

May 20, 2021

Ms. Tanowa Troupe, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3797

Re: Case No. 20-1362-EL-BGN - In the Matter of the Application of Clearview Solar I, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Champaign County, Ohio.

Second Supplemental Response to Fourth Data Request and Follow Up Inquiries from Staff of the Ohio Power Siting Board

Dear Ms. Troupe:

Attached please find Clearview Solar I, LLC's ("Applicant") Second Supplemental Response to the Fourth Data Request and Follow Up Inquiries from the staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on May 20, 2021.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik

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The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 20th day of May, 2021.

/s/ Christine M.T. Pirik

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4813-9177-8794 v1 [85890-4]

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of the Application of Clearview Solar)	
I, LLC for a Certificate of Environmental)	
Compatibility and Public Need to Construct a Solar-)	Case No: 20-1362-EL-BGN
Powered Electric Generation Facility in Champaign)	
County, Ohio.)	

CLEARVIEW SOLAR I, LLC 'S
SECOND SUPPLEMENTAL RESPONSE TO THE FOURTH
DATA REQUEST AND FOLLOW UP INQUIRIES
FROM THE STAFF OF THE OHIO POWER SITING BOARD

On December 18, 2020, Clearview Solar I, LLC (“Applicant”), filed an application (“Application”) with the Ohio Power Siting Board (“OPSB”) proposing to construct a solar-powered electric generation facility in Champaign County, Ohio.

In the course of its review of the Application, the Staff of the OPSB (“OPSB Staff”) provided the Applicant with OPSB Staff’s Fourth Data Request as well as several follow up inquiries. Now comes the Applicant providing the following Supplemental Response to Question 2 of the Fourth Data Request and the follow up inquiries.

Second Supplemental Response to the Fourth Data Request, Question 2 Regarding Natural Disasters and Follow up Inquiries from OPSB Staff Regarding Questions on Seismic Activities in the Project Area:

Response: To further inform the questions posed by the OPSB Staff on these topics, the Applicant employed the expertise of Hull & Associates (“Hull”). According to Hull, seismic events are commonly measured by magnitude (i.e. the Richter Scale) or the Modified Mercalli Intensity (“MMI”) scale. The Richter Scale is an open-ended logarithmic scale with each increase in number of magnitude corresponding to a 10-fold increase in the amplitude of the seismic waves and approximately 31 times more energy. The MMI scale depicts the amount of ground shaking at a particular location on the basis of the effects felt by people and the observed damage to buildings

and surface disturbance. This very general range is defined by Roman Numeral I (not felt) to Roman Numeral XII, total destruction¹.

Hull identified the three closest recorded seismic events that have occurred near the Project Area. The magnitude of these seismic events were 2.5 (MMI intensity scale of III) and 3.1 (MMI intensity scale of IV) that occurred in 1939 in Logan County, and 4.7 (MMI intensity scale of VI) for an event that occurred in 1875 in Champaign County. The description of the MMI intensity for these three events are described below:

- III – Felt noticeably indoors, but not always recognized as earthquake; standing autos rock slightly, vibrations feel like passing truck;
- IV – Felt indoors by many, outdoors by few, at night some awaken; dishes, windows, doors disturbed; standing autos rock noticeably; and
- VI – Felt by all, many frightened and run outdoors; falling plaster and chimneys, damage minor.

Hull explained that the United States Geological Survey (“USGS”) released a seismic hazard/seismic risk map that shows the potential area of effect for damaging ground shaking that corresponds with an MMI equal to VI, in 100 years². The map indicates that the western portion of Ohio, including the Project Area are in the 4% to 19% chance of slight (or greater) damaging earthquake shaking in 100 years.

According to Hull, there is no way to predict the timing of a seismic event in or surrounding the Project Area. However, based on the magnitude of historic events recorded in western Ohio, Hull states that it is anticipated that future seismic events would be within a similar range of magnitudes or intensities. Hull noted, however, that researchers have suggested that western Ohio could potentially experience a seismic event ranging from 6 to 7 in magnitude. Based on the proposed construction of the solar farm facility with subsurface components installed to a total depth of 6 to

¹ Hansen, M.C., and Fox, J. L., *Earthquakes in Ohio*, Educational Leaflet No. 9, Revised Edition 2020.

² Rukstales, K.S., and Petersen, M.D., 2019, Data Releases for Update of the U.S. National Seismic Hazard Model: USGS data release, <https://www.sciencebase.gov/catalog/item/5cbf47c4e4b0c3b00664fdef>

10 feet and the collection lines typically trenched to a depth of only 3 to 4 feet below ground surface, it is Hull's opinion that a future seismic event poses a minimal hazard/risk to the constructability and operation of the Project.

Finally, the Preliminary Geotechnical Exploration Report, Application Exhibit N filed on December 18, 2020, prepared by Hull for the Project Area states "pursuant to ASCE/SEI 7-10 and the International Building Code (IBC), Site Class D (for stiff soil) is recommended for seismic design at the Site. All structures should be designed in accordance with the most current Ohio Building Code as well as local building codes, as appropriate."

Therefore, the Applicant has committed that all facility structures shall be designed and constructed in accordance with the above-referenced requirements. In the event damage were to occur to the components constructed within the Project Area (whether or not it is caused by a seismic event), it is highly unlikely that this damage would pose an immediate risk to public health and wellness. In the event facility components are damaged, the components can be deactivated, removed from service and repaired, if needed.

Respectfully submitted,

/s/ Christine M.T. Pirik

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This foregoing document was electronically filed with the Public Utilities

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5/20/2021 3:03:49 PM

in

Case No(s). 20-1362-EL-BGN

Summary: Response - Second Supplemental Response to Fourth Data Request and Follow Up Inquiries from Staff of the Ohio Power Siting Board electronically filed by Christine M.T. Pirik on behalf of Clearview Solar I, LLC