

Case No. 2023-00256
Song Sparrow Solar LLC
Response to Siting Board's Second Request for Information

Siting Board 2-1:

Refer to Song Sparrow Solar's response to Siting Board Staff's First Request for Information (Staff's First Request), Item 18, Geotechnical Considerations, page 5.

- a. Provide the mitigation method Song Sparrow Solar will employ to avoid the shallow groundwater within the project area due to the proximity of the Ohio River.
- b. Provide the mitigation method Song Sparrow Solar will employ to avoid seismic concerns due to the proximity to the New Madrid seismic zone.

Response:

- a. To accurately identify and quantify impacts due to shallow groundwater depths, additional geotechnical testing will be completed prior to construction. Common methods used to mitigate impacts from shallow groundwater include construction dewatering during trenching and excavation work, enhanced road design, matting, and the use of low ground pressure equipment, where feasible.
- b. Additional geotech testing will be completed prior to construction to avoid seismic concerns due to the proximity to the New Madrid seismic zone. Additional geotechnical testing will include a liquefaction analysis as deemed necessary by the geotechnical engineer of record. A common method used to mitigate impacts associated with liquefaction is for equipment and structure foundations to be extended below any liquefiable layers to the extent practical.

Witness: Nick Benjamin

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Siting Board 2-2:

Provide any modifications or additions to any current farm roads on the project site to ensure the roads remain compliant with roadway standards.

Response: Internal access roads within the project site will be built to the standards necessary to construct and operate the facility. Modifications to existing farm roads, if necessary, will be coordinated with the appropriate stakeholders to ensure compliance with applicable standards. This will be determined in coordination with the Project's EPC contractor, once selected.

Witness: Nick Benjamin

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Siting Board 2-3:

Provide any measures Song Sparrow Solar will utilize for visibility of workers in the construction phase during Kentucky hunting season.

Response: Landowners and their authorized tenant hunters will be notified of the timing of construction activities relative to the applicable hunting season. Additionally, all construction personnel will be required to wear high visibility safety vests while on site.

Witness: Nick Benjamin

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Siting Board 2-4:

Refer to Song Sparrow Solar's response to Staff's First Request, Items 29 and 30.

Provide the manufacturer's specification sheet for the Vermeer PD10 pile driver, showing that the equipment generates sound levels of 84 dBA at 50 feet. If the sound level for the equipment is in a different metric provide how the sound level was converted to 84 dBA at 50 feet.

Response:

The Vermeer PD10 pile driver noise level of 84 dBA sound pressure level (SPL) at 50-feet was based on specifications in Vermeer's Operator's and Maintenance Manual dated 2012. In the process of confirming this information, Vermeer provided an updated manual dated 2021, which provides equipment sound power levels (PWL) for two Vermeer PD10 engine options; one with a PWL of 123 dBA and a second with a PWL of 132 dBA.

Based on this new information, the noise model was updated using the PWL of 132 dBA to demonstrate the results of the louder equipment (Table 3). With this understanding, the SPL at a 50-foot distance would be 32 dBA lower than the PWL, resulting in the pile driver generating a sound level of 100 dBA SPL at 50-feet during construction.

**Table 3. Estimated Sound Levels at Nearest Receptor Due to Construction
(Sunrise to Sunset)**

Condition	Distance to Solar Array (ft)	Estimated L_{max} Sound Level (dBA)	Estimated L_{eq} Sound Level (dBA)
With pile driver	256	86	84
Without pile driver		66	64

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Song Sparrow Solar is providing a copy of relevant pages of the Vermeer operator's manual.

Out of an abundance of caution, this documentation is being filed in conjunction with a Petition for Confidential Treatment.

Witness: Jacob Poling

**COMMONWEALTH OF KENTUCKY
BEFORE THE KENTUCKY STATE BOARD
ON ELECTRIC GENERATION AND TRANSMISSION SITING**

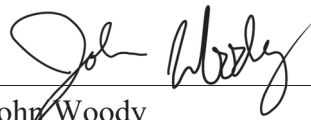
In the Matter of:

**In the Matter of the Electronic Application of Song)
Sparrow Solar LLC for a Certificate of Construction)
for an Approximately 104 Megawatt Merchant Electric) Case No. 2023-00256
Generating Facility in Ballard County, Kentucky)
Pursuant to KRS 278.700 and 807 KAR 5:110)**

CERTIFICATION

This is to certify that I have supervised the preparation of the Song Sparrow Solar LLC's responses to the Kentucky Siting Board on Electric Generation and Transmission Siting's Second Request for Information and that the responses to the request are true and accurate to the best of my knowledge, information, and belief after reasonable inquiry.

December 5, 2023
Date



John Woody
Vice President, Song Sparrow Solar LLC