

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of the Application of	:	
Republic Wind, LLC for a Certificate to	:	
Site Wind-Powered Electric Generation	:	Case No. 17-2295-EL-BGN
Facilities in Seneca and Sandusky	:	
Counties, Ohio.	:	

**PREFILED TESTIMONY
OF
Mark Bellamy
SITING, EFFICIENCY AND RENEWABLE ENERGY DIVISION
DEPARTMENT OF RATES AND ANALYSIS
OHIO POWER SITING BOARD STAFF**

STAFF EX. ____

October 28, 2019

1 1. Q. Please state your name and your business address.

2 A. My name is Mark C. Bellamy. My business address is 180 East Broad
3 Street, Columbus, Ohio 43215.
4

5 2. Q. By whom are you employed and what is your position?

6 A. I am employed by the Public Utilities Commission of Ohio (PUCO) as a
7 Utility Specialist in the Siting, Efficiency & Renewable Energy Division of
8 the Rates and Analysis Department.
9

10 3. Q. Please summarize your educational background.

11 A. My education includes earning a Bachelor of Science in Education degree in
12 Chemistry from Arkansas State University.
13

14 4. Q. Please summarize your work experience.

15 A. Prior to my employment with the PUCO, I served 6 years in the U.S. Navy
16 as a Machinist's Mate on a submarine. I operated and maintained
17 atmosphere control equipment, as well as performed duties as a quality
18 assurance inspector. After the Navy, I was employed as a high school
19 science teacher. I joined the staff of the PUCO in 2009. Part of my duties in
20 my current position is to help implement Ohio's Renewable Portfolio
21 Standard as well as assisting in Ohio Power Siting Board (OPSB) case
22 reviews and analyses.

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5. Q. Have you testified in prior proceedings before the OPSB?

A. Yes.

6. Q. What is the purpose of your testimony?

A. I am testifying in support of the Staff Report of Investigation (Staff Report) in this case. Specifically, the noise, shadow flicker, ice throw and blade shear sections.

7. Q. Are you testifying to any specific conditions? If so, what are they?

A. I am testifying to conditions 41, 44, 45, and 46 of the Staff Report filed on July 25, 2019 and condition 58 of the Supplement to the Staff Report filed on October 18, 2019.

8. Q. Is Staff recommending any changes to these conditions?

A. Yes. Condition 46 in the Staff Report is a duplicate of condition 41 and should be deleted.

9. Q. Why is Staff recommending condition 41?

A. Condition 41 requires the Applicant to notify OPSB Staff as soon as possible after a turbine incident such as tower collapse, turbine failure,

1 thrown blade or hub, ice throw beyond the setback, collector or feeder line
2 failure, injury to any person, or nacelle fire. This condition also requires a
3 detailed report to be submitted within 30 days. This condition will allow
4 Staff to investigate incidents shortly after an incident happens. The detailed
5 report will include steps the Applicant is taking to avoid future incidents.
6 Staff will use the data from these reports to determine if preventative
7 measures can be taken.
8

9 10. Q. Why is Staff recommending condition 44?

10 A. Condition 44 limits noise impacts so that no nonparticipating sensitive
11 receptor receives adverse noise impacts.
12

13 11. Q. Why is Staff recommending condition 45?

14 A. Condition 45 limits shadow flicker impacts so that no nonparticipating
15 sensitive receptor receives adverse shadow flicker impacts.
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17 12. Q. Why is Staff recommending condition 58?

18 A. On September 12, 2019, at the public hearing on this application, a resident
19 in the project area informed Staff that her house was not on the sound study
20 map as a receptor. When Staff asked the Applicant about this receptor and
21 the possibility of other missing receptors, the Applicant stated that the
22 receptor in question was modeled on earlier sound studies but was not

1 included on the latest sound study. The Applicant also stated that there
2 were nine other receptors not initially modeled in the sound studies. On
3 October 10, 2019 the Applicant supplied Staff with the noise model results
4 for the omitted receptors. Based on the model results, the noise impacts at
5 all of the omitted receptors would be within the noise limit of ambient plus
6 5 dBA. The ambient noise for the project area was determined by the
7 Applicant to be 41 dBA.

8
9 It is Staff's opinion that occupants at the missing receptor locations should
10 have been given information on potential noise impacts much earlier in the
11 process. Therefore, Staff recommends that the Certificate be conditioned to
12 prohibit constructing any turbine that is modeled to impact a previously
13 non-modeled receptor above the ambient level of the project area. The
14 turbine location modeled to produce an impact greater than the ambient
15 level is turbine location 37. Turbine models Siemens Gamesa SG145 (4.5
16 MW), Nordex N149 (4.5 MW), or Nordex N149 (4.8 MW) were modeled
17 to produce an impact greater than the ambient level at one previously non-
18 modeled receptor. Therefore, Staff recommends the addition of condition
19 58 to address this situation:

20 (58) The Applicant shall not use turbine models Siemens Gamesa SG145
21 (4.5 MW), Nordex N149 (4.5 MW), or Nordex N149 (4.8 MW) at
22 turbine location 37.

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13. Q. Did the Applicant perform an ice throw study and if so what were the results of that study?

A. Yes, the applicant produced an ice throw study and submitted it to Staff on February 27, 2019. The results of the ice throw study show that the annual probability of a 1 kg piece of ice landing beyond the property line setback or on public roads is less than 0.01% per year. This complies with Rule 4906-4-09 (E) (3) which states, “the potential impact from ice throw shall be presumptively deemed to satisfy safety considerations if the probability of one kilogram of ice landing beyond the statutory property line setback for each turbine location is less than one per cent per year.”

14. Q. Does this conclude your testimony?

A. Yes, it does. However, I reserve the right to submit supplemental testimony, as new information subsequently becomes available or in response to positions taken by other parties.

PROOF OF SERVICE

I hereby certify that a true copy of the foregoing Prefiled Testimony of Mark Bellamy, submitted on behalf of the Staff of the Ohio Power Siting Board, was served via electronic mail, upon the following parties of record, this 28th day of October, 2019.

/s/ Jodi J. Bair

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Summary: Testimony of Mark Bellamy electronically filed by Mrs. Kimberly M Naeder on behalf of OPSB