council

comprehensive 1344:22 1345:8 1391:14 compressed 1421:17 computer 1371:17 1397:3,9 1427:17 concern 1304:25 1309:11 1311:6 1454:5 **concerned** 1482:17 1504:20 concerns 1311:2 1338:12 1508:14 **concise** 1370:13 conclusion 1364:23 conclusions 1364:14 1396:14 concocted 1445:2 condition 1332:14 1344:23 1486:15 conditions 1382:20 1459:16 1480:7 1485:10,16 1486:15 condolences 1306:14 conduct 1359:23 1379:11 1380:13 conducted 1323:19 1377:23 1381:12 1382:1 1384:8 conducting 1379:1 confer 1370:23 conference 1463:18 1493:2 confidential 1364:9 1485:19 confidentiality 1504:21 configurations 1355:3 confirm 1309:9 1507:17 confirmed 1431:10 1481:23 1507:15 confirms 1309:10 confluence 1339:13 confused 1385:7 confusing 1450:11 connection 1509:5 consequence 1442:19 conservative 1357:18 **conserve** 1348:5,16 conserved 1349:2 conserving 1349:17 1391:15

considerable 1388:1 1493:18 consideration 1470:21 considerations 1493:14 **considered** 1336:8,11 1383:2 1470:25 1477:6 1480:14 **considers** 1357:13 consistent 1412:15 consists 1400:11 constraints 1456:20 1457:2.4 1495:7 constructed 1455:8 construction 1450:25 1495:10 **consult** 1509:24 consultant 1477:10 consultants 1324:6 1511:3 consultation 1509:22 consulted 1426:9,11 1449:14 1461:24 consulting 1509:25 **contact** 1304:1,3 contacted 1449:16 contacts 1317:3 1318:19 contained 1321:7 1440:7 1454:4 contentions 1406:16,20 **context** 1333:23,24 1342:9 1343:2 1344:15 1350:9 1357:19 1399:21 contextually 1498:3 **continue** 1306:1 1311:2 1312:22 1313:3 1329:11 1331:2 1374:8 continued 1303:6 continuing 1309:19 1310:4,7 1328:21 contracting 1511:3 contrast 1366:24 contributed 1389:4 control 1394:15 1435:4 conversation 1304:15 convey 1306:21 **cool** 1499:8

coordinate 1421:11 coordinating 1430:3 **Cornell** 1445:10 corner 1350:10 1393:19 1409:19 1410:15,21 1451:5 correct 1323:10,12 1324:19,21 1325:20,21 1328:4,23 1329:8,16,17 1331:17,18 1332:16 1333:3 1335:19 1338:20 1340:3,17 1341:2 1343:19 1344:14 1350:23 1351:7,9 1352:7, 16 1353:8,10 1357:4,5,10,17 1358:4,5,16,17 1362:25 1363:1 1368:2 1369:23 1370:2,7 1371:25 1372:2,25 1374:5,15,19 1375:13 1386:23 1387:5,17 1390:14 1407:11 1410:19 1415:21 1431:22 1432:18 1436:2,3 1441:2 1443:13 1447:11 1449:20 1452:14 1456:1 1459:9 1469:1 1475:25 1481:18 1491:15 1508:7 **corrected** 1385:15 correction 1461:5 1474:21 **correctly** 1348:1 1446:1 1477:5 correspondent 1411:17 corresponds 1305:8 corridors 1402:17,21 costs 1495:10 **council** 1303:4 1304:19 1305:1.23 1307:24 1308:5 1311:2,12,14 1312:1,19 1313:22 1314:11 1315:7 1316:5,12,17 1317:6,10,14,18,22 1318:1,5,10,18 1319:14 1320:6 1321:9 1336:3 1346:6 1359:9 1361:12 1369:14 1370:16 1371:5,7 1373:21 1374:4 1376:23,25 1377:19 1378:5,13 1379:16,25 1380:8,15,18, 22,24 1381:7,17 1382:4,7,10,13 1383:4,15,25 1384:13,18 1385:16 1389:19 1392:3,9,19 1393:4 1403:3, 6 1404:25 1408:9 1411:2,4,10,12, 19,22 1412:1,3 1413:15 1416:6,12, 14,19 1417:9,12,13 1420:7 1422:4, 15,16,18 1424:16 1425:20,24 1426:22 1427:22 1428:12,16 1429:14 1430:16,21 1431:2,3,14 1432:5,20 1435:3,7 1436:8,14,23

1437:5,17 1438:4 1467:6 1483:18

1491:10 1492:2,6 1493:12 1494:1,3, 9 1497:10 1504:5,24 1505:18

1506:3,15 1509:12,20,23 1510:5,16,

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2028 age 1526 Index: Council's...deliberations

23 1511:16 1513:5,6 1514:20,23 1515:10.13 Council's 1330:7 1384:2 1421:19 1429:19 1436:20 1511:3 Councilman 1304:1 1305:14 1507:6 councilmen 1418:14 **counsel** 1310:25 1311:1 1319:8,10 1370:23 1373:10 1374:9,10 1420:11,22 1421:12 1429:2 counted 1433:22 counties 1351:18,22 1419:21 country 1333:10,17 1418:4 1484:13 counts 1454:11 **County** 1318:9 1319:4 1325:11,13, 14 1344:22 1347:22 1348:2 1383:24 1384:4 1385:9 1391:14,20 1419:21 County's 1349:16 **couple** 1303:12 1309:6 1313:13 1315:8 1323:4 1332:23 1364:6 1366:7,20 1386:14 1396:2 1399:7 1460:15 1508:9 courses 1326:9 court 1320:15 1491:18 courtroom 1312:7,8

1410:2,4 1444:7 1452:4,21 1457:17

covered 1394:19

COVID 1306:10

Craig 1434:17

create 1372:15 1500:13

created 1387:24 1417:7

creates 1462:22

creative 1419:12

creativity 1419:13

credentials 1356:22 1383:21 1385:15

credibility 1330:25

cross 1359:9 1399:11 1404:17 1437:9 1475:2

cross-exam 1315:17 1320:23 1396:4,24 1407:22 1416:18 1430:2 1510:8

cross-examination 1308:23 1309:14 1310:22 1322:4.16 1330:14 1369:6 1434:1 1439:1 1446:6 1485:23 1510:25

cross-examine 1512:15

crosses 1474:11

crosswise 1475:2

cultural 1369:17,20,22,24 1370:6,9 1410:13,17 1450:6,23

curious 1378:7 1489:14

current 1323:8 1355:2 1380:10 1451:2 1482:1,7 1501:21 1502:25 1503:1

cursor 1325:11 1326:4 1450:15

curve 1469:16

cut 1306:8 1408:6 1441:19 1442:1

cutout 1469:17

cutouts 1469:18,19

cutting 1366:9

CV 1444:2,3,15

cycle 1370:20

D

daily 1417:21

data 1372:21 1377:14 1387:8 1443:1 1454:6,17,24 1455:10,12 1458:23, 24 1459:3,22 1460:2,4,5,7,13 1463:8 1477:11 1479:16,17,21,25 1480:6,12,16 1481:3,5,6,13

date 1310:12 1327:8 1405:2 1421:24 1435:14 1493:9

dated 1477:3

dates 1418:2 1430:3

dating 1425:23

Dave 1506:11

day 1303:11 1306:18,21 1315:10,11 1316:10 1417:23 1425:2 1437:22 1484:7 1487:16 1497:11 1504:4 1507:22 1515:8,13

day-to-day 1495:20

days 1305:1 1306:8 1307:1 1323:21 1405:5,7 1408:18 1436:24 1444:7

1458:21.25 1459:7.13 1484:5

daytime 1375:25 1376:1

Dayton 1352:3,7,12,15

deadline 1313:18 1404:20,22

deadlines 1404:16

deal 1311:9 1313:24 1314:24 1390:15 1396:25 1399:12 1418:21 1420:4 1433:18

dealing 1310:24 1403:13 1464:12

Dean 1393:13 1394:4 1395:5,9 1400:12 1411:3 1414:6 1415:9,12

decades 1425:21,25

December 1446:22 1479:14 1480:10 1481:8

December-february 1479:10

decide 1311:7 1424:23 1484:1

decided 1381:15

decision 1362:17 1431:17 1449:18, 19 1465:21 1468:9,14 1497:6 1510:1 1512:6 1513:2,4,9

decisions 1363:18 1381:14 1451:20 1487:8 1496:3,6,16 1497:21

deck 1358:1

decrease 1413:20 1478:16

decreasing 1478:12

deeply 1445:4

deficit 1500:1,4

define 1348:7 1377:8 1445:3

definition 1312:13 1341:7

degree 1445:10,16 1470:22 1487:12

degrees 1453:16 1489:18 1490:23, 24 1491:2

dehazing 1388:17

DEIS 1329:24 1330:14.25 1331:10 1349:24 1350:1 1365:17 1366:14

deletion 1407:13

deliberately 1320:17

deliberations 1312:2,5 1316:21 1430:19



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 12008 1527 Index: deliberative-type...distances

deliberative-type 1316:18

delivered 1470:9,13 delivery 1308:25

delve 1510:12

demonstrative 1399:12

denied 1431:21

Department 1317:12,16,20,24 1318:8 1380:21 1382:12 1417:15 1492:8

depend 1500:16

depending 1307:6 1364:6 1372:14 1374:23,24 1375:3 1396:22 1434:9 1453:16 1499:17

depends 1422:25 1459:11 1463:7 1465:21 1478:24 1499:14

depict 1331:25

depicted 1375:20

depose 1436:13

- **deposition** 1434:7,14 1436:4,11,15 1437:25 1511:5 1512:13 1513:16,25 1514:25
- depositions 1307:25 1510:13,14 1511:22

deprive 1305:19

depth 1350:15

describe 1326:2,16 1400:16 1402:2 1482:5

describes 1448:11

description 1315:3 1367:3

design 1381:20,22 1403:7 1412:14 1423:4 1427:10 1449:22 1451:7 1456:25 1463:3 1471:16 1483:4,8 1487:11 1505:5

designate 1457:6

designated 1382:25 1391:12

designation 1383:2 1391:16,20

designed 1472:1

designer 1382:3 1468:8

designs 1502:16

desirable 1458:2

destruction 1341:11

detail 1473:24 1475:5

detailed 1448:13 1469:14 1510:18

detection 1376:5

- determination 1413:17
- determine 1376:13 1404:2 1482:11 1514:13

determined 1316:4 1430:4

detrimental 1410:12

devastating 1369:16

develop 1471:12

developed 1308:12 1326:7 1339:13 1341:17 1342:6,11,16 1352:2 1357:16 1411:7 1471:1 1494:15

developer 1456:25 1495:12 1497:3

developers 1491:17 1492:24 1496:24 1497:7

developing 1341:17

development 1326:6,22 1327:5,12 1333:14 1337:22 1340:2,4,6,16,18, 20 1341:15,23 1342:4 1343:21,23 1344:13,16,19,20 1361:12 1368:8 1371:23 1457:2,25 1463:15 1466:6 1494:17

developments 1326:3 1328:9

diagram 1471:23

dialogue 1346:22 1400:4 1505:4

diameter 1466:14 1472:23 1473:22 1487:6 1488:3 1502:23

diameters 1472:25 1473:1,2,11 1488:1,6 1502:11,12,15

dictated 1313:8

die 1306:10

dies 1384:25

differ 1368:1 1422:21

difference 1339:15 1485:9 1502:4

differently 1424:18 1486:19

difficult 1385:4 1415:3,10 1421:16 1424:9

difficulties 1486:4

difficulty 1310:24

digest 1409:3

diminished 1397:8

direc- 1453:7

direct 1378:1 1442:8

direction 1325:17 1453:8,15,22 1463:7 1479:10,18 1481:7,10 1482:13 1483:5 1488:25 1489:6,17, 20,21 1490:7

directions 1455:1 1494:11

directly 1360:6 1362:12,13 1379:19 1393:1 1477:8 1512:21

Director 1509:24

directors 1307:22

directs 1404:18

disagree 1333:13,19,21 1355:15 1454:3 1512:18

disagreements 1366:14

disappointed 1503:19

disclosable 1477:7

disclosures 1314:14 1317:3 1318:19

disconnected 1466:22

discovery 1486:21 1510:13 1511:5, 22

discuss 1470:4

discussed 1409:9 1435:5,20

discussing 1375:10,14,23 1404:3

discussion 1350:25 1381:1 1401:13,25 1422:6 1430:13 1431:5 1450:1,2,21,23 1451:3 1456:14 1511:24

disease 1419:6

dispersed 1336:23

displayed 1465:5

displays 1441:8

disrupted 1418:17

disruption 1326:24

distance 1338:18 1375:22 1400:22 1401:2,6 1403:13 1411:16 1455:3 1470:24 1473:17,19 1476:3 1488:21,25 1489:7,9 1493:18

distances 1336:9 1403:21 1472:17



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

distant 1470:25

distinct 1471:6

distinction 1512:16 1513:13

distort 1372:13

distortion 1372:15 1402:22

distributed 1312:18

divide 1501:12

dizzy 1465:11

document 1324:15,20 1325:5 1326:13 1337:18 1348:4,19 1366:4 1402:23 1463:12,24

documents 1309:2 1312:17 1345:6 1346:8 1515:20

dollars 1501:7,11

dominance 1403:21

dominant 1403:22 1453:6,22 1463:6

dominate 1367:6

Don 1307:16

dot 1502:17

dots 1400:22 1401:8 1457:18,21,24 1458:4,5,6 1488:16

doubt 1454:20

Douglas 1384:4

downhill 1478:14 1489:22 1490:4, 17

Downslope 1490:13

downstream 1463:19 1473:19 1476:13 1481:15,18 1482:24 1494:21 1501:1

downward 1478:20

downwind 1478:15 1488:24 1489:22 1497:22

draft 1324:1,2 1329:20 1330:8 1360:8 1365:2 1396:13

drafted 1513:11 1514:3

drafting 1362:4,9

dramatically 1357:15 1380:4 1459:14

drawing 1338:7 1474:10 1479:13

drawings 1311:12 1329:15

drawn 1448:3 1512:16

drew 1303:4 1317:10 1411:2,4,10, 12,14,19,22 1431:11 1492:2 1515:7, 10

Drew's 1309:20

drive 1336:22

driven 1336:20

drivers 1337:3

dryland 1329:12 1333:10 1335:17

due 1351:23 1406:23 1450:25 1457:4 1463:20

duly 1321:1 1395:5 1440:1

Е

e-mail 1308:13 1431:1 1441:7 1507:20

e-mails 1308:14

earlier 1305:25 1310:23 1375:14 1384:22 1392:11 1403:6 1455:21 1480:20 1509:18

earliest 1507:20

early 1384:8 1392:6,7 1448:16 1483:12 1487:16,23

earth 1357:13 1358:13,24 1444:19 1473:9

easier 1325:6

easiest 1491:1

easily 1311:4,5 1501:6

east 1333:22 1341:22 1349:7 1351:23 1353:18 1367:9 1400:20 1450:12 1453:6 1458:15 1459:8

east-to-west 1414:16

eastern 1350:12 1500:10

echo 1303:16 1394:25

Ecology 1317:17

Ecology's 1376:24 1422:18

economic 1361:12 1442:25 1443:16 1455:15 1468:21 1477:9 1496:18 1497:18 1504:25 1507:22

economics 1456:13 1470:3

Page 1528Index: distant..employed

Ed 1318:10

eddies 1462:18

edge 1337:21,24 1401:2

edition 1320:4

edits 1388:15

educational 1445:7

effect 1470:25 1478:10,17 1485:17 1490:12,14 1496:17

effective 1311:14

effects 1370:2,3,5,7 1481:16

efficient 1439:16

effort 1389:21 1419:20 1475:15

EFSEC 1306:11 1307:19,23 1308:14 1317:9 1319:14 1324:5 1360:9 1372:22 1376:24 1377:11 1391:6 1394:14 1403:3 1417:16 1422:19 1431:3,4 1461:8 1492:9 1510:5 1513:10

egregious 1423:19 1424:4

EIS 1324:1,2 1329:21 1330:8 1364:17 1390:23,24 1514:3

EI 1499:19

elaborate 1417:6 1429:19

electronic 1371:9

element 1421:3

elements 1349:11 1486:16,24

elevated 1348:6,17 1349:18 1391:16

elevation 1329:10 1339:16,20 1415:4 1459:13,21 1478:13

Eli 1317:18 1373:11,25 1376:24 1422:18

eliminate 1394:2 1496:4

eliminated 1506:4

Elizabeth 1317:14

Ellensburg 1384:1,9

else's 1507:23

Emily 1318:24

emphasis 1444:13,14

employed 1469:8



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1529Index: employee..explaining

employee 1323:9	established 1382
employer 1323:8	estate 1419:14
end 1316:19,22 1319:3 1345:24 1346:3 1374:2 1397:12 1398:6 1428:11 1437:22 1441:18,21,24	estimate 1399:7 ⁻ 1475:15
1483:10 1496:14 1498:4 1511:24	estimated 1307:4
endangered 1457:4	Ethan 1319:15
endeavor 1315:2	Europe 1472:3
endorsement 1505:10	evaluated 1355:1
energy 1303:4 1383:25 1384:12	evaluation 1303:
1433:6 1434:18 1435:4 1436:10 1443:2 1444:21,23,25 1446:18	events 1315:13 1
1456:6,10 1457:12 1460:5,9 1463:1,	eventually 1446:
4,18,20 1464:6 1465:23 1468:10 1469:13 1471:13 1475:19 1476:17	everybody's 146
1477:19 1488:23 1492:20 1495:6	everyone's 1362
engage 1504:19	Everything's 149
engaged 1379:23	evidence 1404:18
engineers 1423:16	evidentiary 1315
enjoy 1418:10 1419:13	evolved 1487:12
enlighten 1378:8	exact 1406:2 1458
ensure 1426:24	examination 133 1400:9 1442:8 14
entered 1444:20 1504:21	examine 1324:15
entering 1485:18	Examiner 1398:1
enters 1378:20	examples 1340:1
entire 1359:19 1414:16 1420:2	Excellent 1491:2
environment 1319:8,11 1373:11 1374:9,10,12 1420:12 1421:12	exception 1404:2
1500:13	exceptions 1502
environment's 1420:23	excessive 1471:1
environmental 1324:6 1364:16	exchange 1469:3
1365:2,7 1396:13 1457:3 1495:8	exclude 1404:19,
equal 1469:25	excluded 1450:4
equipment 1453:17	exclusively 1450
equivalent 1356:23 erected 1447:10	excuse 1325:18 1
erudite 1445:13	1392:13 1460:24
escapes 1375:7	excused 1430:7
-	exercise 1378:15
escarpment 1411:18 1458:24 essential 1383:10	exhibit 1312:6,12 1383:19 1394:6,10
essentially 1511:4	1396:23 1399:12
coscillary 1011.4	14,22,24,25 1406:

2:14 1487:14 1439:21 1473:3 exhibit's 1399:24 4 11 :4 1417:19 513:12 :20 67:5 1510:20 2:7 99:15 8,19 1438:3,5 5:20 8:10 34:16 1371:19 58:23 1484:19 5 1433:24 0 14 25 20,23 2:22 18 3 ,25 0:5 1341:22 1366:21 1465:13 1473:16 1503:24 5 2 1321:16 1332:13 6 1395:13,21 1400:11 1404:1,2, 5:14 1407:1,11,20

1408:2 1421:1 1422:12 1439:5 1440:13.15.24 1453:25 1454:4 1463:9 1472:19 1482:5 1485:23 1501:1,2 1503:11 1515:17,19

exhibits 1308:22,23 1309:15 1311:25 1314:18 1315:4,19 1320:1, 23 1321:7,14 1322:18 1394:5 1395:12 1438:10,25 1439:1 1440:7 1503:8

exist 1325:3

existed 1447:14

existence 1460:2

existing 1332:13 1351:7 1403:17 1472:13 1482:1,20

exists 1424:13

expand 1337:25

expanded 1338:3,15 1343:13

expanding 1338:11

expansion 1500:5

expect 1306:20 1307:3 1309:24 1455:6 1476:12 1486:15 1490:9,11 1505:15 1513:9

expectations 1383:12

expected 1453:8

expects 1490:9

experience 1340:13 1356:20 1382:24 1396:11 1425:21,25 1465:17 1469:9 1471:6 1494:14

experienced 1502:25

experiences 1480:23

expert 1356:17 1369:20 1391:18,19 1396:10 1408:1 1427:3,8,12

expertise 1375:6 1391:22 1418:1 1423:17 1427:10 1441:9 1451:19 1468:12

experts 1376:12 1427:5 1511:3

expired 1313:19

explain 1382:15 1383:7 1400:12 1409:16 1485:9,15 1488:11 1492:21 1493:21

explaining 1388:16



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

explains 1463:25

explanation 1409:17 1504:10 1512:11,16

exploring 1363:17

extend 1366:6 1500:14

extends 1458:15

extensive 1416:1 1444:2

extent 1311:20 1370:3 1376:9 1401:23 1409:25 1411:17 1431:14

exterior 1374:20,22

external 1501:20

extra 1311:8

extreme 1309:1

eye 1415:4 1473:4 1474:22

F

FAA 1375:9 1376:3 facetious 1469:24 facilities 1435:4 facility 1303:4 1383:25 facing 1306:9 fact 1330:9 1352:23 1434:14 factor 1462:8,25 1463:2 1499:22 factors 1456:5 1457:9 1465:21 1470:2 fair 1342:2 1343:17 1344:11 1350:2 1353:11 1355:10 1360:18 1367:17 1380:7 1385:6 1391:13 1404:4 1410:15 1425:20 1429:23 1444:6 1451:24 1474:8 1481:7 1499:12 1511:6 fairly 1333:23 fairness 1407:21 fall 1506:25 familiar 1327:12 1351:2.3 1390:11 1449:6,13 1460:6 1463:23 1474:20 1475:9 family 1305:25 1306:14 fancy 1345:5 fantastic 1392:1 1508:1

farm 1447:13 1454:8,13 1458:2 1462:12 1463:3,6 1470:16,17,21 1471:1 1472:3,6,7,12,22 1476:16,23 1481:21,24 1482:4,6,15 1491:24 1492:24 1493:16 1494:10,14,16,24 1495:2,17 1501:20

farmhouses 1336:24 1341:18 1353:3,6

farms 1470:24 1471:14 1472:9,20 1487:11,24 1490:20 1492:21,22 1495:16,19

farther 1333:9 1341:22 1499:11

fascinating 1492:11 1499:16

fashion 1474:7,16

fast 1422:17 1452:23 1464:1,7

faster 1419:4,9 1500:2

fat 1411:21

favor 1431:19 1505:20

favorite 1503:20

fear 1322:19

feasibilities 1456:7

feasibility 1442:25 1443:16

feature 1333:16 1450:13 1490:5

features 1333:22 1488:20 1489:21

February 1356:24 1479:15 1480:10 1481:8

Federal 1375:11

feedback 1377:4,22 1378:4 1394:3 1397:10 1456:24 1492:19

feel 1306:20 1333:12 1355:15 1366:17 1380:6 1413:21 1425:16 1484:23 1493:21

feels 1306:17

feet 1339:20

felt 1455:7 1459:14

fever 1406:24

fewer 1305:2 1335:18,23

Fidorra 1509:19 1510:22 1513:17

field 1323:19 1403:20 1425:6 1427:18,19

fieldwork 1339:11 1384:9

Page 1530Index: explains..flight

fighting 1309:22

figure 1303:17 1304:24 1307:20 1346:3 1350:22 1351:5 1357:18 1406:4 1427:13 1433:4,8 1450:3 1479:4

figures 1357:12

filing 1448:7

fill 1507:8

final 1490:22 1514:3

finalized 1308:6

financial 1456:7,13 1465:22 1466:5 1495:11

find 1311:20 1326:13 1343:6 1347:17 1417:24 1420:4 1423:4,18 1428:8 1490:6,7 1506:15

findings 1365:4

finds 1425:5

fine 1314:8 1365:20 1389:25 1438:17 1465:10 1484:11 1506:2

finish 1467:17 1504:10

finished 1504:3

finishing 1315:8

fire 1304:12,19 1434:18 1435:4 1492:5

fires 1309:22

firewall 1307:19

firm 1462:12

Fish 1307:18 1317:20 1380:21 1511:8,9,13

fit 1485:16 1496:20

five-minute 1439:20 1460:1,6,12 1467:2

flag 1307:5

flat 1328:7 1333:17 1485:10

flatter 1328:19

flesh 1510:21 1511:1

flexibility 1473:13 1508:16

flexible 1506:11

flies 1411:7

flight 1508:6,10,19,25 1509:3



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1531Index: flights..Gosh

1475:12 1480:14 1481:7 1483:7

1490:6 1495:5 1513:25

generals 1431:4

generated 1456:11

generates 1464:6

generic 1464:24

giant-size 1312:8

gild 1429:22

generation 1469:22

geographical 1383:20

geography 1385:7 1386:4

geomorphology 1338:16

generically 1487:10 1489:15

flights 1508:11 floods 1348:8 floor 1322:14 flow 1459:19 1462:18 flows 1339:14 1514:6 focus 1331:19 1343:12 1364:24 1423:14 1463:19 1493:13 1478:2 focused 1324:13 1326:9 1429:11 1466:11 focuses 1376:10 fog 1472:5 folder 1320:7 1394:13,22 folks 1357:25 1378:3 1471:12 1487:15 follow 1420:21 follow-up 1392:10 1435:19 1437:16 fond 1362:7 fooling 1481:12 Forecasting 1491:14 foreground 1337:7 1344:16 Forest 1379:4.5 1418:3 1495:16 Forgive 1334:9 1373:6 form 1452:6 formal 1316:22 formalize 1308:8 formally 1317:1 format 1437:3 formation 1328:10 1339:12 formations 1329:2 1411:13,16 forward 1306:2 1314:2 1368:25 1495:12,13 1504:15 1510:25 Fossum 1390:8 Foster 1319:6 found 1327:5 1329:20 1331:9 1333:2 1358:11,23,25 1367:22 1471:10 1481:19 1511:20 foundation 1362:7 1403:25 fraction 1390:5 fragmented 1310:25

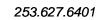
frame 1481:8 framed 1443:5 frank 1311:16 frankly 1305:17 1306:6 1307:11 1360:25 1416:5 1441:3 1507:21 free 1333:12 1355:15 1444:10 frees 1506:5 frictional 1486:24 Friday 1315:25 1316:7 1422:1 friendly 1484:10 1510:25 front 1306:8 1307:24 1314:5 1345:15,16 1411:18 1412:14,20,21 1485:7 1497:22 1507:9 frustrating 1502:23 full 1306:16 1307:3 1311:25 1316:10 1342:9 1361:15 1406:23 1408:2 1421:21 1467:6 1507:16 fully 1420:3 fund 1494:23 fundamental 1487:1,13 1489:24 future 1385:15 G qain 1339:16 gap 1332:2 1383:23 1384:3,5 1501:6 gardens 1419:6,7,9,10 Garfield 1351:17,22 gather 1430:16 gave 1414:15

GE 1466:13 1469:7

general 1306:25 1323:23 1325:3,10, 11 1327:10 1335:22 1338:13 1364:25 1373:19 1431:3 1448:8 1457:1,11,13 1465:4 1474:9 1476:17 1482:22 1487:10 1510:1

generalization 1403:12

generally 1327:5 1341:2 1403:10 1443:7,13 1452:7 1459:13 1462:11





1341:6 1360:24 1390:5 1396:1 1397:25 1406:11 1416:19 1433:20

1436:14 1439:11 1467:9 1477:12 1504:10 1507:1

giving 1515:16

glad 1412:11 1438:19 1493:20 1508:10

give 1315:2 1320:20 1321:8,14

globally 1457:2

globe 1499:16

goal 1348:5,16,19,21 1457:11

goals 1345:2,8 1348:1 1466:6

gods 1398:3

golf 1326:9

good 1303:10,20,21 1305:5,9 1309:18 1315:7 1318:12,23 1319:7. 9,13 1320:12,13 1334:1 1337:11 1338:16 1349:21 1369:8,9 1373:18 1380:23 1382:10 1391:11 1393:16, 18,20,22 1403:8,12 1422:24 1426:17,20 1432:12 1438:15 1439:19 1441:24 1445:21 1446:8 1453:3 1464:7 1466:10 1469:21 1492:6 1504:3 1509:5 1515:24

Google 1384:5 1473:9

Googling 1491:20

Goose 1349:5

Gorge 1418:11 1484:10

Gosh 1470:1

Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

Page 1532Index: governor..hit

governor 1497:15 governs 1492:20

graduate 1445:12

graduated 1445:19

Grand 1418:10

granted 1496:2,15

GRANTHAM 1317:8,12,16,20,24 1318:3,7

great 1303:17 1305:7 1308:7 1460:13 1477:22,23 1487:4 1490:21 1515:11,18

greater 1479:2 1489:7

green 1401:4 1402:11 1413:3 1449:11

Greg 1438:9 1440:5

Gregory 1438:12 1440:1

grid 1443:1 1473:11,20

gridded 1473:11

grieving 1306:15

ground 1330:7 1358:6

grounds 1365:22 1434:8

group 1414:22,23

groups 1377:21 1378:9 1426:25

grow 1487:20

guarantee 1435:1,14

guess 1312:13 1324:24 1350:6 1378:6,15 1407:22 1409:5 1473:3 1495:22 1503:1

guide 1413:13 1495:6

guidelines 1372:5,10

Gustafson 1434:17,20,24

Guthrie 1307:12 1310:19 1313:1 1314:15 1315:14 1319:21,25 1320:12 1321:1,5,22 1323:3,25 1328:2 1332:16,21 1337:13 1344:9 1345:17 1347:20 1369:1,8 1373:18 1377:1 1380:20 1382:11 1385:4 1386:7,14 1387:25 1388:9 1391:18 1392:12 1393:7 1402:1 1408:1 1417:17 1424:25

Guthrie's 1320:1 1412:24 1426:8

guys 1314:6

н

half 1307:3 1359:10 1439:7 1464:1, 3,7 1487:25 1488:1 1507:2

hand 1320:19,24 1395:10 1401:23 1420:17,20 1422:3 1425:18 1436:25 1439:9,23 1450:15 1461:13 1473:17 1475:13 1479:22 1490:8

handled 1472:13 1476:15

hands 1371:9 1421:20 1480:21 1492:2

happen 1304:24 1311:13 1356:12 1388:4 1397:2,12 1430:4 1433:8 1434:21 1455:22 1471:6 1483:3 1494:22,25 1500:22 1508:17 1512:22

happened 1392:2 1410:7 1419:25

happening 1303:23 1305:11

happy 1337:13 1385:25 1433:23 1511:25

hard 1405:20

harm 1410:12,17

Harper 1319:5,6 1498:19,20

hassle 1346:2

hate 1440:22

he'll 1318:14 1437:25

head 1327:8 1339:18 1340:23 1344:3 1478:23

heading 1489:13

healed 1419:9

healing 1419:4,10

hear 1308:16 1315:8 1373:22,23,24 1374:3 1385:23 1404:6,10 1440:19 1460:13 1509:6 1511:25

heard 1318:13 1409:12 1426:15 1431:17 1496:17 1505:19

hearing 1304:23 1305:12 1306:5,9 1307:1 1310:12,23 1311:4 1315:10 1316:10,22 1318:15 1319:3 1361:3 1408:15,16 1409:6 1421:24 1430:15 1435:15 1437:2,12 1438:11 1459:17 1497:12 1503:10 1509:14 1512:8 1514:14 1515:8 hearings 1508:20

heart 1359:15

Heaven 1313:6 1318:7 1323:16 1328:22 1331:20,25 1333:15,18 1335:1,2 1337:9 1338:2,5,17 1339:4 1340:1,17,18,22 1342:4 1343:4,12, 15,18,19 1344:8,14,24 1348:10,13, 18,22 1349:15,19 1357:24 1358:1,4 1447:2,7 1455:8,9 1464:17 1474:17 1475:11 1482:12 1485:11 1488:16 1489:15,16 1490:3,16

height 1403:16

heights 1481:1

held 1348:14

Hells 1484:4

helped 1400:16

helpful 1345:25 1346:3 1397:13 1403:4 1486:8 1514:18

helping 1445:3 1456:25

helps 1385:8 1395:2 1505:17

high 1335:20 1366:25 1367:13 1415:1 1423:6 1426:21 1469:18

high-pressure 1459:12

higher 1403:11 1478:17,21

highly 1330:7 1357:18 1367:12

Highway 1352:11,15,24

hill 1349:5 1411:13 1489:13 1490:5, 14

hills 1323:16 1328:22 1331:20,25 1333:2,15,18 1335:1,2 1337:9 1338:3,5,17 1339:4 1340:1,17,18,22 1342:4 1343:3,4,12,15,18,19 1344:8,14,18,24 1348:10,13,18,22 1349:16,19 1357:24 1358:1,4 1380:4 1418:15 1447:7 1454:10,16 1455:4 1459:20 1464:17 1488:16 1490:4,15,16

hillside 1343:14

hilltop 1344:20

hilltops 1486:17

hired 1471:7

history 1458:11

hit 1478:21

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

hmm 1469:10 1477:22 hold 1399:23 1439:20 1498:12.14 holding 1473:24 1507:16 home 1418:13 1427:17 hub 1481:1 hone 1334:7 1448:21 Honor 1303:22,25 1305:22 1306:20 1313:16 1318:24 1319:5,10,14 1320:9 1321:21 1324:23 1327:19 1469:9 1329:23 1331:5 1341:4 1360:23 1364:11 1365:13 1369:4 1371:5,11 1373:8,13 1380:19 1384:19 1385:17,18 1389:3 1391:2,18 1398:17 1399:2 1400:3 1403:23,24 1404:13 1405:19 1407:5,24 1408:24 1411:1 1415:23 1417:2 1420:15 I-82 1335:20 1422:6 1428:21 1431:1,13 1432:22 **Ice** 1348:8 1434:13 1435:18 1437:8 1440:21 1441:17 1442:6,16 1451:16 1466:20 1468:2,19 1479:20 1484:17 1488:9 1426:12 1491:5,7 1498:10,18 1504:9 1506:21 1507:13 1512:3 1514:10 1515:5 1398:11 Honor's 1504:23 hope 1308:24 1315:15 1325:6 1327:1 1385:8 1432:14 1465:11 1503:8 1344:20 hoped 1311:10 hoping 1312:16 1439:6 1481:21 Horns 1472:22 Horse 1313:6 1318:7 1323:16 1328:22 1331:20,25 1333:15,18 1335:1,2 1337:8 1338:2,5,17 1339:4 1340:1,17,18,22 1342:4 1343:4,12, 15,17,19 1344:8,14,24 1348:10,12, 18,22 1349:15,19 1357:23 1358:1,3 1447:2,6 1455:8,9 1464:17 1474:17 1475:11 1482:12 1485:11 1488:16 1489:15,16 1490:3,16 hospital 1419:4,10 hot 1357:22 1459:20 hour 1307:4 1359:11 1432:14 1439:7 1467:17 1506:6 1507:1,2 1509:23 hour-plus 1393:8 hours 1316:10 1439:14 1509:1

house 1340:11 1343:25 1436:6

housekeeping 1303:12 1309:6 1313:12 1435:17.19 1507:19 1514:12 1515:14

Houston 1319:15

human 1306:23 1308:18

hypothesized 1417:7

hypothetical 1384:23 1468:15,19

hypotheticals 1379:12 1380:12

L

identified 1341:14 1402:18 1410:13

identifies 1392:14

identify 1327:19 1362:1 1397:8

ignore 1483:5

image 1334:10 1339:21 1342:17

images 1448:6

imagine 1314:10

immediately 1363:12 1508:19

impact 1321:23 1323:10 1324:1 1326:17 1329:25 1356:17,18 1363:4,25 1364:16 1365:3,7,9,20 1366:3,17,25 1367:3 1376:13 1380:4 1381:9,20,23 1386:19 1387:10 1396:13 1403:11 1407:15 1409:19 1410:11,12 1412:7,15,18 1413:6,7,21 1414:19 1418:4,21,22 1423:5,7,8,13 1424:1,8,14,24 1425:22 1426:5,10 1427:1 1429:7 1442:22 1471:18

impacted 1353:6,7 1370:6 1454:13 1455:7 1476:13 1482:25

impacting 1412:7 1456:6

impacts 1315:16,23 1321:23 1322:1 1360:2,15 1362:22 1363:7,12,15,17, 22 1364:15 1366:15 1367:13,22,25 1368:7 1369:15,22,24 1370:8,9 1374:16 1375:15 1376:11 1382:16

Page 1533Index: hmm..industry

1383:2.6 1386:16 1403:8 1407:16 1408:11 1409:10.15 1410:15 1415:1 1416:15 1418:19,23,24 1423:12 1426:21 1430:13 1449:24 1475:15 1476:11 1487:8 1492:22 1504:16

implications 1493:8

implies 1488:18

implying 1485:13

importance 1369:17 1500:24

important 1311:9 1333:23 1336:6 1382:15 1383:9 1417:18 1419:17 1425:15,16 1444:15 1462:25 1463:2 1475:7,8 1492:24 1497:14 1502:3

impossible 1465:20

improve 1413:5,6 1488:8 1490:20

improvements 1326:2

in-box 1431:6

in-person 1311:3 1312:8

inaccurate 1454:18,19 1480:17

inappropriate 1416:5

include 1344:25 1367:8,9 1370:5 1377:4,9

included 1331:14 1335:12 1378:8 1447:6 1449:8

includes 1369:25

including 1309:2 1363:17 1388:7 1436:1 1471:5

inconsistent 1422:7

incorporate 1324:11

increasingly 1312:23

independent 1477:10

indicating 1515:25

indication 1309:9 1360:24 1513:22

Indiscernible 1488:10

individual 1311:11 1358:3 1402:25 1427:1 1448:14.24 1449:24 1497:15

individually 1312:19

indulging 1410:25

industrial 1327:16 1419:1

industry 1419:10 1471:4,5,13 1482:2,20 1486:21 1487:13,22



Horse Heaven Wind Farm	
Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023	

Page 1534Index: infinite..Judge

verbalini Record or Proceedings, Aujo	
1493:1	interventio
infinite 1425:11	intrafarm
influence 1492:14 1493:17	intricate 14
inform 1360:14	introduce 1438:9 144
information 1409:4 1416:5 1421:18 1454:3 1455:16 1461:1 1464:25	introduced
1477:6,8 1479:20 1480:9,15	introduces
1485:19 1492:10 1497:12 1504:18, 20 1513:15,17,19	introducing
informational 1316:18	Introductio
initially 1405:11 1406:7	inventory
input 1431:22 1514:2 1515:7	inversions
inputs 1390:13 1451:15	investigate
inquiries 1323:13	investigatio
installed 1492:16	investment
instruction 1449:25	invitations
intend 1344:25 1429:21	invite 1430
intended 1337:15 1342:8 1372:12	invited 137 1426:25
intends 1344:23	involve 13
interact 1487:20	
interaction 1462:13 1476:16,24 1481:22	involved 1 1379:20 13 1391:10 13
interactions 1378:1 1493:15	1434:19 14
interest 1336:3 1374:11 1408:7 1446:21 1504:14	1448:13,18 1461:18
interested 1416:13,14 1421:19 1446:24 1505:4	involveme 1428:5,6 14
interesting 1389:23	involves 1
interfarm 1493:15	involving ²
interferes 1462:17	irregular 1
interject 1384:20 1403:24	irregularly
internal 1448:19 1481:21	isolated 13
internally 1495:13	issue 1307 1423:14 14
international 1445:1	1504:2
interpretation 1454:7,12	issue's 13 ²
interrupt 1334:9 1415:12 1460:25	issues 130
interrupted 1467:20	1313:1 132 1430:18 14 18,21,23 14
intervenor 1319:19	
intervenors 1511:13	1497:19,23
1	

n 1511:11 1493:14 469:20 1314:22 1315:4 1399:16 12:2 1492:4 d 1314:3 1399:11,25 **s** 1421:3 **g** 1441:16 on 1452:19 1379:14 1500:13,20 ed 1360:11 i**on** 1352:13 **it** 1466:6 1495:14 1379:21 0:21 77:21 1378:6,9 1379:17 863:14 1442:21 323:11 1358:19 1359:24 387:6.9 1388:19 1390:9 392:22 1393:2 1427:21 445:4 1447:1,12,16,18,20 8 1451:20 1452:12 nt 1388:19 1425:4 446:25 425:3 1424:19 455:4 1488:17 349:11,12 7:21 1310:18 1371:12 433:3,24 1470:7 1492:24 13:6 1374:2 03:13 1306:10 1311:22 23:4 1396:20 1406:19 134:19 1435:4 1442:17, 444:9 1492:13 1494:12 3 1505:15

item 1313:12 items 1316:2 J Jansen 1513:20 January 1479:14 1480:10 1481:8 Jason 1509:19 Jerry 1316:3 1506:16 1507:10 Jessica 1319:15 jet 1499:17 **job** 1305:7 1410:6 1446:17 1447:4 1472:14 join 1318:16 1420:16,25 1421:4 joined 1323:7 1356:14 1446:18 1447:3,10 joining 1314:12 1447:19 Jones 1319:15 Judge 1303:5,10,23 1304:16 1306:4 1307:11 1308:3,7 1309:8,17 1310:10 1311:24 1313:5.25 1314:10,21 1315:1 1318:12 1319:1, 7,12,16,24 1320:11,14 1321:3,5,12 1322:3,13,25 1324:24 1327:25 1330:3,6,18,23 1331:6 1341:5 1346:6 1359:2,5,12 1361:2 1364:5, 12 1365:23,25 1366:8 1368:11,15, 24 1370:12,21,24 1371:6 1373:9 1374:1 1376:19 1377:7 1380:17 1382:9 1383:16 1384:11,15 1385:6, 9,13,19,24 1386:3,7 1389:7,11,13, 15 1390:1,11,15 1391:21 1392:1,6 1393:6,16,20,23 1394:1,12,21 1395:7,9,17,25 1396:21 1397:7,17, 20,24 1398:2,13,20 1399:9 1404:4,9 1405:1,6,13,22 1406:9,22 1407:18 1408:4,21 1411:2,24 1416:11,24 1417:5,11 1420:11,19 1421:8 1422:14 1428:19 1429:14,23 1430:9 1431:9,18 1432:1,4,12,19,24 1433:11 1434:22 1435:11,21 1436:3 1437:24 1438:15,19 1440:3,5,11,18 1441:6,20,23 1443:6,12 1451:21 1452:2 1467:1 1468:11,20 1469:2 1479:23 1483:9,14,24 1484:9,14 1491:9,18,22,25 1494:2 1495:25 1496:12 1497:9,25 1498:2,12,19,20, 22 1503:3,7,14,18 1504:1 1505:9,25



1506:23 1507:18 1508:5,25 1509:8

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

1513:3 1514:19 1515:6,12 judgment 1497:5 July 1404:22 1447:11 jump 1376:20 jumped 1468:3 June 1372:22

jurisdictions 1492:17

jury 1312:9

justification 1405:8

κ

Kansas 1503:20

Kathleen 1303:4 1317:10

Ken 1319:6

Kennewick 1361:10

key 1365:9 1373:3 1377:2,22 1392:23 1400:21 1414:14 1424:7 1443:17 1494:6 1501:18

kilometers 1474:23,24,25 1482:15 1502:5

kind 1305:8 1310:9 1312:18 1313:3 1316:25 1323:14,23 1325:3,10 1327:11 1328:9,10,15 1329:6,21 1331:20,23 1332:22 1333:12,15,19 1334:7 1337:11,25 1338:1,13 1339:11,14 1340:15 1344:13,23 1350:9 1356:21 1365:16 1374:20,22 1375:15,20 1376:2 1381:13 1384:22 1396:2 1400:16,19,25 1401:4 1402:17,19,21 1413:23 1414:16 1418:19 1439:11 1445:4 1448:21 1453:20 1457:10 1462:5 1464:4 1466:10 1472:5 1473:3 1475:23 1478:11 1482:17 1484:22 1485:9, 10,13 1486:9 1487:7 1488:7,19 1489:13,18 1497:2 1508:15 1513:6 1514:12,17

kinds 1311:5 1379:11 1383:12 1478:19 1497:7

Kittitas 1383:23 1385:9

knowing 1409:9 1446:24

knowledge 1449:16 1461:17 1466:19 1501:6

Kobus 1310:5 1433:14,15 1434:2,

10 1435:24 1436:8,16,20 1506:11 1507:5,10 1509:9 1512:12 1513:13 1514:6,7,13,16,22

Kobus's 1434:14

KOP 1373:3

KOPS 1373:1

Krupin 1400:15 1404:7

L

labeled 1402:20

Laboratory 1403:19 1445:17

Lacey 1303:3

lack 1330:20 1505:6,10

laid 1474:6

Lakes 1337:20

land 1411:12,16 1499:7

land-use 1356:16 1391:18

landform 1329:4 1338:15 1342:15

landforms 1323:23 1325:3,10 1332:22,24 1333:1 1338:14 1342:12 1348:24 1349:1,13

landowner 1458:12

landowners 1456:21,23 1457:6 1473:12 1495:9

landowners' 1492:17

lands 1348:12 1391:20 1492:17

landscape 1341:11 1348:7 1358:6 1367:11 1382:24

landscapes 1379:11

language 1305:16 1344:25

large 1353:19 1355:14,16 1367:7 1381:5 1456:22

largely 1365:4

larger 1312:4,7,12 1313:2 1367:15 1375:5 1466:14 1493:4 1495:19

last-minute 1421:15

lastly 1512:18

late 1308:25 1420:25 1421:1

late-breaking 1513:24

Page 1535Index: judgment..letter

late-filed 1309:2

Late-summer 1310:8

latest 1430:14 1439:15,21 1509:3

Latinx 1377:20 1392:15

latitude 1436:14 1499:17

latitudes 1500:23

law 1303:5 1321:3 1395:7 1440:3 1504:24,25

laws 1383:6

lay 1362:7

layer 1400:25 1412:19,22 1424:2

layers 1400:24 1402:24

laying 1403:25

layout 1350:3 1357:1,3 1362:5,24 1423:5,15 1447:16 1448:20 1449:22 1451:7 1465:18,19 1466:11 1467:25 1469:6

leaders 1360:20,24 1377:21 1392:24 1426:25

leading 1337:24

leaning 1431:19

learn 1433:23

leave 1307:15 1314:6 1496:19

leaves 1462:14

leaving 1374:6

left 1313:6,14 1329:6 1344:21 1413:18 1425:15 1426:5 1446:17 1450:6,11 1464:15

left-hand 1450:2,6

legal 1311:1

legend 1351:7

legendary 1369:16

legs 1385:2

lengthwise 1472:25

lengthy 1444:20 1500:19 1510:14

Lenny 1318:1 1382:9,11 1411:25 1417:14 1492:4,7

lessen 1410:11 1413:6

letter 1308:4 1431:5,7,15,16 1510:2 1511:19



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

letting 1438:23

level 1327:20 1359:19 1414:19 1415:4 1423:6,7 1424:1,8,14,24

Levitt 1317:18 1373:11,21 1374:1,4 1376:20,22,23,24 1377:19 1378:5, 13 1379:16,25 1380:8,15 1392:8,9, 19 1393:4 1422:4,15,16,18 1424:16 1425:20,24 1426:22 1427:22 1428:12,16

liberal 1399:14

life 1306:11,12

lighting 1373:14 1374:14,16,20,21, 22 1375:4,8,10,11 1376:11

lights 1375:17,19,22,23,24,25 1376:1,3,14

lily 1429:22

limit 1307:20 1353:20 1399:15

limitation 1437:9

limitations 1368:13 1510:11

limited 1307:24 1310:20 1370:17 1435:12,25 1513:14 1514:5

Limiting 1354:5

limits 1442:18,24

linear 1474:7 1488:18

lines 1337:6 1340:25 1341:9 1354:16,21,24 1358:20 1379:4 1380:3 1423:12 1448:3 1453:5 1457:5 1458:20

link 1460:14

Linnea 1390:8

Lisa 1309:9

list 1309:12 1361:15 1432:21 1440:14 1443:11 1515:19

listed 1345:2 1463:12 1467:10

listen 1359:9 1455:22,24

listening 1397:3

lists 1515:17

literally 1457:17

live 1423:8,9

lives 1382:18 1383:8 1417:21 1418:8

Livingston 1317:22,23 1376:20 1380:17,18,20,24 1381:7,17 1382:4, 7

loan 1494:23

local 1381:3 1419:18 1471:7

localized 1480:7

locate 1448:24

located 1372:18

location 1326:21 1339:15,17 1354:20 1357:23 1367:7 1443:14 1457:14 1475:12 1482:24 1493:17 1499:14 1505:5

locations 1329:16 1351:6 1354:15 1357:25 1448:5 1457:14 1470:21

lodge 1436:19

long 1313:18 1330:25 1338:19,21, 22 1351:15,19 1379:6 1471:18 1474:24 1487:14 1501:22

long-range 1463:14 1470:23 1471:15 1472:15 1492:13 1501:19

long-standing 1396:10

long-term 1367:13

longer 1359:6,8,15 1488:25 1489:9

longitude 1499:18

looked 1305:4 1331:21 1368:6 1403:19 1413:12 1429:6 1453:10 1459:22

Loop 1303:2

Los 1445:17

loss 1305:25

losses 1463:14,19 1492:13 1500:25 1501:17,20

lot 1310:1 1315:12 1333:19 1340:1 1355:17 1389:17 1400:15 1401:12 1403:18 1409:5 1418:3,5,6,7 1428:10 1434:23 1463:8 1465:21 1470:5 1485:12 1494:17 1495:8 1497:12 1514:14

lots 1501:13

love 1505:22

low 1469:18

lower 1342:19 1351:20 1352:1,12, 21,23 1353:3,7,12 1424:11 1479:6

Page 1536Index: letting..Masengale

lunch 1393:9 1430:24 1432:5,14 1509:23

Μ

made 1362:17 1363:21 1399:7 1401:18 1405:14 1406:16,18 1416:22 1421:15 1431:17,18 1437:2 1485:3 1505:13 1510:11 1512:23 1513:2,5,22

magnitude 1366:24

main 1352:19 1408:11 1495:21,22

maintenance 1376:2

major 1493:3 1499:22

majority 1489:17

make 1305:14 1306:6 1310:14 1313:3 1318:19 1359:12 1395:19 1408:10,14,17 1409:13 1419:19 1421:9 1429:17 1432:20 1433:9 1434:20,25 1442:19 1443:5,25 1445:25 1464:25 1465:3,4 1495:13 1497:21 1498:24 1504:6 1505:6 1515:19

makes 1328:15 1495:24

making 1305:7 1345:25 1421:20 1468:14 1504:25 1512:5

Management 1492:20

manager 1390:8

map 1303:15 1308:12 1309:10 1313:20 1323:24 1326:15 1329:5,7, 15 1351:5 1362:1,5,10 1364:6 1378:16 1400:14 1401:16,17,21 1402:17 1404:6 1405:11 1406:1,2 1407:14 1409:13 1411:6 1412:13 1413:13,16 1416:17 1417:6 1448:3, 10,15 1457:18,21,24 1458:4,5,6 1479:9 1488:16

maps 1309:15 1364:9 1394:10 1416:3

marked 1438:25

markedly 1413:6

market 1469:23

markings 1449:12

Masengale 1309:10 1346:7 1394:17,22 1440:13



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023Page 1537Index: Masengale's..mitigate

Masengale's 1515:16,24	measures 1496:15	1499:15
mass 1367:15	mechanism 1368:7	meters 1480:25 1481:1
master 1515:17,19	meet 1423:25 1427:15,18	method 1482:4,11,19 1501:16
Master's 1445:16	meeting 1430:16 1467:5,11	methodologies 1379:1,8 1426:1,
material 1311:10 1356:8,24	meetings 1427:16	23
1358:18 1365:8 1367:21 1387:14,19 1388:2,6,12,23 1391:9 1394:19 1396:12 1403:4 1470:25	member 1306:1 1316:5,12 1317:6, 14,18,22 1318:1,5,10 1373:21 1374:4 1376:23,25 1377:19 1378:5, 13 1379:16,25 1380:8,15,18,24 1381:7,17 1382:4,7,10 1383:4,15 1392:9,19 1393:4 1412:1,3 1413:15 1416:13 1417:9,12,13 1420:7 1422:4,15,16,18 1424:16 1425:20, 24 1426:22 1427:22 1428:12,16 1492:6 1493:12 1494:1 1506:15	methodology 1379:10,13 1428:1
		methods 1422:21 1490:19
materially 1483:7		metropolitan 1420:2 1425:11
materials 1309:1,4,14,24 1310:21,		micro-siting 1496:3,16
24 1311:4,15,17 1312:25 1323:18 1324:14 1334:20 1345:1 1355:21 1390:19 1391:3 1396:15 1427:23		microphone 1386:8 1395:2 1396: 1397:10
1441:10 1446:24 1475:22		microphone's 1396:9
math 1502:9	1514:23	Microsoft 1467:4
matter 1374:9 1389:20 1396:19	members 1304:19 1305:1 1311:1,	mid 1408:16 1430:3 1500:23
1482:22 1511:15 1514:16	12 1312:19 1314:11 1315:7 1316:17 1318:18 1321:9 1346:6 1371:8	mid-morning 1308:5
matters 1309:6 1443:2 1470:5	1377:20 1384:18 1385:16 1403:6	mid-tower 1374:22 1375:8
1509:23	1408:9 1411:3 1429:14 1430:16,21 1431:2,3 1432:20 1435:7 1437:17	middle 1304:2,5 1500:10 1507:22
maximize 1451:8 1456:17 1457:12 1463:4	1431.2,3 1432.20 1433.7 1437.17 1438:4 1483:18 1492:2 1494:3,9 1497:11 1504:5 1506:3 1509:12	mike 1317:22 1380:20 1394:2 1443:8
maximum 1381:13 1382:2	1510:23 1514:21 1515:13	mike's 1396:7
mayor 1361:12	members' 1320:7 1436:23 1437:5	Mile 1403:17
Mcivor 1307:16 1506:9,14,17,22 1507:10 1509:9 Mcmahan 1313:15,16 1314:8,23 1318:25 1384:19,20 1385:7,8,12,17, 19,20,25 1386:6 1396:17 1421:11 1432:16,18,22 1433:1,2 1434:11	memo 1309:3 1311:17 1332:20 1350:6 1358:16 1361:23 1362:2 1401:17,18,22 1402:14 1405:11 1406:15,16,18,20 1407:9 1408:7 1409:4,9,15 1436:2,4 1448:7,11 1449:7,11 1497:1 1514:1	miles 1338:19,21,22 1344:8,10,12, 13 1350:13,14,18,19,20 1351:15,19 1357:7,8 1358:8,9,21 1366:24 1375:18 1379:6 1401:2,6,7 1411:8 1474:12,23,25 1475:3 1476:8 1481:18 1492:15 1502:5
1435:8,9 1436:24 1439:4,11 1440:18,21 1441:2,15,17 1442:5,9,	memorialized 1513:12	mind 1304:21 1357:19
15 1443:9,12,13,24 1444:1 1445:25	memory 1472:21	mine 1368:1
1446:4 1451:16 1460:24 1461:4,6 1466:20 1468:2,18 1479:19 1483:16	Meninick 1316:3 1506:16 1507:3,	minimize 1381:20 1449:23
1484:15,16,20 1486:9 1491:5	10,14 1509:10	minimizes 1504:16
1499:6 1503:16 1514:9,10,19 1515:4	mention 1385:2 1428:5	minor 1410:4
Meaning 1354:11	mentioned 1352:9 1360:17 1372:17 1408:8 1412:5 1418:15 1426:23	minute 1314:12 1370:23 1437:21
means 1454:7 1463:2 1468:4	mentions 1377:2	minutes 1313:14 1366:20 1430:18
1489:18 1505:11	merge 1328:15	1432:6,14 1439:18 1467:16 1506:6 1509:2
meant 1472:11	meteorological 1447:9 1453:17	missed 1442:1 1515:20
measure 1473:9 1475:25 1476:6	1454:17 1459:3 1460:3 1463:8	missing 1320:2
measured 1403:20 1474:22	1480:24 1489:24 1495:5	mistaken 1332:6 1334:21 1337:21
1489:23	meteorologists 1449:4	mitigate 1362:21 1363:21 1407:15
measurements 1454:9,10 1495:5	meteorology 1444:17 1445:11 1448:19 1459:19 1478:13 1490:13	1415:11
253.627.6401	BA LITIGATION SERVICES	schedule@balitigation.c

1420:2 1425:11 1496:3,16 1386:8 1395:2 1396:1 **s** 1396:9 67:4 430:3 1500:23 1308:5 374:22 1375:8 2,5 1500:10 1507:22 1380:20 1394:2 9,21,22 1344:8,10,12, ,18,19,20 1351:15,19 3:8,9,21 1366:24 :6 1401:2,6,7 1411:8 1475:3 1476:8 :15 1502:5 1357:19



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1538Index: mitigated..noted

mitigated 1376:4

mitigates 1363:3

mitigation 1363:15 1368:7 1381:12 1403:6 1406:17 1426:6 1496:5,15

mix 1478:20

- **Mm-hmm** 1352:8 1455:20 1458:22 1459:24 1464:11 1465:8 1467:22 1470:19 1500:12
- **model** 1412:22,23 1423:22 1458:1 1466:5,15 1468:24 1481:16 1487:3 1491:14
- **modeling** 1402:6 1413:11,12,16 1470:14,21 1474:15,16,19 1476:20 1495:11
- **models** 1425:7 1456:13 1458:7 1465:22 1466:1 1476:16,24 1482:7, 20 1495:9 1501:21

moderate 1423:7 1424:1,8,14

modern 1403:14,22

- modifications 1493:10
- modified 1332:20 1449:3

modifying 1403:7

modulated 1489:25

moment 1326:19 1370:19 1375:8 1378:18 1397:14 1445:2 1471:15 1478:25 1488:9

moments 1459:12

Monday 1410:10 1422:1

money 1456:11 1501:13

monumental 1369:17

mood 1486:8

moon 1309:2 1311:17 1350:6 1358:16 1361:22 1362:1 1401:17,21 1402:14 1405:11 1406:15,16,20,23 1407:8 1408:6 1409:4,15 1436:1,4 1448:7,11 1449:7 1497:1 1514:1

morning 1303:11,20,21 1304:3 1307:21 1308:13 1310:19 1313:13 1315:7,14,25 1316:19 1318:13,23 1319:5,7,9,13,25 1320:12,13 1369:8,9,12 1370:11 1373:18 1378:16 1380:23 1382:10 1393:16 1399:3 1422:7 1430:11 1441:4 1506:7 1507:17,19,24 1515:18 morning's 1316:19

mother 1505:24

motion 1310:18 1408:17 1416:22 1515:22

motions 1408:19

- motivation 1443:19
- **mountain** 1333:22 1339:19 1349:2, 6,8 1384:5 1415:2,4,6,16,18 1424:10 1490:10
- **move** 1318:21 1328:10 1332:11 1341:22 1364:6 1393:11 1417:11 1423:19,24 1452:8 1478:4,6 1496:4, 17 1503:4,20 1504:15 1506:13

moved 1487:22 1488:5

movement 1419:10

- **moving** 1306:2 1342:18 1367:8 1400:19 1401:23 1515:15
- **multiple** 1367:14 1369:16 1459:7 1478:10
- **mute** 1308:16,17 1394:2 1395:25 1398:6 1412:1

muted 1385:21

Ν

- name's 1382:11
- named 1448:23
- narrow 1367:10
- Nation 1303:24 1305:18 1310:11 1319:12,15 1322:6 1360:6 1366:10 1369:11,23 1377:5 1378:6 1396:5 1398:24 1409:7 1507:7 1510:12
- Nation's 1303:14 1316:5 1369:1 1410:9,17 1504:12
- national 1382:21 1403:19 1418:11 1445:17 1471:3
- **natural** 1317:24 1341:11,25 1382:12 1417:15 1418:25 1492:8 1496:20
- naturally 1348:6,17 1349:18 1391:15 1478:17
- **nature** 1330:3 1384:21 1417:19 1426:2 1446:16 1449:5 1471:20

nearest 1425:8

necessarily 1376:8 1419:23 1454:15 1481:19

necessity 1304:22

needed 1318:19 1400:17 1473:9 1485:3

- neighborhood 1350:14
- neighborhoods 1326:10

neighborly 1497:1

neighbors 1493:17

news 1513:24

next-most 1424:3

nice 1340:10 1490:16 1506:1

niche 1502:3

night 1318:15 1361:3 1376:4 1416:18 1421:2 1442:17 1443:4 1515:17

nighttime 1375:24

Niño 1499:19

nonappearance 1508:15

noon 1508:9 1509:4

north 1332:1 1335:11,16 1336:4,13 1337:9 1339:5 1340:19 1341:21 1349:5 1351:23 1409:24 1412:21 1458:15 1459:8

north-northeast 1453:19,21

northeast 1328:25 1453:18 1478:6, 9

northeasterly 1453:7,11

northerly 1327:15

northwest 1328:13 1339:1 1350:10 1363:9 1409:19 1410:15,21 1448:22 1451:4 1459:7 1460:10 1474:7 1479:13 1480:11 1481:15 1482:23 1483:2 1487:7,23

northwesterly 1479:12

Nos 1321:16 1395:21 1440:15 1503:11

not-very-clear 1441:20

note 1306:24 1416:11 1421:9 1422:12 1431:1 1432:16 1505:22 1512:10

noted 1313:9 1321:14 1416:19



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1539Index: notes..packages

notes 1515:24 notice 1310:2.9 1354:13 1505:18 notices 1304:24 notwithstanding 1514:1 **November** 1477:3 nuanced 1502:1 number 1314:11 1329:18 1335:21, 23 1345:19 1351:16 1353:17 1360:1.19.23 1362:24 1388:21 1394:4 1402:11,13 1409:21,25 1413:18 1414:4 1418:1 1421:19 1425:11 1439:13 1449:9 1456:17 1457:9,25 1481:3 numbered 1394:5,13 numbers 1345:21 1394:16 1402:24 numerous 1372:6 0 **object** 1313:17 1329:24 1330:19 1365:21 1416:1 1434:7 1451:17 1466:21 1479:19 objected 1436:23 objection 1310:17 1313:20,22,24 1324:22 1327:18 1330:4 1341:3 1360:22 1389:2 1391:1,17 1399:24 1404:6 1408:14 1416:9,12 1420:17,

objection's 1327:25 1416:19

23,25 1434:3 1436:20 1437:2

objections 1314:24 1315:20 1331:2 1365:1 1395:19 1396:18 1398:7 1437:4 1503:7

objective 1372:4 1423:25

objects 1404:13

1468:3,6

observation 1339:25 1365:9 1367:25 1373:3

observational 1377:3,22 1392:23

observe 1497:6

observer 1412:17 1413:1

observers 1401:1

obstacle 1462:20

obvious 1361:5 1418:9 1420:1 1443:20 1493:23

occasionally 1478:14

occurred 1359:25 1438:6

occurring 1360:1 1431:19 1480:18 1481:4

occurs 1454:15

ocean 1471:16 1485:10,14 1492:19 1499:9

October 1323:7 1356:7 1463:13

Off-limits 1457:5

offer 1408:4

officer 1404:16,19 1512:7 1513:6,8

offsetting 1478:17

offshore 1353:17 1355:1,4 1381:2 1464:12 1471:13,14 1472:3 1473:15 1486:15,19 1492:20,22

oftentimes 1459:5

old-school 1436:24

on-shore 1353:20 1355:2 1464:14

on-site 1339:10 1458:23 1481:4

on-time 1508:19

open 1326:8 1366:5 1386:9 1394:3 1410:8 1421:21

opened 1435:15

operating 1495:17

opinion 1362:20 1363:2 1372:3 1412:9 1418:20 1468:1

opinions 1362:14

opportunities 1363:16 1379:23

opportunity 1304:13 1311:3 1398:18 1404:21 1407:25 1416:2 1421:5 1431:16 1467:6

oppose 1431:24

opposed 1307:24 1359:16 1384:13 1449:18 1499:7

opposite 1428:3

opposition 1360:21 1361:8

optimal 1487:17

optimism 1315:11,24

optimistic 1307:12,14 1430:10

optimization 1463:3

optimizing 1488:22,23

option 1306:17 1332:14,15,20 1350:3 1362:5 1365:10 1368:6 1465:18,19 1466:11 1469:6

options 1310:14 1469:21 1505:2

order 1442:24 1445:22

orders 1442:19,24 1443:23

Oregon 1354:8 1384:13 1385:10

Oregon's 1383:25

organization 1361:17 1446:9

orienting 1320:21

original 1334:22 1335:7 1356:3,4 1386:19,20 1387:15 1419:11

originally 1315:5 1433:13 1500:7 1506:10

Osborne 1317:14,15

outage 1467:3

outcome 1443:22

outcomes 1476:19

outreach 1359:23,24 1360:3,5,13 1393:2 1425:4 1427:3,4,12

overcome 1315:13

overheard 1315:20

overlap 1367:15

overlooked 1515:23

overlooking 1339:11

overrule 1331:2

overruled 1328:1 1330:6

oversize 1311:11

overview 1362:4

overzealous 1487:15

owners 1377:13

Ρ

p.m. 1408:3 1432:10 1466:24 1483:22

Pa- 1454:20

Pacific 1487:23

packages 1472:14



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

packets 1316:14

pages 1325:5,7 1364:6 1365:8 1400:11 1510:15

palette 1456:22

panels 1423:11

paper 1436:25 1463:16,19 1470:8, 12

papers 1311:11 1470:12

parameter 1470:15

parameterization 1470:16,17 1471:1,9 1472:8 1482:4 1491:24

pardon 1354:10 1356:21

parentheses 1453:22

park 1379:5 1427:18

parks 1326:10 1382:21

part 1315:5 1325:13 1330:1 1334:21 1341:15 1342:6,19 1349:13 1372:20 1377:16 1383:10 1388:23 1417:19 1429:7 1431:5 1443:21 1471:2 1495:6 1500:7 1514:1

parte 1314:14 1317:3 1318:18

participant 1445:3

participants 1467:8,12 1471:5

participate 1362:4 1378:3 1379:18 1426:25 1456:23 1458:3

participating 1456:21 1511:15

participation 1362:9

parties 1304:10 1308:15,21,24 1309:4 1312:11 1313:12 1318:21 1322:23 1346:10 1356:13 1392:22 1401:20 1405:14 1421:4 1433:25 1434:20,25 1436:13 1437:1,15 1467:8,10 1483:17 1498:5 1504:21 1505:14 1507:6 1510:18,19 1511:6, 12 1515:12

parties' 1441:18

partner 1427:11

partners 1446:19

parts 1359:16 1388:16 1515:15

party 1422:23 1505:16 1510:10 1511:4 1512:22

Pasco 1454:6,8,18 1455:3 1479:12, 21 1480:6,23,24

pass 1497:5

passed 1311:4 1472:6

passes 1462:14 1464:5

past 1481:23

Pata- 1352:5

pattern 1327:12 1473:11

Paul 1400:15

pause 1368:21 1370:25 1371:1 1432:9 1466:23 1483:21

PDF 1325:5,6,7 1326:17 1334:5 1337:5,18 1338:8 1343:5 1349:25 1351:6

peak 1453:18

peer 1391:8

people 1306:10 1310:1 1335:14 1340:10 1355:18 1358:7 1369:18 1380:9 1382:18,24 1383:8 1392:15 1417:20 1418:9,18,24 1419:5,6,12, 17,19 1423:7 1425:1,14 1427:13,20 1437:4 1470:14,20

people's 1418:8

percent 1337:14 1342:7 1357:7,8 1358:7,8,21 1372:11 1392:13,14,25 1402:11 1414:12 1458:25 1459:1 1479:2,3

percentage 1367:7

perched 1340:16 1341:18

perfect 1462:16 1515:4

perform 1391:7

performance 1488:8

period 1306:15 1377:17 1378:2

Perlmutter 1318:25 1431:12,13,21, 23 1432:3

permission 1477:12

permit 1404:16 1496:2

permitted 1311:13 1494:22

permitting 1494:18 1495:1 1496:1, 13,14

perpendicular 1489:6,21

persist 1486:19

person 1313:8 1316:13 1387:4 1388:14 1389:20 1433:21,23 Page 1540Index: packets..plan

personal 1380:2 1509:21

personally 1390:4 1507:8

persons 1358:3

persuade 1470:20

petition 1511:11

Petty 1406:23

Ph.d. 1445:18 1471:7

phase 1461:19,24

phases 1461:21,23

phone 1374:5 1397:4 1509:5

phone's 1397:5

photo 1344:15 1365:20 1372:23 1485:6,24 1486:1

photograph 1326:21 1327:4,8 1331:25 1335:5 1338:1,4,11,15,25 1342:19 1343:20 1344:10 1354:15 1472:2,16,18

photographed 1373:1

photographs 1334:13,17 1339:24 1363:24

photography 1388:15

photos 1334:2

physical 1462:8,21

physiological 1418:23

pick 1428:9 1471:16

picks 1305:12

picture 1379:3 1410:3 1464:24 1465:5 1472:12 1485:14,20 1488:15 1491:11 1503:9

pictures 1330:12 1331:3 1472:4

piece 1438:4 1465:1 1471:2

pioneered 1418:3

PL 1348:5,16

place 1340:21 1341:12 1347:19 1376:21 1424:9 1509:5

placement 1423:17 1447:21

places 1340:6 1357:2 1425:22

placing 1458:4

plan 1304:4,7 1344:22 1345:8 1391:14 1399:3,8 1427:14



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1541Index: planets..private

verballin Necolu of Proceedings, Auju	iulcalive riearing - August 24, 2025	
planets 1445:15	posted 1509:6	
planner 1356:16	potential 1442:25 1465:14 1492:14 1493:15 potentially 1306:5 1310:12 1356:25 1357:1 1374:22 1375:15 1376:1	
planning 1312:16 1430:5 1471:12 1512:14		
plans 1316:20		
play 1442:18,21 1457:9 1506:1	Poulos 1307:13 1308:24 1309:15 1315:22 1430:9,13 1432:17 1438:9, 12,16 1439:23 1440:1,5,22 1441:5,9 1442:10,16 1443:4,10 1444:1 1445:20,21,23,24 1446:8 1447:24, 25 1452:11,12,18,24 1460:14,17 1465:13 1467:19 1468:6 1469:3,5 1475:25 1480:2 1484:4,8,21 1491:6, 13 1492:5,7 1494:5 1498:25 1503:15,18,19 1504:11 1506:5	
played 1371:22		
pleasure 1503:23		
plenty 1313:10 1513:19		
Pocket 1384:4		
pockets 1410:3		
point 1310:23 1325:23 1332:19 1334:9 1350:12 1365:9 1373:3	Poulos's 1451:18	
1388:20 1403:8 1408:5 1424:7,13 1438:8 1452:3 1467:16 1475:2,7 1485:1 1493:20 1495:22 1504:23	power 1337:6 1340:24 1341:9 1423:12 1467:3 1469:16	
pointed 1426:9	powerful 1305:18	
pointing 1445:1	Powerpoint 1485:7 1501:3	
points 1401:10 1426:19 1485:2	practical 1425:12	
policies 1347:23	practice 1312:6 1384:21 1476:22 1503:1	
policy 1307:23 1443:2 1492:13 1493:10,25	pre-meet 1514:12	
Pomeroy 1352:4,6,7,18,20	precisely 1350:23	
pool 1445:23	predominance 1453:11	
population 1351:25 1378:22 1381:5 1392:14,25	predominantly 1340:7 1348:13 preface 1442:14	
porch 1357:22	prefacing 1442:16	
portfolio 1385:3	prefer 1304:10 1425:9 1508:18	
portion 1324:1 1327:15 1359:19	preferentially 1489:5	
1367:10 1369:25	preferred 1425:7	
portions 1340:7	prefiled 1316:14 1321:6 1438:1,21	
Portland 1378:19,22 1379:3 1380:5, 9,10 1418:15	1510:9 1512:14 prehearing 1443:23	
Portland's 1380:4	prejudiced 1311:18	
posed 1417:17 1468:15	prejudicial 1421:3	
position 1406:10,12 1447:19	preliminary 1314:4	
1511:14 1512:19	preparation 1307:6 1315:9 1323:19	
possibility 1316:8 1424:12	1387:6 1416:18 1435:13 1473:13	
possibly 1433:24	prepare 1324:20 1376:9 1387:20	
post-hearing 1316:24 1430:19,20 1505:13	1427:23 1434:23 1437:23	

prepared 1324:5 1330:24 1348:20 1356:3 1363:24 1364:2 1372:19.22. 23 1377:13 1387:7 1388:17 1400:13,14 1405:4,11 1406:15 1433:18 1463:13,16

preparing 1311:10 1330:21 1405:3 1461:13

prepped 1346:9

present 1314:7 1317:15,19,23 1318:2,6 1416:3 1489:23 1504:5,7 1510:19

presentation 1404:17 1454:6 1471:11,21 1472:11 1480:20 1485:8

presentations 1493:22

presented 1355:11 1363:13 1365:5 1374:17 1382:2 1437:25 1454:22 1463:17 1464:20

presenting 1315:18

presents 1349:16

preserve 1419:18

presiding 1404:16,18 1512:6 1513:6.8

pressure 1307:8 1309:1 1418:24 1419:2

pressures 1310:13

pretty 1305:5,17 1328:7 1349:17 1355:9.14 1361:5 1393:21 1443:20 1444:19 1452:3 1455:2 1469:12 1472:4 1491:11 1499:16 1515:24

prevailing 1453:15 1479:10 1480:9

preview 1440:19

previous 1435:23

previously 1470:24 1480:5

price 1470:5

primarily 1326:8 1390:7 1409:23 1410:20

primary 1356:15

principally 1336:24

principles 1487:2,14 1489:24

prior 1404:19,22 1420:16,17 1421:2 1508:23

private 1377:12 1477:11 1495:8



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

privately 1348:14

problem 1310:8 1409:21 1412:18

problematic 1426:14

problems 1426:18,19

procedural 1316:23 1430:18 1509:23

proceed 1322:11 1371:7

proceeding 1369:21

proceedings 1303:6 1319:20 1365:18 1366:5 1368:21 1369:11 1371:1 1432:9 1466:23 1483:21 1506:12

process 1306:23 1312:20 1323:19 1331:1 1360:9 1365:16 1366:4 1372:21 1377:12 1379:10,22 1391:10 1427:10 1438:22 1448:17 1462:22 1494:18 1495:1,6 1496:1, 13,14,20 1510:13 1514:2

processes 1456:24

produce 1477:19,25 1478:9,11 1479:1

produced 1406:19 1456:10 1478:4 1488:24

produces 1478:17

product 1348:8

production 1456:6 1457:12 1459:25 1460:5,7,9 1462:9 1463:1,4 1469:13 1475:16 1476:12 1479:5

productive 1469:10,12

professional 1425:25

profile 1453:9

project 1318:8 1323:5.6.17.20 1332:7 1335:24 1336:9 1338:22 1349:22 1350:2,11,16 1351:1,20 1352:1,12 1353:4,7,13 1355:9,11, 15,16,17 1356:6 1357:4,9,16 1358:21 1359:25 1360:3,4,15,21,25 1361:8,17,18 1362:22 1363:4,22 1367:8,10 1368:9 1375:24 1376:13 1377:24 1380:12 1381:2,8,15,21,22 1382:1,3,16 1383:10,23 1384:8 1385:2 1388:19 1390:8 1400:19,23 1401:18 1406:17 1407:15 1409:24 1410:1 1412:15.20 1415:7 1416:16 1417:19 1418:17 1420:4 1442:22 1447:8,15 1448:4,22 1451:5,7 1455:5,8,15 1456:6,12 1457:2,12,

19,24 1458:9 1460:16 1461:20 1465:7 1466:19 1468:8 1469:8 1474:2,6,17 1475:10,17 1476:21,24 1477:3,9 1480:13 1485:11,18 1487:9 1488:8 1493:18 1502:13,15 1504:15,17 1505:1,5

project's 1369:15 1410:12

projects 1351:14,17 1353:16,17,20, 23,25 1354:23 1355:1,2,5,6 1381:4 1412:16 1427:5 1442:23 1447:5 1480:13 1487:7 1505:6

prominent 1348:6,17 1349:18 1367:12 1391:15 1450:3,13 1493:1

proper 1389:25 1434:6

properly 1501:16

properties 1369:23 1370:6 1410:13,17,19

property 1458:10 1492:16

proposal 1382:17

proposals 1363:14

propose 1501:15

proposed 1361:5 1367:11 1380:13 1463:14

proposition 1425:19

proprietary 1443:1 1455:10 1459:3 1466:5 1477:6 1479:20,25 1480:12 1481:5,6,13 1495:11

protect 1344:23 1347:23 1419:22

protected 1348:12 1419:24 1420:3

protecting 1374:11

protection 1383:14 1434:18 1451:8

proven 1308:20

proverbial 1510:20

provide 1311:8,11,21 1312:6 1316:12 1337:13 1362:14 1377:22 1378:4 1421:5 1434:16 1499:9

provided 1308:21 1367:4 1391:6 1439:6 1440:24 1511:16

providing 1368:8 1397:10

proving 1308:18

proximity 1354:24 1381:5 1409:22, 25 1475:11

Page 1542Index: privately..question

PSE 1353:13

 public
 1317:4
 1318:15
 1326:10

 1349:3
 1360:7
 1361:3
 1374:11

 1377:16,18
 1378:2,3
 1379:23

 1393:2
 1425:3
 1427:3,4,12,16

 1428:5
 1492:12
 1493:9,22,24

publically 1471:2

publicly 1460:11

pull 1345:23 1424:4 1454:24 1511:6

pulled 1501:24

punches 1421:17

punctuate 1444:3

pure 1489:19

purely 1472:21

purpose 1337:17 1413:13 1437:11 1471:11 1481:20 1482:21 1510:8 1513:14 1514:5

purposes 1471:10

pursuing 1363:17

push 1424:4,5

put 1308:8 1310:16,21 1313:19 1330:25 1361:24 1387:12 1394:22 1399:20 1416:6 1439:14 1452:16 1457:17,21,24 1460:17 1480:21 1486:8 1489:5 1498:3 1503:1 1505:17 1514:20

putting 1325:4 1371:8 1380:2 1439:16 1463:9

puzzle 1465:1



quadrant 1480:11

Qualifications 1452:19

qualify 1349:6

qualitatively 1514:5

qualities 1418:16

quality 1305:5 1423:5 1492:14

quality's 1397:8

quarters 1495:8

question 1303:13 1304:17 1306:10 1307:17 1308:10 1309:21 1314:2 1324:25 1327:3 1338:25 1339:2,7



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023 Page 1543 Index: questioning..redacted

1340:15 1347:21 1348:15.21 1353:5 1360:12.13 1362:6.23 1371:21.22 1373:10 1375:1 1381:11 1383:17 1385:5,11,22 1386:3 1388:11,25 1389:25 1392:20 1393:3 1407:7 1408:22 1409:3 1411:3,5 1412:2,5 1413:14 1414:18 1416:13 1417:12, 16,23 1420:6,12,15,16 1421:23 1422:24 1424:15 1427:3 1428:21 1429:3,20 1432:23 1436:21 1437:19 1438:4 1443:14,17,18 1451:17,24 1452:7 1454:12 1468:13 1469:3,20 1476:10 1477:15,23 1480:2,4,8 1484:22 1485:16 1489:11 1490:22 1494:6 1498:10 1506:19 1509:16, 17,25 1511:9 1514:20

questioning 1386:18 1443:21 1444:6

questions 1304:20 1305:15 1307:5, 10,15 1309:21 1313:2 1314:14,23 1316:23 1321:8 1331:3 1352:14 1355:4 1366:7 1368:13,17,20 1369:1,12 1370:11,13,16 1371:10 1373:8,13 1374:13 1375:2,14 1376:17 1380:25 1384:17 1386:1,5, 14 1391:25 1392:3,10,11 1395:15 1398:17,19,21,25 1399:5,15 1403:5 1406:12 1410:25 1411:25 1421:7,13 1422:10,17 1429:13,15,19,25 1433:20 1434:10 1435:3,8,12,24 1436:9,11,16,23 1437:5,16 1438:9 1439:4,8,13 1441:11,13 1444:9,12, 14 1446:10 1452:15,21 1460:15 1462:2 1468:22 1483:18 1484:2,7, 24,25 1491:8 1492:3 1494:2 1497:13 1498:5.18.20 1499:6 1500:24 1502:11 1503:2,15 1504:11,13 1505:7,10,12,16 1510:18 1511:25 1513:21 1514:7, 22,23 1515:1

quick 1321:14 1380:25 1445:7 1467:9 1498:11 1504:9

quickly 1370:20 1483:13

quiet 1509:5

R

r-o-w-s 1489:3

radius 1336:14

raft 1484:6

Rahmig 1513:21

raise 1320:19,24 1384:17 1395:10 1418:24 1429:15 1439:9,23 1504:2

raised 1409:10 1419:2 1433:3 1513:21

raising 1492:12

ramble 1420:10

rand 1501:8

range 1382:20 1414:16 1449:2 1471:19 1482:18 1501:22,23

rapid 1487:18

RCW 1382:14

re-rack 1496:6

re-stack 1496:6

reach 1316:6 1392:23 1424:13 1427:8 1428:4 1434:16

reached 1396:13 1424:23

reaching 1427:10

read 1324:18,19,21 1325:1 1345:14 1446:23 1449:11 1454:2

readily 1346:8

reading 1351:7 1359:16 1458:20 1463:22 1508:7

ready 1368:25 1371:5,8 1432:17 1439:7 1483:17 1506:9

real 1415:2 1419:14 1471:9 1472:10 1498:11 1508:14

realize 1370:19 1399:2

Realtors 1361:10

reason 1392:21 1409:11 1416:22 1478:9 1497:21

reasonable 1462:25

reasons 1412:12 1425:12 1457:8 1478:11 1481:3 1486:20 1488:20 1494:21 1511:18

rebuttal 1309:24 1310:5 1320:5 1377:1 1394:6 1404:17

rebutting 1399:18

rec- 1427:11

recall 1328:8,13,19 1331:11 1339:10 1341:20 1352:22 1365:4 1430:11 1449:25 1458:13 1461:10 1462:5 1506:5 1511:10 recalled 1421:6 1422:1,9 1430:2

receipt 1431:10

receive 1408:3 1432:16 1505:1

received 1309:14,16 1311:16 1316:15 1406:15 1440:23

recent 1332:20 1334:10 1477:2

recently 1426:7 1439:5 1463:13

recess 1483:20

reclarified 1399:18

recognize 1355:22 1361:24 1419:22 1448:4,8 1510:11

recognized 1420:18

recollection 1328:4 1450:8 1451:1, 6 1477:4

recollections 1327:22

recommend 1482:10,19

recommendation 1464:23,25 1465:3,5 1497:14

recommended 1363:20

reconfigure 1381:21,22 1423:10,18

reconfigured 1381:9

record 1306:7 1311:23 1313:10 1368:25 1384:20 1410:7,8,9 1416:10 1421:21 1434:3 1438:2 1467:2 1483:24 1510:15 1512:1 1515:20

records 1440:12

recover 1462:24 1499:25 1500:2,4

recreation 1340:8 1349:3

recross 1398:18

RECROSS-EXAMINATION 1373:16 1386:12 1409:1 1428:23 1499:4

red 1400:22 1401:6,8

red-line 1355:24 1356:2 1372:25 1387:13,14,18,19 1388:1,7,11,21, 22,24 1391:3

red-liner 1346:15

red-lines 1387:22

red-lining 1387:9,12

redacted 1364:7,11 1401:22



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023Page 1544Index: redigesting..resources

/erbatim Record of Proceedings, Adjud
redigesting 1515:1
redirect 1334:15 1370:17 1371:19 1399:10 1400:9 1483:17,19 1484:19
reduce 1363:7,11,17 1372:16 1381:9 1402:7 1403:7 1407:15,16 1414:19 1456:5 1488:7
reduced 1358:14 1458:25 1509:17
reduces 1456:10 1462:13
reduction 1358:15 1402:9 1409:15, 18 1410:14,16
reductions 1414:22,23
refer 1325:5 1396:24 1438:21 1453:19
reference 1387:2 1401:10
referenced 1321:7 1503:19
referencing 1391:2
referred 1441:1 1462:11
referring 1347:19,24 1387:12 1401:9 1415:17 1460:3,5 1462:10 1491:13
refers 1470:23
reflection 1504:13
reformulated 1437:5
regard 1309:3 1314:18 1360:4 1449:14
regional 1361:11 1454:21
regular 1473:20
reintroducing 1407:20
reiterate 1399:6
rejoin 1467:6
relate 1459:17
related 1321:25 1351:16 1444:24 1455:15 1457:19 1477:9
relates 1371:21
relationship 1446:16
relay 1471:12
released 1458:1 1466:1
relevance 1330:5 1365:21 1389:15, 17
relevant 1330:7 1365:18

relief 1329:9 relook 1414:14 reluctance 1479:15 1480:6 reluctant 1480:19 rely 1324:15 1346:9 1480:6 relying 1316:13 1443:1 remain 1504:19 remaining 1430:10 1467:17 1509:12 remains 1505:4 remember 1319:2 1401:1 1417:4 REMEMBERED 1303:1 remind 1433:12 1436:24

- reminds 1509:13
- remotely 1319:22 1321:1 1393:14 1395:5 1427:17 1438:13 1440:1

removal 1362:10 1363:2 1406:1 1412:5 1449:8 1456:9

removals 1410:11 1423:20,21

remove 1362:17 1413:9,19

removed 1362:15,21,24 1401:25 1407:10 1409:20 1412:10 1414:2 1416:8 1426:7 1448:12 1449:13,15

removing 1363:25 1410:2,22 1451:3 1456:3

- renew 1311:3
- renewable 1444:23
- reopen 1313:18

rep 1318:14

repair 1306:13

repeat 1327:3 1345:19 1362:6 1480:4 1496:10

repeatable 1379:10

rephrase 1452:7

reporter 1320:15 1491:18

reports 1457:19

represent 1351:8 1369:10 1374:10 1382:11 1383:3 1392:24 1401:20 1410:8 1417:15 1448:10 1455:6 1492:8 representation 1338:16 1350:2

representative 1331:9,13,17 1343:5 1351:5 1354:14 1373:5 1375:21 1400:21 1401:11,12 1402:19 1425:13 1464:4 1480:17 1481:4

represented 1401:4

representing 1319:19 1409:7

request 1308:8 1311:3,7,23 1313:4 1372:21 1407:25 1431:7,15,20,25 1433:6,12 1479:24 1508:23 1512:4, 7,11,23

requested 1316:9 1372:20

requests 1377:15 1387:8

required 1375:9,11 1496:5,16 1504:24

requirements 1495:13

rescheduled 1316:7

rescheduling 1307:2

research 1419:11 1444:20 1471:4 1486:21 1491:14 1493:5

reserve 1398:18

reserved 1398:25 1399:4

reserving 1437:15

reshoots 1373:1

reshot 1334:13,14

residence 1340:21

residences 1336:7,15,21,23 1337:3

resident 1384:1

residential 1327:12 1328:8 1334:25 1336:25 1337:21 1340:6,16,20 1375:21

residential-commercial 1333:14

residents 1363:7,12 1375:16,18,19

resolve 1437:21

resolved 1397:13

resolving 1307:17 1437:22

resource 1420:1 1442:25 1443:14 1444:25 1456:18 1474:11 1476:22

resources 1317:25 1370:2 1382:12 1417:15 1418:2,8 1419:22 1451:9, 25 1456:5 1492:8



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1545Index: respect..schedule

respect 1406:23 1444:12,14	Richlan
respectful 1470:11	Rick 13
respectfully 1512:4,11,15,18	1486:1
respo- 1496:23	ride 15
respond 1405:25 1408:19 1441:10 1496:24 1511:19 1513:15	ridge 1 ridgelin 1341:13
responded 1360:8	1378:1
responding 1455:18,25	1450:3
response 1309:23 1320:4 1365:25 1385:22 1406:15 1408:18 1416:4 1492:23 1493:24 1510:2 1512:8,25	ridgelin 1341:23 ridges
responsibilities 1451:24	1380:3
responsible 1347:14 1387:18	ridgeto
1388:6,14,25 1390:5 1468:4 1505:5	right-ha
responsive 1421:5	ringing
rest 1316:25 1367:20	risking
restarted 1467:5	river 13
restate 1469:2	1339:13 1353:4
restorative 1382:23	1418:1
restricted 1367:19	18,19 1
resulted 1360:9	riverfro
resulting 1367:13	rivers ?
results 1378:1 1476:20	road 13
Rev 1472:22	Roadwa
review 1308:9 1311:14 1324:9 1391:9 1408:2 1416:3 1429:4 1441:13 1460:17 1510:24 1514:24	Robert robust
reviewed 1364:14,25 1371:24 1372:1 1374:18 1386:24 1396:11 1407:8,9 1427:23 1440:22 1457:18	rock 14 rocky 1 role 13
reviewing 1323:18 1422:11 1457:19 1510:17 1515:3	1388:8 roll 131
revise 1339:1	rolling
revised 1320:4 1334:12 1335:8 1350:5,7	room 1
revisions 1377:11 1390:10,18	rotor 1- 11,22 1
Reyneveld 1319:9,10 1373:10,12,	12,14,2
17,19,24 1374:3,7,8 1376:16 1420:14,24 1498:16,17 1506:8,20,	rough
1420.14,24 1496.16,17 1506.8,20, 21,24	roughly
Rich 1446:12,18 1508:3	roughn
052 627 6401	

nd 1325:23 1361:10

319:18 1396:6 1414:3 1446:8 10

508:22

354:7 1415:5

ne 1328:11 1339:25 1340:16 18,20 1342:24 1343:24 1349:7 9 1410:1 1414:17 1420:1

nes 1329:2 1339:3 1340:11 23 1345:3 1347:23 1348:9

1348:7,18,25 1349:1,19 1391:16

p 1490:9

and 1393:19

1493:11

1402:22

325:16 1328:18 1333:13 3 1351:20 1352:1,12,21,23 ,7,13 1378:20,21 1381:3 16 1455:4 1459:20 1462:17, 1484:5,6,12

ont 1326:9

1486:18

343:11 1366:22

ays 1457:5

1403:18

1372:4 1426:1,4

462:17,19

1486:25

330:21 1371:22 1380:1,2

17:2,7 1421:16

1304:21

1312:24 1430:17

466:14 1472:23,25 1473:1,2, 1487:6 1488:1,3,6 1502:11, 22

1486:25

y 1472:23 1475:3 1501:11

1486:16

round 1377:3

routinely 1447:20

row 1411:18,20 1413:19,23 1478:5, 8,9,21 1488:18 1489:4,7,8,9

rows 1355:7 1488:17 1489:2,3

Rs 1491:19

rudely 1467:20

rule 1464:7,8

ruled 1434:14

rules 1383:6

ruling 1313:4 1395:20 1399:14 1408:14 1416:25 1421:18,20 1435:23 1508:24 1511:20

run 1306:4 1357:12 1359:14 1367:4 1465:22 1476:16,23

running 1456:13

runs 1325:17,19,22 1326:20

Rural 1336:25

rush 1441:3

RV 1334:6,7 1338:8 1401:9 1415:16

RVS 1331:9

résumé 1434:25 1446:23

S

Salmon 1484:5

Sarah 1319:9 1373:10,18,22,23

satisfactorily 1501:22

scale 1311:25 1312:2,13 1313:2 1337:14 1350:21,22 1381:14 1416:15 1475:24 1476:5

scenario 1381:14 1382:2 1425:17, 18

scenarios 1464:19

scenery 1383:1,14 1419:15

scenes 1419:12

scenic 1391:12,16,20 1418:12 1420:1

schedule 1303:14 1315:12 1316:4 1384:2 1421:17 1435:2.19 1438:7 1506:4 1507:2 1508:21 1509:10



scheduled 1322:4 1393:8 1430:12. 20 1435:16 1506:10 1508:4.6 scheduling 1306:25 1316:20 1422:13 Schimelpfenig 1314:16 1318:23, 24 1320:1,8,9,20 1321:13,20 1324:22 1327:18 1329:23 1330:5, 16,19 1331:4 1341:3 1345:22 1347:2 1360:22 1361:2 1365:13,15 1370:14,17,18,22 1371:4,13,16,20 1373:7 1383:18 1389:2 1391:1,17 1398:8.16 1399:23 1400:2 1403:23 1404:9,12 1405:19,23,24 1406:21 1407:4,21,24 1408:20 1415:23,25 1416:23 1417:1 1421:11 1428:19, 20,24 1429:2,12 Schimelpfenig's 1429:20 school 1445:12 science 1444:18 1445:14,18 1513:20 scope 1369:13 1381:12,15 1416:15 1444:5,9,13 1466:9 **Scout** 1433:7 1434:17 1447:7 1448:18 1449:4,18 1451:18 1465:23 1468:9 1475:18 1477:12 1497:4 Scout's 1455:10 screen 1305:7 1312:25 1322:22.23 1324:3 1345:9.13 1347:4.10 1361:24 1371:17 1393:12,19 1398:3 1399:21 1400:7 1441:8 1447:23 1452:17 1463:9 1485:21 1498:7 1505:21 screenshot 1441:20 screwing 1345:12 scroll 1326:12 1414:3 1452:23 scrolling 1465:12 secondary 1453:18 section 1321:24 1323:25 1341:24 1347:14 1391:13 1429:4 security 1376:2

seeking 1479:20

seldom 1489:2,4

selected 1468:8

selecting 1428:6

selection 1379:14 1447:12 1449:15

selections 1469:24

send 1434:24 1441:6 1443:3 1460:14

sense 1328:16 1361:17 1419:16 1495:24

sensitive 1455:16

sentence 1389:21 1453:5 1456:3 1502:17

sentences 1396:2

SEPA 1330:12 1331:1 1365:16 1366:4 1436:6 1505:2 1510:12 1514:2

SEPA-SPONSORED 1330:9

separated 1446:20 1489:8

separating 1380:1

separation 1487:6,9

September 1316:9 1408:16 1421:24 1430:3 1434:19 1435:2 1508:17

September's 1435:14

sequence 1420:20 1515:1

series 1367:11 1456:24 1479:4

serve 1444:24 1456:5

served 1447:18

Service 1418:3

session 1303:12 1314:9 1316:18 1317:5 1318:17 1514:12 1515:14

set 1312:17 1323:14 1345:7 1348:1 1404:16 1499:9 1506:16

sets 1464:19

setting 1316:8,16 1425:5

sewing 1498:4

shaped 1488:17

share 1306:3,25 1307:7 1322:18 1346:25 1347:1 1477:12 1505:21 1506:1

shared 1322:22 1390:19,25 1391:4 1447:23

Sharepoint 1320:7

sharing 1345:13 1371:17 1505:23

Sharp's 1458:19

Page 1546Index: scheduled..simple

Shaun 1356:15 1390:8

shift 1368:17

shirt 1393:23

Shona 1303:19 1319:14 1369:10 1409:7

shopping 1326:10

shore 1354:5 1486:20

short 1304:7 1310:2 1367:24 1387:25 1417:24

short- 1310:8

shortly 1315:15 1430:17 1436:5

show 1326:22 1327:5 1331:3 1334:11 1398:4 1419:2 1469:15 1486:4 1492:2

showed 1480:21 1481:2

showing 1320:6 1339:22 1406:1 1415:13 1485:20

shown 1335:2 1351:4 1372:10 1402:2 1404:23 1407:10,14 1410:11 1448:14 1472:18 1481:15 1488:16

shows 1329:15 1350:3 1400:18,21, 22 1401:24 1423:22 1458:24 1471:23

shut 1467:4

sic 1356:21

side 1329:6 1345:18 1352:20 1416:3 1432:25 1436:6 1448:22 1450:2,6, 13 1464:1 1482:16 1488:6 1489:1 1502:23

side-by-side 1487:24

sides 1398:4

sight 1418:25

significant 1406:17

significantly 1329:1 1362:21 1363:3 1407:14,16 1412:6 1413:21 1416:14 1455:2

signs 1341:2,6,10,14

similar 1348:24 1365:4 1367:20 1412:23 1449:5

similarly 1310:4

Simon 1446:12,14 1508:3 1509:10

simple 1456:19



Page 1547Index: simply..Staff's

simply 1316:13 1434:15 1451:22 1497:10 1505:11 1513:4

simulation 1471:25

simulations 1329:19 1330:22 1342:8 1363:24 1364:2 1365:21 1372:7,9,10,19,23 1375:20 1377:13 1387:7,23 1388:17 1412:23 1426:20

simultaneous 1428:14 1430:6 1453:1

single 1343:25 1478:24

sir 1336:16 1351:21 1352:10,13 1356:9 1361:15,20 1391:10

site 1303:4 1347:11,20 1355:23 1359:17 1388:15 1390:3 1403:17 1406:4,5 1429:5 1446:25 1447:2,13, 17 1449:23 1452:13 1457:15 1460:18 1461:1,3,9 1467:21,23

site-specific 1463:8 1499:15

sited 1443:19

sited...on 1456:4

sites 1369:17

siting 1383:25 1384:13 1448:13 1456:16 1505:5

sitting 1357:21

situation 1310:9,25 1490:3

six-hour 1508:22

six-to-ten 1488:3

size 1374:23,25 1375:3 1381:2,5 1442:22 1495:17

skylined 1367:11

slide 1432:15

slight 1409:18 1410:14

slightly 1351:23 1466:14

slopes 1348:6,17 1349:18 1391:16

slower 1320:17 1462:18,22 1464:5

small 1316:17 1393:22 1443:21 1453:17 1488:1

smaller 1322:24

smooth 1490:16

Snake 1351:20 1352:1,12,21,23 1353:3,7,12 1381:3 1484:12

snappy 1359:13 snapshot 1445:7

software 1471:3 1472:14

solar 1368:8 1383:23 1423:11 1497:16

solemnly 1321:6 1395:10 1440:6

solved 1303:18

somebody's 1357:21 1418:20

song 1503:20

sooner 1398:22 1506:9

sophisticated 1487:3

sort 1307:22 1316:16 1341:10 1351:23 1413:20 1433:16 1472:25 1480:21 1488:17 1493:15 1500:5

sorts 1486:18

sound 1374:2 1397:8

sounds 1309:16 1383:4 1509:14

source 1460:6

south 1325:10 1328:10 1329:11 1332:24 1333:9 1335:11,16,22 1336:2,7 1337:9 1366:22 1384:9 1412:21 1458:15 1459:8 1463:15 1464:13 1471:12,14 1482:5 1501:8

south-southwest 1325:15 1453:21

southeast 1303:2 1325:17 1474:7

southeasterly 1453:7

southern 1325:13

southwest 1325:14,25 1326:4,22 1327:5 1328:21 1331:24 1332:25 1342:23 1343:8 1477:19 1489:18,19 1490:25 1491:2

space 1488:14

spaced 1489:8

spaces 1326:8

spacing 1472:23 1487:17,23,25 1488:3,5 1502:23

Spanish 1377:20

speak 1304:5,9,13 1305:16 1320:16 1369:19 1370:8 1378:12 1382:5 1450:16 1511:17

SPEAKER 1396:6

speaking 1305:22 1392:24 1403:10 1410:16,19,20 1428:14 1430:6 1453:1

speaks 1510:23

speakers 1397:9

specialist 1383:23

specialists 1426:10

species 1457:5

specific 1360:5 1364:23 1365:1 1366:13,16 1387:22 1465:6

specifically 1350:19 1360:2,16 1362:18 1363:8 1377:14

specifications 1465:14

specs 1465:2 1469:11,14

spectacular 1472:4

spee- 1469:17

speed 1316:20 1462:14,25 1489:12

speeds 1458:25 1462:3 1469:17 1478:21 1490:18

spells 1459:6 1500:11

spend 1345:12 1452:8

spent 1444:6 1484:5

spinning 1462:21

spirit 1305:13

Spokane 1309:22

sponsor 1390:12

sponsored 1321:24 1359:18 1394:4 1418:5 1510:9 1512:13

sponsoring 1369:14 1370:1 1388:8,10 1389:23,24 1505:11

sports 1326:10

spot 1475:3 1514:21

Square 1303:2

stability 1490:2 1499:21,22

stable 1499:9,24 1500:4,13

Stacey 1318:5 1411:24

staff 1305:6 1317:6 1345:11 1356:11 1388:13,18 1449:4 1513:10

Staff's 1432:20

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

stage 1323:14 1384:22

stages 1384:8

stakeholder 1379:22

stakeholders 1377:5,8 1379:17 1424:19,23 1426:23

stand 1435:16

standard 1445:1,3 1476:22

standards 1444:24

standing 1352:11,19

standpoint 1412:18

- **start** 1314:13 1315:11,16,23 1404:3 1422:25 1423:21 1430:12 1446:12 1456:22 1467:15 1492:4 1493:23 1506:18,24
- **started** 1314:15 1315:21 1323:5 1359:21 1467:13 1497:13
- starting 1314:11 1365:16 1403:8 1421:23
- **state** 1340:9 1351:17 1354:8 1382:12,21 1383:24 1384:12 1416:9 1417:15 1420:22 1434:3 1445:16 1460:10 1492:8,19 1511:10,17
- **stated** 1348:19 1441:10 1443:22 1447:5

statement 1364:16 1365:3,7 1366:3 1396:13 1441:15 1456:8,15 1458:18 1464:2 1502:20

statements 1367:21

states 1389:18 1495:18

station 1459:15

statistic 1392:17

statute 1511:10

Stavitsky 1319:2

stay 1391:21

steep 1348:6,17 1349:18 1391:15 1490:15

step 1494:20 1495:1

steps 1363:21 1419:23

stimula- 1329:19

stimulations 1329:19

stipulate 1304:10 1312:11

stipulation 1304:18

stirred 1472:5

- **stop** 1368:13,14 1404:5 1414:10 1505:23
- **storage** 1433:6 1434:18 1435:4 1436:10
- story 1416:3
- straight 1450:10

stray 1364:8 1365:16 1436:9 1468:21

straying 1403:25 1436:18

stream 1478:2 1499:17

street 1352:19

stretching 1344:11

strictly 1411:15

strikes 1378:16 1513:7

striking 1442:19,24

string 1349:13 1478:4,5 1488:19,24 1489:4,7

string-to-string 1487:25 1488:3,12

strings 1474:12 1488:18,21 1489:1 1497:16

strong 1366:24

stronger 1489:22 1490:8

struck 1307:2 1493:13

structure 1478:24 1490:1

structures 1357:14 1486:18

structuring 1425:3

student 1471:7

studied 1370:3,8 1373:2 1444:18

studies 1377:16 1418:6 1419:1,5 1443:17 1481:20,22

study 1341:14 1353:18 1370:5 1404:17 1445:14 1471:8 1513:23

studying 1358:13

stuff 1494:6

subject 1408:14 1470:13 1488:2

subjective 1416:7 1418:20

submit 1404:21 1407:25 1421:10

Page 1548Index: stage..surprised

submitted 1312:1 1313:21 1372:22 1394:10 1396:12 1404:19 1406:8 1422:8 1431:10 1440:7

subsequent 1493:3 1494:21

substantial 1336:3 1351:25 1360:19,23 1388:22

substantially 1381:9

substations 1376:2

suburban 1326:8

successful 1349:17 1419:19

successfully 1322:22 1447:23

sufficiency 1396:14

sufficient 1413:8 1414:18 1464:25 1511:22

suggest 1314:17 1514:11

suggesting 1450:9

suite 1447:5

Sullivan 1403:18

summarize 1333:12 1422:21

summary 1320:21

summer 1357:22

summertime 1310:1

Summit 1354:7

super 1506:11

supercool 1485:6

supplement 1310:6 1416:21 1433:14,15 1436:10

supplemental 1304:22 1305:2 1306:5 1308:22 1309:15 1310:12 1311:25 1316:10 1386:15,17,20,24 1387:7 1394:19 1395:12 1404:14 1407:25 1408:13,16 1421:10,22,24 1430:2 1435:15,25

supplementation 1434:4,5,7

supports 1361:17,18 1409:13

suppose 1444:15 1471:25

surface 1444:19

surfaced 1405:15

- surprise 1421:4,15
- surprised 1414:24



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023Page 1549Index: surrounding..Thursday

surrounding 1333:22 1442:23

suspect 1459:22

suspense 1437:24 1438:7

sustained 1324:25 1391:21

SWCA 1324:5 1329:24 1386:25 1390:19 1391:4,7 1424:25

swear 1315:15 1320:20 1321:6 1394:24 1395:11 1439:10 1440:6

swearing 1395:1

sweet 1417:25

swim 1445:23

switching 1374:5

sworn 1321:2 1395:6 1438:2 1440:2

synopsis 1383:5

system 1376:5 1433:7 1459:12

systems 1434:18

Т

table 1365:10 1402:4 1414:3,5 1456:14 1481:2

tail 1496:14

take-it-or-leave-it 1425:19

takeaway 1494:7,9 1495:21

takes 1425:6 1462:24 1494:17

taking 1314:8 1320:15 1342:9 1343:2 1485:24 1486:2 1505:21 1511:14

talk 1309:7 1312:14 1323:22 1325:2 1329:22 1334:15 1346:10 1349:22 1417:23 1425:14 1427:13 1430:18 1434:17 1450:22 1451:25 1466:9 1490:23 1502:14

talked 1361:22 1391:12 1409:4 1419:14 1428:7,9 1441:4 1442:16 1443:3 1493:2 1495:25 1502:10,12

talking 1305:8 1342:14 1380:9 1387:23 1390:22 1409:24 1444:7 1450:12,18 1457:1 1458:19 1461:2 1464:9 1468:23 1472:8,10 1474:15 1482:23 1502:16

talks 1391:14 1458:21

taller 1375:7 1487:20

TCC 1361:5 1392:12,13 1404:23 1408:19 1413:21 1477:7

TCC's 1406:11

TCP 1504:16

team 1389:4,21 1412:24 1426:11 1427:6,9 1448:19 1449:4 1451:18

Teams 1467:4

Tech 1323:7,9 1334:18,20 1380:1 1387:4 1388:18 1389:4 1392:21 1426:1 1428:1

technical 1463:18 1465:2 1469:11, 14 1475:5 1486:4 1502:3

technology 1372:14 1398:3 1442:22 1487:19

temperature 1469:17,18,19 1489:25

ten 1357:8 1358:8,21 1405:5,7 1432:13 1474:23 1480:24 1506:6

tend 1384:21 1485:5 1486:19 1487:24 1489:12 1499:23,25 1500:14

tended 1418:19

tens 1480:25

term 1478:20 1490:1

terminology 1373:6 1478:6

terms 1329:4 1357:17 1379:1,8,9 1409:12 1457:1 1465:4 1469:13 1474:9 1493:15 1514:17

terraced 1328:9

terrain 1450:13 1459:20 1485:12 1486:17 1489:15,20

terribly 1378:17

testified 1389:3 1391:22 1410:10 1451:19 1455:21 1468:7

testify 1304:13 1316:3 1396:19 1508:4 1512:12 1514:4

testifying 1320:22 1321:22

testimony 1304:11 1305:18,24 1307:16 1310:6,21,22 1313:18,21 1314:2,5,20 1315:3,6,17,21,23 1316:13,14 1320:5 1321:7 1329:12 1333:24 1369:13,21 1377:1 1393:10 1395:11 1399:17 1404:1,14 1408:1, 13 1415:20 1416:2,7,21 1421:2,6, 10,22 1422:8 1426:8,19 1427:24 1428:17 1430:1 1431:7 1433:14 1434:4,15 1435:25 1436:10 1438:1, 21 1440:6 1446:11 1452:1,16,22 1455:18,23,24,25 1458:19,21 1462:5 1484:21 1494:10 1502:13 1504:4 1509:21 1510:9,22 1512:13, 14

testing 1481:20

Tetra 1323:7,9 1334:18,20 1380:1 1387:4 1388:18 1389:4 1392:21 1426:1 1428:1

Texas 1419:8

text 1357:11 1367:3 1387:20

that'd 1303:17

theoretical 1378:15

theory 1412:14

there'd 1496:3

there'll 1435:1

thick 1355:7

thing 1313:3 1331:15,16 1346:1 1376:3 1488:7 1491:12 1493:6 1495:16 1504:6 1506:3 1508:16

things 1306:13 1310:3 1311:5,12 1312:23 1315:19 1316:16,25 1341:9 1343:2 1357:14 1358:2 1366:6 1382:23 1408:6 1419:17,25 1441:3 1443:18 1445:15 1449:8 1452:9 1459:17 1469:25 1476:6 1478:19 1486:18 1488:23 1493:21 1494:21, 25 1496:17 1498:4 1506:25 1514:6 1515:1

thinking 1403:9 1411:6 1493:23

thinks 1468:12 1506:8

third-party 1477:10

thought 1318:13 1352:9 1398:22 1460:3 1467:11

thoughts 1512:24

three-sentence 1320:21

threshold 1375:7 1437:19

thrust 1469:16

thumb 1464:7,8

Thursday 1303:1



Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1550Index: tied..turbine

tied 1419:15

tighter 1487:17,24

tighter-than-expected 1487:16

tiles 1393:11

till 1314:1 1483:15,20

Tim 1318:25 1384:20 1385:20 1485:21

time 1304:23 1307:9.16 1311:8.9.12. 21 1312:20 1314:25 1316:4.11.12 1318:16 1323:7,11 1329:24 1345:12 1347:3 1348:3 1349:16 1362:23 1367:4,19,24 1368:4 1370:11 1371:14 1373:8 1387:25 1393:7 1397:22 1398:5,14,17,25 1399:4,8 1403:16 1407:23 1408:2,15,18 1416:1,6,25 1420:18 1421:25 1422:9 1430:12 1433:18,22 1434:23 1435:1,6,13 1439:15,17,19,21 1441:11 1442:4 1444:7,23 1447:7, 10,18,20 1449:1,5 1450:4 1452:8 1458:1,8 1460:9 1462:24 1467:17 1469:23 1476:4 1478:22,24,25 1479:4 1481:8 1484:1 1485:1 1487:19,23 1488:4 1489:17,19 1495:23 1502:24 1503:4 1504:3 1506:1,12 1507:8,20,23 1508:10,12 1509:2 1515:18

times 1308:20 1313:10 1323:15 1372:6 1450:2 1459:15 1473:22 1481:9 1488:4 1500:19

timing 1304:7,18

timing-wise 1313:25

tips 1315:9

today 1303:13,15 1304:2,5,8 1306:20 1307:7,13 1308:1,14,20 1312:4 1315:9,18,23 1318:16,19,22 1321:8 1322:18 1323:13 1324:21 1330:15 1346:9 1359:14 1393:7 1394:10 1395:15 1404:24 1426:8,15 1429:3 1430:10,14 1433:21 1438:22 1439:15 1440:8 1446:10 1455:21 1467:3 1494:6,9 1505:25 1508:11 1513:11 1515:7

today's 1306:17 1307:4 1416:18

told 1505:24

Tom 1406:23

tomorrow 1304:8,13 1307:14,16 1316:3,22,24 1433:8,19 1434:20 1435:1,6,17,24 1437:23 1438:8 1446:13 1506:18,22,24 1507:8,14, 17,19 1508:4 1509:6,15 1512:12 1513:14 1514:6,12,24 1515:9,17

tomorrow's 1306:18 1408:15 1506:4

tonight 1436:15 1507:20 1514:25 1515:3

tools 1482:1

top 1327:7 1332:13 1333:17 1339:4, 17,18,19,21 1340:23 1344:3 1402:8 1415:3,5 1461:8 1478:23 1484:6 1490:8,10

topics 1497:22

topographic 1333:16 1488:20

topographically 1328:6,24 1489:12

topography 1329:8 1357:13 1455:1,5 1459:11 1473:12 1478:12 1480:17 1485:12,16 1486:22,24 1489:14 1495:4

Torem 1303:5,10,23 1304:16 1306:4 1307:11 1308:3,7 1309:8,17 1310:10 1311:24 1313:5,25 1314:10,21 1315:1 1318:12 1319:1, 7,12,16,24 1320:11,14 1321:5,12 1322:3,13,25 1324:24 1327:25 1330:3,6,18,23 1331:6 1341:5 1346:6 1359:2,5,12 1361:2 1364:5, 12 1365:23,25 1366:8 1368:12,15, 24 1370:12,21,24 1371:6 1373:9 1374:1 1376:19 1377:7 1380:17 1382:9 1383:16 1384:11,15 1385:6, 9,13,19,24 1386:3,7 1389:7,11,13, 15 1390:1,11,15 1391:21 1392:1,6 1393:6,16,20,23 1394:1,12,21 1395:9,17,25 1396:21 1397:7,17,20, 24 1398:2,13,20 1399:9 1404:4,9 1405:1,6,13,22 1406:9,22 1407:18 1408:4,21 1411:2,24 1416:11,24 1417:5,11 1420:11,19 1421:8 1422:14 1428:19 1429:14.23 1430:9 1431:9,18 1432:1,4,12,19,24 1433:11 1434:22 1435:11,21 1436:3 1437:24 1438:15,19 1440:5,11,18 1441:6,20,23 1443:6,12 1451:21 1452:2 1467:1 1468:11,20 1469:2 1479:23 1483:9,14,24 1484:9,14 1491:9,18,22,25 1494:2 1495:25 1496:12 1497:9,25 1498:2,12,19,22 1503:3,7,14,18 1504:1 1505:9,25

1506:23 1507:18 1508:5,25 1509:8 1513:3 1514:19 1515:6.12

total 1402:11 1414:12

totally 1389:11

tourist 1361:11

tower 1344:4,21 1480:24

towers 1332:9 1340:5,24 1447:9

Town 1463:17

track 1460:8

traditional 1410:13

trails 1382:22

transcript 1492:1 1510:17

translate 1501:6

transmission 1358:20 1457:5

transmit 1305:11 1510:4

transmitting 1513:4

Transportation 1318:4

travel 1499:23

tread 1322:19

trees 1486:24

Tri-cities 1315:17 1319:17,19 1322:5 1323:16 1339:12 1360:20 1378:23 1381:10 1392:14,25 1408:10 1479:12 1500:11,20

Tri-city 1409:25 1446:9,13

trial 1312:6

trickier 1478:11

trip 1427:19

triple 1320:3

Troy 1513:20

true 1482:4

truth 1305:11 1321:9,10 1395:13,14 1440:8,9

tune 1513:23

tur- 1403:21

turbine 1350:3 1353:16,23 1354:21, 24 1355:7,14 1356:25 1357:1,3 1358:15 1362:5,24 1365:10 1373:14 1374:14,16 1375:5 1410:10 1413:23 1423:5,15,17 1442:22 1447:20



unable 1373:22 1458:1,7 1462:7,9,13,14,20,23 1346:14 1347:11 1350:7 1359:17 1464:5,16,19 1465:14,18,19 1466:1, 1372:17.23.24 1387:13 1388:12.24 unaffected 1478:2 1389:6,17,18 1390:4 1391:3 1406:5 11,14 1467:24 1468:9,23 1469:6,7, unavailability 1304:23 16 1470:5 1472:4 1473:18 1474:12 1429:4 1460:18 1461:8 1513:19 1487:18 1495:9 1497:16,20 1499:10 1515:17 Undergraduate 1445:10 1500:1,14,15 updates 1438:24 underlying 1443:18 1448:4 turbines 1329:16 1331:22 1332:4 uploaded 1394:13 1351:8,9,12 1352:21,23 1354:1,11, understand 1304:6 1305:24 16 1358:8 1362:11,14,17,21,25 1309:25 1313:4 1327:21 1334:14 upper 1393:19 1450:6 1363:1,3,8 1364:1,15 1367:6,8,12, 1337:16 1342:13 1343:2,10,11 upstate 1445:11 14 1368:8 1374:20,23,25 1375:3 1344:17 1353:13 1355:13 1357:21 1376:3 1379:4 1380:3 1401:4,24 1376:8 1387:1,3 1388:9 1405:7 upstream 1463:20 1473:18 1476:13 1402:4,7,10,12,13,20,25 1403:10, 1477:20 1482:25 1406:9,10 1409:11 1413:16,22 14,15,16,17,20,22 1406:2,3 1407:9, 1422:6 1426:20 1428:4 1434:12 **upwind** 1478:1 1490:4 10,13 1409:20,22,23 1410:2,22 1443:9 1444:8,11,15 1452:11 1411:18,21 1412:6,9,17,25 1413:18, 1456:16 1457:16 1458:9 1459:2,5 urban 1326:7 1378:17 1381:5 20 1414:1,11 1415:6 1416:8 1463:22 1473:25 1477:5 1479:11 1401:3 1423:10,13,23 1424:12 1426:6,11, 1485:4 1499:8 1502:3 1507:24 urbanized 1379:3 12,13 1443:15,19 1447:17 1448:5, 1508:6,23 1512:7 12,14,23,24 1449:9,12,15,23,24 usefulness 1471:8 understanding 1374:24 1434:22 1450:25 1451:4 1453:8 1455:8 1435:12,23 1437:8 1449:7,10 usual 1315:10,13 1456:4,9,16,17 1457:7,14 1462:3 1504:14 1510:17 1513:1 1463:6,20 1464:9,12,14 1469:10,12, **Utilities** 1318:3 22 1471:23,24 1472:18 1473:2,21 Understood 1350:8 1421:8 1476:13,14 1477:16,19,20 1478:1,3 undertaken 1360:14 V 1480:18,25 1481:17,25 1482:24 1483:1 1487:9,17,18,19 1489:8 underway 1447:6 1490:18 1492:16 1495:3 1496:4 **V-BAR** 1446:18,19,22 1447:19 undeveloped 1342:2 vacation 1418:9 turbulence 1475:16 1476:12 undulate 1488:19 1481:15 1499:7,10 1500:15 Vague 1327:19 1341:4 1360:23 undulations 1486:23 turbulent 1490:15 1500:2 1391:2 unexpected 1493:7 validated 1472:9 1482:2,21 turn 1308:11 1320:23 1396:3 1398:8,21 1440:20 1442:3 1509:16 **UNIDENTIFIED** 1396:6 validating 1493:5 turned 1397:15 **uniform** 1453:6 validity 1365:17 turns 1433:14 1434:9 1494:17 **uniformity** 1485:14 valley 1339:12 1340:22 1455:3 twists 1494:17 1482:16 uniquely 1348:8 two- 1320:21 valleys 1459:20 **United** 1495:18 two-mile 1336:14 1411:14 valuable 1334:11 university 1419:8 1445:11,16 1471:7,8 valued 1383:13 **two-phase** 1447:8 unobstructed 1367:9 values 1383:3 1419:14 **type** 1379:2 1417:18 unstable 1499:25 1500:3 **types** 1327:19 1416:7 1497:4 variations 1368:3 untimeliness 1441:3 typical 1335:2 1337:2,8 1464:4 varies 1459:21 unusual 1312:5 1355:9 1399:10 variety 1361:4 1494:20 1436:22 1495:2,3,15 U vary 1375:2 1455:1 **unusually** 1355:14 vegetated 1348:6,17 1349:18 **Uh-huh** 1411:19 update 1304:4 1306:3 1482:9

ultimately 1464:6 1494:18 1495:9



updated 1334:10,11 1335:8 1345:7

1391:15

vegetation 1357:14 1486:17

Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

Page 1552Index: verbal..Web

verbal 1512:3,25

verifying 1493:6

version 1312:5 1357:3 1364:7,11 1372:25 1388:7 1390:4 1401:22

versus 1418:25 1485:11

vertical 1489:25

vetted 1386:24

via- 1469:21

viability 1442:25 1450:24 1468:21 1477:9 1496:18 1497:18

viable 1469:21 1493:18 1504:16

vicinity 1337:20 1455:5

video 1492:21

videoconference 1326:23 1466:22 1486:4

videos 1305:4,11

view 1321:15 1332:4 1334:12 1335:15 1337:6,8,12 1340:10 1342:6,11 1343:9,23 1353:3 1367:12,13 1372:8 1377:16 1386:16 1409:22 1410:20 1414:1 1415:24 1416:15 1418:10 1439:11

- viewed 1337:15 1342:8 1357:16 1372:11,12,15 1410:1
- viewers 1335:18,21,23 1409:23 1410:23 1415:3

viewing 1342:5 1372:10 1403:20

viewpoint 1332:3,25 1334:24 1342:20 1343:6 1351:5 1365:9 1379:14 1402:19 1425:8

viewpoints 1331:9,13,17 1335:10, 19 1341:13 1354:14 1360:10 1366:13 1368:1 1372:20 1373:6 1377:3,23 1392:23 1400:22 1401:11,12 1410:5 1413:5 1414:15, 17 1415:1 1417:7 1424:7,11,20 1425:7,11,13 1428:6,10

views 1335:2,22 1336:2,6 1337:2,4 1339:3 1340:12 1353:6 1358:3 1367:6,8,9,14 1370:3,8 1375:21 1380:4 1383:12 1419:5,6,7,9,18 1451:8

viewshed 1357:12,17 1367:7 1369:15,22 1370:6

viewsheds 1358:24 1370:4

vine 1384:25

virtual 1437:2

vis- 1426:10

visibility 1356:25 1450:25

visible 1352:23 1357:2,6 1358:20 1375:17,19

visited 1392:17

visits 1323:20

visual 1310:20,24 1311:9,22 1312:25 1315:16,19,23 1321:22,23, 25 1323:10 1324:1 1326:17 1329:25 1330:9 1331:10 1350:1 1356:17,18, 22 1359:22 1360:2,14 1363:4,15,18, 21 1365:19 1366:24 1369:20 1370:1 1372:7 1374:15 1375:15 1376:13 1378:25 1381:9,20,23 1382:16,17, 20 1383:3,6 1386:19 1387:10 1388:23 1391:19 1396:10,12,15 1400:19,20 1401:9 1402:9,16,18 1403:6.7.21 1407:15 1408:11 1409:15,18 1412:7,15,18,23 1413:6 1414:19 1418:2,4,7,16,19,23 1423:5,12,13,22,25 1425:21 1426:10 1427:11 1429:7 1430:13 1449:23 1450:5 1451:8,25 1494:6

visualized 1472:5

visually 1348:5,16 1349:17 1391:15 1403:22 1426:14

visuals 1329:19 1372:17 1401:13

Voelckers 1303:19,21,25 1305:17, 21 1306:19 1308:2,4 1319:13,14 1322:6,10,11 1368:17 1369:2,3,7,10 1370:10,12 1371:11 1398:21,24 1399:1 1408:21,23 1409:2,7 1410:24 1422:3,5 1430:23,25 1435:18,22 1437:7 1498:7,9,23 1504:2,8 1507:11,12 1509:16 1512:2

Voelckers' 1368:20

volume 1397:16

W

WAC 1382:14 1404:15

wait 1313:22 1314:1 1346:18 1395:19 1396:23 1510:2 1513:10

waiting 1316:24 1431:6

- **wake** 1462:15 1468:23 1475:16 1476:11,15,23 1481:15 1485:17 1491:11 1492:13 1496:17 1497:19 1499:6,10 1500:14,15,25 1501:20 1503:9
- **wakes** 1462:11 1469:13 1470:23 1471:15,24 1472:4,13,15 1478:4,10, 15 1482:12,17 1486:19,23,25 1488:7 1499:23

walk 1515:18

wall 1419:7

Wallahee 1304:1 1305:14 1316:5, 12 1506:15 1507:7 1509:12

Wallula 1332:1

wanted 1305:23 1306:24 1307:7 1311:23 1323:13,14 1325:2 1329:18,21 1416:9 1420:16,25 1422:12 1429:18 1431:6 1442:2 1445:25 1462:2 1467:11 1497:16 1498:3 1504:2,9,12 1507:13 1512:22

wanting 1512:20

warm 1499:19,20

warning 1374:21

warrants 1404:23

wary 1471:15

Washington 1303:3 1325:14 1340:9 1351:17 1352:20 1380:21 1383:24 1384:14 1460:10 1500:11

Washington's 1384:12

watched 1409:6

watching 1506:12

water 1418:21 1462:19 1485:10 1499:7,9,19,20

Watson 1509:18 1510:22 1513:18

ways 1382:24 1397:3 1418:7 1499:16

WCA 1390:19

WDFW 1431:7

weaker 1490:7

weather 1357:22 1491:14 1500:18, 20

Web 1454:23



Horse Heaven Wind Farm Verbatim Record of Proceedings, Adjudicative Hearing - August 24, 2023

- web- 1391:6
- webcam 1397:22
- website 1391:6 1394:14
- weeds 1494:8
- week 1305:25 1405:5,7 1421:24
- week's 1310:13
- weeks 1309:25 1399:7 1508:9
- weight 1416:20

well-being 1419:16

- **west** 1333:23 1349:5 1352:19,20 1400:20 1418:15 1450:12,13 1453:6 1458:15 1459:8
- west-southwesterly 1453:15
- Western 1454:20
- wetlands 1457:3
- **WFP** 1470:18 1472:14 1474:16 1482:11 1491:23 1501:16
- WFRP 1481:16
- what-if 1468:22
- wheat 1333:10 1335:17
- whims 1509:11
- widely 1471:4
- wider 1488:5
- widest 1475:3
- wildlife 1307:18 1317:21 1376:12 1380:21 1418:21 1509:18 1510:7 1511:8,9,13
- Wiley 1309:23

Willa 1318:25

Willamette 1378:20

wind 1332:4,7 1351:14,16 1353:16, 17,23 1355:1,14 1367:11,14 1368:7 1379:4 1380:3 1382:3 1403:14,21, 22 1442:24 1443:14,17 1444:18,21, 22,25 1446:17 1447:4,13 1453:7,8, 15 1454:8,13 1455:1 1456:3,4,16, 17,18 1457:14 1458:2,23,25 1459:8, 25 1460:9 1462:3,6,7,8,12,13,14,20, 22 1463:3,5,6,14,18,20,25 1464:5,9, 12,14 1468:23 1469:17 1470:15,16, 17,21,24 1471:1,13,14,17,23,24 1472:3,6,7,9,12,20,22 1473:18 1474:11 1476:15,22,23 1477:20 1478:1,16,19,21 1479:10,18 1480:13,25 1481:7,14,21,23 1482:4, 6,15 1483:2,4 1487:11,23 1489:2,4, 6,12,16,19,20,21 1490:17,20 1491:23 1492:14,20,22,24 1493:16 1494:10,14,15,23 1495:1,16,17,19 1497:15,19,20 1499:10 1500:14 1501:20

wind's 1482:12 1488:24 1490:6

wind-related 1494:12

windows 1419:5

Windpower 1446:18 1447:3,10

- windrow 1454:24
- windrows 1453:10 1454:18,21 1455:6,9 1479:11 1480:22
- winds 1453:11 1454:15 1455:6 1459:13 1462:22,24 1479:12,13 1480:9 1482:22 1484:4 1489:23 1490:7,8,25 1491:2

windstorms 1490:13

windy 1490:10,11

- winery 1377:12
- winters 1459:6
- wintertime 1479:14
- Wisconsin 1384:6
- wishing 1312:2
- wit 1303:6
- withheld 1504:20
- witness's 1327:22
- witnesses 1303:14,24 1307:4,19 1310:20 1320:16 1361:4 1438:7 1506:19 1507:4,9 1509:13 1510:8 1511:21

wondering 1413:17 1441:21

Woodland 1303:2

word 1429:17

worded 1377:15

- words 1305:12 1382:15
- work 1306:15 1309:20 1310:7,13 1312:3 1324:11,13 1331:14 1332:15 1335:5 1345:23 1356:6 1359:22 1366:2,3 1376:11,12 1386:15,19,21, 24 1387:2,3 1391:7 1394:25 1398:3

Page 1553Index: web-..years

- 1400:16 1403:18 1405:20 1418:2,4 1420:5 1423:16 1424:2 1427:16 1428:10 1437:3 1445:4 1465:25 1473:12 1483:6 1492:12 1495:18 1501:21
- worked 1322:7 1351:15 1363:14 1381:2 1389:5 1390:6,7 1393:21 1404:7 1412:16 1427:4 1446:14 1449:1 1452:4
- working 1307:21 1309:1,23 1351:16 1353:12,17,22,25 1354:3, 13,23 1355:3,6 1372:7 1448:18 1507:25
- **works** 1413:16 1427:13,15 1482:5 1489:14
- world 1480:14 1495:19 1497:7
- worries 1310:10
- worth 1444:25 1495:14
- worthy 1336:10 1383:14
- **WRF** 1472:14 1482:4,11 1491:13,20 1501:16
- write 1356:8 1433:15 1434:5,6 1460:22
- writing 1348:3 1388:7,25 1390:9 1509:17 1511:19 1512:5 1513:1
- written 1305:24 1316:14 1356:14 1358:19 1408:1,17 1422:8 1426:18 1455:25 1456:2 1458:21 1513:9
- wrong 1453:13,14
- wrote 1356:10,12 1388:11,16 1389:17,20,24 1433:16 1502:19

Y

- Yakama 1303:14,24 1305:18 1310:11 1316:5 1319:12,15 1322:6 1360:6 1366:9 1368:25 1369:10,23 1377:4 1378:6 1396:4 1398:24 1409:7 1410:9,17 1504:12 1507:7 1510:12
- Yakima 1325:16,17,19,22 1326:20 1369:17
- year 1372:22 1481:9
- **years** 1305:9 1360:1 1396:11 1418:5,18 1447:19 1449:3 1450:24 1452:4 1457:17,21,25 1458:24 1487:12 1494:14



yellow 1351:8

Yellowstone 1418:11

yes-or-no 1392:20

yesterday 1308:21 1309:21 1317:4, 5 1394:11 1408:3 1512:23 1513:21

York 1445:11 1492:22

Young 1318:1 1382:9,10,11 1383:4, 15 1411:25 1417:13,14 1418:14 1420:6,7 1492:4,6,7 1493:12 1494:1,7 1500:24

Young's 1417:12

Youtube 1492:21

Ζ

ZAR 1501:7

zone 1401:3,5,6 1402:7,10,11 1411:16 1413:2,3,9,10,18,24 1414:2,12,24

zoned 1412:13

zones 1402:5 1403:13

zoom 1327:20 1337:10 1342:7 1343:1 1402:25

zooming 1372:13

