TCC Pre-Filed Testimony Rich Simon EXH-5503 R

BEFORE THE STATE OF WASHINGTON **ENERGY FACILITY SITING EVALUATION COUNCIL**

In the Matter of the Application of:

DOCKET NO. EF-210011

Scout Clean Energy, LLC, for Horse Heaven Wind Farm, LLC, Applicant. RICH SIMON REBUTTAL

I am a witness in these proceedings for Tri-Cities C.A.R.E.S. (TCC) and submitted the following testimony:

EXH-5500_T, Witness Statement and Exhibit List

refutes Mr. Poulos' allegations and unfounded accusations.

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EXH-5501_T, Testimony

EXH-5502_T, Curriculum Vitae

In applicant's EXH-1031_R, Greg Poulos, my former partner at V-Bar Consulting, makes several allegations regarding data used in my testimony. The information below

Page	Lines	Summary of Poulos	Simon response
		testimony	
3	8-11	Poulos is very familiar with	V-Bar, LLC is a company that I founded.
		Horse Heaven, having sited	Poulos started working at V-Bar in May 2009.
		the original met towers in	Prior to that time, I was the lead author on
		2007 and "subsequently	the projects. My name appears on all
		after leaving Clipper	Columbia (Horse Heaven) technical reports
		Windpower doing reports	submitted to Clipper.
		for a technical consulting	Poulos also did not mention that he and I
			were managing partners of V-Bar, LLC.

1			firm named V-Bar through 2012."	
2	3	11-13	"the project was revived in	Those original wind data from 2007-2010 were
3			2016 by Scoutfor whom	collected by Clipper, who manufactured, sold and operated wind turbines, as well as having a
4			Ihave done technical consulting since that time."	project development arm. Clipper turbines did
5			consuming since that times	not perform well, and the company was sold to United Technologies in 2010 and then resold sold
				in 2012 to a successor company called Platinum
6				Equities.
7	5	12-19	Mr. Poulos states wind farm net capacity factors are	Wind farms today generally have net capacity factors of 35-50%, so the threshold
8			generally or can be	of 25% would only apply in extenuating
9			economical at a minimum	circumstances. On lines 15-19 he lists
			25%, with few exceptions.	various inputs to determine economic feasibility, including unspecified "other
10				factors." Three such other factors pertinent
11				to Horse Heaven are competing wind
12				projects, matching the transmission system, and the risks of "putting all one's eggs in one
13				big basket" wind farm.
14	7	10-12	Mr. Poulos comments on my	My testimony was clear that final permits
			l de addice a constitue de la constitue de la co	/:
			testimony that it would be	(with approval to start construction) are
15			unprecedented for permitting agencies to issue	ultimately granted for a specific turbine array plan.
			unprecedented for permitting agencies to issue open-ended permits for a	ultimately granted for a specific turbine array
15	7	13-14	unprecedented for permitting agencies to issue open-ended permits for a wind farm.	ultimately granted for a specific turbine array plan.
15 16 17	7	13-14	unprecedented for permitting agencies to issue open-ended permits for a	ultimately granted for a specific turbine array
15 16 17 18	7	13-14	unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention
15 16 17	7	13-14	unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part
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15 16 17 18 19	,		unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a given project envelope. Mr. Poulos states that "a final decision regarding the	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part of the permitting process. This language seems contradictory to his statement on lines 10-12 discussed above,
15 16 17 18 19 20	,		unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a given project envelope. Mr. Poulos states that "a final decision regarding the purchase of wind	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part of the permitting process. This language seems contradictory to his
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15 16 17 18 19 20 21 22 23	,		unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a given project envelope. Mr. Poulos states that "a final decision regarding the purchase of wind turbinesdepends on getting EFSEC approval." Poulos notes the project is	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part of the permitting process. This language seems contradictory to his statement on lines 10-12 discussed above, wherein he states that open-ended permits can be granted. The Shepherds Flat project differs substantially
15 16 17 18 19 20 21 22	7	19-25	unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a given project envelope. Mr. Poulos states that "a final decision regarding the purchase of wind turbinesdepends on getting EFSEC approval." Poulos notes the project is "consistent with a trend	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part of the permitting process. This language seems contradictory to his statement on lines 10-12 discussed above, wherein he states that open-ended permits can be granted.
15 16 17 18 19 20 21 22 23	7	19-25	unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a given project envelope. Mr. Poulos states that "a final decision regarding the purchase of wind turbinesdepends on getting EFSEC approval." Poulos notes the project is	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part of the permitting process. This language seems contradictory to his statement on lines 10-12 discussed above, wherein he states that open-ended permits can be granted. The Shepherds Flat project differs substantially from Horse Heaven in that (1) there is no population center near it, and (2) the turbines are not located along or adjacent to a single,
15 16 17 18 19 20 21 22 23 24	7	19-25	unprecedented for permitting agencies to issue open-ended permits for a wind farm. Mr. Poulos notes FAA has authorized a variety of wind turbine positions within a given project envelope. Mr. Poulos states that "a final decision regarding the purchase of wind turbinesdepends on getting EFSEC approval." Poulos notes the project is "consistent with a trend towards larger wind farms,	ultimately granted for a specific turbine array plan. His statement is correct, as FAA is concerned only with positions and maximum heights of the turbines. However, he fails to mention that FAA authorization alone is only one part of the permitting process. This language seems contradictory to his statement on lines 10-12 discussed above, wherein he states that open-ended permits can be granted. The Shepherds Flat project differs substantially from Horse Heaven in that (1) there is no population center near it, and (2) the turbines

1			in Oregon as an example. He then points to other large	impact of Horse Heaven would dwarf that of Shepherds Flat.
2			wind farms being considered.	
3	8	10-13	Mr. Poulos notes that	There are at most 15-20 wind turbines
4			Altamont Pass in California	visible from the city of Livermore. I was
5			overlooks the city of Livermore.	physically present to observe this in April 2023.
6	8	13-16	Mr. Poulos notes that hundreds of wind turbines	First, the population of the entire Coachella Valley is close to 500,000 persons, but the
7			are located in San Gorgonio Pass, California, with a	combined population of the two cities he mentions are only about 100,000. The vast
8			combined population of	majority of people in the Coachella Valley live in flat terrain and far from the wind
10			nearly 500,000 people near Palm Springs and North Palm	farms. The flat terrain also means that most residents will not have a view of the wind
			Springs.	farms, since adjacent buildings and
11				vegetation restrict horizontal visibility
12				distance. Also, there are tall mountains near
13				the wind farms (exceeding 5000-ft elevation in all directions except southeast, two
14				exceeding 10,000 ft elevation), which further minimizes the visual impact of the much
15				smaller wind turbines, which then blend into
16				the mountain scenery. According to the US Wind Turbine Data Base web site, the entire
17				installed capacity at San Gorgonio Pass is 682 MW (across 27 projects), which is smaller
18				than the proposed Horse Heaven wind farm. Finally, due to the unusual nature of winds in
19				California, there are very few locations
20				where wind turbines can be economically
21				sited, whereas Washington has much more suitable land area.
22	9	5-8	Poulos concurs with my	The question here is how much higher the
			statement that the escarpment is a high wind	wind resource would be; without the full data set I will estimate that it won't be more
23			resource location within the	than 20% windier than sites southwest of
24			project footprint.	the escarpment. And those upwind turbines
25				will cause wake losses along the escarpment, which would reduce the premium of its wind
26				resource.

1	9	9-14	Poulos comments that my	My understanding is that Montana winds are
2			projection of lower energy	currently a higher priority for Pacific
			for Horse Heaven should not	Northwest Investor Owned Utilities than
3			be compared to wind farms	central Washington for adding to their
			located in Montana and	energy portfolio. Presumably these utilities
4			Wyoming, and that I neglect	are considering all associated project
5			to mention costs for long- distance transmission.	development costs, including transmission.
6	9	14-20	Poulos notes many wind	He does not mention that many of those
7			farms in Washington and	wind farms are at least 10 years old and use
·			Oregon have similar or lower	much less efficient wind turbines. Also, he
8			capacity factors than Horse	has not noted that energy prices have varied
			Heaven.	such that lower wind sites could have been
9				economic in the past but perhaps less so
10	9	10.04	Davidas matas that wind fame	today.
	9	19-24	Poulos notes that wind farm	To some extent this is true, but it is my
11			economics are proprietary.	understanding that consideration of
12				economics for new renewable energy projects is part of the formal regulatory review
12				process; thus a new windfarm should
13				demonstrate a "reasonable cost."
14	9-10	25-9	He notes my comments	My comments were based on my
14	/ 10	20 /	about grid availability, and	understanding of various studies that have
15			states that this has been	been done, including by BPA. To the extent
1.			addressed by Scout.	that all internally produced energy cannot be
16			, and the same of	delivered into the grid, this downgrades the
17				annual energy potential of an energy facility.
	10	10-13	Poulos states that	My comment was that, as part of the
18			concerning Nine Canyon, it is	economic benefit review process,
19			not unusual for new wind	incremental wakes on Nine Canyon would
			farms to impact existing	seem an integral part of evaluating the
20			ones.	overall benefit of Horse Heaven, and I merely
21				asked if the wakes had been modeled. The
41				Horse Heaven wind turbine filing with the FAA
22				shows one proposed Horse Heaven turbine
22				less than a mile upwind (to the southwest) of
23				a Nine Canyon turbine, which would cause a
24	10	22.2	Mr. Poulos comments that	significant wake loss.
25	10-	23-3	many people prefer wind	It is not clear why someone whose expertise is in wind resource assessment should be
25	11		turbines over smokestacks,	offering these kinds of opinions. As I
26			followed by some political	understand it, the issue at Horse Heaven is
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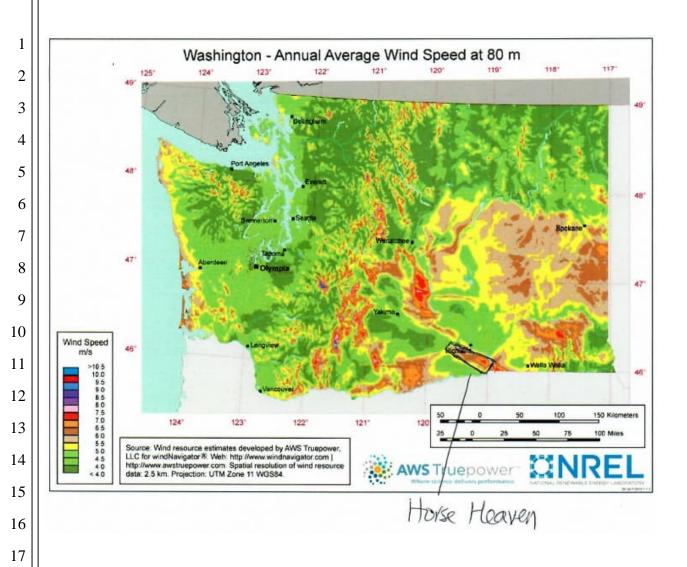
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		rhetoric extolling the virtues of wind farms as signs of progress and helping make the world a better place.	not that it is a renewable energy project per se, but its specific impacts on the community. Finally, given the choice of hundreds of wind turbines on a ridge or a few smokestacks, I suspect wind turbines would not be the choice.
11	4-15	He affirms that there will always be visual impacts, then compares Nine Canyon to Horse Heaven.	Nine Canyon turbines are smaller, with only a few of them standing atop the high ridgeline/escarpment in question. Further, Nine Canyon encompasses only a five-mile length (versus Horse Heaven's 25 miles) and its turbines are south of the easternmost part of the Tri Cities—thus with substantially less visual impact than Horse Heaven.
11	15-19	Poulos states that a "sole focus on visual impacts seems undue"	This is factually incorrect and appears to be merely his personal opinion For something 25 miles long with a high visual impact, EFSEC would presumably consider that significant.
11	19-20	Poulos thinks EFSEC should not be considering economic viability.	How does that opinion set with the stated guidelines for reasonably priced economics? EFSEC guidelines under the statute call for consideration of whether a project produces "abundant power at reasonable cost."
12	4-10	Mr. Poulos restates that the best resource is along the escarpment, which is therefore the "heart of the project."	I addressed this comment above. I am not aware that Mr. Poulos has thoroughly considered wake losses from upstream turbines.
12	16-26	Further comments on Apostol's desire to reduce the turbine count and especially those on the escarpment.	I also addressed this comment above.
13 And 13- 14	9-13 13/24 14/5	The wind turbine array is optimized.	Per his own testimony, the array plan is only conceptual at this point, and there is no final array plan. And one must define "optimization," as that term can have several meanings. What is being optimized, and could a smaller project still maintain strong economics?

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14	8-11	Poulos says Sharp should not have revealed the met tower	I know, as Mr. Sharp informed me, that he drove on public roads to identify the general
		locations or data.	locations of the current met towers, from
			which their exact positions were
			subsequently determined from Google Earth
			aerial imagery.
14	19-20	Horse Heaven meets the	Yes, but there are multiple goals and
		goal of generating clean	regulations to consider, not just simply that it
		energy.	is clean energy.
14-	21-7	Poulos provides various	Normally wind farms have to be more than
15		justifications for Horse	just "economic." Regulators look at a
		Heaven as economic.	multitude of attributes, pro and con in their
			balancing analysis.
15	8-16	Poulos notes that Sharp	The only way to confirm this is by having access
		states very cold days are	to the data, such that one can independently
		generally calm, based on	evaluate Poulos's assertion.
		Poulos's examination of the	
		wind data.	
17	1-15	Poulos critiques Sharp's	I understand that there have been some
		concerns about fires and	significant fires on the northeast side of the
		other matters.	long escarpment being proposed by Scout
			for wind turbines. By analogy, the US Forest
			Service has long been wary of placing wind
			turbines along ridges, because those ridges
			are key locations for staging firefighting
			operations, including air tankers



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