Exhibit Q Sound Level Assessment Report Epsilon Associates, Inc.

March 3, 2021



SOUND LEVEL ASSESSMENT REPORT

Marion County Solar Project Marion County, Ohio

Prepared for:

Marion County Solar Project, LLC 422 Admiral Boulevard Kansas City, MO 64106

Prepared by:



Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250 Maynard, MA 01754

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1.0 EXECUTIVE SUMMARY

Marion County Solar Project, LLC (the Project Company) is a wholly owned subsidiary of Savion, LLC. The Marion County Solar Project (the Project) is a proposed solar power generation facility with a total capacity of approximately 100 megawatts (MW). The Project site includes approximately 970 acres of private land; however, the Project footprint will only span an area of approximately 724 acres (Project Area) in Marion Township, Marion County, Ohio. Epsilon Associates, Inc. (Epsilon) has been retained by the Project Company to conduct a pre-construction sound level assessment for this Project.

This sound level assessment has been designed based on requirements identified in the Ohio Power Siting Board's (OPSB) Certificate Applications for Electric Generation Facilities. The assessment included a sound monitoring program to determine existing background sound levels in the vicinity of the Project, computer modeling to predict cumulative worst-case future sound levels from the Project, and modeling to predict sound levels due to construction. The operational sound analysis includes a total of 22 photovoltaic (PV) central inverters, each with an individual capacity of 5,000 kW, 8 PV battery storage inverters, 32 battery containers, each with 2 HVAC units, and one transformer at the collector substation, with a capacity of 125 mega volt amps (MVA). The construction sound analysis includes three expected phases (site clearing & grading, pile driving, and crane/trucking activities).

There are no state or local noise limits applicable to the Project. Although not a requirement, predicted sound levels from the operation of the Project were compared to the OPSB sound level limit for wind power generation facilities of five (5) dBA over existing ambient levels. For this analysis, 102 receptors (residences, churches, or schools) within one half-mile of the proposed solar arrays were included in the modeling and evaluated against the five (5) dBA over ambient limit. Average daytime ambient sound levels in the project area range from 55 to 63 dBA, resulting in daytime limits of 60 to 68 dBA. Average nighttime ambient sound levels in the project area range from 47 to 57 dBA, resulting in nighttime limits of 52 to 62 dBA.

The broadband project only L_{eq} sound levels range from 18 to 43 dBA. These represent the worstcase future sound levels produced solely by PV inverters, battery storage components (inverters and HVAC units), and the transformer at the collector substation. At all modeled receptor locations, sound levels are below the nighttime wind energy limit. Therefore, even under a conservative nighttime evaluation, the Project meets the five (5) dBA sound level increase limit for wind energy projects applied as an evaluation criteria for this Project.

The closest receptor to a central inverter is ID #24 at a distance of approximately 455 feet. The existing nighttime ambient sound level at this location is 47 dBA, resulting in a limit of 52 dBA. The worst-case cumulative Project only sound level at this location is 42 dBA. The closest receptor to the proposed substation is ID #45 at a distance of approximately 822 feet. The existing nighttime ambient sound level at this location is 49 dBA, resulting in a limit of 54 dBA. The worst-case cumulative Project only sound level at this location is 42 dBA. The closest receptor to a battery storage component is ID #74 at a distance of approximately 647 feet. The existing nighttime ambient sound level at this location is 49 dBA, resulting in a limit of 54 dBA. The worst-case cumulative project only sound level at this location is 42 dBA. The closest receptor to a battery storage component is ID #74 at a distance of approximately 647 feet. The existing nighttime ambient sound level at this location is 49 dBA, resulting in a limit of 54 dBA. The worst-

case cumulative Project only sound level at this location is 43 dBA. The Project is a solar facility, and therefore worst-case sound from project equipment will only occur when generating electricity (i.e. during the daytime, when the sun may be shining).

The worst-case construction sound levels produced by the Project were predicted through modeling. These L_{eq} sound levels ranged from 60 to 90 dBA. During the majority of the time, these levels will be much lower as equipment moves further away from Project property lines. Construction will be limited to daytime hours when practical in order to mitigate sound level impacts.

2.0 INTRODUCTION

The proposed Project to be located in Marion, Ohio will consist of twenty-two (22) 5,000 kW central inverters, eight (8) battery storage inverters, thirty-two (32) battery containers, each with two (2) HVAC units, a collector substation, maintenance area, switchyard area, and solar panel arrays. The Project site includes approximately 970 acres of private land; however, the Project footprint will only span an area of approximately 724 acres (Project Area) in Marion County, Ohio. Figure 2-1 shows the locations of the proposed inverters, the solar panel arrays, operations and maintenance area, substation, battery storage area, and the project boundary over aerial imagery in Marion County.

Ground-mounted solar array PV central inverters and substation transformers produce their maximum sound levels during time periods when sunlight is shining onto the panels, when the array generates electricity. In the project area, the longest day of the year occurs on June 20st. On this day, daylight occurs between sunrise at 6:02 a.m., and sunset, at 9:07 p.m. At night, or when there is no sunlight shining on the panels, the central inverters do not produce any operational sound, although the project substation and battery storage components may still be energized.

This report presents the findings of an ambient measurement program and a sound level modeling analysis for the Project. The operational sound of the central inverters, battery storage components and the associated collector substation were modeled in Cadna/A using sound data from the inverter manufacturers and sound power level calculations. The construction activities associated with the Project were also modeled using empirical data and standard sound levels of common construction equipment. The results of this analysis are found within this report.



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Figure 2-1 Aerial Locus

3.0 SOUND TERMINOLOGY

There are several ways in which sound levels are measured and quantified. All of them use the logarithmic decibel (dB) scale. The following information defines the sound level terminology used in this analysis.

The decibel scale is logarithmic to accommodate the wide range of sound intensities found in the environment. A property of the decibel scale is that the sound pressure levels of two or more separate sounds are not directly additive. For example, if a sound of 50 dB is added to another sound of 50 dB, the total is only a 3-decibel increase (53 dB), which is equal to doubling in sound energy, but not equal to a doubling in decibel quantity (100 dB). Thus, every 3-dB change in sound level represents a doubling or halving of sound energy. The human ear does not perceive changes in the sound pressure level as equal changes in loudness. Scientific research demonstrates that the following general relationships hold between sound level and human perception for two sound levels with the same or very similar frequency characteristics¹:

- 3 dBA increase or decrease results in a change in sound that is just perceptible to the average person,
- 5 dBA increase or decrease is described as a clearly noticeable change in sound level, and
- 10 dBA increase or decrease is described as twice or half as loud.

Another mathematical property of decibels is that if one source of sound is at least 10 dB louder than another source, then the total sound level is simply the sound level of the higher-level source. For example, a sound source at 60 dB plus another sound source at 47 dB is equal to 60 dB.

A sound level meter (SLM) that is used to measure sound is a standardized instrument.² It contains "weighting networks" (e.g., A-, C-, Z-weightings) to adjust the frequency response of the instrument. Frequencies, reported in Hertz (Hz), are detailed characterizations of sounds, often addressed in musical terms as "pitch" or "tone". The most commonly used weighting network is the A-weighting because it most closely approximates how the human ear responds to sound at various frequencies. The A-weighting network is the accepted scale used for community sound level measurements; therefore, sounds are frequently reported as detected with a sound level meter using this weighting. A-weighted sound levels emphasize middle frequency sounds (i.e., middle pitched – around 1,000 Hz), and de-emphasize low and high frequency sounds. These sound levels are reported in decibels designated as "dBA". The C-weighting network has a nearly flat response for frequencies between 63 Hz and 4,000 Hz and is noted as dBC. Z-weighted sound

¹ Bies, David, and Colin Hansen. 2009. *Engineering Noise Control: Theory and Practice*, 4th Edition. New York: Taylor and Francis.

² American National Standard Specification for Sound Level Meters, ANSI S1.4-1983 (R2006), published by the Standards Secretariat of the Acoustical Society of America, Melville, NY.

levels are measured sound levels without any weighting curve and are otherwise referred to as "unweighted". Sound pressure levels for some common indoor and outdoor environments are shown in Figure 3-1.

Because the sounds in our environment vary with time they cannot simply be described with a single number. Two methods are used for describing variable sounds. These are exceedance levels and the equivalent level, both of which are derived from some number of moment-to-moment A-weighted sound level measurements. Exceedance levels are values from the cumulative amplitude distribution of all of the sound levels observed during a measurement period. Exceedance levels are designated L_n , where n can have a value between 0 and 100 in terms of percentage. Several sound level metrics that are reported in community sound monitoring are described below.

- L₁₀ is the sound level exceeded only 10 percent of the time. It is close to the maximum level observed during the measurement period. The L₁₀ is sometimes called the intrusive sound level because it is caused by occasional louder sounds like those from passing motor vehicles.
- L₅₀ is the sound level exceeded 50 percent of the time. It is the median level observed during the measurement period. The L₅₀ is affected by occasional louder sounds like those from passing motor vehicles; however, it is often found comparable to the equivalent sound level under relatively steady sound level conditions.
- L₉₀ is the sound level exceeded 90 percent of the time during the measurement period. The L₉₀ is close to the lowest sound level observed. It is essentially the same as the residual sound level, which is the sound level observed when there are no obvious nearby intermittent sound sources.
- L_{eq}, the equivalent level, is the level of a hypothetical steady sound that would have the same energy (*i.e.*, the same time-averaged mean square sound pressure) as the actual fluctuating sound observed. The equivalent level is designated L_{eq} and is typically A-weighted. The equivalent level represents the time average of the fluctuating sound pressure, but because sound is represented on a logarithmic scale and the averaging is done with linear mean square sound pressure values, the L_{eq} is mostly determined by loud sounds if there are fluctuating sound levels.





4.0 NOISE REGULATIONS

4.1 Federal Regulations

There are no federal community noise regulations applicable to this project.

4.2 Ohio State Regulations

There are no state noise limits applicable to this solar project. However, the Project is seeking a certificate from the OPSB which requires a noise study as described in *Chapter 4906-4-08 Health and safety, land use and ecological information* of the Ohio Administrative Code, which states:

(Section A, Part 3) Noise. The applicant shall provide information on noise from the construction and operation of the facility.

- (a) Describe the construction noise levels expected at the nearest property boundary. The description shall address:
 - (i) Blasting activities.
 - (ii) Operation of earth moving equipment.
 - (iii) Driving of piles, rock breaking or hammering, and horizontal directional drilling.
 - (iv) Erection of structures.
 - (v) Truck traffic.
 - (vi) Installation of equipment.
- **(b)** Describe the operational noise levels expected at the nearest property boundary. The description shall address:
 - (i) Operational noise from generation equipment.
 - (ii) Processing equipment.
 - (iii) Associated road traffic.
- (c) Indicate the location of any noise-sensitive areas within one mile of the facility, and the operational noise level at each habitable residence, school, church, and other noise-sensitive receptors, under both day and nighttime operations. Sensitive receptor, for the purposes of this rule, refers to any occupied building.
- (d) Describe equipment and procedures to mitigate the effects of noise emissions from the proposed facility during construction and operation, including limits on the time of day at which construction activities may occur.
- (e) Submit a preconstruction background noise study of the project area that includes measurements taken under both day and nighttime conditions.

Although there are no noise limits applicable to this solar project, wind energy projects in the state of Ohio are required to comply with Chapter 4906-4-09 of the Ohio Administrative Code, which states:

(Section F, Part 2). The facility shall be operated so that the facility noise contribution does not result in noise levels at any non-participating sensitive receptor within one mile of the project boundary that exceed the project area ambient nighttime average sound level (Leq) by five A-weighted decibels (dBA). During daytime operation only (seven a.m. to ten p.m.), the facility may operate at the greater of: the project area ambient nighttime Leq plus five dBA; or the validly measured ambient L_{eq} plus five dBA at the location of the sensitive receptor.

4.3 Marion County Regulations

There are no quantitative county noise regulations applicable to this solar project.

4.4 Evaluation Criteria

Although not required, the sound levels from the operation of project equipment were evaluated against the five (5) dBA increase over ambient sound levels limit for wind energy facilities at noise-sensitive receptors in the vicinity of the solar arrays.

5.0 EXISTING SOUND LEVELS

5.1 Overview

The Project is located in the central portion of Marion County, Ohio, in Marion Township. The solar arrays will be constructed to the north of Marion Williamsport Road and to the west of Marion-Upper Sandusky Road. To the west of the Project is the POET biorefining facility. Around the remainder of the project boundary, there are homes and farmland.

5.2 Sound Level Environment

An ambient sound level survey was conducted to characterize the current acoustical environment in the community surrounding and within the Project Area. Existing sound sources include vegetation rustle, birds, insects, traffic along local roads, occasional aircraft, wind, industrial noise from the POET biorefining facility, and the general soundscape associated with agriculture and farming.

5.3 Sound Level Measurement Locations

Five sound level measurement locations were selected based on the Project layout and permission from the landowner. Location 1 was chosen as a monitoring location due to the proximity of the solar arrays and inverters along the northern portion of the Project area. Location 2 was chosen due to the proximity of the solar arrays and inverters along the east of the Project. Location 3 was chosen due to the proximity of the proposed solar arrays, inverters, proposed substation area, and battery storage area in the eastern portion along the eastern edge of the Project area. Locations 4 and 5 were chosen due to the proximity of the solar arrays and inverters along the southern portion of the project. All five of these locations (Location 1 through Location 5), are shown over aerial imagery of the Project area in Figure 5-1.

5.3.1 Monitoring Locations

The selection of the sound monitoring locations was intended to be representative of the nearby surrounding receptors outside of the Project boundary. Each measurement location is described below. The coordinates for the five sound monitoring locations were obtained by Epsilon staff using satellite imagery and are presented in UTM NAD83 Zone 17T in Table 5-1. Photographs of the five locations are included in Figures 5-2 through 5-6, respectively.

Location 1

This location was in a field to the west of Marion-Upper Sandusky Road, at the northern edge of the Project boundary. It is representative of receptors to the north of the Project.

• Location 2

This location was in a field to the west of Marion-Upper Sandusky Road, at the northeast edge of the Project boundary. It is representative of receptors in the northeast portion of the Project.



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Figure 5-1 Sound Monitoring Locations ♦ Location 3

This location was in a field to the west of Marion-Upper Sandusky Road. This location is representative of receptors in the eastern portion of the Project.

Location 4

This location was in a field to the north of Marion Williamsport Road. This location is representative of residential receptors in the southeast area of the Project.

Location 5

This location was in a field to the north of Marion Williamsport Road. This location is representative of residential receptors in the southwest area of the Project.

Figure 5-2 Photo of Sound Level Measurement Location 1



Figure 5-3 Photo of Sound Level Measurement Location 2



Figure 5-4 Photo of Sound Level Measurement Location 3



Figure 5-5 Photo of Sound Level Measurement Location 4

Figure 5-6 Photo of Sound Level Measurement Location 5



Table 5-1 GPS Coordinates – Sound Level Measurement Locations

Location	Coordinates UTM NAD83 Zone 17T			
	East	North		
1	318689	4500652		
2	318880	4500133		
3	319383	4499293		
4	318869	4498246		
5	318111	4498256		

5.4 Sound Measurement Methodology

Ambient sound measurements were made at a total of five locations. A continuous programmable unattended sound level meter was placed at each location for approximately one week from October 19, 2020 to October 27, 2020. Each sound level meter collected data continuously and logged data every ten minutes.

Sound levels were measured at a height of approximately five feet above the ground at all locations where there were no large reflective surfaces to affect the measured levels. In addition to the collection of sound level data, ground-level wind speeds were continuously measured and logged at two locations (Locations 2 and 4) throughout the entire monitoring period.

5.5 Measurement Equipment

5.5.1 Sound Level Equipment

Three Larson Davis (LD) model 831 sound level meters, equipped with a PCB Piezotronics Type 1 preamplifier, a PCB 377B20 or 377C20 half-inch microphone, and an environmental protection kit was used to collect continuous broadband and octave-band sound pressure level data at Locations 1, 2 and 3. Location 4 and Location 5 each used a Norsonic model NOR 140 sound level meter equipped with a Norsonic Nor1209 preamplifier and a G.R.A.S. 40AN half-inch microphone along with an environmental protection kit. The microphones were tripod-mounted at a height of five feet above the ground with 7-inch diameter windscreens. The meters logged data every 10-minutes, along with a one-second time history for the following A-weighted parameters: L_{10} , L_{50} , L_{90} , L_{max} , L_{min} , and L_{eq} .

All meters meet Type 1 ANSI S1.4-1983 (R2006) standards for sound level meters and were calibrated and certified as accurate to standards set by the National Institute of Standards and Technology. These calibrations were conducted by an independent laboratory within the prior 12 months of the measurement program. Additionally, all sound level measurement equipment was calibrated in the field before and after the surveys with the manufacturer's acoustical calibrator which meets the standards of IEC 942 Class 1L and ANSI/ASA S1.40-2006 (R2016).

5.5.2 Meteorological Equipment

Wind speed can have a strong influence on ambient sound levels. To understand how the existing sound levels are influenced by wind speed, continuous wind speed data was recorded at Location 2 and Location 4. A HOBO H21-002 micro-weather station (manufactured by Onset Computer Corporation) was used to continuously measure the wind speed. Each wind sensor was mounted at a height of approximately six feet above ground level and data was logged every 10-minutes to be synced with the sound level measurements. This sensor has a measurement range of 0 to 45 m/s (100 mph) and an accuracy of ± 1.1 m/s (2.4 mph). The starting threshold is ≤ 1.0 m/s (2.2 mph).

5.6 Measured Ambient Sound Levels

Data from each location were processed post measurement program. Measurement periods where the ground level wind (monitored at Locations 2 and 4) was greater than 5 meters per second (m/s) or in which there was precipitation were considered invalid and were not included in the calculations. Publicly available meteorological data from the Marion Municipal Airport in Marion, OH were used to determine when periods with precipitation occurred. Data from this weather station is provided in Table C1 of Appendix C. Data was further divided by daytime and nighttime hours. Daytime hours were considered to be from 7 am to 10 pm. Table 5-2 presents the average L_{eq} for each valid period, as well as the valid daytime and nighttime periods are also presented. Graphs showing measured and valid L_{eq} values as well as wind speed and precipitation for each location are at each location are presented in Appendix A.

Location	Leq (dBA)	Leq (dBA, Daytime Only)	Leq (dBA, Nighttime Only)	Total Measurement Periods	Total Valid Measurement Periods
1	54	55	50	1126	785
2	52	55	47	1128	787
3	54	57	49	1128	787
4	57	59	53	1119	775
5	61	63	57	1119	775

Table 5-2 Averaged Ambient Sound Levels

5.7 Assignment of Ambient Sound Levels to Modeling Locations

Measured ambient data were assigned to each modeling receptor based on proximity between the measurement points and the modeling receptor. The modeling receptors were not visited during the measurement program to confirm similarities between the soundscapes observed at monitoring locations and each modeling receptor. Appendix B presents the sound modeling receptors with their assigned ambient measurement location.

6.0 OPERATIONAL SOUND LEVELS

6.1 Sound Sources

The operational acoustic modeling conservatively assumed cumulative impacts from a total of twenty-two (22) central inverters, eight (8) battery storage inverters, thirty-two (32) battery containers, each with 2 HVAC units for a total of sixty-four (64) units and a collector substation. There are no sound producing components planned at the operations and maintenance area or the switchyard area. The sound levels produced by the central inverters, battery storage components, and substation used for acoustic modeling are described below.

6.1.1 Central Inverters

The operational sound level analysis for the Project conservatively includes all central inverters (22) operating at full load. For this analysis, all 22 of the units are assumed to have an individual capacity of 5,000 kW. The central inverters will be approximately ten feet in height. Epsilon received information from the Project Company indicating each central inverter produces a maximum sound level of 75 dBA at a distance of 1 meter (3.3 feet). This sound pressure level data was converted to a sound power level and entered into the acoustic model. The resulting broadband sound power level of the inverter unit used for acoustic modeling was 94 dBA. The octave band sound spectra were based on sound level data from a similar inverter. Table 6-1 below summarizes the sound power level data used for all central inverters in the modeling.

Sound Power Levels per Octave-Band Center Frequency [Hz]										
Maximum	Broadband	31.5	63	125	250	500	1k	2k	4k	8k
Rating	dBA	dB	dB	dB	dB	dB	dB	dB	dB	dB
5,000 kW	94	88	102	93	91	91	89	88	83	81

Table 6-1Modeled Central Inverter Sound Power Levels

6.1.2 Collector Substation Transformer

In addition to the central inverters, there will be a collector substation associated with the Project in Marion County. The proposed substation will be located west of Marion-Upper Sandusky Road as shown in Figure 6-1. One 125 megavolt-ampere (MVA) transformer will be located at the substation. Epsilon has estimated the broadband and octave-band sound power levels using the MVA rating provided and techniques in the Electric Power Plant Environmental Noise Guide³ (Edison Electric Institute), Table 4.5 Sound Power Levels of Transformers. Table 6-2 below summarizes the sound power level data used for the transformer in the modeling.

³ Bolt Beranek and Newman Inc. (1984). *Electric Power Plant Environmental Noise Guide* (2nd ed.). Edison Electric Institute.

Sound Power Levels per Octave-Band Center Frequency [Hz]										
Maximum	Broadband	31.5	63	125	250	500	1k	2k	4k	8k
Rating	dBA	dB	dB	dB	dB	dB	dB	dB	dB	dB
125 MVA	100	96	102	104	99	99	93	88	83	76

Table 6-2 Modeled Substation Transformer Sound Power Levels

6.1.3 Battery Storage Inverters

There will be 8 battery storage inverters associated with the Project in Marion County. The proposed battery storage area will be located west of Marion-Upper Sandusky Road as shown in Figure 6-1. A technical report from Power Electronics was provided to Epsilon which documented the broadband and octave band sound pressure levels associated with the battery storage inverter⁴. The sound pressure level data presented in this document was converted to a sound power level and entered into the acoustic model. The resulting broadband sound power level of the inverter unit used for acoustic modeling was 87 dBA. Table 6-3 below summarizes the sound power level data used for all battery storage inverters in the modeling.

Table 6-3 Battery Storage Inverter Sound Power Levels

Sound Power Levels per Octave-Band Center Frequency [Hz]										
Broadband	31.5	63	125	250	500	1k	2k	4k	8k	
dBA	dB	dB	dB	dB	dB	dB	dB	dB	dB	
87	43	61	65	74	79	82	82	72	70	

6.1.4 Battery Storage HVAC units

In addition to the battery storage inverters, there will be thirty-two (32) battery storage containers, each with two HVAC units, for a total of sixty-four (64) units. Sound levels of the HVAC units are based on a ducted Bard W72AA unit with low noise blower. Table 6-2 below summarizes the sound power level data used for all HVAC units in the modeling.

 Table 6-4
 Modeled Battery Storage HVAC unit Sound Power Levels

Sound Power Levels per Octave-Band Center Frequency [Hz]										
Broadband	31.5	63	125	250	500	1k	2k	4k	8k	
dBA	dB	dB	dB	dB	dB	dB	dB	dB	dB	
78	73	73	72	70	75	73	71	68	65	

⁴ Power Electronics Technical Report. Sound Pressure Level In Freesun PCSK/HEMK Inverters, April 2019.

6.2 Modeling Methodology

The sound impacts associated with the proposed inverters and substation were predicted using the Cadna/A sound level calculation software developed by DataKustik GmbH. This software uses the ISO 9613-2 international standard for sound propagation (Acoustics - Attenuation of sound during propagation outdoors - Part 2: General method of calculation). The benefits of this software are a more refined set of computations due to the inclusion of topography, ground attenuation, multiple building reflections (if applicable), drop-off with distance, and atmospheric absorption. The Cadna/A software allows for octave band calculation of sound from multiple sources as well as computation of diffraction.

Inputs and significant parameters employed in the model are described below:

- Project Layout: A Project layout was provided by Savion on December 21, 2020, and additional details of the battery storage area layout was provided on January 21, 2021. The twenty-two (22) proposed central inverters, eight (8) proposed battery storage inverters and sixty-four (64) battery container HVAC units were input into the model along with the transformer located at the collector substation. The proposed inverters, solar panel array, substation, operations and maintenance area, laydown area, and project boundary are identified in Figure 6-1.
- Modeling Receptor Locations: A dataset containing 102 receptors within one-half mile of the solar array was provided by Savion on January 4, 2021. These receptors represent the closest structures to the project site. These modeling receptors were modeled as discrete points at a height of 1.5 meters above ground level to mimic the ears of a typical standing person. All modeling receptors are identified in Figure 6-1 and are labeled with their modeling ID number.
- Terrain Elevation: Elevation contours for the modeling domain were directly imported into Cadna/A which allowed for consideration of terrain shielding where appropriate. The terrain height contour elevations for the modeling domain were generated from elevation information derived from the National Elevation Dataset (NED) developed by the U.S. Geological Survey.
- Source Sound Levels: Sound power levels used in the modeling were described in Section 6.1.
- *Meteorological Conditions:* A temperature of 10°C (50°F) and a relative humidity of 70% was assumed in the model.
- *Ground Attenuation:* Spectral ground absorption was calculated using a G-factor of 0.5 which corresponds to "mixed ground" consisting of both hard and porous ground cover. This method yields more conservative results (i.e., higher sound levels) as the vast majority of the area is agricultural.



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Figure 6-1 Sound Modeling Receptors Several modeling assumptions inherent in the ISO 9613-2 calculation methodology, or selected as conditional inputs by Epsilon, were implemented in the Cadna/A model to ensure conservative results (i.e., higher sound levels), and are described below:

- All modeled sources were assumed to be operating simultaneously at their maximum load corresponding to the greatest sound level impacts
- As per ISO 9613-2, the model assumed favorable conditions for sound propagation, corresponding to a moderate, well-developed ground-based temperature inversion, as might occur on a calm, clear night or equivalently downwind propagation.
- Meteorological conditions assumed in the model (T=10°C/RH=70%) were selected to minimize atmospheric attenuation in the 500 Hz and 1 kHz octave bands where the human ear is most sensitive.
- No additional attenuation due to tree shielding, air turbulence, or wind shadow effects was considered in the model.

6.3 Sound Level Modeling Results

All modeled sound levels, as output from Cadna/A are A-weighted equivalent sound levels (L_{eq} , dBA). Table B-1 in Appendix B shows the predicted Project Only broadband (dBA) sound levels at the 102 receptors. These broadband L_{eq} sound levels range from 18 to 43 dBA and represent the worst-case future L_{eq} sound levels produced solely by central inverters, battery storage components and substation associated with the Project.

The closest receptor to a central inverter is ID #24 at a distance of approximately 455 feet. The existing nighttime ambient sound level at this location is 47 dBA, resulting in a limit of 52 dBA. The worst-case cumulative Project only sound level at this location is 42 dBA. The closest receptor to the proposed substation is ID #45 at a distance of approximately 822 feet. The existing nighttime ambient sound level at this location is 49 dBA, resulting in a limit of 54 dBA. The worst-case cumulative Project only sound level at this location is 42 dBA. The closest receptor to a battery storage component is ID #74 at a distance of approximately 647 feet. The existing nighttime ambient sound level at this location is 49 dBA, resulting in a limit of 54 dBA. The worst-case cumulative Project only sound level at this location is 43 dBA. In addition to these discrete modeling points, sound level isolines generated from the modeling grid are presented in Figure 6-2.



Marion County Solar Marion County, Ohio

Figure 6-2 Operational Sound Level Modeling Results

7.0 EVALUATION OF OPERATIONAL SOUND LEVELS

Although not required, sound levels from the operation of the Marion County Solar Project equipment were compared to the OPSB 5-dBA increase over existing ambient limit for wind energy facilities.

For operational sound from the Project, the worst case sound level increases at receptors have been conservatively evaluated against the existing nighttime sound levels. The existing background sound levels for each receptor were determined as described in Section 5.0. The facility will only produce maximum sound levels during the daytime when the sun may be shining, and therefore evaluating sound levels against a nighttime limit is conservative.

7.1 Sound Level Modeling Results Compared to Existing Ambient Levels

The predicted Project Only broadband (dBA) sound levels at the 102 sound modeling receptors were conservatively compared to the existing nighttime measured ambient sound levels. At all modeling receptors, the Project sound levels are below the 5 dBA increase over ambient limit for wind energy facilities.

At modeling receptors near monitoring location 1, the receptor with the highest modeled sound level was ID #9 at 38 dBA. The existing average nighttime ambient sound level at this location is 50 dBA, resulting in a limit of 55 dBA. At modeling receptors near monitoring location 2, the receptor with the highest modeled sound level was ID #24 at 42 dBA. The existing average nighttime ambient sound level at this location is 47 dBA, resulting in a limit of 52 dBA. At modeling receptors near monitoring location 3, the receptor with the highest modeled sound level was ID #74 at 43 dBA. The existing average nighttime ambient sound level was ID #74 at 43 dBA. The existing average nighttime ambient sound level at this location is 49 dBA, resulting in a limit of 54 dBA. At modeling receptors near monitoring location 4, the receptor with the highest modeled sound level was ID #75 at 36 dBA. The existing average nighttime ambient sound level at this location is 53 dBA, resulting in a limit of 58 dBA. At modeling receptors near monitoring location 5, the receptor with the highest modeled sound level was ID #75 at 32 dBA. The existing average nighttime ambient sound level was ID #55 at 32 dBA. The existing average nighttime ambient sound level was ID #55 at 32 dBA.

In summary, the modeled sound levels are all below the wind energy limit. Therefore, even under a conservative nighttime evaluation, the Project meets the five (5) dBA sound level increase limit for wind energy projects applied as an evaluation criteria for this Project. A summary of the existing measured nighttime sound levels, predicted Project Only sound levels, and resulting sound level limits at each location is presented in Appendix B.

7.2 Noise Mitigation

The maximum predicted sound levels resulting from the operation of the Marion County Solar Project equipment at all nearby receptors is below the most restrictive existing sound level increase limits applicable to other energy projects. The Project will only produce maximum sound levels during daytime hours when background sound levels are at their highest, therefore, additional mitigation options were not examined for this Project.

8.0 CONSTRUCTION SOUND LEVELS

8.1 Construction Activities

Based on Epsilon's experience, construction activities related to the installation of the solar array and inverters will generally consist of three principal phases, including:

- Site clearing and grading
- Pile driving, and
- Erection (solar panel array installation)

It is assumed that the primary noise-producing equipment for the first phase of construction includes a backhoe, bulldozer, and dump truck. The primary equipment for the second phase is an impact pile driver. During the third phase, construction equipment will include operation of a crane and a flatbed truck. Construction of the Project is expected to last approximately 9 months.

8.2 Modeling Methodology

The sound impacts associated with construction of the Project were predicted using the Roadway Construction Noise Model⁵ (RCNM) sound level calculation software developed by the Federal Highway Administration (FHWA). This software predicts noise from construction operations based on a compilation of empirical data and the application of acoustical propagation formulas.

For each phase of construction, sound levels produced by the equipment group associated with that phase were predicted assuming the equipment was located at the closest solar array to a property line and the closest modeling receptor. Therefore, the distances evaluated for construction noise impacts are: 1) 80 feet and 2) 266 feet.

At times when construction activity is occurring further away from property boundaries and receptors, sound levels will be less than those predicted in this analysis.

8.3 Sound Level Modeling Results

All modeled sound levels, as output from RCNM are presented as both A-weighted equivalent sound levels (L_{eq} , dBA) and A-weighted maximum sound levels (L_{max} , dBA).

Tables 8-1 through 8-3 below show the predicted sound levels at the two receptors for each phase of construction. The broadband L_{eq} sound levels range from 60 to 90 dBA. The broadband L_{max} sound levels range from 66 to 97 dBA and represent the worst-case sound levels produced during construction activity associated with the project.

⁵ Federal Highway Administration's Roadway Construction Noise Model (RCNM) Software Version 1.1, 12/08/2008. US Department of Transportation Research and Innovative Technology Administration.

Table 8-1 Sound Level During Phase 1 (Site Grading)

Receptor	Distance from Activity to Receptor	L _{max} (dBA)	L _{eq} (dBA)
Closest Property Line	80 ft	78	76
Closest Modeling Receptor	266 ft	67	65

Table 8-2 Sound Level During Phase 2 (Pile Driving)

Receptor	Distance from Activity to Receptor	L _{max} (dBA)	L _{eq} (dBA)
Closest Property Line	80 ft	97	90
Closest Modeling Receptor	266 ft	87	80

Table 8-3Sound Level During Phase 3 (Panel Erection)

Receptor	Distance from Activity to Receptor	L _{max} (dBA)	L _{eq} (dBA)
Closest Property Line	80 ft	77	71
Closest Modeling Receptor	266 ft	66	60

9.0 CONCLUSIONS

A comprehensive sound level modeling assessment was conducted for the Marion County Solar Project in Marion County, Ohio. In addition, ambient sound levels were measured at five locations to characterize the existing ambient sound levels within the area.

Although there are no sound level limits applicable to the Project, the highest predicted worstcase Project Only operational sound levels at a modeling receptor were compared to the most restrictive OPSB wind turbine facility sound limits of 5 dBA over existing nighttime ambient sound levels. At all modeling receptors, sound levels due to the operation of the Project are predicted to be below these limits.

Appendix A

Ambient Sound Level Monitoring Data

Appendix B

Sound Level Modeling Results at Receptors

	Coordinates			Nighttime Average	OPSB Wind Turbine	Project Only
Receptor ID	UTM NAD	83 Zone 17	Assigned	Ambient L _{eq} Sound	Sound Level Limit	Broadband L _{eq} Sound
	X	Ŷ	Monitoring Location	Level	(dBA)	Level
	(m)	(m)		(UDA)	50	(UBA)
1	319512.49	4497410.72	ML-4	53	58	26
2	316256.01	4500974.19	ML-1	50	55	21
3	319471.11	4498838.29	ML-3	49	54	39
4	318830.44	4500477.27	ML-1	50	55	36
5	319467.04	4498782.50	ML-3	49	54	38
6	319688.54	4497915.51	ML-4	53	58	29
7	318760.23	4500926.75	ML-1	50	55	32
8	319192.58	4498219.29	IVIL-4	53	58	34
9	318/5/.3/	4500405.80	ML-1	50	55	38
10	319620.03	4499569.53	ML-3	49	54	38
11	319667.86	4499576.81	ML-3	49	54	37
12	319507.08	4498824.42	ML-3	49	54	38
13	319333.84	4498870.39	ML-3	49	54	42
14	319850.23	4497912.79	ML-4	53	58	28
15	316332.55	4500309.50	ML-1	50	55	25
16	318/8/./3	4498173.28	ML-4	53	58	35
17	319330.60	4498220.99	ML-4	53	58	33
18	319324.84	4497438.13	ML-4	53	58	27
19	318//9.89	4500625.01	ML-1	50	55	36
20	319327.82	4498709.79	IVIL-3	49	54	39
21	318/95.43	4499703.87	IVIL-2	47	52	41
22	320091.18	4498118.81	IVIL-4	53	58	28
23	316563.44	4499178.47	IVIL-5	57	62	27
24	318693.96	4500263.13	ML-2	47	52	42
25	319503.25	4498907.52	IVIL-3	49	54	40
26	319/19.50	4498507.78	IVIL-3	49	54	33
27	319720.94	4498521.88	IVIL-3	49	54	33
28	316349.85	4499328.96	IVIL-5	57	62	25
29	319383.48	4498209.60	IVIL-4	53	58	33
30	319550.61	4498785.05	IVIL-3	49	54	38
31	319595.01	4498835.96	IVIL-3	49	54	38
32	319350.71	4498822.37	IVIL-3	49	54	40
33	319445.74	4498912.18	IVIL-5	49	54	41
25	310320.40	4500756.46	IVIL-1	30	55	30
35	210717 22	4496749.25	IVIL-5	49	54	39
27	210944 20	4496500.90	IVIL-3	49	54 E4	26
20	210717 01	4499551.00	ML-4	43 52	54 50	20
20	216292 50	4497834.48	ML-1	53	55	19
39	210265.30	4500908.94	IVIL-1	50	55	10
40	210/22 21	1/107/10 00		50	<u>ک</u> و دو	27
41	319433.21	4437412.23	MI _1	50	<u>ک</u> و در	27
42	318852 75	4500707.05	MI_1	50	55	35
45	310286 20	1/00507 61	NIL-1	<u> </u>	55	37
45	319338.20	4492910 26	MI -3	<u>49</u>	54	40
46	319419 29	4498785 07	MI-3	49 49	54	
47	319578 72	4498867 18	MI -3	<u>49</u>	54	28
48	316294 46	4500840 16	MI -1	50	55	18

Table B-1: Sound Level Modeling Results at Discrete Points- Sorted by Receptor ID

	Coordinates			Nighttime Average	OPSB Wind Turbing	Project Only
Receptor ID	UTM NAD	83 Zone 17	Assigned	Ambient L _{eq} Sound	Sound Level Limit	Broadband L _{eq} Sound
neceptor ib	х	Y	Monitoring Location	Level	(dBA)	Level
	(m)	(m)		(dBA)	. ,	(dBA)
49	316307.47	4499353.40	ML-5	57	62	22
50	319842.96	4499580.29	ML-3	49	54	35
51	319530.05	4499582.76	ML-3	49	54	39
52	319511.95	4498994.47	ML-3	49	54	41
53	318811.69	4500529.22	ML-1	50	55	36
54	319554.36	4498864.55	ML-3	49	54	38
55	317627.88	4498428.97	ML-5	57	62	32
56	319728.74	4499139.79	ML-3	49	54	38
57	316277.32	4500646.48	ML-1	50	55	24
58	316288.84	4500723.77	ML-1	50	55	24
59	316296.21	4501026.55	ML-1	50	55	23
60	319269.21	4499573.77	ML-3	49	54	42
61	319719.68	4498463.87	ML-4	53	58	33
62	319388.74	4498865.73	ML-3	49	54	41
63	318605.96	4500865.17	ML-1	50	55	34
64	319462.52	4497408.48	ML-4	53	58	26
65	319873.58	4499667.13	ML-3	49	54	34
66	319325.93	4498793.89	ML-3	49	54	40
67	319515.30	4498864.94	ML-3	49	54	39
68	316178.07	4501009.47	ML-1	50	55	22
69	319382.42	4498716.76	ML-3	49	54	38
70	319417.63	4498753.34	ML-3	49	54	38
71	316292.18	4500783.23	ML-1	50	55	18
72	318792.03	4500576.88	ML-1	50	55	36
73	319106.07	4499712.47	ML-2	47	52	41
74	319505.57	4499152.00	ML-3	49	54	43
75	318710.59	4498192.93	ML-4	53	58	36
76	315886.84	4499653.83	ML-5	57	62	21
77	319717.98	4498492.96	ML-3	49	54	33
78	319615.47	4498777.36	ML-3	49	54	37
79	319971.07	4498899.01	ML-3	49	54	33
80	319483.62	4499587.97	ML-3	49	54	39
81	319541.57	4499124.22	ML-3	49	54	42
82	319392.21	4498756.30	ML-3	49	54	39
83	319717.12	4498478.65	ML-4	53	58	33
84	319357.00	4498778.30	ML-3	49	54	39
85	319361.96	4498869.32	ML-3	49	54	41
86	319713.97	4497893.66	ML-4	53	58	29
87	319381.63	4497414.60	ML-4	53	58	27
88	319354.39	4498711.82	ML-3	49	54	38
89	319353.08	4498747.92	ML-3	49	54	39
90	319439.65	4499587.25	ML-3	49	54	39
91	316885.20	4501016.43	ML-1	50	55	26
92	317643.78	4498275.08	ML-5	57	62	31
93	318714.92	4500802.81	ML-1	50	55	34
94	319572.11	4499582.52	ML-3	49	54	38
95	319401.05	4498912.94	ML-3	49	54	41
96	319724.54	4499037.71	ML-3	49	54	37

Table B-1: Sound Level Modeling Results at Discrete Points- Sorted by Receptor ID

Receptor ID	Coordinates UTM NAD83 Zone 17		Assigned	Nighttime Average Ambient L _{eq} Sound	OPSB Wind Turbine	Project Only Broadband L _{eq} Sound
Receptor ib	X (m)	Y (m)	Monitoring Location	Level (dBA)	Level (dBA)	
97	319412.11	4498713.57	ML-3	49	54	38
98	319437.31	4498221.40	ML-4	53	58	33
99	319295.39	4497414.54	ML-4	53	58	27
100	316716.28	4499095.63	ML-5	57	62	23
101	319462.81	4498712.42	ML-3	49	54	37
102	319741.01	4499564.21	ML-3	49	54	36

Table B-1: Sound Level Modeling Results at Discrete Points- Sorted by Receptor ID

Appendix C

Meteorological Data (KMZZ)

Table C1

Station:	KMZZ
Station Name:	Marion Municipal Airport
Latitude:	40.49 N
Longitude	85.68 W
Elevation (ft):	859
State:	ОН

	Hourly Dew Point	Hourly Dry Bulb	Hourly	Hourly		Hourly
Date & Time	Temperature	Temperature	Precipitation	Relative	Hourly Sky Conditions	Station
				Humidity		Pressure
2020-10-19T00:53:00	48	50	0.02	93	FEW:02 60 OVC:08 85	29.13
2020-10-19T01:26:00	48	50	0.03	93	FEW:02 7 BKN:07 14 OVC:08 70	29.15
2020-10-19T01:51:00	46	48		94	BKN:07 8 BKN:07 15 OVC:08 60	29.13
2020-10-19T01:53:00	47	49	0.05	93	FEW:02 5 BKN:07 8 OVC:08 60	29.13
2020-10-19T02:50:00	46	50	0.02	88	OVC:08 10	29.13
2020-10-19T02:53:00	47	49	0.03	93	OVC:08 10	29.13
2020-10-19T03:10:00	47	49	0.02	93	SCT:04 11 OVC:08 49	29.13
2020-10-19T03:37:00	47	49		93	SCT:04 5 OVC:08 49	29.13
2020-10-19T03:45:00	47	49		93	BKN:07 5 OVC:08 49	29.13
2020-10-19T03:53:00	47	49	0.09	93	BKN:07 5 BKN:07 10 OVC:08 47	29.13
2020-10-19T04:21:00	47	49		93	SCT:04 5 BKN:07 10 OVC:08 55	29.13
2020-10-19T04:36:00	47	49		93	BKN:07 5 BKN:07 19 OVC:08 55	29.13
2020-10-19T04:53:00	46	48	0.06	93	OVC:08 5	29.13
2020-10-19T05:53:00	46	48	0.09	93	OVC:08 5	29.15
2020-10-19T06:46:00	46	48	0.1	93	SCT:04 5 SCT:04 50 OVC:08 80	29.11
2020-10-19T06:53:00	46	48	0.1	93	FEW:02 5 FEW:02 46 OVC:08 80	29.11
2020-10-19T07:17:00	47	49	0.01	93	BKN:07 6 BKN:07 20 OVC:08 75	29.13
2020-10-19T07:53:00	46	48	0.02	93	OVC:08 6	29.15
2020-10-19T08:02:00	46	48	0.01	93	OVC:08 5	29.15
2020-10-19T08:11:00	46	48	0.02	93	OVC:08 5	29.13
2020-10-19T08:27:00	46	48	0.02	93	OVC:08 5	29.15
2020-10-19T08:44:00	46	48	0.04	93	OVC:08 4	29.15
2020-10-19T08:51:00	46	48		94	BKN:07 4 OVC:08 8	29.13
2020-10-19T08:53:00	46	48	0.04	93	BKN:07 4 OVC:08 8	29.13
2020-10-19T09:05:00	46	48	Т	93	BKN:07 4 OVC:08 8	29.15
2020-10-19T09:22:00	46	48	0.01	93	OVC:08 5	29.13
2020-10-19T09:53:00	46	49	0.01	90	OVC:08 5	29.13
2020-10-19T10:03:00	46	49		90	OVC:08 6	29.13
2020-10-19T10:20:00	46	49		90	OVC:08 5	29.13
2020-10-19T10:27:00	46	49		90	OVC:08 5	29.13
2020-10-19T10:40:00	46	49		90	OVC:08 5	29.13
2020-10-19T10:53:00	47	49	0.01	93	OVC:08 5	29.13
2020-10-19T11:06:00	47	49	0.01	93	OVC:08 5	29.12
2020-10-19T11:20:00	47	49	0.02	93	OVC:08 5	29.12
2020-10-19T11:28:00	47	49	0.02	93	OVC:08 5	29.12
2020-10-19T11:38:00	47	49	0.02	93	OVC:08 5	29.12
2020-10-19T11:53:00	47	49	0.02	93	BKN:07 5 OVC:08 9	29.12
2020-10-19T12:53:00	48	50	Т	93	OVC:08 5	29.11
2020-10-19T13:11:00	48	50		93	BKN:07 7 OVC:08 17	29.1
2020-10-19T13:28:00	48	50		93	SCT:04 7 OVC:08 15	29.08
2020-10-19T13:37:00	49	50		96	BKN:07 6 OVC:08 15	29.08

2020-10-19T13:49:00	48	52		88	BKN:07 6 OVC:08 15	29.07
2020-10-19T13:53:00	49	51	0	92	BKN:07 6 OVC:08 15	29.07
2020-10-19T14:04:00	49	51		92	BKN:07 6 OVC:08 14	29.07
2020-10-19T14:40:00	49	51		92	OVC:08 6	29.06
2020-10-19T14:51:00	48	52		88	OVC:08 5	29.07
2020-10-19T14:53:00	49	51	0	92	OVC:08 5	29.07
2020-10-19T15:08:00	49	51		92	OVC:08 5	29.07
2020-10-19T15:31:00	49	51		92	BKN:07 5 OVC:08 10	29.07
2020-10-19T15:42:00	49	51		92	BKN:07 5 OVC:08 10	29.06
2020-10-19T15:51:00	48	52		88	BKN:07 5 OVC:08 11	29.07
2020-10-19T15:53:00	49	51	0	92	BKN:07 5 OVC:08 11	29.07
2020-10-19T16:03:00	49	51		92	BKN:07 6 OVC:08 11	29.07
2020-10-19T16:15:00	50	51		96	OVC:08 4	29.07
2020-10-19T16:51:00	48	52		88	BKN:07 4 OVC:08 10	29.06
2020-10-19T16:53:00	49	51	0	92	BKN:07 4 OVC:08 10	29.06
2020-10-19T17:01:00	49	51		92	SCT:04 4 OVC:08 10	29.06
2020-10-19T17:09:00	49	51		92	FEW:02 5 OVC:08 8	29.06
2020-10-19T17:38:00	50	51		96	OVC:08 7	29.06
2020-10-19T17:50:00	50	52		94	BKN:07 4 OVC:08 9	29.06
2020-10-19T17:53:00	50	51	0	96	BKN:07 4 OVC:08 9	29.06
2020-10-19T18:05:00	50	51		96	OVC:08 4	29.06
2020-10-19T18:51:00	48	52		88	BKN:07 4 OVC:08 13	29.06
2020-10-19T18:53:00	49	51	0	92	BKN:07 4 OVC:08 11	29.06
2020-10-19T19:40:00	49	51	T	92	OVC:08 2	29.07
2020-10-19T19:53:00	49	50	0.01	96	OVC:08 3	29.07
2020-10-19T20:06:00	48	50	T	93	OVC:08 3	29.08
2020-10-19T20:53:00	47	49	0.01	93	OVC:08 4	29.08
2020-10-19T21:00:00	47	49	0.01	93	OVC:08 5	29.08
2020-10-19T21-53-00	47	49	т	93	OVC:08 5	29.09
2020-10-19T22:33:00	46	49	0.01	90	OVC:08.4	29.05
2020-10-19T22:53:00	46	48	0.02	93	OVC:08 3	29.06
2020-10-19T23:42:00	45	47	0.08	93	OVC:08 5	29.06
2020-10-19T23·51·00	45	46	0.00	93	OVC:08 7	29.06
2020-10-19T23-53-00	45	47	0.11	93	OVC:08 7	29.06
2020-10-19T23:59:00						
2020-10-20T00·07·00	45	47	0.03	93	BKN:07 5 OVC:08 9	29.06
2020-10-20T00:53:00	45	47	0.07	93	OVC:08 5	29.00
2020-10-20T01·42·00	44	47	Т	90	OVC:08.6	29.08
2020-10-20T01:53:00	44	47	0.02	90	OVC:08 6	29.08
2020-10-20T02:53:00	44	47	0.02	90	BKN:07 6 OVC:08 27	29.07
2020-10-20T03·01·00	44	47	0.01	90	SCT:04 6 OVC:08 27	29.08
2020-10-20T03-19-00	44	47	0.01	90	SCT:04 5 OVC:08 16	29.08
2020-10-20T03·31·00	44	47	0.02	90	BKN:07 5 BKN:07 15 OVC:08 20	29.08
2020-10-20T03-43-00	44	46	0.02	93	BKN:07 4 BKN:07 10 OVC:08 17	29.08
2020-10-20T03:51:00	45	46	0.02	93	BKN:07 5 BKN:07 23 OVC:08 28	29.08
2020-10-20103-53-00	44	46	0.03	93	BKN:07 5 BKN:07 23 OVC:08 28	29.00
2020-10-20103-39-00	44	46	0.03	93	BKN:07 6 OVC:08 41	29.00
2020-10-20104-53-00	44	47	Т	90	BKN:07 6 OVC:08 41	29.00
2020-10-20104.53.00	45	47	0.01	90	0VC·08 6	29.05
2020-10-20105.53.00	45	47	т	93	01/01/08 6	29.1
2020-10-20100.53.00	46	49	0	93 Q2	0VC:000	29.15
2020-10-20107.53.00	40 47	40	т	93		29.15
_020 10 20100.00.00	77	75			010.000	23.10

2020-10-20T09:53:00	47	50	0	89	OVC:08 6	29.16
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2020-10-20T21:08:00	51	53		93	OVC:08 4	29.08
2020-10-20T21:53:00	52	53	0	96	OVC:08 4	29.06
2020-10-20T22:38:00	53	54	0.01	97	OVC:08 4	29.06
2020-10-20T22:53:00	53	55	0.05	93	OVC:08 4	29.06
2020-10-20T23:05:00	54	55	0.04	96	BKN:07 4 OVC:08 55	29.06
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2020-10-20T23:48:00	55	57	0.08	94	OVC:08 4	29.05
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2020-10-21T02:04:00	57	58		97	OVC:08 2	29.01
2020-10-21T02:44:00	57	59		93	SCT:04 3 SCT:04 70 OVC:08 90	29
2020-10-21T02:53:00	57	60	0	90	FEW:02 5 FEW:02 70 OVC:08 90	29.01
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2020-10-21T21:48:00	55	59		88	SCT:04 13 OVC:08 29	29.15
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2020-10-21T22:53:00	56	59	0	90	SCT:04 33 SCT:04 48 OVC:08 60	29.13
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2020-10-21T23:59:00						
2020-10-22T00:53:00	56	59	0	90	BKN:07 9 BKN:07 34 OVC:08 60	29.13
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2020-10-22T06:53:00	57	58	0	97	VV:09 2	29.13
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2020-10-22T09:09:00	59	61		93	SCT:04 3	29.13
2020-10-22T09:53:00	60	67	0	79	CLR:00	29.13
2020-10-22T10:53:00	60	72	0	66	CLR:00	29.12
2020-10-22T11:53:00	61	75	0	62	CLR:00	29.1
2020-10-22T12:53:00	62	73	0	69	CLR:00	29.07
2020-10-22T13:53:00	60	76	0	58	BKN:07 43 OVC:08 60	29.05

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2020-10-22T15:53:00	59	76	0	56	FEW:02 49 BKN:07 70	29.05
2020-10-22T16:53:00	60	75	0	60	FEW:02 45	29.04
2020-10-22T17:53:00	59	69	0	70	CLR:00	29.05
2020-10-22T18:53:00	58	62	0	86	CLR:00	29.05
2020-10-22T19:53:00	58	65	0	78	CLR:00	29.04
2020-10-22T20:53:00	58	64	0	81	CLR:00	29.04
2020-10-22T21:53:00	58	64	0	81	CLR:00	29.03
2020-10-22T22:53:00	57	63	0	81	CLR:00	29.01
2020-10-22T23:53:00	57	62	0	84	CLR:00	28.99
2020-10-22T23:59:00						
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2020-10-23T03:53:00	57	60	0	90	SCT:04 55	28.98
2020-10-23T04:53:00	57	62	0	84	SCT:04 60	28.99
2020-10-23T05:53:00	57	61	0	87	BKN:07 65	29
2020-10-23T06:53:00	56	61	0	84	SCT:04 60	28.99
2020-10-23T07:53:00	57	63	0	81	BKN:07 60 BKN:07 75	28.99
2020-10-23T08:53:00	59	68	0	73	SCT:04 85	28.98
2020-10-23T09:53:00	61	70	0	73	FEW:02 45 SCT:04 80	28.97
2020-10-23T10:53:00	62	74	0	67	FEW:02 35 FEW:02 55 SCT:04 90	28.95
2020-10-23T11:53:00	62	75	0	64	FEW:02 31 SCT:04 47	28.93
2020-10-23T12:53:00	63	77	Т	62	FEW:02 35	28.9
2020-10-23T13:53:00	63	76	Т	64	SCT:04 34 SCT:04 42 BKN:07 70	28.87
2020-10-23T14:53:00	62	78	Т	58	FEW:02 39 SCT:04 65 BKN:07 75	28.85
2020-10-23T15:53:00	62	77	Т	60	FEW:02 38	28.84
2020-10-23T16:51:00	63	75		65	FEW:02 35 FEW:02 45 SCT:04 55	28.84
2020-10-23T16:53:00	62	74	Т	67	FEW:02 38 SCT:04 49	28.84
2020-10-23T17:00:00	62	74	Т	67	SCT:04 37 BKN:07 49 BKN:07 65	28.84
2020-10-23T17:10:00	63	71	0.09	76	FEW:02 23 SCT:04 35 BKN:07 43	28.85
2020-10-23T17:13:00	62	69	0.16	78	FEW:02 23 BKN:07 37 BKN:07 70	28.84
2020-10-23T17:20:00	59	70	0.17	68	SCT:04 30 BKN:07 35 OVC:08 70	28.82
2020-10-23T17:23:00	59	70	0.17	68	SCT:04 30 BKN:07 35 OVC:08 70	28.84
2020-10-23T17:26:00	60	69	0.17	73	FEW:02 24 BKN:07 29 OVC:08 70	28.84
2020-10-23T17:33:00	63	71	0.17	76	SCT:04 27 BKN:07 38 OVC:08 110	28.83
2020-10-23T17:49:00	61	66	0.23	83	SCT:04 24 BKN:07 60 OVC:08 110	28.85
2020-10-23T17:53:00	60	66	0.26	81	FEW:02 22 BKN:07 75 OVC:08 110	28.86
2020-10-23T18:11:00	60	64	0.12	87	BKN:07 50 BKN:07 75 OVC:08 90	28.85
2020-10-23T18:31:00	61	64	0.2	90	SCT:04 47 SCT:04 65 OVC:08 90	28.87
2020-10-23T18:51:00	61	64	0.21	88	FEW:02 50 BKN:07 80 OVC:08 100	28.86
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2020-10-23T19:51:00	61	63		94	SCT:04 18 BKN:07 24 OVC:08 42	28.91
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2020-10-23T20:37:00	60	64		87	OVC:08 14	28.89
2020-10-23T20:53:00	56	60	Т	86	OVC:08 13	28.9
2020-10-23T21:25:00	54	58	Т	87	BKN:07 9 OVC:08 14	<u>2</u> 8.92
2020-10-23T21:51:00	52	54		94	OVC:08 11	28.95
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2020-10-23T22:18:00	46	52		80	FEW:02 11 BKN:07 17 OVC:08 28	28.97
2020-10-23T22:30:00	47	52		83	FEW:02 10 SCT:04 25 OVC:08 32	28.97

2020-10-23T22:48:00	46	52		82	SCT:04 10 BKN:07 16 OVC:08 32	28.97
2020-10-23T22:53:00	46	51	0	83	SCT:04 11 BKN:07 18 OVC:08 34	28.98
2020-10-23T23:10:00	46	51		83	FEW:02 12 SCT:04 18 OVC:08 36	28.99
2020-10-23T23:16:00	46	50	0.01	86	BKN:07 12 OVC:08 35	28.99
2020-10-23T23:46:00	46	49	0.02	90	BKN:07 9 OVC:08 16	28.99
2020-10-23T23:53:00	45	49	0.02	86	BKN:07 10 OVC:08 14	28.99
2020-10-23T23:59:00						
2020-10-24T00:12:00	44	49		83	FEW:02 9 BKN:07 12 OVC:08 20	29.01
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2020-10-24T00:53:00	44	48	Т	86	OVC:08 15	29.03
2020-10-24T01:51:00	43	46		87	OVC:08 13	29.03
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2020-10-24T02:05:00	42	47		83	OVC:08 15	29.04
2020-10-24T02:25:00	41	47		80	OVC:08 14	29.04
2020-10-24T02:51:00	41	46		82	BKN:07 16 OVC:08 21	29.05
2020-10-24T02:53:00	41	47	0	80	BKN:07 16 OVC:08 22	29.05
2020-10-24T03:53:00	38	45	0	77	OVC:08 23	29.07
2020-10-24T04:53:00	38	45	0	77	OVC:08 20	29.09
2020-10-24T05:53:00	36	44	0	73	SCT:04 21 OVC:08 25	29.11
2020-10-24T06:53:00	35	42	0	76	BKN:07 28	29.12
2020-10-24T07:53:00	34	42	0	73	OVC:08 26	29.13
2020-10-24T08:53:00	34	42	0	73	OVC:08 26	29.15
2020-10-24T09:53:00	35	44	0	71	OVC:08 27	29.15
2020-10-24T10:53:00	35	46	0	66	BKN:07 27	29.15
2020-10-24T11:53:00	35	46	0	66	OVC:08 26	29.13
2020-10-24T12:53:00	35	45	0	68	OVC:08 24	29.13
2020-10-24T13:53:00	35	46	0	66	OVC:08 26	29.12
2020-10-24T14:53:00	35	47	0	63	OVC:08 29	29.1
2020-10-24T15:53:00	35	45	0	68	OVC:08 27	29.1
2020-10-24T16:53:00	34	45	0	66	OVC:08 27	29.1
2020-10-24T17:53:00	34	44	0	68	OVC:08 29	29.1
2020-10-24T18:34:00	34	45		66	OVC:08 30	29.12
2020-10-24T18:53:00	34	45	0	66	OVC:08 30	29.12
2020-10-24T19:29:00	36	44		73	OVC:08 29	29.12
2020-10-24T19:49:00	36	45		71	OVC:08 30	29.12
2020-10-24T19:53:00	36	44	0	73	OVC:08 30	29.12
2020-10-24T20:15:00	36	44		73	OVC:08 29	29.13
2020-10-24T20:53:00	36	44	0	73	OVC:08 29	29.13
2020-10-24T21:28:00	35	42		76	SCT:04 29 BKN:07 34	29.13
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2020-10-24T22:53:00	32	38	0	79	CLR:00	29.13
2020-10-24T23:53:00	34	38	0	86	OVC:08 100	29.11
2020-10-24T23:59:00						
2020-10-25T00:53:00	34	39	0	82	FEW:02 100	29.11
2020-10-25T01:53:00	33	37	0	86	FEW:02 100	29.1
2020-10-25T02:53:00	36	40	0	86	OVC:08 100	29.1
2020-10-25T03:53:00	36	41	0	82	OVC:08 100	29.09
2020-10-25T04:53:00	37	42	0	82	SCT:04 75 OVC:08 100	29.1
2020-10-25T05:53:00	38	43	0	82	BKN:07 75 OVC:08 100	29.12
2020-10-25T06:53:00	37	43	Т	80	OVC:08 90	29.11
2020-10-25T07:53:00	35	43	0	74	OVC:08 100	29.11
2020-10-25T08:53:00	34	45	0	66	OVC:08 110	29.12

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2020-10-25T10:53:00	34	48	0	58	OVC:08 110	29.1
2020-10-25T11:53:00	34	49	0	56	BKN:07 100	29.08
2020-10-25T12:53:00	33	49	0	55	OVC:08 50	29.06
2020-10-25T13:53:00	34	50	0	54	OVC:08 49	29.04
2020-10-25T14:53:00	34	51	0	52	BKN:07 45 BKN:07 65 OVC:08 95	29.01
2020-10-25T15:53:00	34	50	0	54	OVC:08 45	29.02
2020-10-25T16:53:00	34	50	0	54	OVC:08 45	29.02
2020-10-25T17:53:00	35	49	0	59	OVC:08 39	29.01
2020-10-25T18:53:00	36	48	0	63	OVC:08 34	29.01
2020-10-25T19:53:00	36	48	0	63	OVC:08 30	29.02
2020-10-25T20:53:00	38	48	0	68	FEW:02 23 OVC:08 30	29.01
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2020-10-25T21:53:00	40	48	0	74	OVC:08 16	29.01
2020-10-25T22:53:00	40	47	0	77	OVC:08 17	29
2020-10-25T23:53:00	41	48	0	77	OVC:08 20	29
2020-10-25T23:59:00						
2020-10-26T00:53:00	41	48	0	77	OVC:08 22	28.99
2020-10-26T01:53:00	42	47	0	83	OVC:08 20	29.01
2020-10-26T02:45:00	43	46	Т	89	SCT:04 9 OVC:08 17	29
2020-10-26T02:53:00	43	46	Т	89	SCT:04 9 OVC:08 17	29
2020-10-26T03:21:00	43	45	Т	93	SCT:04 4 OVC:08 14	29
2020-10-26T03:31:00	43	45	Т	93	BKN:07 4 OVC:08 14	29
2020-10-26T03:53:00	43	45	Т	93	FEW:02 5 OVC:08 13	29
2020-10-26T04:27:00	43	45	Т	93	BKN:07 4 OVC:08 10	29.01
2020-10-26T04:39:00	43	45	0.01	93	SCT:04 4 OVC:08 12	29.01
2020-10-26T04:47:00	43	45	0.02	93	BKN:07 4 OVC:08 12	29.02
2020-10-26T04:53:00	43	45	0.03	93	BKN:07 4 OVC:08 12	29.02
2020-10-26T05:02:00	43	45	Т	93	BKN:07 3 OVC:08 14	29.02
2020-10-26T05:27:00	43	45	0.01	93	OVC:08 4	29.02
2020-10-26T05:53:00	42	45	0.01	90	BKN:07 4 OVC:08 22	29.03
2020-10-26T06:31:00	42	44	Т	93	OVC:08 5	29.03
2020-10-26T06:53:00	42	44	Т	93	BKN:07 5 OVC:08 20	29.04
2020-10-26T07:00:00	42	44		93	BKN:07 6 OVC:08 20	29.04
2020-10-26T07:53:00	42	45	0	90	OVC:08 6	29.06
2020-10-26T08:32:00	42	45		90	OVC:08 5	29.06
2020-10-26T08:53:00	42	45	0	90	OVC:08 7	29.06
2020-10-26T09:53:00	42	46	0	86	OVC:08 8	29.06
2020-10-26T10:53:00	42	46	0	86	OVC:08 9	29.07
2020-10-26T11:33:00	43	46		89	OVC:08 8	29.09
2020-10-26T11:53:00	43	46	0	89	BKN:07 7 OVC:08 10	29.09
2020-10-26T12:00:00	43	46		89	BKN:07 5 OVC:08 10	29.09
2020-10-26T12:10:00	43	46		89	BKN:07 6 OVC:08 13	29.09
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2020-10-26T12:59:00	43	46	Т	89	BKN:07 5 BKN:07 15 OVC:08 21	29.09
2020-10-26T13:26:00	43	46	Т	89	BKN:07 7 BKN:07 12 OVC:08 18	29.09
2020-10-26T13:36:00	43	46	Т	89	BKN:07 5 OVC:08 12	29.09
2020-10-26T13:43:00	44	46	Т	93	SCT:04 7 BKN:07 12 OVC:08 17	29.09
2020-10-26T13:48:00	43	46	Т	87	SCT:04 7 BKN:07 12 OVC:08 17	29.09
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2020-10-26713-58-00 43 46 89 STC 40 F NK-07 12 OVC.08 19 29.09 2020-10 26714.32.00 43 46 89 BKN.07 6 OVC.08 20 23.08 2020-10 26714.32.00 42 45 0 90 OVC.08 6 23.91 2020-10 26715.43.00 42 45 90 SKT.04 10 OVC.08 17 29.11 2020-10 26715.51.00 42 45 90 SKT.04 10 OVC.08 17 29.11 2020-10 26715.51.00 43 46 0 88 FKW.02 6 RK.07 10 OVC.08 19 29.11 2020-10 26715.51.00 43 46 0 88 FKW.02 6 RK.07 11 OVC.08 19 29.11 2020-10 2671.75.00 42 45 0 90 OVC.08 11 29.12 2020-10 2671.75.00 42 45 90 OVC.08 11 29.13 2020-10 2671.75.00 42 45 0 90 FW.02 2 RVC.08 14 29.13 2020-10 2671.75.00 42 45 0 90 FW.02 2 SVC.08 14 29.13	2020-10-26T13:53:00	43	46	0	89	BKN:07 7 BKN:07 12 OVC:08 18	29.09
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2020-10-26T16.06:00 42 45 90 BKN:07.9 OVC:08.13 29.1 2020-10-26T17.03:00 41 45 90 OVC:08.11 29.13 2020-10-26T17.03:00 42 45 90 OVC:08.9 29.13 2020-10-26T17.51:00 42 45 90 OVC:08.9 29.13 2020-10-26T17.51:00 43 45 93 FEW:02.8 OVC:08.14 29.13 2020-10-26T17.51:00 42 45 0 90 FEW:02.8 OVC:08.14 29.13 2020-10-26T17.51:00 42 45 T 90 SCT:04.18 OVC:08.33 29.16 2020-10-26T19.02:00 42 44 T 93 BKW:07.25 EKW:07.3 OVC:08.10 29.18 2020-10-26T2.01:00 42 44 0 93 FEW:02.2 SC:04.03 OVC:08.5 29.18 2020-10-26T2.01:00 42 44 0 93 FEW:02.7 SC:04.04 OVC:08.75 29.18 2020-10-26T2.01:00 42 44 0 93 FEW:02.2 SK:04.07.8 OVC:08.65 29.19	2020-10-26T15:53:00	42	46	0	86	FEW:02 6 BKN:07 11 OVC:08 19	29.11
12020-10-26T1-5:3:00 41 45 0 86 BKN:07 9 OVC:08 14 29.13 2020-10-26T17:3:00 42 45 90 OVC:08 9 29.13 2020-10-26T17:3:00 42 45 90 OVC:08 9 29.13 2020-10-26T17:3:00 43 45 0 90 FEW:02 8 OVC:08 14 29.13 2020-10-26T17:3:00 42 45 0 90 FEW:02 8 OVC:08 14 29.13 2020-10-26T19:5:3:00 42 45 0 90 FEW:02 18 NUC 19 OVC:08 13 29.16 2020-10-26T19:5:3:00 42 44 T 93 FEW:02 2 SCT:04 70 OVC:08 10 29.18 2020-10-26T2:0:5:00 41 44 C 93 BK:N07 2 SK:04 70 OVC:08 10 29.18 2020-10-26T2:0:5:00 42 44 0 93 BK:07 25 BK:07 35 OVC:08 10 29.18 2020-10-26T2:0:5:00 41 44 0 94 BK:07 25 BK:07 35 OVC:08 65 29.19 2020-10-26T2:3:5:00 41 44 0.01 <t< td=""><td>2020-10-26T16:06:00</td><td>42</td><td>45</td><td></td><td>90</td><td>BKN:07 8 OVC:08 13</td><td>29.1</td></t<>	2020-10-26T16:06:00	42	45		90	BKN:07 8 OVC:08 13	29.1
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2020-10-27T11:53:00 40 45 0 83 FEW:02 14 OVC:08 42 29.16	2020-10-27T11:15:00	40	45		83	SCT:04 18 OVC:08 45	29.18
	2020-10-27T11:53:00	40	45	0	83	FEW:02 14 OVC:08 42	29.16

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2020-10-27T15:37:00	42	46		86	OVC:08 10	29.13
2020-10-27T15:51:00	43	46		87	OVC:08 10	29.13
2020-10-27T15:53:00	43	46	0.01s	89	FEW:02 5 OVC:08 10	29.13
2020-10-27T15:59:00	43	45	0.01	93	BKN:07 5 OVC:08 10	29.13
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2020-10-27T17:05:00	41	44		89	BKN:07 5 OVC:08 11	29.13
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3/5/2021 10:20:17 AM

in

Case No(s). 21-0036-EL-BGN

Summary: Application - 20 of 30 (Exhibit Q - Sound Level Assessment Report) electronically filed by Christine M.T. Pirik on behalf of Marion County Solar Project, LLC