

May 18, 2022

Joshua Chavez
Midwest Solar DevCo CEI, LLC
8800 N. Gainey Center Dr., Suite 250
Scottsdale, AZ 85258, USA

**Re: Posey Solar Project: Redesign Noise Update
Posey County, IN
Project No. R0027286.00**

This serves as an addendum to the Posey Solar Noise Downsizing Noise Update report submitted February 16, 2022.

Since the downsizing, design revisions have included some equipment relocation. Predicted noise levels at homes nearby the project area are expected to change slightly due to this revised design but remain in compliance with the Development Standard as defined in Section 153.126.02, Paragraph F of the Unincorporated Posey County Solar and Wind Ordinance.

An updated noise model was run with the revisions to the project layout. The same equipment selection and noise source data from the February downsizing study was used.

Noise propagation was calculated using CADNA-A, a noise modelling software, in accordance with ISO 9613-2. Predicted noise levels were calculated at all residences within 1000 feet of the revised project layout.

The highest predicted noise level at a residence was 39.2 dBA from the initial design. With the current design, the highest predicted noise level at a residence is 34.2 dBA. This is still below the lowest measured ambient noise level for the project (42.6 dBA).

Overall, the average noise level at nearby residences from the proposed project is 29.2 dBA, ranging from 22.4 dBA to 34.2 dBA. Attachment A details the new predicted noise levels at all analyzed residences. Noise levels are all below the impact threshold of 45 dBA, and the lowest measured area ambient noise level of 42.6 dBA. No noise impacts are anticipated.

In performing its services, Westwood Professional Services used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

If you have any questions or wish to discuss any aspect of the project, please feel free to call Andrew Schad at (720)-387-3814. We look forward to being of continued service to you.

Sincerely,

WESTWOOD PROFESSIONAL SERVICES, INC.

Andrew Schad

Andrew Schad
Sound/Noise Specialist

Attachment A: Noise Modeling Results at Residences within 1000 feet of Infrastructure

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UTM Zone 16N NAD83, Meters				
Receptor ID	Northing (m)	Easting (m)	Elevation (m)	Project Noise Contribution [dBA]
21	430432.7	4200736.5	134.7	22.4
23	430376.6	4200693.7	136.9	24.3
24	430429.2	4200683.4	134.4	25.1
25	430928.3	4200603.1	126.5	25.1
26	430505.4	4200514.8	127.9	27.7
27	430441.3	4200430.3	124.6	26.5
28	430472.0	4200363.9	123.6	30.1
29	431355.5	4200102.5	121.4	27.8
31	428794.8	4199618.4	117.8	29.0
32	431335.9	4199606.9	117.2	23.5
33	428998.2	4199586.1	117.8	30.0
34	428792.9	4199562.2	117.8	30.1
35	428995.5	4199559.7	117.8	30.5
36	428865.5	4199557.4	117.8	30.3
37	428837.0	4199555.9	117.8	30.3
38	428921.4	4199555.7	117.8	30.4
39	430418.1	4199541.9	117.8	26.8
40	428996.1	4199532.1	117.8	31.1
41	428893.7	4199516.2	117.8	31.2
42	428866.2	4199513.2	117.8	31.2
43	428834.8	4199512.8	117.8	31.1
44	428919.3	4199510.4	117.8	31.4
45	428953.6	4199508.9	117.8	31.5
46	428791.8	4199508.2	117.8	31.2
47	428996.4	4199501.2	117.8	31.8
49	428789.4	4199454.1	117.8	32.4
50	428890.9	4199452.3	117.8	32.6
51	428919.4	4199451.1	117.8	32.8
52	428992.5	4199448.1	117.8	33.1
53	428875.2	4199410.2	117.8	33.6
54	428769.0	4199410.1	117.8	33.5
55	428822.2	4199409.4	117.8	33.5
56	428848.8	4199409.4	117.8	33.6
57	428984.9	4199409.1	117.8	34.2
58	428931.7	4199408.1	117.8	33.9
61	431078.9	4198929.8	117.8	32.4
63	430416.1	4198732.8	117.8	30.1

64	435089.4	4198459.1	127.0	23.5
65	430417.4	4198454.9	118.1	30.6
66	430730.7	4198426.0	118.1	33.7
67	435206.0	4198411.8	127.5	24.0
68	431949.0	4198363.2	117.8	34.2
69	435256.9	4198290.5	127.1	27.2
70	435807.8	4198251.7	126.1	25.7
71	434046.6	4198234.2	118.4	27.6
72	435279.6	4198233.2	124.2	25.4
73	429921.4	4198203.3	117.8	26.4
74	430729.5	4198198.1	117.8	31.7
75	434010.8	4198130.7	118.0	29.3
76	433970.4	4198130.0	118.1	28.2
77	429843.8	4198092.7	118.1	23.2
78	431269.8	4198074.5	117.9	30.5
79	436103.3	4197849.8	124.1	30.0
80	436567.3	4197818.0	139.7	31.7
81	436114.9	4197817.4	125.2	30.9
82	433633.2	4197775.2	118.1	29.1
83	436280.9	4197744.0	133.7	31.6
84	436227.9	4197741.7	132.6	32.5
85	433655.4	4197726.7	117.8	29.3
86	433756.9	4197717.4	117.8	30.8
87	433721.3	4197716.1	117.8	30.1
88	436643.7	4197710.1	131.0	31.5
89	435737.4	4197579.8	125.1	31.8
90	435250.2	4197328.4	121.5	30.8
91	431528.4	4196558.6	115.9	28.6
92	431387.4	4196552.2	114.8	31.6
93	431178.6	4196526.4	114.8	32.0
94	433558.9	4196514.8	115.0	27.8
95	433597.7	4196512.7	115.1	28.3
97	430977.0	4196436.2	114.8	30.3
98	431084.5	4196436.1	114.8	30.9
99	433540.0	4196393.6	115.1	25.7
100	431102.5	4196377.2	114.8	30.9
102	434030.0	4196296.7	115.1	33.0
103	433615.3	4196186.5	114.8	25.1
107	430429.2	4200620.8	131.5	26.2
108	430503.2	4196438.7	115.0	25.3
109	430598.1	4196440.7	115.0	23.4
110	430671.3	4196539.0	115.0	28.0

111	430703.3	4196821.4	115.0	28.0
112	433530.6	4195961.8	115.0	25.1
113	433659.2	4196068.1	115.0	24.8
114	433615.0	4196151.1	115.0	24.5
115	433568.4	4197334.9	116.4	23.1
116	433565.4	4197397.3	116.9	31.9
117	435066.8	4198506.1	127.0	28.8
118	430598.1	4196440.7	115.0	26.3
119	430503.2	4196438.7	115.0	24.9