

**BEFORE  
THE OHIO POWER SITING BOARD**

In the Matter of the Application of Seneca )  
Wind, LLC for a Certificate of Environmental )  
Compatibility and Public Need for a Wind- )  
Powered Electric Generating Facility in )  
Seneca County, Ohio. )

Case No. 18-488-EL-BGN

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**SENECA WIND, LLC'S RESPONSES TO STAFF'S FIFTH SET OF DATA REQUESTS**

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**Safety**

- 1) If a turbine is automatically shut down for non-emergency reasons (e.g. due to vibration, ice accumulation, lightning storm, collector or feeder line failure, or another issue) please describe your restart procedures to assure that the wind turbine is not a danger to the public upon restart.

**RESPONSE:** *The restart procedure for the turbine varies depending on the fault and is specifically driven by safety. In most of the issues listed above (e.g., vibration, ice, lightning or feeder failure), a visual inspection and verification is required. The turbine manuals provide procedures for inspection of turbines after deactivation. Seneca Wind will comply with the applicable safety procedures when restarting a turbine.*

- 2) Ohio Administrative Code 4906-4-08(A)(1)(c), provide a complete copy of the manufacturer's safety manual or similar document, including any recommended setbacks for the Siemen Gamesas 2.7-129 and 2.9MW models.

**RESPONSE:** *The Siemens safety manual is confidential document. It has been filed under seal along with a motion for protective order. A copy of the safety manual has been provided directly to staff.*

- 3) Provide the name or resume of the professional engineer(s), structural engineer(s), or engineering firm(s) that will review and approve the project layout and turbine foundation design.

**RESPONSE:** *sPower will supplement this response.*

- 4) Is the Applicant aware of any instance where the GE 2.3-116, GE 2.5-127, or Siemens Gamesa 2.7-129 has been installed in North America? If so, provide the wind farm name and month/year of installation.

**RESPONSE:** *sPower will supplement this response.*

- 5) Referencing Data Request Number Four (if applicable), what problems has the operator found regarding these models and how have they been corrected?

**RESPONSE:** *Seneca Wind has no knowledge of any problems with the operation of these turbine models.*

### **Foundations**

- 6) Please describe common problems associated with the design of the spread footer and how are those problems are typically addressed?

**RESPONSE:** *Seneca Wind has no knowledge of any problems with the design of spread footer foundations.*

### **Aviation**

- 7) In reference to Application (Appendix F), when does Seneca Wind anticipate receiving determination letters from the FAA.

**RESPONSE:** *Seneca Wind expects to receive the determination letters in the next 3 – 6 months*

- 8) Please describe your efforts to address any aviation issues regarding the Department of Defense, Aircraft Owners and Pilots Association, Seneca County Airport, TiffinAire, Inc., and Ohio Association of Critical Care Transport.

**RESPONSE:** *DOD coordination determinations have been submitted to the FAA requesting the FAA to perform a review. This review includes the locations being reviewed by the DoD clearinghouse. sPower has retained Capital Airspace Group to perform an analysis of the potential issues identified by DoD, and to assist in discussions with the DoD for possible mitigation. A formal request was submitted to the DoD clearinghouse on January 3, 2019 to initiate discussions with DoD.*

*With respect to the airport, TiffinAire and the AOPA the FAA runs the project through the clearing house to determine if we are interfering with any civilian flight patterns. To our knowledge, the project does not impact any civilian flight patterns. For the Ohio Association of Critical Care Transport, we will work and meet with them to address any of their concerns including access to our 24 hour operations center for shutting down turbines in support of their mission.*

## Setbacks

- 9) According to Application (Appendix O, and Revised Appendix O) and Seneca Wind's 12/18/2018 response to staff's data requests, turbines 58, 61, 71, and 72 do not seem to conform to the Applicant's calculated setback of 1,337.75 feet. Describe your plans for these turbines.

**RESPONSE:** *Any turbines that do not conform to the setback will only be constructed if we can receive the proper waivers to comply with the Ohio setback laws at the time of construction.*

- 10) Ohio Administrative Code 4906-4-08(C)(2)(c), describe your plans to implement and adhere to the setback distance to any gas distribution line(s).

**RESPONSE:** *Seneca Wind has performed an ALTA survey to ensure compliance with the setbacks from gas distribution lines. Based on this survey, it does not appear that any of the proposed turbines would violate the requirements of O.A.C. 4906-4-08(C)(2)(c).*

- 11) Ohio Administrative Code 4906-4-08(C)(2)(c), what is the nearest distance, in feet, from the wind turbines to any gas pipeline, gas distribution line, and hazardous liquid(s) pipeline(s).

**RESPONSE:** *Based on the results of the ALTA survey, it appears that the nearest distance in feet to a gas distribution line is 583 feet (Turbine No. 6). Pursuant to O.A.C. 4906-4-08(C)(2)(c), the setback from the gas distribution line is 549 feet. Therefore, this turbine does not violate the setback rule for gas distribution lines.*

## Communications

- 12) The Microwave Study (June 27, 2018, p. 9) indicates that turbines 9, 64, and 83 will be close to the microwave Fresnel clearance zone. Describe how this microwave Fresnel clearance zone will be avoided (e.g. noted on the civil construction plans) by any construction equipment that would interfere with the Fresnel clearance zone.

**RESPONSE:** *Construction plans will include drawings of the microwave paths and procedures to avoid interference by construction equipment (i.e., cranes). In the event that avoidance is not possible, mitigation will be pursued as discussed in the response to data request number 12 below.*

- 13) The Microwave Study (June 27, 2018, p. 9) indicates that turbines 80 and 89 will obstruct the microwave Fresnel clearance zone. Describe Seneca Wind's plans for these turbines.

**RESPONSE:** *In order to construct these turbines, Seneca Wind will either work with the owner of the microwave path to develop mutually agreeable mitigation or shift the turbine location to avoid the path to avoid the Fresnel clearance zone.*

**Ice Throw**

- 14) Does Seneca Wind intend to request a waiver from Ohio Administrative Code 4906-4-09 (E) (1) which states that ice throw analysis shall, at a minimum, include the probability of ice throw impacts at the nearest property boundary and public road?

**RESPONSE:** *No. Seneca Wind is currently contracting a qualified consultant to conduct an ice throw analysis for the Project.*

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

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**in**

**Case No(s). 18-0488-EL-BGN**

Summary: Response of Seneca Wind, LLC to Staff's Fifth Set of Data Requests electronically filed by Teresa Orahoud on behalf of Devin D. Parram