

September 15, 2025

Re: Bluestem Solar – Noise Narrative
Proposed 21 MW DC (15 MW AC) Community Solar Facility

Applicant: Clean Field Power LLC – Bluestem Solar
Location: Sugar Grove Township, Township 38N, Range 7E, Sections 23
and 26, at 40W489 Prairie Street, Sugar Grove, Kane County, IL 60554

To Whom it May Concern,

We have prepared the following assessment, which evaluates the Project’s compliance with the Illinois Pollution Control Board (IPCB) noise standards. Based on our review, the Project is expected to operate in compliance with the IPCB noise limits, as demonstrated below.

The proposed facility includes six (6) equipment pads, each containing inverter units. The inverters are rated to produce approximately 67 decibels (dB) of noise at three meters (10 feet) with a frequency of 60 hertz (Hz). Noise generally dissipates at a rate of about 6 dB with every doubling of distance (spherical spreading).

Noise Assessment:

Sound Level (dB)	Distance (feet)
67	9.8
61	19.6
55	39.2
49	78.4
43	156.8
37	313.6
34	451 (nearest property line – closest inverter pad)
31	627.2
25	1,254.4

Regulatory Compliance:

Part 901 of the IPCB “Sound Emission Standards and Limitations for Property Line Noise Sources” establishes an allowable sound pressure limit of 61 dB at residential (Class A) property lines. At the closest property line (451 feet from the nearest equipment pad), inverter sound levels are expected to be approximately 34 dB, well below the regulatory limit.

Because the remaining five (5) equipment pads are located at greater distances from all property lines, the expected sound levels at those locations will be even lower. Therefore, the Project as a whole complies with IPCB noise requirements.

Sincerely,

Mohammad Najjar
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