BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION BY PREVAILING WIND PARK, LLC FOR A PERMIT FOR A WIND ENERGY FACILITY IN BON HOMME, CHARLES MIX, AND HUTCHINSON COUNTIES, SOUTH DAKOTA, FOR PREVAILING WIND PARK ENERGY FACILITY

SD PUC DOCKET EL-18-026

PREFILED REBUTTAL TESTIMONY OF AARON ANDERSON
ON BEHALF OF PREVAILING WIND PARK, LLC

September 26, 2018

I. INTRODUCTION

2

1

- 3 Q. Please state your name.
- 4 A. My name is Aaron Anderson.

5

- 6 Q. Did you provide Direct Testimony in this Docket?
- 7 A. Yes. I submitted direct testimony in this docket on May 30, 2018.

8

- 9 Q. What is the purpose of your Rebuttal Testimony?
- 10 A. The purpose of my Rebuttal Testimony is to provide an updated shadow flicker
- analysis to reflect a taller hub height for the proposed turbine and to model shadow
- 12 flicker at nine (9) additional occupied residences that were identified in Prevailing
- Wind Park, LLC's re-review of residences within and near the Prevailing Wind Park
- 14 Project area, as described in Bridget Canty's Rebuttal Testimony.

15

- 16 Q. What exhibits are you attaching to your Rebuttal Testimony?
- 17 A. Exhibit 1: Results of Updated Shadow Flicker Analysis.

18

II. SHADOW FLICKER ANALYSIS UPDATE

19 20

- 21 Q. Please describe the updates reflected in the updated shadow flicker analysis.
- 22 A. There are two updates reflected in my updated shadow flicker analysis. First, the
- analysis uses the GE 3.8-137 wind turbine with the 111.5 meter hub height in place
- of the 110 meter hub height. Second, the analysis evaluates shadow flicker on 146
- occupied residences. This includes the original 137 residences and the nine (9)
- additional residences identified during the September 2018 field review.

2728

- Q. What are the results of your analysis?
- 29 A. Attached as Exhibit 1 is a table showing the full results of my analysis. For summary
- purposes, a table identifying receptors that were modeled to exceed the shadow
- 31 flicker commitments made by Prevailing Wind Park is included below. For a

discussion of mitigation that Prevailing Wind Park will undertake with respect to shadow flicker, see the Rebuttal Testimony of Peter Pawlowski.

32

33

Summary of Shadow Flicker Results				
Receptor Name	Flicker Duration	Flicker Duration	Participating	County Name
	[hour/year]	[max	Status	
		minutes/day]		
076	33.90	51	Non-	Charles Mix
			Participating	
017	19.87	40	Non-	Charles Mix
			Participating	
024	6.20	31	Non-	Charles Mix
			Participating	
031	6.43	31	Non-	Charles Mix
			Participating	
070	8.80	36	Non-	Charles Mix
			Participating	
112	5.37	31	Non-	Charles Mix
			Participating	
149	7.35	31	Non-	Charles Mix
			Participating	

35

36 III. CONCLUSION

37

38 Q. Does this conclude your Rebuttal Testimony?

39 A. Yes.

	agur andusa
41	Caraca Conditional Conditions
42	
43	Aaron Anderson
44	
45	64846436

Dated this 26th day of September, 2018.