

June 6, 2022

Sent Via Electronic Mail and USPS

Lisa Jackson
104 Maynard Road
Brooklyn, CT 06234
jawa@usermail.com

Re: Noise Inquiry regarding the Quinebaug Solar Facility

Dear Ms. Jackson:

We are reaching out in response to your concerns regarding inverter noise at Quinebaug Solar, LLC's ("Quinebaug") Solar Facility ("Project"). Over the past several months Quinebaug has taken the following actions to assess noise concerns related to the Project, including:

- Reaching out to the inverter manufacturer ("TMEIC") who confirmed that the inverters as-installed have noise reducing equipment (noise hoods) in place, and
- Contracting with Tech Environmental, who performed a noise impact study in October 2019 (as part of the Connecticut Siting Council ("CSC") process), and most recently to perform sound monitoring and a sound study at the Project. This latest study was completed in April 2022 and confirmed that the Project is producing sound levels that are compliant with state noise regulations and consistent with the previous modeling analysis provided to the Connecticut Siting Council ("CSC") when approving the project.

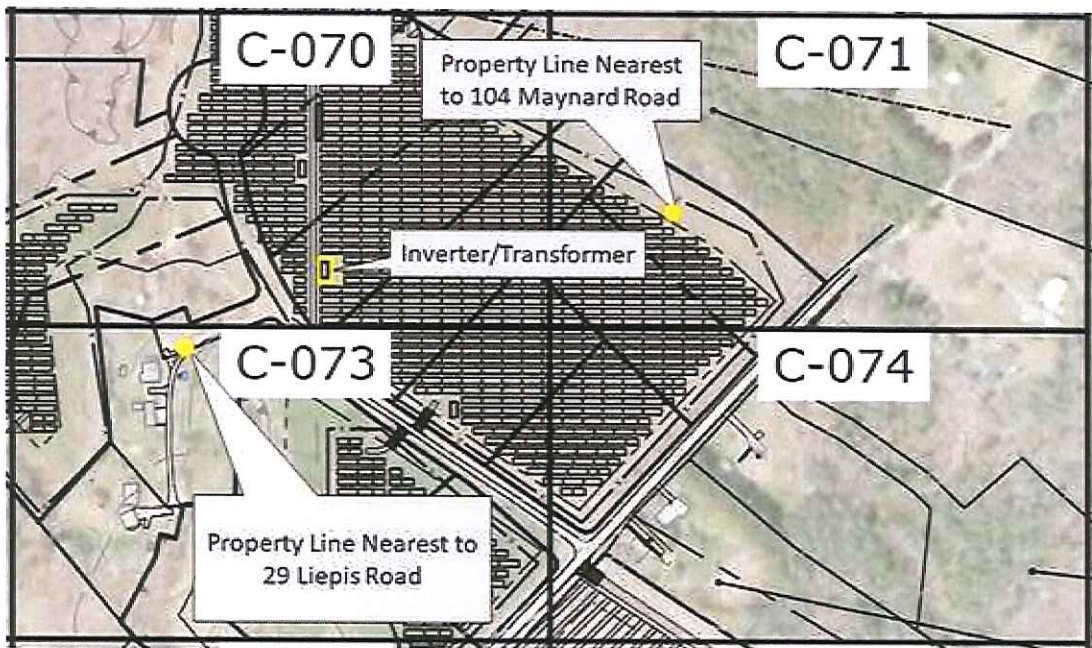
Additional background on the noise requirements and sound analysis is provided below.

Noise Requirements at the Project Site.

The Connecticut Department of Energy & Environmental Protection (CTDEEP) regulates noise through Connecticut General Statutes Section 22a-67 et seq. and Regulations of Connecticut State Agencies ("R.C.S.A.") Sections 22a-69-1 to 22a-69-7.4. Under the applicable requirements, lands designated Class A shall generally be residential areas where human beings sleep or areas where serenity and tranquility are essential to the intended use of the land. The sound limits for Class A lands are 55 dBA (daytime) and 45 dBA (nighttime). Since the inverters/transformers only operate during the daytime, the applicable sound limit is 55 dBA for the Project. The regulation also requires a lower daytime sound limit (here this would be 50 dBA) if there is a continuous noise that possesses one or more audible discrete tones.

April Investigation of Sound Levels at the Project Site.

Tech Environmental conducted a sound assessment on Monday, April 11, 2022. Tech Environmental investigated the equipment and found that all inverters/transformers noise sounded about the same and there was no unusual sound differences between the equipment pads. Next, they performed sound source measurements around equipment pad 22 (i.e., the one closest to 29 Liepis Road). Sound measurements were taken at eight (8) locations at two (2) different heights around the pad. Furthermore, they performed sound measurements at the property line locations closest to 29 Liepis Road and 104 Maynard Road (see figure below). Monitoring was performed to capture “clean” measurements of the equipment pad noise and screening out ambient noise (e.g., cars, aircraft, dogs barking, etc.). Tech Environmental observed that inverter fans were the main source of sound from the equipment pad.



Measured Sound Levels at the Project Site.

The table below summarizes the modeling that was provided to the CSC in October 2019 (this modeling was predicted at the residence versus at the property line). The April 2022 field work measurements at the property line were input into the model to determine the relevant sound levels at the residences. Based on the below, the measured sound levels at the residences are consistent with, and actually less than, the originally predicted sound levels, and are compliant with state daytime sound limits.

**PREDICTED SOUND LEVELS
FROM THE QUINEBAUG SOLAR PROJECT**

Receptor Address	October 2019 Sound Levels	April 2022 Sound Levels	Complies with Daytime Sound limit of 50 dBA?
29 Liepis Road	37	36	Yes
104 Maynard Road*	32	27	Yes

* Difference in sound levels from 2019 to 2022, due to the change in equipment pads' location.

Again, we appreciate your patience while we investigated your concerns. Please let us know any questions regarding the above.

Sincerely,



Laura Peña
Business Manager
561-694-4733

Cc (via Electronic Mail Only):
Tracy Backer