Acoustic Assessment Report – Evolugen Trail Road Battery Energy Storage Project

FINAL REPORT

September 30, 2025

Prepared for:
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Project/File:
160930480

Stantec

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Executive Summary

Stantec Consulting Ltd. (Stantec) was retained by Evolugen to prepare an acoustic assessment report (AAR) in support of the Transmission Facility Class Environmental Assessment (TF Class EA) of the proposed 150 MW Trail Road Battery Energy Storage System (BESS) in Ottawa, Ontario (the Facility). This AAR is based on the Facility site drawing "7154024-2100000-41-D20-0002 Rev AE" prepared by BBA and dated February September 02, 2025 (see Appendix A).

The North American Industry Classification System (NAICS) code for the Project is anticipated to be 2211221 – Electric Bulk Power Transmission and Control. Based on the Project NAICS code and nature of operations, it is expected to be eligible for registration under the Ontario Ministry of the Environment Conservation and Parks (MECP) Environmental Activity Sector Registry (EASR). Therefore, this AAR has been prepared in accordance with the following MECP publications:

- Chapter 3 of the "Environmental Activity and Sector Registry – Limits and Other Requirements" (MECP 2021a)
- Section 16 of the "Ontario Regulation 1/17: Registrations under Part 11.2 of The Act – Activities requiring Assessment of Air Emissions (MECP 2021b)

The purpose of the AAR is to assess compliance of the Facility noise levels with the applicable noise limits set out in Chapter 3 of the publication "Environmental Activity and Sector Registry – Limits and Other Requirements" (EASR publication) at representative points of reception.

Facility noise sources and operating conditions were identified from site plans and equipment information provided by Evolugen. Sound power levels and operating conditions for Facility noise sources were used as inputs in a predictive acoustic model developed using Cadna/A (Datakustik GmbH 2025), a noise modelling software configured to implement ISO 9613-2 environmental sound propagation algorithms (ISO 1996). The assessment models the Facility's regular operations with the identified noise sources operating during a predictable worst-case hour during the day, evening, and nighttime periods. Routine testing of the emergency generator is considered under a separate noise impact scenario, as per MECP guidelines.

Nine (9) representative points of reception (PORs), consisting of local residential dwellings and accessible vacant lot receptors, have been identified for this assessment.

Following applicable MECP noise guidelines, the assessment evaluated noise levels from Facility's regular operations separately from emergency generator testing.

For Facility regular operations, predicted noise levels comply with the applicable MECP limits at the modelled PORs, provided that all BESS units are equipped with manufacturer-supplied noise reduction kits and the MPT is mitigated with the proposed noise barrier shown in the site plan. Further, the noise barrier surfaces facing the MPT are required to be acoustically absorptive with a minimum noise reduction

coefficient of 0.8. No additional noise control measures are required for the Facility regular operations to demonstrate compliance with MECP noise limits.

For emergency generator testing, predicted noise levels comply with the applicable MECP noise limits at all modelled PORs. As such, no additional mitigation measures are required, provided the generator does not exceed 75 dBA sound pressure level at 7 m and is tested only during daytime hours.

If there are changes to the Facility such as equipment manufacturer/model, operating conditions, and layout, the acoustic assessment should be updated to confirm compliance with MECP noise limits and identify any required noise controls.

The Facility's operations are not significant sources of vibration; hence, a vibration assessment is not included in this AAR.

Table of Contents

List of Tables

List of Appendices

Acronyms / Abbreviations

AAR	Acoustic Assessment Report
BESS	Battery Energy Storage System
Class EA	Class Environmental Assessment
dB	Decibel
dBA	Decibel, A-weighted
EASR	Environmental Activity Sector Registry
EPA	Environmental Protection Act
HVAC	Heating Ventilation and Air-conditioning
Hydro One	Hydro One Network Inc.
Hz	Hertz
ISO	International Organization for Standardization
LIDAR	Light Detection and Ranging
m	Meter(s)
MECP	Ontario Ministry of the Environment, Conservation and Parks (formerly MOE and MOECC)
MOE	Ontario Ministry of the Environment
MOECC	Ontario Ministry of the Environment and Climate Change
MPT	Main Power Transformer
MVS	Medium Voltage Substation
NAICS	North American Industry Classification System
NPC	Noise Pollution Control Guideline – Ontario
NRC	Noise Reduction Coefficient
OPOR	Outdoor Point of Reception
O.Reg.	Ontario Regulation
POR	Point of Reception
Stantec	Stantec Consulting Ltd.
TF	Transmission Facilities

Glossary

Term	Definition
Ambient Sound Level or Ambient Noise	All-encompassing sound that is associated with a given environment, usually a composite of sounds from many sources near and far. Includes noise from all sources other than the sources of interest (i.e., sound other than that being measured), such as sound from other industrial sources, transportation sources, animals and nature.
A-Weighting	The weighting network used to account for changes in level sensitivity as a function of frequency. The A-weighting network de-emphasizes the low (i.e., below 1 kHz) frequencies, and emphasizes the frequencies between 1 kHz and 6.3 kHz, in an effort to simulate the relative response of the human ear. See also frequency weighting.
Background Sound Level or Background Noise	Same as the ambient sound level.
Daytime	Defined as the hours from 07:00 to 19:00.
Decibel	A logarithmic measure of any measured physical quantity and commonly used in the measurement of sound. The decibel (dB) provides the possibility of representing a large span of signal levels in a simple manner. The difference between the sound pressure for silenced versus a loud sound is a factor of 1:1,000,000 or more and the same in Decibel is 0-130 dB, therefore it is less cumbersome to use a small range of equivalent values. A tenfold increase in sound power is equal to +10 dB; a tenfold increase in sound amplitude is equal to +20 dB.
Decibel, A-weighted	A-weighted decibels (dBA). Most common units for expressing sound levels since they approximate the response of the human ear.
Energy Equivalent Sound Level (L_{eq})	An energy-equivalent sound level (L_{eq}) over a specified period of time that would have the same sound energy as the actual (i.e., unsteady) time varying sound over the same period of time. It represents the average sound pressure encountered for the period. The period is often added as a suffix to the label (i.e., $L_{eq\text{-}1hr}$ for the 1 hour equivalent sound level). A Leq value expressed in dBA is a good, single value descriptor to use as a measure of annoyance due to noise.

Term	Definition
Evening	Defined as the hours from 19:00 to 23:00.
Frequency	The number of times per second that the sine wave of sound repeats itself. It can be expressed in cycles per second, or Hertz (Hz).
Frequency Weighting	A method used to account for changes in sensitivity as a function of frequency. Three standard weightings, A, B, and C are used to account for different responses to sound pressure levels. Note: The absence of frequency weighting is referred to as “flat” response or linear weighting. See also A-weighting.
Ground Absorption Coefficient	A parameter defined based on noise reflection characteristics of a surface. It varies between 0.0 (fully reflective) to 1.0 (fully absorptive).
Hertz (Hz)	The unit of frequency also expressed as cycles per second.
International Organization for Standardization	An international body that provides scientific standards and guidelines related to various technical subjects and disciplines.
Mitigation	Measures taken to reduce, eliminate, or control impacts on the environment.
Nighttime	Defined as the hours from 23:00 to 07:00.
Noise	Any unwanted sound. “Noise” and “sound” are used interchangeably in this document.
Octave	The interval between two frequencies having a ratio of two to one. For acoustic measurements, the octave bands start at 1,000 Hz centre frequency and go up or down from that point, at a 2:1 ratio. From 1,000 Hz, the next centre frequency is 2,000 Hz; the next is 4,000 Hz, or 500 Hz, 250 Hz, etc.
Point of Reception	A representative point considered for the purpose of assessment such as a residence, campground, daycare, school, church, or hospital.
Predictable Worst-Case Operation	A planned and predictable mode of operation for stationary source(s), during the hour when the noise emissions from the stationary source(s) have the greatest impact at a point of reception, relative to the applicable limit.

Term	Definition
Sound	A wave motion in air, water, or other media. It is the rapid oscillatory compression changes in a medium that propagate to distant points. It is characterized by changes in density, pressure, motion, and temperature as well as other physical properties. Not all rapid changes in the medium are due to sound (e.g., wind distortion on a microphone diaphragm).
Sound Level	Generally, sound level refers to the weighted sound pressure level obtained by frequency weighting, usually A- or C-weighted, and expressed in decibels.
Sound Power Level	The total sound energy radiated by a source per unit time (i.e., rate of acoustical energy radiation). The unit of measurement is the Watt. The acoustic power radiated from a given sound source as related to a reference power level (i.e., typically 1E 12 watts, or 1 picowatt) and expressed as decibels. A sound power level of 1 watt = 120 decibels relative to a reference level of 1 picowatt.
Sound Pressure	The root-mean-square of the instantaneous sound pressures during a specified time interval in a stated frequency band.
Sound Pressure Level	Logarithmic ratio of the root mean square sound pressure to the sound pressure at the threshold of human hearing (i.e., 20 micropascals).
Spectrum (Frequency Spectrum)	The frequency dependent characteristic of sound often expressed as amplitude versus octave band frequency (see octave band).

1 Introduction

Stantec Consulting Ltd. (Stantec) was retained by Evolugen to prepare an acoustic assessment report (AAR) in support of the Transmission Facility Class Environmental Assessment (TF Class EA) of the proposed 150 MW Trail Road Battery Energy Storage System (BESS) in Ottawa, Ontario (the Facility).

The main North American Industry Classification System (NAICS) code for the Project is anticipated to be 2211221 – Electric Bulk Power Transmission and Control. Based on the Project NAICS code and nature of operations, it is expected to be eligible for registration under the Ontario Ministry of the Environment Conservation and Parks (MECP) Environmental Activity Sector Registry (EASR). Therefore, this AAR has been completed in accordance with the following MECP publications:

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The purpose of the AAR is to assess the compliance of the Facility noise levels with the applicable noise limits set out in Chapter 3 of the publication “Environmental Activity and Sector Registry – Limits and Other Requirements” (EASR publication) at representative points of reception.

This AAR is based on the Facility site plan “7154024-200000-41-D20-0002 Rev AE” prepared by BBA and dated September 02, 2025 (see Appendix A).

The Facility’s operations are not significant sources of vibration; hence, a vibration assessment is not included in this AAR.

2 Facility Description

The Facility is located in the southwest corner of William McEwen Drive and Barnsdale Road in Ottawa, Ontario. The Facility is surrounded by:

- William McEwen Drive to the east, with Highway 416 further east
- Barnsdale Road to the north, with the Tomlinson Howe-Ross Pit, an existing aggregate pit, further north
- Moodie Drive to the west, with agricultural lands further west
- Agricultural lands to the south with Brophy Drive further the south

A map of the Facility property and surrounding area is provided in Appendix B, Figure 1.

The lands surrounding the Facility are predominantly zoned as rural countryside, agricultural designations under the City of Ottawa Zoning By-law (City of Ottawa 2008), all of which allow for residential dwellings. Nearby dwellings are located along McEwen Drive, Barnsdale Road and Moodie Drive. A zoning map of the surrounding lands is provided in Appendix C.

The Facility primarily stores electrical energy using large-scale battery systems for later use. It supports grid stability by storing excess electricity during periods of low demand and discharging it when demand is high. Given the nature of its operations, the Facility may operate 24 hours a day, 7 days a week.

The Facility will include a 100 kW propane fueled emergency generator to power the Facility in case of a grid outage. The generator will operate during grid outages and routine maintenance testing.

The Facility will include a 6.5 m high noise barrier for the main power transformer at the substation, as shown in the site plan (see Appendix A).

3 Noise Sources

The noise sources considered in this assessment were identified through a review of the Facility site drawing in Appendix A and equipment information provided by Evolugen. Key equipment information is included in Appendix D. The Facility's primary noise sources are identified as follows:

- **BESS Units** – One hundred eighty-nine (189) Sungrow PowerTitan 2.0 BESS operating at 35 degrees Celsius and 80% power conditions. Evolugen has confirmed that all units will be equipped with the manufacturer-supplied noise reduction kits.
- **Main Power Transformer (MPT) –** One (1) 230 kV MPT rated up to 175 MVA. The cooling designation for the transformer is oil-filled, forced-air cooling, stage 2 (ONAF2). A 6.5 m high C-Shaped noise barrier will be installed for the MPT, as shown in the Site Plan (Appendix A). This assessment considers the noise barrier with a surface density of at least 20 kg/m^2 and surfaces facing the MPT as acoustically absorptive with a minimum noise reduction coefficient (NRC) of 0.8.
- **Medium Voltage Substation (MVS)** – Forty-eight (48) 34.5 kV Sungrow MVS5140 medium voltage substations, each rated at 5 MVA with a non-mineral oil filled, natural convection (KNAN) cooling designation. Evolugen has confirmed that these units will be equipped with the manufacturer-supplied noise-relief covers.
- **Heating, Ventilation and Air-conditioning (HVAC) equipment** – One (1) 30-ton HVAC unit assumed for the Facility's control building, since project-specific HVAC details were not available at the time of this study.
- **Emergency Power Generator** – One (1) 100 kW propane-fueled emergency generator.

A summary of the noise sources considered in this assessment, including their quantities, overall sound power levels, and sound characteristics, is provided in Table 3.1. A map of the modelled noise sources is provided in Appendix B, Figure 2.

Table 3.1 Noise Source Summary

Quantity	Noise Source Description	Sound Power Level (dBA) [a]	Source Location (I/O) [b]	Sound Characteristics [c]	Noise Control Measures [d]
189	Sungrow PowerTitan 2.0 BESS	79 [e]	O	T	S
48	Medium Voltage Substation - 5 MVA	79	O	T	E
1	Main Power Transformer - 175 MVA	109	O	T	B
1	30 Ton HVAC Unit	95	O	S	U
1	100 kW Emergency Generator	100	0	S	E [f]

Notes:

a. Value does not include the tonal sound level adjustment from NPC-104, where applicable. However, the value does reflect the listed noise control measures.

b. Source Location: O = Outside of building, I = Inside of building.

c. Sound Characteristics per NPC-104: T = Tonal, S = Steady.

d. Noise Control Measures: B = Noise Barrier, E = Enclosure, S = Silencer/Muffler, U = Uncontrolled.

e. Values for the BESS reflect an operation condition of 35 degree Celsius ambient temperature at 80% power.

f. The emergency generator is assumed to be equipped with an acoustic enclosure, so that it will not have any tonal components in its sound spectrum.

Sound power levels for the BESS and MVS were obtained from manufacturer sound data provided by Evolugen. The MPT sound power level was derived from the equipment specifications, supplemented with sound level data from CSA 88-16 (CSA 2017) and published sound power level prediction methods from the Institute of Electrical and Electronics Engineers (IEEE 2015). Additional sound power levels were referenced from Stantec's internal database, which includes manufacturer sound data and field measurements of similar equipment. Manufacturer sound data and spectral sound levels used in this assessment are provided in Appendix D.

MECP publication NPC-104 (MOE 1978) prescribes adjustments for sources with special qualities or characters of sound. These are punitive adjustments which apply to noise sources with subjectively annoying characteristics, including tonal sounds, quasi-impulsive sounds and beating sounds (sounds with cyclically varying amplitudes).

The BESS and MVS are considered tonal, as their spectral sound levels meet the tonality criteria outlined in ISO 1996-2:2017 (ISO 2017). In the absence of spectral data for the MPT, it is also considered tonal since transformers generally exhibit tonal characteristics. Accordingly, a +5 dB adjustment was applied to the sound power level of these sources per NPC-104. No other sound power level adjustments were considered in this assessment.

3.1 Insignificant Noise Sources

This assessment considers insignificant noise sources as those expected to have negligible contributions to the overall Facility noise level, based on their size and noise emission, as well as location relative to the receptor, including line-of-sight considerations.

Insignificant noise sources in this assessment are the auxiliary transformers, and small HVAC units and building exhausts expected for the main control building.

4 Points of Reception

In accordance with the EASR publication, Facility noise levels are evaluated at points of reception (PORs) located on properties that contain one or more of the following buildings:

- A building or structure that includes one or more dwellings
- A building used for commercial purposes that includes one or more habitable rooms used as sleeping facilities, such as a hotel or motel
- A building used for institutional purposes, including educational facilities, and hospitals
- A building used for a place of worship, except when located on land zoned for commercial or industrial use

A POR can also be a location on a vacant lot, other than an inaccessible vacant lot, that has been zoned to permit a building type noted above.

Based on a review of aerial imagery and local zoning maps, nine (9) representative PORs were identified for this assessment. The PORs consistent of six (6) residential dwellings and three (3) accessible vacant lot receptors. The identified PORs represent the plane of window of noise sensitive spaces (e.g., sleeping quarters) and outdoor locations (OPOR) for existing dwellings.

The PORs considered in this assessment are listed in Table 4.1 and shown in Appendix B, Figure 1.

Table 4.1 Points of Reception Summary

POR ID	POR Description	Modelled Height above ground [b] (m)	MTM Coordinates, NAD83 Zone 9	
			Easting (m)	Northing (m)
POR1	1 Storey Residence - 4134 Moodie Drive	1.5	362201	5008068
OPOR1	Residence Yard - 4134 Moodie Drive	1.5	362227	5008080
POR2	2 Storey Residence - 4241 Barnsdale Road	4.5	363315	5009577
OPOR2	Residence Yard - 4241 Barnsdale Road	1.5	363320	5009562
POR3	2[a] Storey Residence - 4134 William McEwen Drive	4.5	363987	5009110
OPOR3	Residence Yard - 4134 William McEwen Drive	1.5	363963	5009079
POR4	1 Storey Residence - 4160 William McEwen Drive	1.5	364070	5009010
OPOR4	Residence Yard - 4160 William McEwen Drive	1.5	364049	5008987
POR5	2 Storey Residence - 4282 William McEwen Drive	4.5	364194	5008402
OPOR5	Residence Yard - 4282 William McEwen Drive	1.5	364167	5008414
POR6	1 Storey Residence - 4077 Moodie Drive	1.5	362171	5008369
OPOR6	Residence Yard - 4077 Moodie Drive	1.5	362200	5008377
VL1	Vacant Lot - William McEwen Drive	4.5	364231	5008638
VL2	Vacant Lot - Brophy Drive	4.5	363866	5007594
VL3	Vacant Lot - 4335 Barnsdale Road	4.5	363070	5009446

Notes:

a. The number of storeys for POR3 were assumed for this assessment as they could not be verified through publicly available imagery.

b. The modelled height is set at the plane of window where Facility noise levels are predicted to be the highest relative to the applicable noise level limits:

- 4.5 m above ground for the Plane of Window PORs for two-storey residences and accessible vacant lot receptors
- 1.5 m above ground for the Plane of Window PORs for one-storey residences and Outdoor PORs

5 Assessment Criteria

Chapter 3 of the EASR publication provides the applicable assessment criteria in terms of the one-hour equivalent noise level ($L_{eq\text{-}1hr}$). The applicable noise limits are set as the higher of either the applicable Class Area noise limit specified in the EASR publication or the background noise level at the POR.

The Class Area noise limits apply at a POR depending on the characteristics of its acoustic environment and time of day (e.g., daytime, evening, or nighttime). The local background noise level was established through a Project-specific background noise study (Stantec Consulting Ltd. 2025). The complete background noise study for the Project is attached as Appendix E.

The following sub-sections describe the EASR Publication noise limits and summarize the background noise study results as they relate to establishing the noise limits for this assessment.

5.1 EASR Publication Noise Limits

Based on site observations and a review of local aerial imagery, the surrounding area exhibits characteristics of both Class 2 and Class 3 area, as defined in the EASR publication:

Class 2 Area: An area where the background noise level during the day is dominated by the activities of people and by natural sounds during the night.

Class 3 Area: An area where the background noise level during the day and night is dominated by natural sounds, with little to no traffic.

Areas adjacent to William McEwen Drive and Highway 416 can be classified as Class 2 Areas due to their exposure to road traffic noise. Other areas, along Moodie Drive, Barnsdale Road and Brophy Drive with limited exposure to these roadways can be classified as Class 3 Areas.

The Class 2 and 3 Area noise limits from the EASR publication are summarized in Table 5.1.

Table 5.1 EASR Publication Noise Limits for Class 2 and Class 3 Areas

Period	EASR Publication Class 2 Area Noise Limits, $L_{eq\text{-}1hr}$ (dBA)		EASR Publication Class 3 Area Noise Limits, $L_{eq\text{-}1hr}$ (dBA)	
	Outdoor POR	Plane of Window POR	Outdoor POR	Plane of Window POR
Daytime (07:00 to 19:00)	50	50	45	45
Evening (19:00 to 23:00)	45	50	40	40
Nighttime (23:00 to 07:00)	N/A	45	N/A	40

5.2 Background Noise Levels

Chapter 3 of EASR publication indicates the established background noise level can be used as the POR noise limit if it is higher than the applicable Class Area noise limit in the publication.

To determine the applicable noise limits for this assessment, Stantec conducted automated noise monitoring between November 28 and December 9, 2024, to measure the local background noise levels.

Background noise was monitored at three locations, with microphones positioned at 1.5 m above ground level:

- NM01 – 4186 William McEwen Drive
- NM02 – 4071 Moodie Drive
- NM03 – 4241 Barnsdale Road

The noise monitoring locations are expected to experience similar acoustic conditions to the PORs considered in this study, primarily due to their exposure to road traffic noise sources such as Highway 416, Moodie Drive, and Barnsdale Road. A map showing the noise monitoring locations relative to the Project is provided in Appendix E.

Following the supplementary noise guidance from MECP NPC-300 (MECP 2013), the lowest measured $L_{eq\text{-}1hr}$ during the daytime, evening, and nighttime was selected to represent the background noise level at each noise monitoring location. The minimum $L_{eq\text{-}1hr}$ was compared to the applicable Class Area noise limits to identify PORs where site-specific noise limits can be applied in this assessment. A summary of the noise monitoring results is provided in Table 5.2.

Table 5.2 Background Noise Monitoring Results

Monitoring Location ID [a]	Applicable PORs	Period [b]	Minimum 1-hour Noise Level, L_{eq-1hr} (dBA)	EASR Publication Class Area [c]	EASR Publication Class Area, Noise Limit, L_{eq-1hr} (dBA)	Minimum 1-hour Noise Level, L_{eq-1hr}, Greater Than EASR Publication Class Area Noise Limit? (Y/N)
NM01	POR3/OPOR3, POR4/OPOR4, VL1	Daytime	55	2	50	Y
		Evening	55		50	Y
		Nighttime	47		45	Y
	POR5/OPOR5	Daytime	51 [d]	2	50	Y
		Evening	51 [d]		50	Y
		Nighttime	43 [d]		45	N
NM02	POR1/OPOR1, POR6/OPOR6, VL2	Daytime	43	3	45	N
		Evening	37		40	N
		Nighttime	24		40	N
NM03	POR2/OPOR2, VL3	Daytime	46	3	45	Y
		Evening	40		40	N
		Nighttime	33		40	N

Notes:

a. Refer to Appendix E for a map showing the monitoring locations.

b. Day is from 07:00 to 19:00; Evening is from 19:00 to 23:00; Nighttime is from 23:00 to 07:00.

c. Refers to the MECP Class Area, as defined in Chapter 3 of the EASR publication. The applicable Class Area noise limits were determined mainly based on proximity to Highway 416, which was observed to be the dominant road traffic noise source.

d. To account for the lower background noise levels at POR5—expected due to its greater setback distance from Highway 416—a -4dB adjustment was applied to the minimum L_{eq-1hr} measured at NM01.

Based on the results of the background noise study, the noise limits for this assessment are established in the following sub-section.

5.3 Assessment Noise Limits

The background noise study shows that noise limits higher than the Class 2 Area noise limits can be established at most identified PORs along Highway 416.

As shown in Table 5.2, the background noise levels at most PORs along Highway 416 are greater than the applicable Class 2 Area noise limits published in the EASR publication. Therefore, the measured background noise level can be used as the noise limits for all identified PORs along Highway 416, except for POR5 during nighttime.

The background noise level at POR5 is expected to be lower than that measured at NM01 due to its greater setback distance from Highway 416, the dominant noise source observed along William McEwen Drive. To account for this variation, the minimum $L_{eq\text{-}1hr}$ at POR5 includes a -4 dB adjustment. The adjustment is based on a typical road traffic noise attenuation rate of 3 dB per doubling of distance, adjusted for the setback distance from Highway 416.

The remaining PORs are further removed from Highway 416 and their background noise levels were mostly below the applicable Class 3 Area noise limits. Therefore, the default Class 3 Area noise limits are appropriate for these PORs. Notwithstanding this, the background noise level at POR2 exceeded the Class 3 Area noise limit during the daytime by 1 dB. As a result, a marginally higher daytime noise limit can be considered for POR2.

A summary of noise assessment limits is provided in Table 5.3 for regular operations and emergency generator testing. Only the daytime noise limit is considered for emergency generator testing since the testing is assumed to occur during the daytime only.

Table 5.3 Noise Assessment Limits

POR ID	Period [a]	EASR Publication Class Area [b]	Applicable Noise Limit, $L_{eq\text{-}1hr}$ [c] (dBA)	
			Regular Operations	Emergency Generator Testing
POR1/OPOR1, POR2/OPOR2, POR6/OPOR6, VL2, VL3	Daytime	3	45	50
	Evening		40	N/A
	Nighttime		40	N/A
POR3/OPOR3, POR4/OPOR4, VL1	Daytime	2	55	60
	Evening		55	N/A
	Nighttime		47	N/A

POR ID	Period [a]	EASR Publication Class Area [b]	Applicable Noise Limit, $L_{eq\text{-}1hr}$ [c] (dBA)	
			Regular Operations	Emergency Generator Testing
POR5/OPOR5	Daytime	2	51	56
	Evening		51	N/A
	Nighttime		45	N/A

Notes:

a. Daytime: 07:00 to 19:00; Evening: 19:00 to 23:00; Nighttime: 23:00 to 07:00.

b. Refers to the MECP Class Area, as defined in Chapter 3 of the EASR publication. The applicable Class Area noise limits were primarily determined based on proximity to Highway 416, which was observed to be the dominant road traffic noise source.

c. The applicable noise level limits are based on both Class Area Noise Limits and measured background noise levels. The emergency generator testing noise limit includes a +5 dB adjustment, per Chapter 3 of the EASR publication.

6 Impact Assessment

6.1 Methods

This assessment predicts Facility noise levels at the PORs using the commercially available acoustic modelling software Cadna/A (version 2025). The acoustic model was configured to implement ISO 9613-2 (ISO 1996) noise propagation algorithms, which account for noise attenuation effects from distance, intervening structures, atmospheric absorption, ground absorption, and local topography.

The Facility development area ground elevation was modelled at 97 m above sea level, as advised by Evolugen. Outside of the development area, the ground elevation was based on the Ontario Digital Terrain Model dataset (Ottawa-Gatineau Package M 2019-2020), which represents the bare-earth terrain derived from Light Detection and Ranging (LiDAR) data.

The acoustic model considers a downwind condition as a conservative approach, where the wind direction is always oriented from each source towards each POR. A summary of key acoustic model parameters used in the model is provided in Table 6.1.

Table 6.1 Key Acoustic Model Parameters

Parameter	Value	Rationale
Ground Absorption	0.2	Models acoustically reflective ground conditions (e.g. gravel, hard pack earth) within the Facility development area
Ground Absorption	0.8	Models acoustically absorptive ground conditions (e.g. grass and foliaged covered ground) between the Facility development area and the modelled PORs
Temperature	10°C	Ontario standard conditions
Relative Humidity	70%	Ontario standard conditions
Max. Order of Reflection	2	Accounts for building reflections
Noise Barrier NRC	0.8	Models acoustically absorptive barrier surfaces facing the MPT

6.2 Modelling Scenarios

O. Reg 1/17 requires the AAR to assess the predictable worst case noise levels from the Facility at the PORs. To consider the predictable worst-case scenario, all non-emergency noise sources are modelled as operating continuously and simultaneously during the day, evening and nighttime. Emergency generator testing is modelled separately from regular operations in accordance with the EASR publication and is assumed to occur during the daytime only. A summary of the modelled operating scenarios is provided in Table 6.2.

Table 6.2 Modelled Operating Scenarios

Modelling Scenario	Period	Modelled Operations (Worst-case 1-hour)
Regular Operations	Daytime (07:00 to 19:00)	The simultaneous and continuous operation of all non-emergency sources. This scenario considers the 6.5 m noise barrier for the main power transformer, as shown in the site plan (Appendix A). The noise barrier surfaces facing the transformer are modelled with an enhanced acoustical absorption meeting NRC of 0.8.
	Evening (19:00 to 23:00)	
	Nighttime (23:00 to 07:00)	
Emergency Generator Testing	Daytime (07:00 to 19:00)	This assessment assumes the emergency generator will operate for up to 60 minutes during routine testing.
	Evening (19:00 to 23:00)	Not assessed as this study assumes the emergency generator will be tested during the daytime only.
	Nighttime (23:00 to 07:00)	

6.3 Results

6.3.1 Regular Operations

An acoustic assessment summary of the noise impacts at the PORs for regular operations is provided in Table 6.3. Individual noise level contributions from each source at the PORs is provided in Appendix F, Table F.1. Equivalent noise level contours for Regular Operations are provided in Appendix B, Figure 3. Sample acoustic model calculations are provided in Appendix G.

Table 6.3 Acoustic Assessment Summary – Regular Operations

POR Name	POR Description	Period [a]	Noise Level at POR [b] (L_{eq}, dBA)	Noise Level Limit [c] (L_{eq}, dBA)	Compliance with Noise Level Limit (Y/N)	Acoustical Classification Area [d]	Verified by Acoustic Audit [e] (Y/N)
POR1	1 Storey Residence - 4134 Moodie Drive	Daytime	38	45	Y	Class 3	N
		Evening	38	40	Y		
		Nighttime	38	40	Y		
OPOR1	Residence Yard - 4134 Moodie Drive	Daytime	38	45	Y	Class 3	N
		Evening	38	40	Y		
		Nighttime	N/A	N/A	N/A		
POR2	2 Storey Residence - 4241 Barnsdale Road	Daytime	37	45	Y	Class 3	N
		Evening	37	40	Y		
		Nighttime	37	40	Y		
OPOR2	Residence Yard - 4241 Barnsdale Road	Daytime	36	45	Y	Class 3	N
		Evening	36	40	Y		
		Nighttime	N/A	N/A	N/A		
POR3	2* Storey Residence - 4134 William McEwen Drive	Daytime	39	55	Y	Class 2	N
		Evening	39	55	Y		
		Nighttime	39	47	Y		
OPOR3	Residence Yard - 4134 William McEwen Drive	Daytime	38	55	Y	Class 2	N
		Evening	38	55	Y		
		Nighttime	N/A	N/A	N/A		
POR4	1 Storey Residence - 4160 William McEwen Drive	Daytime	38	55	Y	Class 2	N
		Evening	38	55	Y		
		Nighttime	38	47	Y		

POR Name	POR Description	Period [a]	Noise Level at POR [b] (L_{eq}, dBA)	Noise Level Limit [c] (L_{eq}, dBA)	Compliance with Noise Level Limit (Y/N)	Acoustical Classification Area [d]	Verified by Acoustic Audit [e] (Y/N)
OPOR4	Residence Yard - 4160 William McEwen Drive	Daytime	38	55	Y	Class 2	N
		Evening	38	55	Y		
		Nighttime	N/A	N/A	N/A		
POR5	2 Storey Residence - 4282 William McEwen Drive	Daytime	41	51	Y	Class 2	N
		Evening	41	51	Y		
		Nighttime	41	45	Y		
OPOR5	Residence Yard - 4282 William McEwen Drive	Daytime	39	51	Y	Class 2	N
		Evening	39	51	Y		
		Nighttime	N/A	N/A	N/A		
POR6	1 Storey Residence - 4077 Moodie Drive	Daytime	35	45	Y	Class 3	N
		Evening	35	40	Y		
		Nighttime	35	40	Y		
OPOR6	Residence Yard - 4077 Moodie Drive	Daytime	36	45	Y	Class 3	N
		Evening	36	40	Y		
		Nighttime	N/A	N/A	N/A		
VL1	Vacant Lot - William McEwen Drive	Daytime	40	55	Y	Class 2	N
		Evening	40	55	Y		
		Nighttime	40	47	Y		
VL2	Vacant Lot - Brophy Drive	Daytime	39	45	Y	Class 3	N
		Evening	39	40	Y		
		Nighttime	39	40	Y		

POR Name	POR Description	Period [a]	Noise Level at POR [b] (L_{eq}, dBA)	Noise Level Limit [c] (L_{eq}, dBA)	Compliance with Noise Level Limit (Y/N)	Acoustical Classification Area [d]	Verified by Acoustic Audit [e] (Y/N)
VL3	Vacant Lot - 4335 Barnsdale Road	Daytime	38	45	Y	Class 3	N
		Evening	38	40	Y		
		Nighttime	38	40	Y		

Notes:

a. Daytime: 07:00 to 19:00; Evening: 19:00 to 23:00; Nighttime: 23:00 to 07:00.

b. Predicted noise level from sources operating as described in Section 6.2.

c. Applicable noise level limit from Chapter 3 of EASR publication.

d. The classification of the area in which the point of reception is located, per Chapter 3 of the EASR publication.

e. N - no acoustic audit has been completed, Y - an acoustic audit case been completed and verified compliance.

As shown in Table 6.3, the predicted noise levels comply with the applicable noise limits at all modelled receptors. No additional noise controls are required for the Facility beyond those identified in Section 3.

6.3.2 Emergency Generator Testing

An acoustic assessment summary of the noise impacts at the PORs for emergency generator testing is provided in Table 6.4. Individual noise level contributions from each source at the PORs is provided in Appendix F, Table F.2. Equivalent noise level contours for emergency generator testing are provided in Appendix B, Figure 4. Sample acoustic model calculations are provided in Appendix G.

Table 6.4 Acoustic Assessment Summary – Emergency Generator Testing

POR ID	POR Description	Period [a]	Noise Level at POR [b] (L_{eq}, dBA)	Noise Level Limit [c] (L_{eq}, dBA)	Compliance with Noise Level Limit (Y/N)	Acoustical Classification Area [d]	Verified by Acoustic Audit [e] (Y/N)
POR1	1 Storey Residence - 4134 Moodie Drive	Daytime	21	50	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
OPOR1	Residence Yard - 4134 Moodie Drive	Daytime	21	50	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
POR2	2 Storey Residence - 4241 Barnsdale Road	Daytime	25	50	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
OPOR2	Residence Yard - 4241 Barnsdale Road	Daytime	22	50	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
POR3	2* Storey Residence - 4134 William McEwen Drive	Daytime	28	60	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
OPOR3	Residence Yard - 4134 William McEwen Drive	Daytime	26	60	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		

POR ID	POR Description	Period [a]	Noise Level at POR [b] (L_{eq}, dBA)	Noise Level Limit [c] (L_{eq}, dBA)	Compliance with Noise Level Limit (Y/N)	Acoustical Classification Area [d]	Verified by Acoustic Audit [e] (Y/N)
POR4	1 Storey Residence - 4160 William McEwen Drive	Daytime	25	60	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
OPOR4	Residence Yard - 4160 William McEwen Drive	Daytime	26	60	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
POR5	2 Storey Residence - 4282 William McEwen Drive	Daytime	30	56	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
OPOR5	Residence Yard - 4282 William McEwen Drive	Daytime	28	56	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
POR6	1 Storey Residence - 4077 Moodie Drive	Daytime	19	55	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
OPOR6	Residence Yard - 4077 Moodie Drive	Daytime	19	55	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
VL1	Vacant Lot - William McEwen Drive	Daytime	31	60	Y	Class 2	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		

POR ID	POR Description	Period [a]	Noise Level at POR [b] (L_{eq}, dBA)	Noise Level Limit [c] (L_{eq}, dBA)	Compliance with Noise Level Limit (Y/N)	Acoustical Classification Area [d]	Verified by Acoustic Audit [e] (Y/N)
VL2	Vacant Lot - Brophy Drive	Daytime	28	50	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		
VL3	Vacant Lot - 4335 Barnsdale Road	Daytime	26	50	Y	Class 3	N
		Evening	N/A	N/A	N/A		
		Nighttime	N/A	N/A	N/A		

Notes:

a. Daytime: 07:00 to 19:00; Evening: 19:00 to 23:00; Nighttime: 23:00 to 07:00.

b. Predicted noise level from sources operating as described in Section 6.2

c. Applicable noise level limit from Chapter 3 of EASR publication.

d. The classification of the area in which the point of reception is located per Chapter 3 of the EASR publication.

e. N - no acoustic audit has been completed, Y - an acoustic audit case been completed and verified compliance.

As shown in Table 6.4, the predicted Facility noise levels meet the applicable noise limits at all modelled PORs during emergency generator testing for the Facility. Therefore, no additional mitigation measures are required for the emergency generator, provided the generator procured for the Facility does not exceed a sound level of 75 dBA at 7 m and is tested during the daytime only. Alternative generators and testing protocols may be acceptable but would need separate evaluation for compliance with the applicable noise limits.

7 Conclusion and Closure

Stantec was retained by Evolugen to prepare an AAR in support of the TF Class EA for the proposed 150 MW Trail Road BESS Project in Ottawa, Ontario (the Facility).

This AAR was prepared using available Facility information, including the site plan "7154024-200000-41-D20-0002 Rev AE" prepared by BBA and dated September 02, 2025 (see Appendix A). If there are changes to the Facility, such as equipment manufacturer /model, operating conditions, and layout, this acoustic assessment should be updated to confirm compliance with MECP noise limits and to identify any required noise controls.

For Facility regular operations, noise levels were predicted to meet the applicable MECP limits at the modelled PORs, provided all BESS units are equipped with manufacturer-supplied noise reduction kits and the MPT is mitigated with the proposed noise barrier shown in the site plan. Further, the noise barrier surface density must be at least 20 kg/m^2 and the surfaces facing the MPT are required to be acoustically absorptive with a minimum NRC of 0.8. No additional noise control measures are required to demonstrate compliance with MECP noise limits for regular operations.

For emergency generator testing, predicted noise levels also comply with the applicable MECP noise limits at all PORs under the evaluated testing scenario. Accordingly, no additional mitigation measures are required for the emergency generator, provided that the procured generator does not exceed a sound level of 75 dBA at 7 m and is tested only during daytime hours.

8 References

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MECP. 2013. "Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning (NPC-300)."

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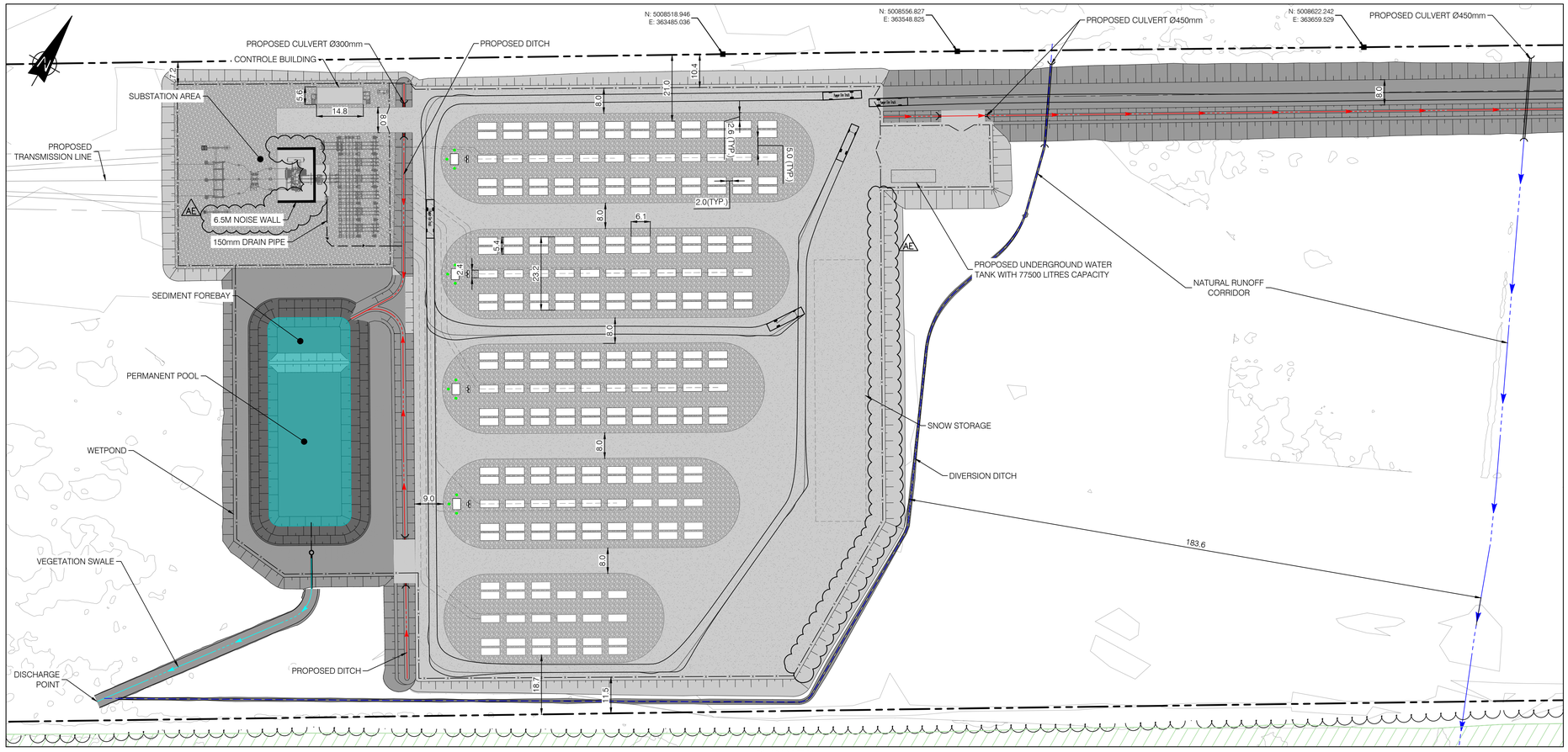
MOE. 1978. "Publication NPC-104 - Sound Level Adjustments."

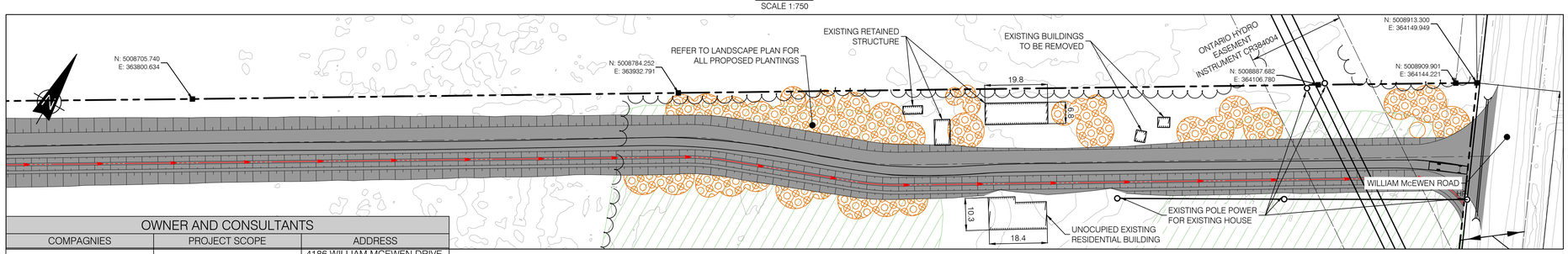
Stantec Consulting Ltd. 2025. "Evolugen Trail Road Battery Energy Storage System Project – Background Noise Study."

Appendices

Appendix A Facility Drawings



PLAN VIEW
SCALE 1:750



ACCESS ROAD PLAN VIEW
SCALE 1:750

OWNER AND CONSULTANTS		
COMPAGNIES	PROJECT SCOPE	ADDRESS
TRAIL ROAD BESS INC	OWNER / DEVELOPPER	4186 WILLIAM MCEWEN DRIVE, RICHMOND, ON K0A 2E0
BBA	CIVIL ENGINEERING	20 CARLSON COURT, SUITE 100, TORONTO, ON M9W 7K6
STANTEC	PLANNING, LANDSCAPE PLANS	1331 CLYDE AVE. #300, OTTAWA, ON K2C 3G4
HATCH	GEOTECHNICAL, HYDROGEOLOGY	2800 SPEAKMAN Dr. MISSISSAUGA, ON L5K 2R7
TULLOCH GEOMATICS INC.	SURVEYOR	900 MORRISON Dr. SUITE 208, OTTAWA, ON K2H 8K7

KEY PLAN

LEGEND

- WATERCOURSE DITCH
- NATURAL RUNOFF CORRIDOR
- DIVERSION DITCH
- PROPOSED FENCE
- PROPERTY LIMIT
- STORMWATER SEWER
- VEGETATION SWALE
- PROPOSED FENCE
- PROPERTY LIMIT
- STORMWATER SEWER
- MAIN PIPE FIRE PROTECTION 200mm HDPE DR11 PE4710
- PIPE CONNECTION 150mm HDPE DR11 PE4710
- HYDRANT
- HYDRANTS BOLLARDS
- BATTERY CORNERS BOLLARDS
- POST INDICATOR VALVE
- 60m RADIUS PROTECTION
- FLOW DIRECTION PORPOSED GRADE
- PROPOSED CULVERT
- TREE LINE
- CULTIVATED AREA
- ACCES ROAD
- PROPOSED INSULATING STONE SURFACE AREA
- PROPOSED GRAVEL SURFACE AREA
- PROPOSED GRADE — EL.: 90.62
- EXISTING GRADE ELEVATION — 91.0
- BATTERY/MVT GROUP
- AUXILLARY TRANSFORMER
- WET POND
- EXISITING POLE
- MONUMENT
- LANDSCAPING

NOTES:

1. COORDINATES SYSTEM MTM_NAD83 (CSRS)_ZONE 9_(CGVD28)
2. THIS SITE PLAN HAS BEEN BASED ON THE SURVEYORS TOPOGRAPHY SKETCH PREPARED BY TULLOCH GEOMATICS INC. DATED MARCH 12, 2025
3. THE VEHICLE USED TO PERFORM THE SIMULATION IS PUMPER FIRE TRUCK
   OVERALL LENGTH= 12.192m
   OVERALL WIDTH= 2.489m
   COUNTER-STEERING DELAY= 5sec
   MAXIMUM WHEEL ANGLE 45.00°
4. LOT ADDRESS: 4186 WILLIAM MCEWEN DR, OTTAWA
5. REFER TO LANDSCAPE PLAN FOR ALL PROPOSED PLANTINGS

FOR PERMITTING
NOT TO BE USED FOR CONSTRUCTION

SCALE 1:750 — 12.5 0 25 50 75 m

DRAWING No.	DESCRIPTION	REV	DESCRIPTION	PREPARED BY	CHECKED BY	DATE
		AE	FOR PERMITTING	B. THOMAS	V. BRUNELLE P. Eng, P.E.O No. 100617887	2025-09-02
25286.00	TRAIL ROAD INITIAL NOISE CONROL OPTIONS AERCOUSTICS	AD	FOR PERMITTING	B. THOMAS	V. BRUNELLE P. Eng, P.E.O No. 100617887	2025-08-27
241437	TOPOGRAPHIC PLAN OF SURVEY	AC	FOR PERMITTING	B. THOMAS	V. BRUNELLE P. Eng, P.E.O No. 100617887	2025-07-24
SURFACE LIDAR	LIDAR DTM OTTAWA-GATINEAU 2019-20 PACKAGE M	AB	FOR PERMITTING	B. THOMAS	V. BRUNELLE P. Eng, P.E.O No. 100617887	2025-05-13
7154024300000-47-D20-0001-02	TRAIL BESS - 150 MW - 230 kV - 34.5 kV SUBSTATION	AA	FOR COMMENTS	B. THOMAS	V. BRUNELLE P. Eng, P.E.O No. 100617887	2025-05-02

REFERENCE DRAWINGS — REVISIONS

SEAL:

CLIENT: Evolugen by Brookfield Renewable

PROJECT: TRAIL ROAD BESS

TITLE: CIVIL BESS SITE SITE PLAN

DESIGNED BY:	DRAFTED BY:
B. THOMAS	A. MENESES
PREPARED BY:	CHECKED BY:
B. THOMAS	V. BRUNELLE P. Eng, P.E.O No. 100617887
SCALE: 1:750	DATE: 2025-04-24

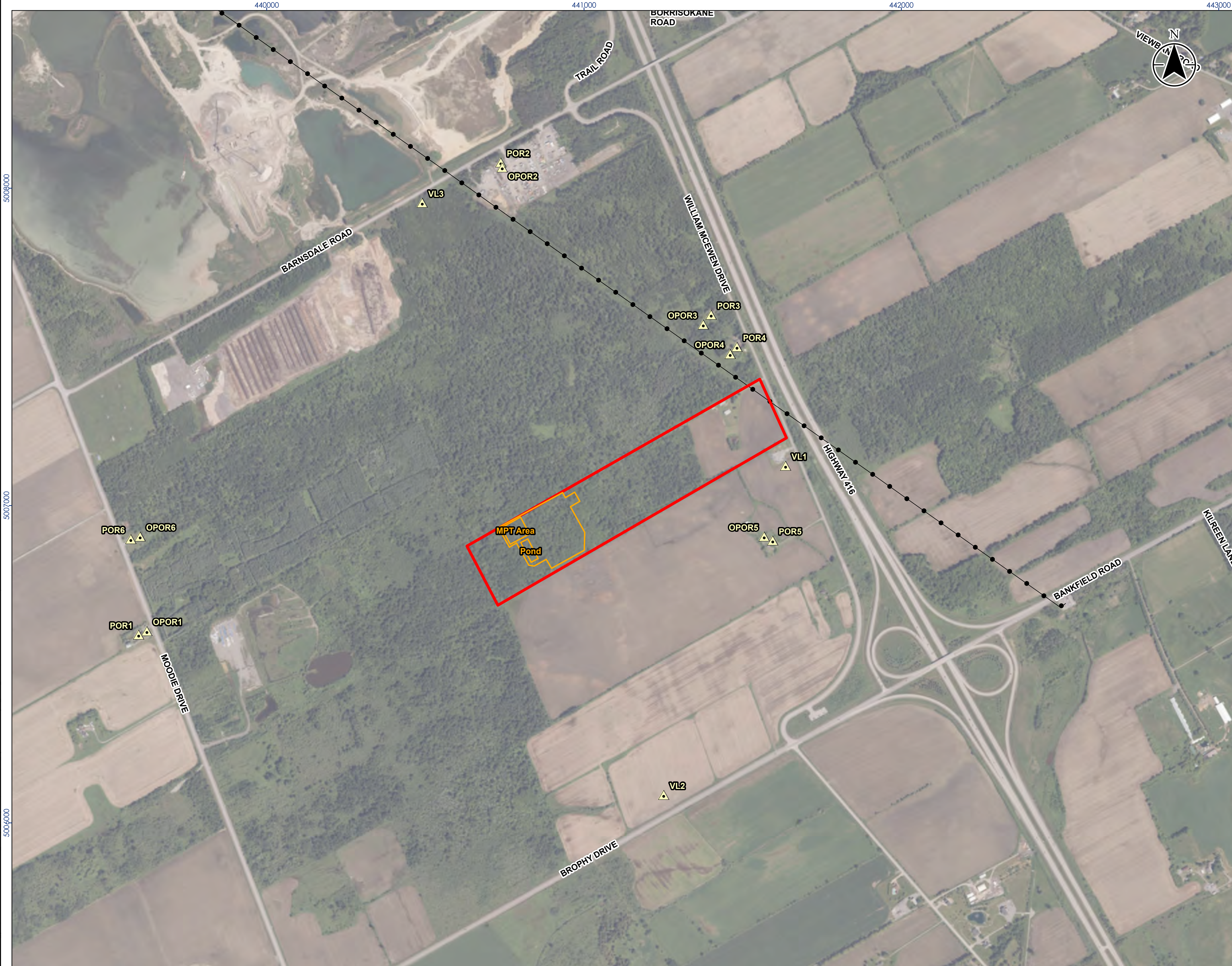
DRAWING No.: 7154024-200000-41-D20-0002 | SHEET: 01 | SIZE: A1 | REV.: AE

0 1 2 3 4 5 6 7 8 9 10 cm

BY:MENESES, ANDRES
PRINTED:2025-09-02 11:28:27

G:\7154\024\40_ING_ENG\41_CIVIL\AMJN PROGRESS\7154024-200000-41-D20-0002@0003_SURFACES AND MEASURES.DWG

Appendix B Figures



Stantec

Legend

- Point of Reception
- Existing Hydro Line
- Facility Property Boundary
- Project Development Area (Approximate)

0 150 300 m

1:12,500 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
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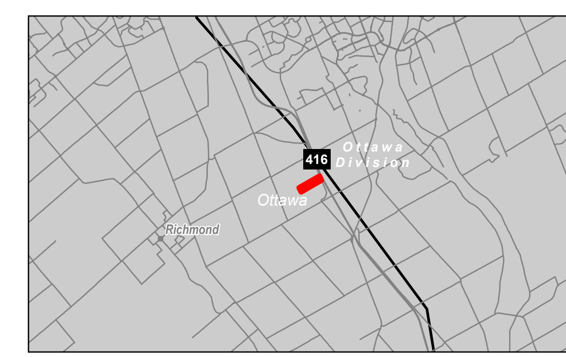

Project Location
City of Ottawa

160930480 REV3
Prepared by BF on 2025-09-29
Technical Review by AW on 2025-09-29

Client/Project
Evolugen
Evolugen Trail Road Battery Energy Storage Project
Acoustic Assessment Report

Figure No.
1

Title
Facility Location and Points of Reception

Stantec

Legend

- Battery Energy Storage System (BESS)
- Emergency Generator
- HVAC Unit
- Main Power Transformers (MPT)
- Medium Voltage Substation
- Modelled Noise Barrier for Main Power Transformer
- Project Development Area (Approximate)
- Facility Property Boundary

0 25 50 m

1:2,000 (At original document size of 11x17)

Notes

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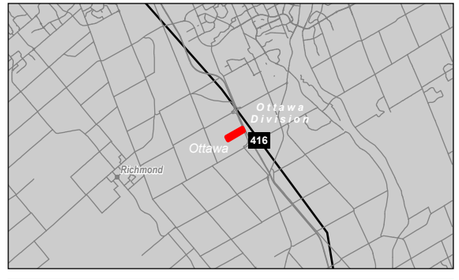


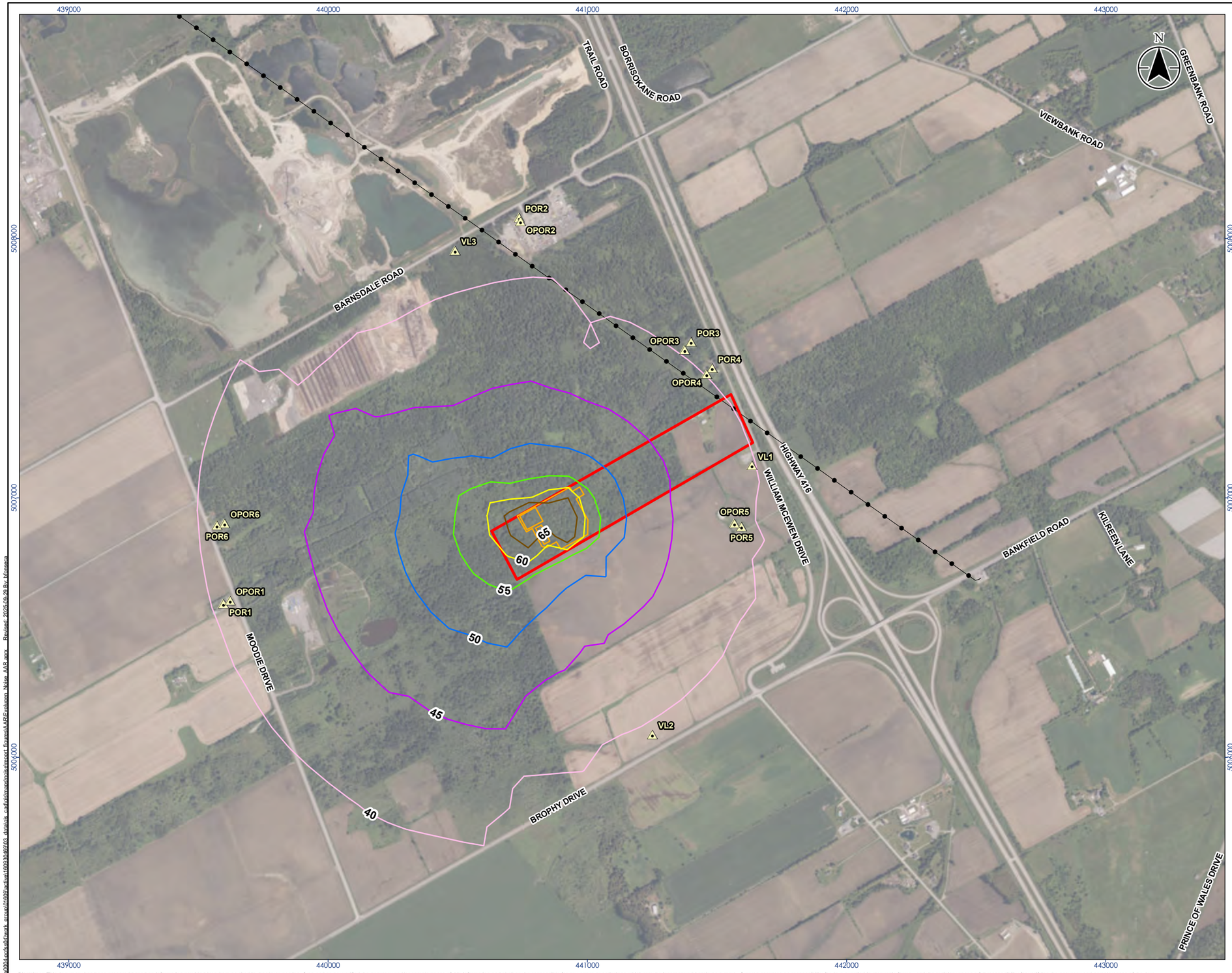
Project Location
City of Ottawa

160930480 REV2
Prepared by BF on 2025-09-29
Technical Review by AW on 2025-09-29

Client/Project
Evolugen
Evolugen Trail Road Battery Energy Storage Project
Acoustic Assessment Report

Figure No.
2

Title
Modelled Noise Sources



Stantec

Legend

- Point of Reception
- Existing Hydro Line
- Facility Property Boundary
- Project Development Area (Approximate)

Equivalent Noise Level Contours, Leq (dBA)

- 40
- 45
- 50
- 55
- 60
- 65

0 150 300 m

1:15,000 (At original document size of 11x17)

Notes

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3. Equivalent Noise Level Contours are shown at 4.5 m above ground level.
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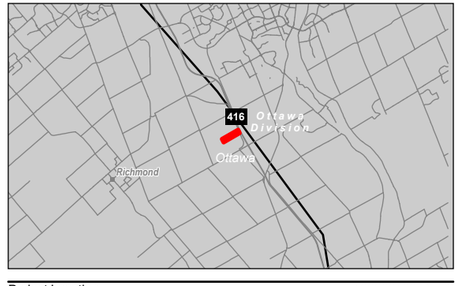

Project Location
City of Ottawa

160930480 REV3
Prepared by BF on 2025-09-29
Technical Review by AW on 2025-09-29

Client/Project
Evolugen
Evolugen Trail Road Battery Energy Storage Project
Acoustic Assessment Report

Figure No.
3

Title
Equivalent Noise Level Contours – Regular Operations

Stantec

Legend

- Point of Reception
- Existing Hydro Line
- Facility Property Boundary
- Project Development Area (Approximate)

Equivalent Noise Level Contours, Leq (dBA)

- 40
- 45
- 50
- 55

0 150 300 m

1:15,000 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
2. Contains information licensed under the Open Government Licence - Ontario, and the Open Government Licence - Canada, accessed 2025.
3. Equivalent Noise Level Contours are shown at 4.5 m above ground level.
4. This figure contains parcel data provided by First Base Solutions®, 2025.
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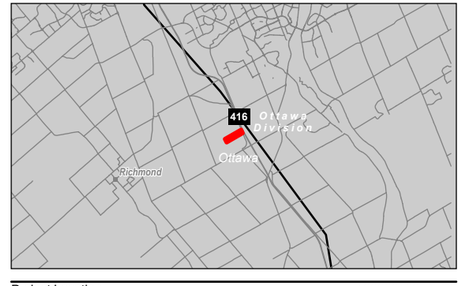


Project Location
City of Ottawa

160930480 REV3
Prepared by BF on 2025-09-29
Technical Review by AW on 2025-09-29

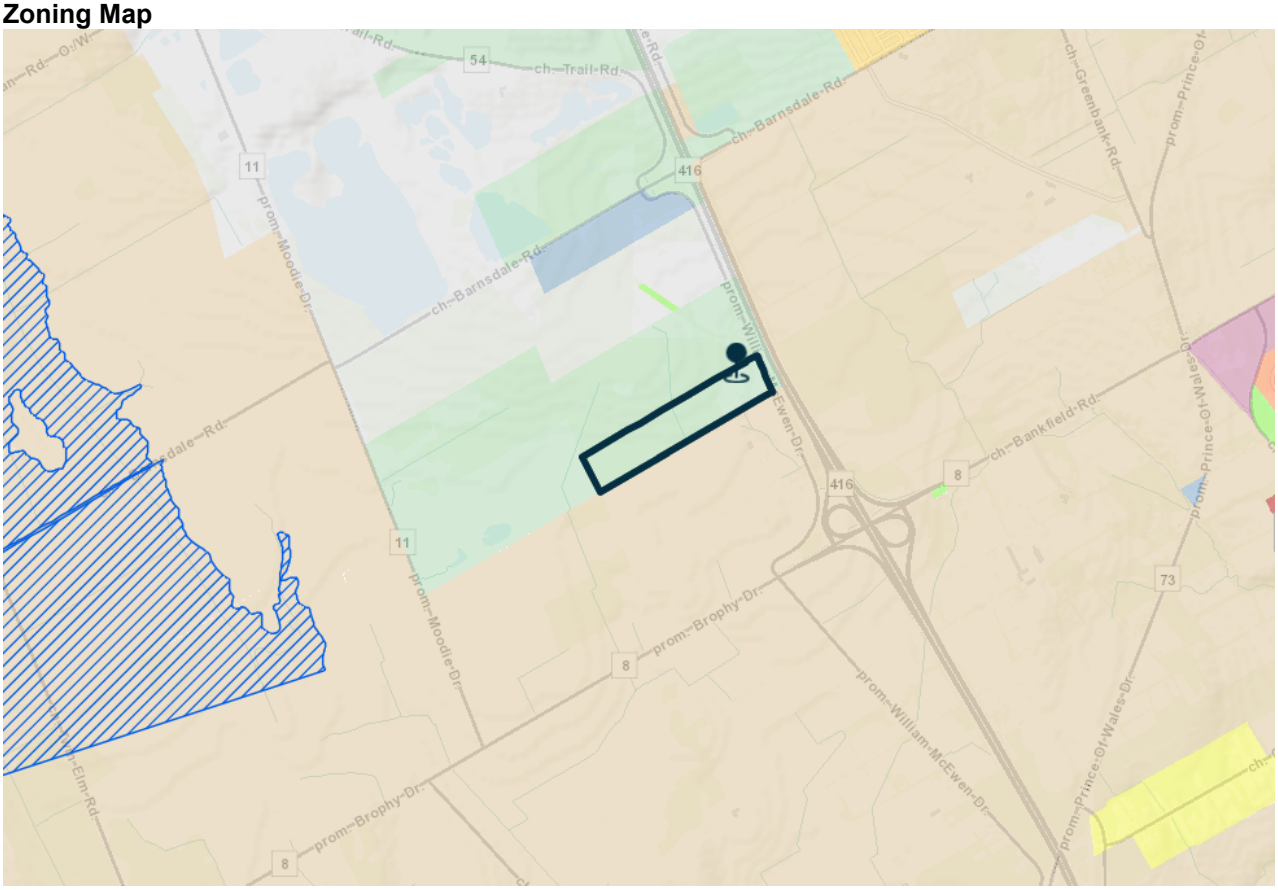
Client/Project
Evolugen
Evolugen Trail Road Battery Energy Storage Project
Acoustic Assessment Report

Figure No.
4

Title
Equivalent Noise Level Contours – Emergency Generator Testing

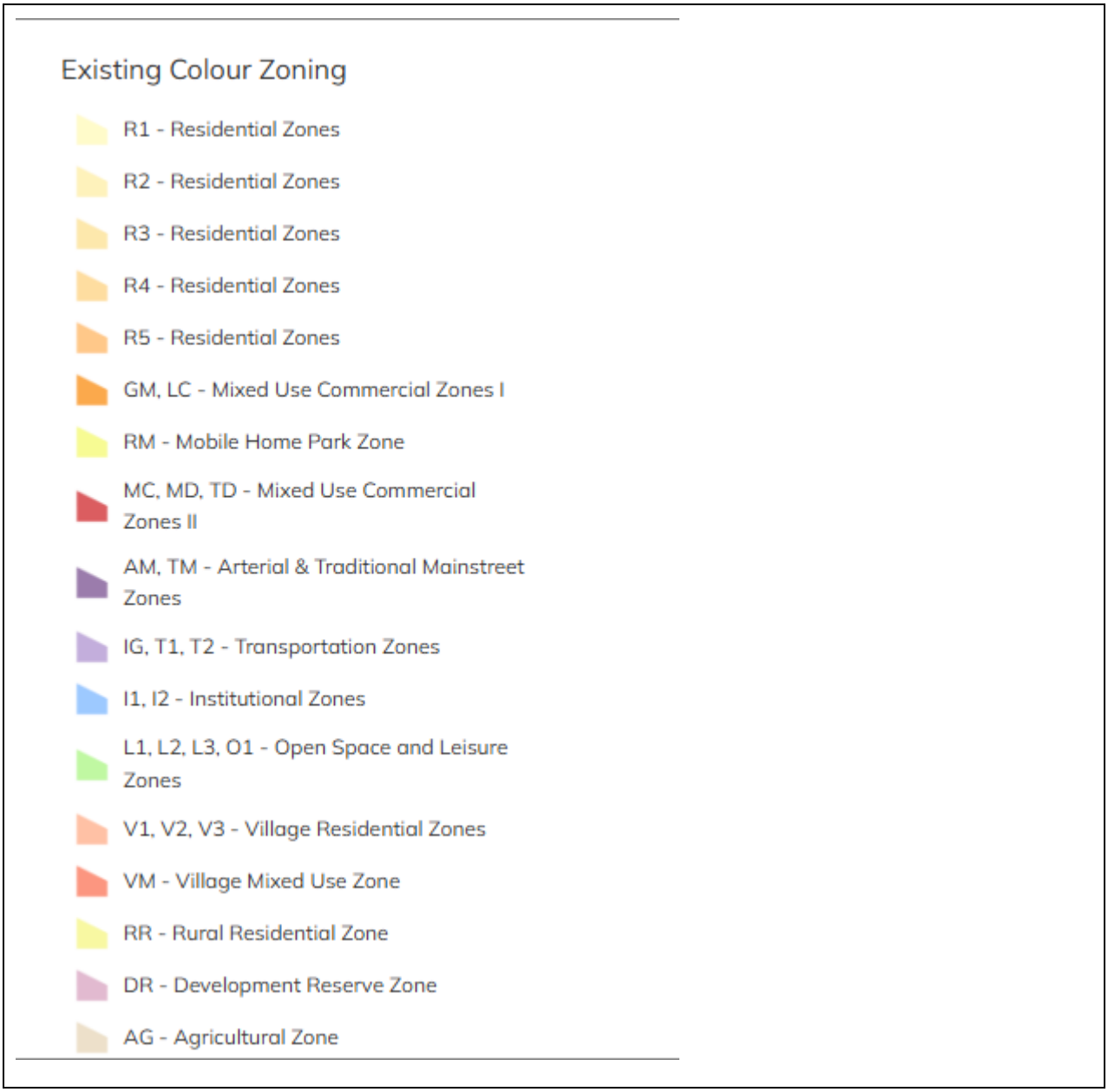
Appendix C Zoning Map

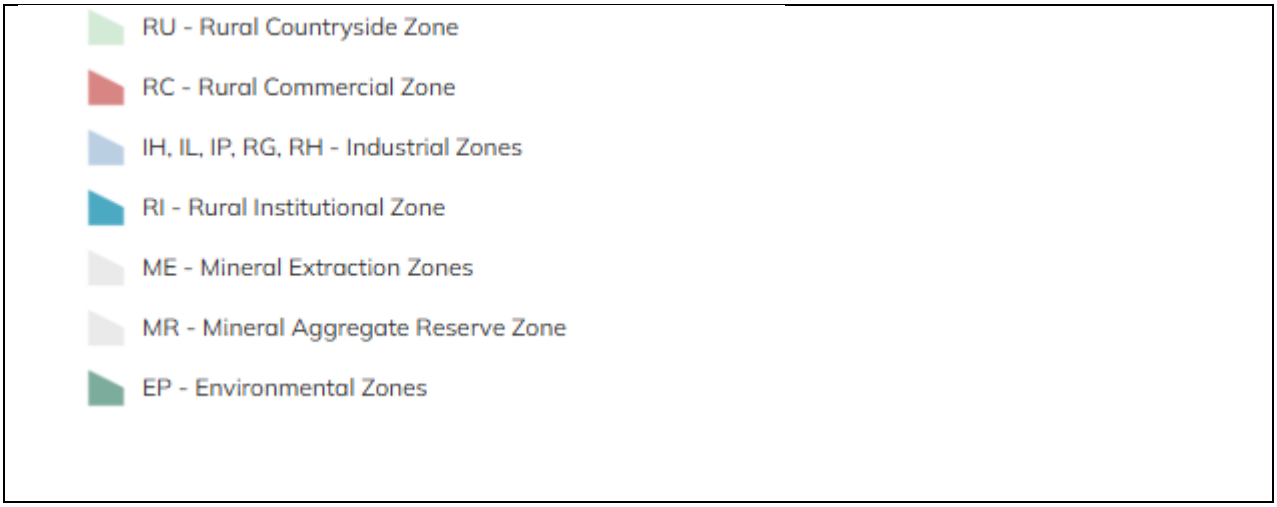
Zoning Map



Source. https://ottawa.ca/en/planning-development-and-construction/maps-and-zoning#section-e6330c65-a9af-42cc-8ce7-f297656c25

Legend


Existing Colour Zoning
R1 - Residential Zones
R2 - Residential Zones
R3 - Residential Zones
R4 - Residential Zones
R5 - Residential Zones
GM, LC - Mixed Use Commercial Zones I
RM - Mobile Home Park Zone
MC, MD, TD - Mixed Use Commercial Zones II
AM, TM - Arterial & Traditional Mainstreet Zones
IG, T1, T2 - Transportation Zones
I1, I2 - Institutional Zones
L1, L2, L3, O1 - Open Space and Leisure Zones
V1, V2, V3 - Village Residential Zones
VM - Village Mixed Use Zone
RR - Rural Residential Zone
DR - Development Reserve Zone
AG - Agricultural Zone


RU - Rural Countryside Zone
RC - Rural Commercial Zone
IH, IL, IP, RG, RH - Industrial Zones
RI - Rural Institutional Zone
ME - Mineral Extraction Zones
MR - Mineral Aggregate Reserve Zone
EP - Environmental Zones

Appendix D Manufacturer and Spectral Sound Level Data

Table D.1 Sound Power Level Summary

Source Name	ID	Sound Power Level Octave Band Spectrum (dB)									Overall		Sound Data Reference
		31.5	63	125	250	500	1000	2000	4000	8000	dBA	dB	
Sungrow PowerTitan 2.0 35 deg 80% Power, NR Kit	BESS	90	85	81	75	74	77	70	66	61	79	92	OA,1/1: Manufacturer
Sungrow MVS5140 Medium Voltage Substation	MVT	83	85	85	81	77	73	70	64	55	79	90	OA,1/1: Manufacturer
175 MVA /230kV/ONAF2 Transformer 8m x 6m x 4.6m	HVT	107	113	115	110	110	104	99	94	87	110	119	OA:CSA88-16, IEEE 2015 1/1: Stevens 2010
Rooftop HVAC Unit - 30 Ton, Lennox LCH 360 H	HVAC	-	106	100	94	93	90	84	79	73	95	108	OA,1/1: Manufacturer
Emergency Generator	Gen	103	103	102	101	98	92	90	87	81	100	109	OA: Assumed 75 dBA at 7 m, 1/1 Stantec Database

SUNGROW
Clean power for all

Noise Test Report

PowerTitan2.0 (4H, HX)

V 1

1 Introduction

This document describes noise test result of PowerTitan2.0 (4H, HX).

2 Noise Test

2.1 Test Environment

(1) Installation conditions: Open ground without reflecting planes.

(2) Simulated ambient temperature: -30℃~45℃(Rated power)

(3) Ambient humidity: 52%RH

(4) Positions of sound level microphones：

Sensor location in sound power level test (test distance d=1.5m, number of measuring points N=37)

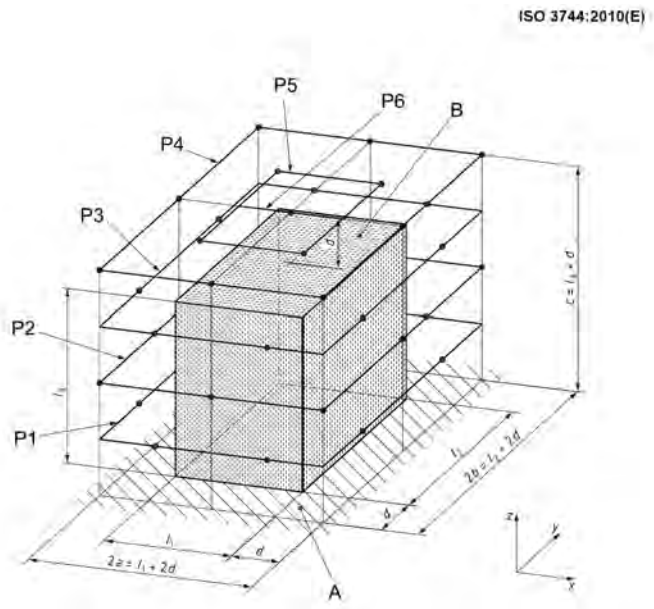


Fig. 1 Positions of Sound Power Level Microphones

Sensor location in sound pressure level test (test distance d=1m, noise on the front, rear, left, right, and top of the product are tested)

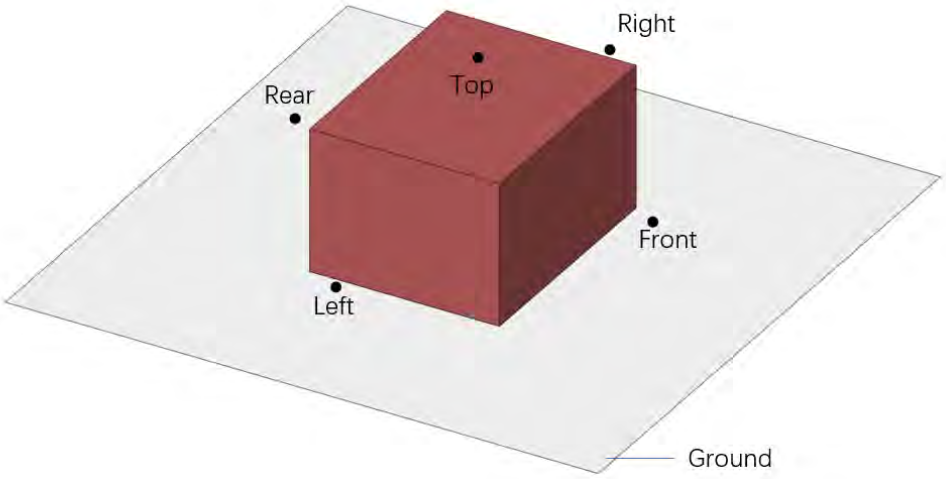


Fig. 2 Positions of Sound Pressure Level Microphones

(5) On-site test environment：

Fig. 3 Test Environment

(6) Background noise: 52.89 dBA

2.2 Test Standards

ISO 3744:2010 *Acoustics - Determination of sound power levels and sound energy*

levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane

ISO 11201 *Acoustics——Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections.*

2.3 Test Equipment:

Tab. 1 Test Equipment:

Equipment Preparation	Manufacturing Plant	Model	No.	Approved on	Effective Date
Simcenter 12-input Handheld Data Acquisition System	Siemens Industrial Software (Beijing) Co., Ltd.	SCADAS XS	SC-XS12-ACL	2023-09-14	2024-09-13
Acoustic calibrator	PCB	Larson Davis CAL200	21799	2023-10-30	2024-10-29

2.4 Test Condition

Tab. 2 Test Condition

No.	Working Conditions
1	0.25C_45℃ Ambient Temperature_100% Power
2	0.25C_45℃ Ambient Temperature_80% Power
3	0.25C_45℃ Ambient Temperature_50% Power
4	0.25C_35℃ Ambient Temperature_100% Power
5	0.25C_35℃ Ambient Temperature_80% Power
6	0.25C_35℃ Ambient Temperature_50% Power
7	0.25C_30℃ Ambient Temperature_100% Power
8	0.25C_30℃ Ambient Temperature_80% Power

9	0.25C_30℃ Ambient Temperature_50% Power
10	0.25C_≤25℃ Ambient Temperature_100% Power
11	0.25C_≤25℃ Ambient Temperature_80% Power
12	0.25C_≤25℃ Ambient Temperature_50% Power

2.5 Test Result and Conclusion

2.5.1 Sound Power Level Test Result

Tab. 3 Sound Power Level Test Result

Working Conditions	Sound Power Level/dBA	Extended measurement uncertainty U/dB
0.25C_45℃ Ambient Temperature_100% Power	84.08	2.9
0.25C_45℃ Ambient Temperature_80% Power	84.08	2.9
0.25C_45℃ Ambient Temperature_50% Power	78.86	2.9
0.25C_35℃ Ambient Temperature_100% Power	79.32	2.9
0.25C_35℃ Ambient Temperature_80% Power	79.32	2.9
0.25C_35℃ Ambient Temperature_50% Power	77.23	2.9
0.25C_30℃ Ambient Temperature_100% Power	79.32	2.9
0.25C_30℃ Ambient Temperature_80% Power	79.32	2.9
0.25C_30℃ Ambient Temperature_50% Power	77.23	2.9
0.25C_≤25℃ Ambient	79.32	2.9

Temperature_100% Power		
0.25C_≤25℃ Ambient Temperature_80% Power	79.32	2.9
0.25C_≤25℃ Ambient Temperature_50% Power	77.23	2.9

2.5.2 Sound Pressure Level Test Result

Tab. 4 Maximum Sound Pressure Level Test Results of Positions 1m Away from the Surface

Working Conditions	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
0.25C_45℃ Ambient Temperature_100% Power	58.19	59.08	57.97	66.54	72.87
0.25C_45℃ Ambient Temperature_80% Power	58.19	59.08	57.97	66.54	72.87
0.25C_45℃ Ambient Temperature_50% Power	58.19	55.85	57.11	65.95	64.06
0.25C_35℃ Ambient Temperature_100% Power	57.41	56.34	56.52	65.71	65.66
0.25C_35℃ Ambient Temperature_80% Power	58.34	56.77	58.16	66.34	65.23
0.25C_35℃ Ambient Temperature_50% Power	56.98	54.21	55.69	64.45	57.49
0.25C_30℃ Ambient Temperature_100% Power	57.41	56.34	56.52	65.71	65.66
0.25C_30℃ Ambient Temperature_80% Power	58.34	56.77	58.16	66.34	65.23
0.25C_30℃ Ambient Temperature_50% Power	56.98	54.21	55.69	64.45	57.49
0.25C_≤25℃ Ambient Temperature_100% Power	57.41	56.34	56.52	65.71	65.66

0.25C_≤25℃ Ambient Temperature_80% Power	58.34	56.77	58.16	66.34	65.23
0.25C_≤25℃ Ambient Temperature_50% Power	56.98	54.21	55.69	64.45	57.49

Appendix: Sound Power Level 1/3-Octave Spectrum

Tab. 5 Sound Power Level 1/3-Octave Spectrum (0.25C_45℃_100% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	50.33
31.5	51.52
40	56.46
50	57.59
63	60.40
80	60.48
100	59.55
125	62.82
160	66.06
200	67.00
250	66.31
315	68.80
400	70.19
500	71.60
630	73.60
800	76.22
1000	77.27
1250	73.75
1600	73.11
2000	71.58
2500	69.75

3150	68.09
4000	66.51
5000	64.19
6300	62.43
8000	61.07
10000	58.65
12500	54.86
16000	51.51
20000	47.38

Tab. 6 Sound Power Level 1/3-Octave Spectrum (0.25C_45℃_80% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	50.33
31.5	51.52
40	56.46
50	57.59
63	60.40
80	60.48
100	59.55
125	62.82
160	66.06
200	67.00
250	66.31
315	68.80
400	70.19
500	71.60
630	73.60
800	76.22
1000	77.27

1250	73.75
1600	73.11
2000	71.58
2500	69.75
3150	68.09
4000	66.51
5000	64.19
6300	62.43
8000	61.07
10000	58.65
12500	54.86
16000	51.51
20000	47.38

Tab. 7 Sound Power Level 1/3-Octave Spectrum (0.25C_45℃_50% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	40.75
31.5	44.25
40	48.95
50	51.40
63	51.31
80	53.07
100	58.76
125	53.91
160	59.62
200	60.56
250	60.38
315	61.38
400	62.46

500	66.07
630	67.51
800	69.68
1000	74.10
1250	68.51
1600	67.83
2000	65.92
2500	64.03
3150	62.42
4000	60.90
5000	58.86
6300	56.91
8000	54.62
10000	51.42
12500	49.12
16000	48.21
20000	45.71

Tab. 8 Sound Power Level 1/3-Octave Spectrum (0.25C_35℃_100% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	40.02
31.5	43.12
40	44.87
50	50.71
63	50.72
80	51.21
100	61.04
125	54.45
160	59.21

200	61.68
250	60.95
315	61.75
400	63.50
500	66.75
630	68.40
800	69.97
1000	74.25
1250	69.05
1600	68.28
2000	66.37
2500	64.70
3150	63.44
4000	61.34
5000	59.75
6300	57.90
8000	55.77
10000	52.51
12500	49.67
16000	48.75
20000	46.11

Tab. 9 Sound Power Level 1/3-Octave Spectrum (0.25C_35℃_80% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	42.66
31.5	44.56
40	46.73
50	51.95
63	53.44

80	51.78
100	60.22
125	54.71
160	59.17
200	61.15
250	61.21
315	62.01
400	63.60
500	66.61
630	68.15
800	69.98
1000	74.28
1250	68.99
1600	68.17
2000	66.27
2500	64.57
3150	65.02
4000	61.67
5000	59.32
6300	57.42
8000	55.21
10000	52.06
12500	49.46
16000	48.52
20000	45.91

Tab. 10 Sound Power Level 1/3-Octave Spectrum (0.25C_35℃_50% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA

25	35.55
31.5	38.12
40	43.13
50	46.97
63	49.46
80	49.45
100	51.79
125	51.78
160	57.58
200	58.49
250	58.14
315	58.39
400	59.23
500	63.13
630	64.64
800	68.19
1000	73.20
1250	66.89
1600	66.20
2000	64.05
2500	61.94
3150	61.46
4000	58.27
5000	56.87
6300	54.38
8000	51.76
10000	49.58
12500	48.14

16000	47.21
20000	45.32

Tab. 11 Sound Power Level 1/3-Octave Spectrum (0.25C_30℃_100% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	40.02
31.5	43.12
40	44.87
50	50.71
63	50.72
80	51.21
100	61.04
125	54.45
160	59.21
200	61.68
250	60.95
315	61.75
400	63.50
500	66.75
630	68.40
800	69.97
1000	74.25
1250	69.05
1600	68.28
2000	66.37
2500	64.70
3150	63.44
4000	61.34
5000	59.75

6300	57.90
8000	55.77
10000	52.51
12500	49.67
16000	48.75
20000	46.11

Tab. 12 Sound Power Level 1/3-Octave Spectrum (0.25C_30℃_80% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	42.66
31.5	44.56
40	46.73
50	51.95
63	53.44
80	51.78
100	60.22
125	54.71
160	59.17
200	61.15
250	61.21
315	62.01
400	63.60
500	66.61
630	68.15
800	69.98
1000	74.28
1250	68.99
1600	68.17
2000	66.27

2500	64.57
3150	65.02
4000	61.67
5000	59.32
6300	57.42
8000	55.21
10000	52.06
12500	49.46
16000	48.52
20000	45.91

Tab. 13 Sound Power Level 1/3-Octave Spectrum (0.25C_30℃_50% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	35.55
31.5	38.12
40	43.13
50	46.97
63	49.46
80	49.45
100	51.79
125	51.78
160	57.58
200	58.49
250	58.14
315	58.39
400	59.23
500	63.13
630	64.64
800	68.19

1000	73.20
1250	66.89
1600	66.20
2000	64.05
2500	61.94
3150	61.46
4000	58.27
5000	56.87
6300	54.38
8000	51.76
10000	49.58
12500	48.14
16000	47.21
20000	45.32

Tab. 14 Sound Power Level 1/3-Octave Spectrum (0.25C_≤25℃_100% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	40.02
31.5	43.12
40	44.87
50	50.71
63	50.72
80	51.21
100	61.04
125	54.45
160	59.21
200	61.68
250	60.95
315	61.75

400	63.50
500	66.75
630	68.40
800	69.97
1000	74.25
1250	69.05
1600	68.28
2000	66.37
2500	64.70
3150	63.44
4000	61.34
5000	59.75
6300	57.90
8000	55.77
10000	52.51
12500	49.67
16000	48.75
20000	46.11

Tab. 15 Sound Power Level 1/3-Octave Spectrum (0.25C_≤25℃_80% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	42.66
31.5	44.56
40	46.73
50	51.95
63	53.44
80	51.78
100	60.22
125	54.71

160	59.17
200	61.15
250	61.21
315	62.01
400	63.60
500	66.61
630	68.15
800	69.98
1000	74.28
1250	68.99
1600	68.17
2000	66.27
2500	64.57
3150	65.02
4000	61.67
5000	59.32
6300	57.42
8000	55.21
10000	52.06
12500	49.46
16000	48.52
20000	45.91

Tab. 16 Sound Power Level 1/3-Octave Spectrum (0.25C_≤25℃_50% Power)

1/3-Octave (Hz)	Sound power levelL_{WA}, dBA
25	35.55
31.5	38.12
40	43.13
50	46.97

63	49.46
80	49.45
100	51.79
125	51.78
160	57.58
200	58.49
250	58.14
315	58.39
400	59.23
500	63.13
630	64.64
800	68.19
1000	73.20
1250	66.89
1600	66.20
2000	64.05
2500	61.94
3150	61.46
4000	58.27
5000	56.87
6300	54.38
8000	51.76
10000	49.58
12500	48.14
16000	47.21
20000	45.32

Appendix: Sound Pressure Level 1/3-Octave Spectrum

Tab. 17 Sound Pressure Level 1/3-Octave Spectrum(0.25C_45℃_100% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	16.28	16.94	15.44	16.85	32.92
31.5	20.61	24.81	20.49	22.26	36.46
40	31.05	29.59	32.19	33.78	37.90
50	35.16	33.55	32.25	34.33	39.58
63	36.45	33.61	34.93	36.80	47.61
80	35.77	33.67	33.52	38.47	46.23
100	35.21	35.25	36.51	39.02	46.22
125	38.19	40.59	42.38	44.06	53.73
160	41.46	41.33	39.25	43.22	53.90
200	40.86	41.66	41.86	46.43	53.07
250	41.14	43.78	41.61	46.82	52.13
315	40.47	44.60	41.75	46.80	56.93
400	41.27	45.86	41.66	46.41	58.88
500	42.49	47.83	43.94	50.09	60.24
630	44.80	47.32	46.03	52.96	63.59
800	49.68	48.76	48.20	57.07	65.11
1000	52.19	50.71	50.66	64.38	63.15
1250	49.27	50.08	49.34	54.14	63.07
1600	48.08	49.86	48.82	51.75	62.98
2000	46.41	48.11	46.59	50.81	60.59
2500	44.67	45.65	44.17	48.54	59.32
3150	42.41	44.02	42.40	46.33	58.61
4000	40.67	41.84	40.43	43.82	57.02
5000	38.95	38.44	38.64	42.91	55.13
6300	36.13	35.93	37.18	39.36	55.20
8000	32.83	35.86	35.04	36.80	54.25
10000	29.17	30.40	30.51	32.69	52.83

12500	26.84	27.70	27.75	29.45	48.38
16000	25.48	27.95	25.47	26.86	43.31
20000	24.96	31.40	23.82	24.05	35.87

Tab. 18 Sound Pressure Level 1/3-Octave Spectrum(0.25C_45℃_80% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	16.28	16.94	15.44	16.85	32.92
31.5	20.61	24.81	20.49	22.26	36.46
40	31.05	29.59	32.19	33.78	37.90
50	35.16	33.55	32.25	34.33	39.58
63	36.45	33.61	34.93	36.80	47.61
80	35.77	33.67	33.52	38.47	46.23
100	35.21	35.25	36.51	39.02	46.22
125	38.19	40.59	42.38	44.06	53.73
160	41.46	41.33	39.25	43.22	53.90
200	40.86	41.66	41.86	46.43	53.07
250	41.14	43.78	41.61	46.82	52.13
315	40.47	44.60	41.75	46.80	56.93
400	41.27	45.86	41.66	46.41	58.88
500	42.49	47.83	43.94	50.09	60.24
630	44.80	47.32	46.03	52.96	63.59
800	49.68	48.76	48.20	57.07	65.11
1000	52.19	50.71	50.66	64.38	63.15
1250	49.27	50.08	49.34	54.14	63.07
1600	48.08	49.86	48.82	51.75	62.98
2000	46.41	48.11	46.59	50.81	60.59
2500	44.67	45.65	44.17	48.54	59.32
3150	42.41	44.02	42.40	46.33	58.61
4000	40.67	41.84	40.43	43.82	57.02

5000	38.95	38.44	38.64	42.91	55.13
6300	36.13	35.93	37.18	39.36	55.20
8000	32.83	35.86	35.04	36.80	54.25
10000	29.17	30.40	30.51	32.69	52.83
12500	26.84	27.70	27.75	29.45	48.38
16000	25.48	27.95	25.47	26.86	43.31
20000	24.96	31.40	23.82	24.05	35.87

Tab. 19 Sound Pressure Level 1/3-Octave Spectrum(0.25C_45℃_50% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	18.05	18.72	16.14	16.91	34.10
31.5	23.95	25.13	23.02	22.77	34.18
40	29.83	29.50	29.61	30.76	34.05
50	33.16	31.97	32.73	34.20	37.48
63	35.06	32.78	32.42	34.55	36.79
80	34.97	33.32	32.24	37.16	37.37
100	35.77	34.24	35.38	38.07	46.64
125	36.82	33.35	32.96	37.65	39.40
160	40.50	36.62	36.07	39.64	41.78
200	39.51	38.61	39.78	44.14	43.60
250	39.05	38.19	37.55	42.74	43.67
315	39.14	37.10	38.22	43.15	48.82
400	39.27	39.41	39.48	43.16	50.60
500	41.97	41.95	41.45	48.01	52.60
630	43.35	42.87	44.43	50.88	54.23
800	49.35	44.85	45.90	55.63	54.90
1000	51.91	48.95	49.34	64.19	54.79
1250	48.39	47.70	47.80	52.42	54.30
1600	47.31	47.38	47.56	50.26	53.62

2000	46.38	45.44	46.01	49.85	51.33
2500	45.26	42.38	44.77	48.61	50.42
3150	44.69	41.01	44.46	47.34	50.31
4000	45.07	39.18	44.70	47.01	49.90
5000	44.37	36.35	44.15	46.49	49.11
6300	42.14	33.78	42.04	43.41	48.56
8000	38.93	30.92	39.89	40.41	45.60
10000	34.61	28.31	34.87	35.94	41.57
12500	29.60	26.66	29.74	31.40	36.22
16000	25.90	26.22	25.76	26.89	33.57
20000	23.83	24.02	23.34	23.16	25.67

Tab. 20 Sound Pressure Level 1/3-Octave Spectrum(0.25C_35℃_100% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	16.49	17.13	15.58	17.51	30.65
31.5	20.22	19.80	19.53	20.68	31.46
40	27.52	25.55	28.39	29.72	34.51
50	31.65	28.64	31.48	32.22	37.64
63	35.23	33.19	32.32	36.33	35.58
80	34.22	32.57	31.45	36.34	35.58
100	36.45	33.28	36.91	38.34	50.96
125	36.04	32.76	32.87	35.88	41.47
160	40.37	36.79	35.45	40.03	43.93
200	42.34	38.66	40.64	42.07	45.48
250	39.40	38.57	37.18	44.12	45.27
315	38.94	38.03	37.38	41.93	48.67
400	40.30	40.80	39.83	43.90	52.72
500	42.96	43.33	42.08	48.21	53.91
630	43.57	43.80	44.65	51.37	56.58

800	49.26	46.66	47.81	55.81	56.90
1000	51.29	50.09	49.60	63.91	56.21
1250	48.52	47.92	47.65	52.75	56.02
1600	47.15	47.34	47.15	50.33	55.11
2000	45.33	45.05	45.20	50.10	52.75
2500	43.50	42.02	42.84	47.87	51.74
3150	41.25	40.41	41.59	45.75	51.30
4000	39.78	38.27	40.25	43.71	50.29
5000	38.69	35.22	38.89	43.41	49.28
6300	35.67	32.64	36.27	39.58	49.41
8000	32.55	30.16	34.01	36.48	47.18
10000	29.23	27.95	30.46	31.59	43.76
12500	26.84	26.60	27.57	28.44	38.37
16000	25.42	26.19	25.38	26.01	35.05
20000	23.84	24.09	23.32	23.09	27.11

Tab. 21 Sound Pressure Level 1/3-Octave Spectrum(0.25C_35℃_80% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	17.68	18.28	17.06	16.58	31.18
31.5	20.36	22.66	21.61	20.97	32.28
40	28.50	27.88	29.22	30.15	33.08
50	32.28	29.87	30.78	33.13	35.88
63	34.60	31.49	32.84	34.42	34.96
80	34.69	33.59	33.16	37.49	35.11
100	35.84	34.51	35.78	37.58	48.93
125	37.55	33.47	32.91	37.80	39.72
160	41.39	36.68	36.48	39.98	43.18
200	41.81	39.14	39.94	43.00	44.69
250	39.56	38.86	36.94	43.54	44.52

315	39.97	37.91	38.84	42.65	48.36
400	40.87	40.61	40.42	43.78	52.48
500	42.37	43.63	43.71	48.53	53.73
630	44.91	43.82	45.75	51.25	55.76
800	50.17	46.43	48.04	56.00	56.63
1000	51.91	49.67	49.90	64.63	55.53
1250	48.08	47.92	48.38	52.60	55.59
1600	48.12	48.01	48.35	51.29	54.88
2000	45.94	45.76	47.86	50.81	52.30
2500	46.24	45.04	47.42	48.89	51.63
3150	44.16	42.95	46.67	47.51	51.42
4000	43.64	40.99	44.79	45.91	50.20
5000	42.66	39.17	44.77	45.62	49.61
6300	40.26	35.61	41.01	42.08	49.08
8000	36.67	32.20	38.02	38.81	46.78
10000	32.46	28.68	33.15	34.26	42.95
12500	28.34	26.95	29.04	30.21	37.61
16000	25.62	26.32	25.59	26.53	34.63
20000	23.87	24.07	23.28	23.17	26.50

Tab. 22 Sound Pressure Level 1/3-Octave Spectrum(0.25C_35℃_50% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	17.02	15.95	15.41	15.85	17.87
31.5	20.19	21.52	19.45	19.50	21.19
40	29.26	30.06	31.16	30.54	29.14
50	33.14	32.21	32.07	32.35	29.10
63	35.36	31.94	32.45	33.09	32.04
80	34.48	34.14	34.93	36.29	31.27
100	35.24	33.03	34.08	36.57	34.35

125	35.96	32.68	32.35	34.28	33.57
160	39.90	35.83	40.59	38.84	37.56
200	38.05	38.49	40.68	42.37	39.66
250	39.45	37.26	36.45	42.78	39.81
315	39.08	39.01	39.47	41.77	43.63
400	39.22	37.34	39.83	41.62	43.20
500	41.29	38.79	40.89	46.78	44.11
630	42.38	41.04	43.97	50.06	46.21
800	49.08	43.72	45.72	54.79	48.94
1000	51.62	48.44	48.11	62.55	49.34
1250	46.69	45.00	46.22	51.15	48.07
1600	45.27	44.19	45.88	48.79	46.93
2000	45.23	42.53	43.69	49.07	45.47
2500	43.30	40.02	41.80	47.34	44.25
3150	42.33	40.22	42.21	45.22	44.44
4000	40.62	37.71	42.18	44.16	43.05
5000	40.13	34.91	40.38	43.93	41.54
6300	37.54	31.76	37.10	40.50	38.44
8000	33.94	29.16	33.93	37.52	35.37
10000	30.12	27.63	30.54	32.29	31.58
12500	26.59	26.59	27.22	28.42	27.87
16000	24.35	25.66	25.29	25.74	28.95
20000	22.66	24.27	23.36	23.28	23.68

Tab. 23 Sound Pressure Level 1/3-Octave Spectrum(0.25C_30℃_100% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	16.49	17.13	15.58	17.51	30.65
31.5	20.22	19.80	19.53	20.68	31.46
40	27.52	25.55	28.39	29.72	34.51

50	31.65	28.64	31.48	32.22	37.64
63	35.23	33.19	32.32	36.33	35.58
80	34.22	32.57	31.45	36.34	35.58
100	36.45	33.28	36.91	38.34	50.96
125	36.04	32.76	32.87	35.88	41.47
160	40.37	36.79	35.45	40.03	43.93
200	42.34	38.66	40.64	42.07	45.48
250	39.40	38.57	37.18	44.12	45.27
315	38.94	38.03	37.38	41.93	48.67
400	40.30	40.80	39.83	43.90	52.72
500	42.96	43.33	42.08	48.21	53.91
630	43.57	43.80	44.65	51.37	56.58
800	49.26	46.66	47.81	55.81	56.90
1000	51.29	50.09	49.60	63.91	56.21
1250	48.52	47.92	47.65	52.75	56.02
1600	47.15	47.34	47.15	50.33	55.11
2000	45.33	45.05	45.20	50.10	52.75
2500	43.50	42.02	42.84	47.87	51.74
3150	41.25	40.41	41.59	45.75	51.30
4000	39.78	38.27	40.25	43.71	50.29
5000	38.69	35.22	38.89	43.41	49.28
6300	35.67	32.64	36.27	39.58	49.41
8000	32.55	30.16	34.01	36.48	47.18
10000	29.23	27.95	30.46	31.59	43.76
12500	26.84	26.60	27.57	28.44	38.37
16000	25.42	26.19	25.38	26.01	35.05
20000	23.84	24.09	23.32	23.09	27.11

Tab. 24 Sound Pressure Level 1/3-Octave Spectrum(0.25C_30℃_80% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	17.68	18.28	17.06	16.58	31.18
31.5	20.36	22.66	21.61	20.97	32.28
40	28.50	27.88	29.22	30.15	33.08
50	32.28	29.87	30.78	33.13	35.88
63	34.60	31.49	32.84	34.42	34.96
80	34.69	33.59	33.16	37.49	35.11
100	35.84	34.51	35.78	37.58	48.93
125	37.55	33.47	32.91	37.80	39.72
160	41.39	36.68	36.48	39.98	43.18
200	41.81	39.14	39.94	43.00	44.69
250	39.56	38.86	36.94	43.54	44.52
315	39.97	37.91	38.84	42.65	48.36
400	40.87	40.61	40.42	43.78	52.48
500	42.37	43.63	43.71	48.53	53.73
630	44.91	43.82	45.75	51.25	55.76
800	50.17	46.43	48.04	56.00	56.63
1000	51.91	49.67	49.90	64.63	55.53
1250	48.08	47.92	48.38	52.60	55.59
1600	48.12	48.01	48.35	51.29	54.88
2000	45.94	45.76	47.86	50.81	52.30
2500	46.24	45.04	47.42	48.89	51.63
3150	44.16	42.95	46.67	47.51	51.42
4000	43.64	40.99	44.79	45.91	50.20
5000	42.66	39.17	44.77	45.62	49.61
6300	40.26	35.61	41.01	42.08	49.08
8000	36.67	32.20	38.02	38.81	46.78
10000	32.46	28.68	33.15	34.26	42.95

12500	28.34	26.95	29.04	30.21	37.61
16000	25.62	26.32	25.59	26.53	34.63
20000	23.87	24.07	23.28	23.17	26.50

Tab. 25 Sound Pressure Level 1/3-Octave Spectrum(0.25C_30℃_50% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	17.02	15.95	15.41	15.85	17.87
31.5	20.19	21.52	19.45	19.50	21.19
40	29.26	30.06	31.16	30.54	29.14
50	33.14	32.21	32.07	32.35	29.10
63	35.36	31.94	32.45	33.09	32.04
80	34.48	34.14	34.93	36.29	31.27
100	35.24	33.03	34.08	36.57	34.35
125	35.96	32.68	32.35	34.28	33.57
160	39.90	35.83	40.59	38.84	37.56
200	38.05	38.49	40.68	42.37	39.66
250	39.45	37.26	36.45	42.78	39.81
315	39.08	39.01	39.47	41.77	43.63
400	39.22	37.34	39.83	41.62	43.20
500	41.29	38.79	40.89	46.78	44.11
630	42.38	41.04	43.97	50.06	46.21
800	49.08	43.72	45.72	54.79	48.94
1000	51.62	48.44	48.11	62.55	49.34
1250	46.69	45.00	46.22	51.15	48.07
1600	45.27	44.19	45.88	48.79	46.93
2000	45.23	42.53	43.69	49.07	45.47
2500	43.30	40.02	41.80	47.34	44.25
3150	42.33	40.22	42.21	45.22	44.44
4000	40.62	37.71	42.18	44.16	43.05

5000	40.13	34.91	40.38	43.93	41.54
6300	37.54	31.76	37.10	40.50	38.44
8000	33.94	29.16	33.93	37.52	35.37
10000	30.12	27.63	30.54	32.29	31.58
12500	26.59	26.59	27.22	28.42	27.87
16000	24.35	25.66	25.29	25.74	28.95
20000	22.66	24.27	23.36	23.28	23.68

Tab. 26 Sound Pressure Level 1/3-Octave Spectrum(0.25C_≤25℃_100% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	16.49	17.13	15.58	17.51	30.65
31.5	20.22	19.80	19.53	20.68	31.46
40	27.52	25.55	28.39	29.72	34.51
50	31.65	28.64	31.48	32.22	37.64
63	35.23	33.19	32.32	36.33	35.58
80	34.22	32.57	31.45	36.34	35.58
100	36.45	33.28	36.91	38.34	50.96
125	36.04	32.76	32.87	35.88	41.47
160	40.37	36.79	35.45	40.03	43.93
200	42.34	38.66	40.64	42.07	45.48
250	39.40	38.57	37.18	44.12	45.27
315	38.94	38.03	37.38	41.93	48.67
400	40.30	40.80	39.83	43.90	52.72
500	42.96	43.33	42.08	48.21	53.91
630	43.57	43.80	44.65	51.37	56.58
800	49.26	46.66	47.81	55.81	56.90
1000	51.29	50.09	49.60	63.91	56.21
1250	48.52	47.92	47.65	52.75	56.02
1600	47.15	47.34	47.15	50.33	55.11

2000	45.33	45.05	45.20	50.10	52.75
2500	43.50	42.02	42.84	47.87	51.74
3150	41.25	40.41	41.59	45.75	51.30
4000	39.78	38.27	40.25	43.71	50.29
5000	38.69	35.22	38.89	43.41	49.28
6300	35.67	32.64	36.27	39.58	49.41
8000	32.55	30.16	34.01	36.48	47.18
10000	29.23	27.95	30.46	31.59	43.76
12500	26.84	26.60	27.57	28.44	38.37
16000	25.42	26.19	25.38	26.01	35.05
20000	23.84	24.09	23.32	23.09	27.11

Tab. 27 Sound Pressure Level 1/3-Octave Spectrum(0.25C_≤25℃_80% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	17.68	18.28	17.06	16.58	31.18
31.5	20.36	22.66	21.61	20.97	32.28
40	28.50	27.88	29.22	30.15	33.08
50	32.28	29.87	30.78	33.13	35.88
63	34.60	31.49	32.84	34.42	34.96
80	34.69	33.59	33.16	37.49	35.11
100	35.84	34.51	35.78	37.58	48.93
125	37.55	33.47	32.91	37.80	39.72
160	41.39	36.68	36.48	39.98	43.18
200	41.81	39.14	39.94	43.00	44.69
250	39.56	38.86	36.94	43.54	44.52
315	39.97	37.91	38.84	42.65	48.36
400	40.87	40.61	40.42	43.78	52.48
500	42.37	43.63	43.71	48.53	53.73
630	44.91	43.82	45.75	51.25	55.76

800	50.17	46.43	48.04	56.00	56.63
1000	51.91	49.67	49.90	64.63	55.53
1250	48.08	47.92	48.38	52.60	55.59
1600	48.12	48.01	48.35	51.29	54.88
2000	45.94	45.76	47.86	50.81	52.30
2500	46.24	45.04	47.42	48.89	51.63
3150	44.16	42.95	46.67	47.51	51.42
4000	43.64	40.99	44.79	45.91	50.20
5000	42.66	39.17	44.77	45.62	49.61
6300	40.26	35.61	41.01	42.08	49.08
8000	36.67	32.20	38.02	38.81	46.78
10000	32.46	28.68	33.15	34.26	42.95
12500	28.34	26.95	29.04	30.21	37.61
16000	25.62	26.32	25.59	26.53	34.63
20000	23.87	24.07	23.28	23.17	26.50

Tab. 28 Sound Pressure Level 1/3-Octave Spectrum(0.25C_≤25℃_50% Power)

1/3-Octave (Hz)	Right/dBA	Rear/dBA	Left/dBA	Front/dBA	Top/dBA
25	17.02	15.95	15.41	15.85	17.87
31.5	20.19	21.52	19.45	19.50	21.19
40	29.26	30.06	31.16	30.54	29.14
50	33.14	32.21	32.07	32.35	29.10
63	35.36	31.94	32.45	33.09	32.04
80	34.48	34.14	34.93	36.29	31.27
100	35.24	33.03	34.08	36.57	34.35
125	35.96	32.68	32.35	34.28	33.57
160	39.90	35.83	40.59	38.84	37.56
200	38.05	38.49	40.68	42.37	39.66
250	39.45	37.26	36.45	42.78	39.81

315	39.08	39.01	39.47	41.77	43.63
400	39.22	37.34	39.83	41.62	43.20
500	41.29	38.79	40.89	46.78	44.11
630	42.38	41.04	43.97	50.06	46.21
800	49.08	43.72	45.72	54.79	48.94
1000	51.62	48.44	48.11	62.55	49.34
1250	46.69	45.00	46.22	51.15	48.07
1600	45.27	44.19	45.88	48.79	46.93
2000	45.23	42.53	43.69	49.07	45.47
2500	43.30	40.02	41.80	47.34	44.25
3150	42.33	40.22	42.21	45.22	44.44
4000	40.62	37.71	42.18	44.16	43.05
5000	40.13	34.91	40.38	43.93	41.54
6300	37.54	31.76	37.10	40.50	38.44
8000	33.94	29.16	33.93	37.52	35.37
10000	30.12	27.63	30.54	32.29	31.58
12500	26.59	26.59	27.22	28.42	27.87
16000	24.35	25.66	25.29	25.74	28.95
20000	22.66	24.27	23.36	23.28	23.68

Note: In the above noise test, the supplier of the liquid cooling unit is Sanhe Tongfei, and the supplier of the air cooler fan is EBM. If there is a change in the supplier, there may be deviations in the test data.

SUNGROW
Clean power for all

Noise Instructions

MVS5140-LS&MVS5140-LS-US

(with Noise-Relief Cover)

V 1

1 Introduction

This document introduces the noise test results of MVS5140-LS and MVS5140-LS-US.

2 General Information

2.1 Product Information

The MVS5140-LS-US consists of an MV transformer, an SCC (with LV busbar), and a container. The physical image is as follows:

Fig. 1 MVS5140-LS-US Physical Image

The MVS5140-LS consists of an MV transformer, an SCC (with LV busbar), a ring main unit (RMU), and a container. The physical image is as follows:

Fig. 2 MVS5140-LS Physical Image

Based on the product design, the differences between the MVS5140-LS and the MVS5140-LS-US are as follows:

(2) The SCC is the primary noise source for both the MVS5140-LS and the MVS5140-LS-US. The SCC for the two models has the same structural design and fan selection, resulting in identical noise levels.

(1) The MVS5140-LS uses a preassembled substation with a noise level of L_{wA}=63.8 dBA, while the MVS5140-LS-US utilizes a combined transformer with a noise level of L_{wA}=58.64 dBA. The difference in noise levels has minimal impact on the overall noise level of the system.

Conclusion: The overall noise level of the MVS5140-LS is higher than that of the MVS5140-LS-US, thus the test results for the MVS5140-LS can be applied to the MVS5140-LS-US.

3 Noise Test

3.1 Test Environment

- Test environment: Open and flat reflective ground surface

- Ambient temperature: 20 ℃ (atmospheric ambient temperature has no effect on test results)
- Ambient humidity: 50%RH

(1) The positions of sound power level sensors are as follows (test distance d=1.5m, number of measuring points N=37), with reference to ISO3744-Annex C, Figure C.10.

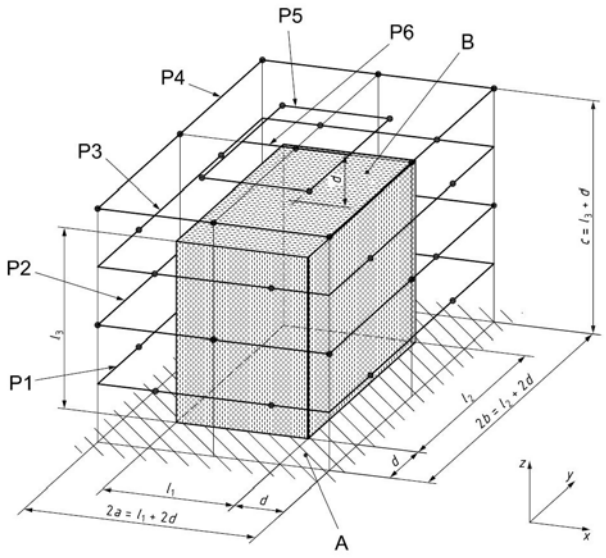


Fig. 3 Positions of Sound Power Level Sensors

(2) Positions of sound pressure level sensors (test distance d=1m, noise on the front, back, left, right, and top of the product are tested).

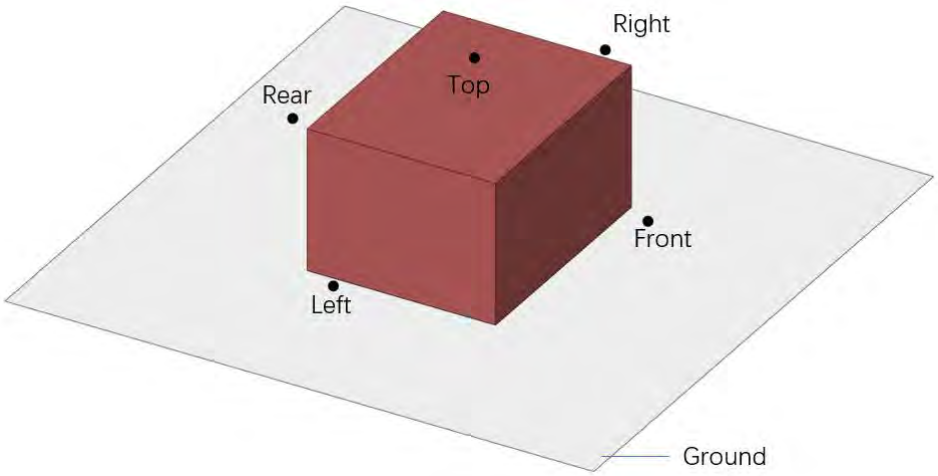


Fig. 4 Positions of Sound Pressure Level Sensors

(3) The on-site test is shown as follows:

Fig. 5 On-Site Test

(4) Background noise level: 57.3 dBA

3.2 Test Basis

ISO 3744:2010 *Acoustics —Determination of sound power levels and sound energy levels of noise sources using sound pressure—Engineering methods for an essentially free field over a reflecting plane.*

ISO 11201:2010 *Acoustics—Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections.*

ISO 11202:2010 *Acoustics—Noise emitted by machinery and equipment—Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections.*

3.3 Test Equipment:

Tab. 1 Test Equipment

Equipment Preparation	Manufacturing Plant	Model	Approved on	Effective Date
Simcenter 12-input Handheld Data Acquisition System	Siemens	SC-XS12-AC	2024-07-11	2025-07-10
Sound Calibrator	B&K	4231	2024-03-20	2025-03-19
Microphone	PCB	378B02	2024-06-18	2025-06-17

Note: The data acquisition system meets the requirements of IEC61260:1995, Class 1, the microphone meets the requirements of IEC61672-1:2002, Class 1, and the sound calibrator meets the requirements of IEC60942:2003, Class 1.

3.4 Test Result

3.4.1 Sound Power Level Test Results

Tab. 2 Sound Power Level Test Results

Working Conditions	Sound Power Level L_{WA}/dBA	Expanded Uncertainty U/dB
Running at full power	79.3	2.4

Note: The sound power level of the MV transformer is 63.8 dBA, which has a negligible impact on the overall sound power level test results and can be disregarded.

3.4.2 Max. Sound Pressure Level of Each Surface (dBA) @ 1m

Tab. 3 Max. Sound Pressure Level of Each Surface (dBA) @ 1m

Working Conditions	Front	Right	Back	Left	Top	Expanded Uncertainty U/dB
Running at full power	54.8	50.6*	66.1	59.3	57.5	2.4

Note: "*" indicates that the background noise does not meet the standard ISO11201 but satisfies ISO11202. The value represents the upper limit of the sound pressure level under this condition (The difference between the average sound pressure level of the overall product and the background noise sound pressure level is less than 3 dBA. According to ISO11202, the correction value is set to -3 dBA).

3.4.3 Supplementary Information

Tab. 4 Sound Power Levels Under 1/3 Octave

1/3 Octave (Hz)	Sound power levelL_{WA}, dBA	1/3 Octave (Hz)	Sound power levelL_{WA}, dBA	1/3 Octave (Hz)	Sound power levelL_{WA}, dBA
25	33.3	**250**	67.4	2500	65.7
31.5	38.7	315	68.2	3150	62.7
40	43.2	400	70.3	**4000**	60.0
50	52.1	**500**	67.0	5000	57.4
63	52.7	630	67.4	6300	51.8
80	56.3	800	67.7	**8000**	48.5
100	60.0	**1000**	67.4	10000	43.6
125	64.7	1250	67.9	12500	39.2
160	67.8	1600	67.6	**16000**	34.6
200	67.5	**2000**	66.8	20000	28.2

Note: The bolded frequency values represent the center frequency of the octave.

Tab. 5 Sound Pressure Rate Levels Under 1/3 Octave

	Front	Right	Back	Left	Top
1/3 Octave (Hz)	**Sound Pressure Level L_{PA}, dBA**				
25	12.3	9.5	14.2	11.5	10.2
31.5	17.9	15.0	21.9	19.5	17.3
40	20.4	20.0	26.1	23.0	19.9
50	25.5	27.0	36.0	30.2	27.4
63	30.0	31.1	35.6	34.6	27.2
80	32.6	33.2	41.1	38.4	31.5
100	33.1	31.7	46.4	36.9	36.5
125	39.0	36.6	50.9	41.3	40.6
160	43.0	38.1	54.1	43.9	46.1
200	43.5	38.0	53.9	46.2	47.7

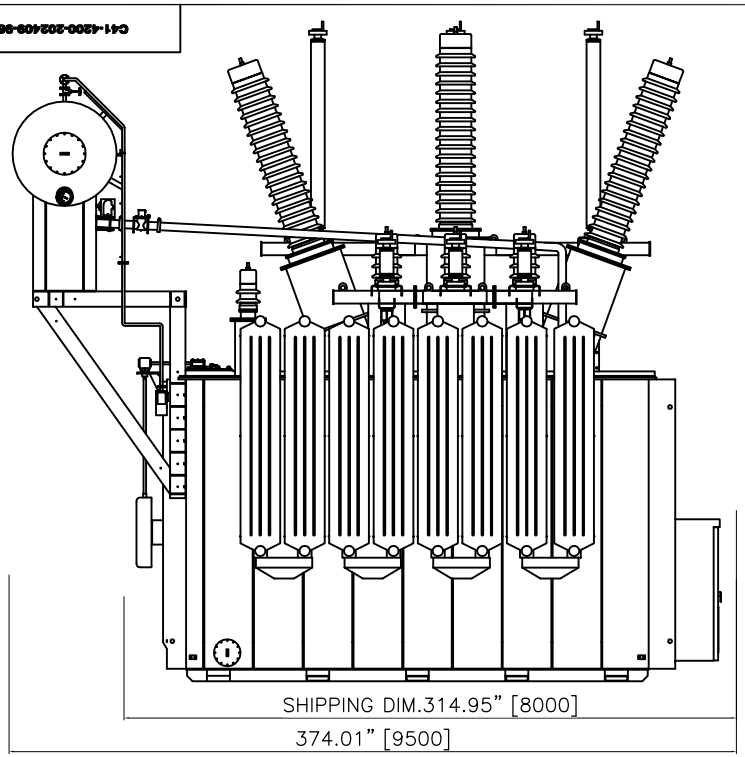
250	44.0	37.2	52.7	44.7	47.4
315	44.0	38.3	54.0	48.1	46.8
400	44.3	40.4	58.9	50.1	46.9
500	45.6	38.9	52.3	50.7	45.1
630	43.6	39.4	52.0	51.0	46.3
800	44.2	40.3	53.8	48.1	46.5
1000	43.1	39.4	54.2	47.2	45.7
1250	42.9	39.8	56.0	46.9	46.2
1600	41.8	39.3	54.7	46.9	44.7
2000	40.3	38.1	53.1	45.2	45.2
2500	38.9	36.2	53.3	44.6	43.2
3150	36.0	34.3	50.5	42.0	39.7
4000	32.7	31.3	48.5	39.1	35.8
5000	28.7	27.4	45.7	36.1	31.9
6300	24.0	21.4	40.5	30.6	26.7
8000	18.4	15.6	40.7	27.4	22.4
10000	12.8	8.1	35.1	23.1	18.1
12500	8.0	3.4	31.1	18.7	12.9
16000	4.1	1.2	27.7	12.8	8.6
20000	0.1	-1.5	20.2	5.5	1.6

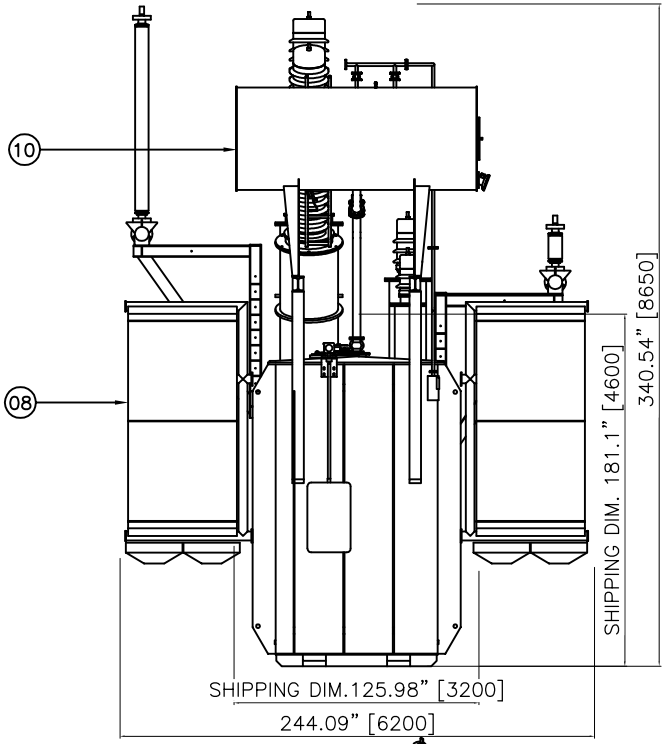
Note: The bolded frequency values represent the center frequency of the octave.

4 Conclusion

Based on the above description and noise test data, it can be concluded that both MVS5140-LS and MVS5140-LS-US meet the requirement, with the maximum sound pressure level noise ＜67dBA@1m.

DWG NO. C41-4200-202409-9842-1000



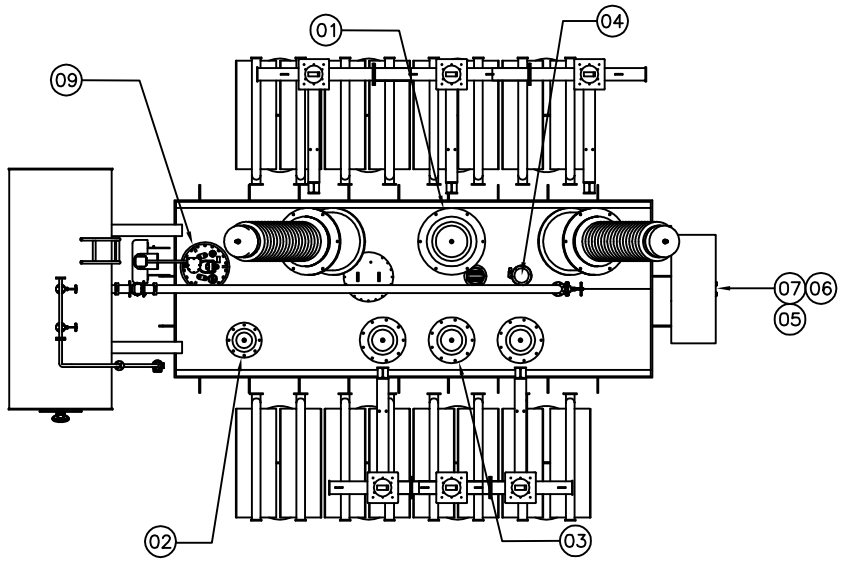


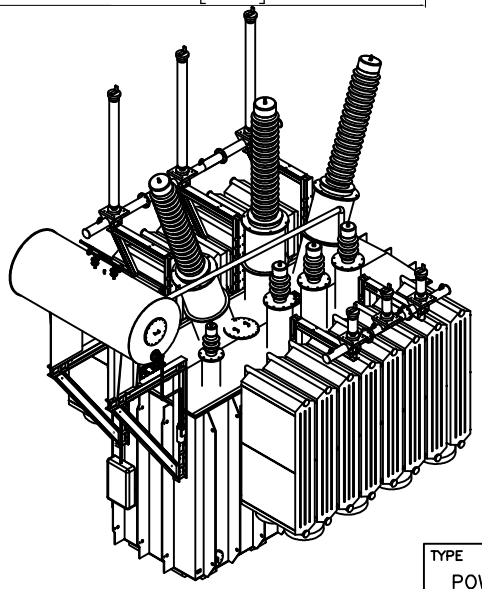
NO.	DESCRIPTION
01	H.V BUSHING
02	HO BUSHING
03	X.V BUSHING
04	PRESSURE RELIEF DEVICE
05	WINDING TEMPERATURE INDICATOR
06	LOCAL CONTROL PANEL
07	OIL TEMPERATURE INDICATOR
08	RADIATOR
09	OLTC
10	MAIN CONSERVATOR

WEIGHTS	
CORE & COIL	198,400 lbs 90,000 kg
TANK & FITTING	82,300 lbs 37,300 kg
INSULATING OIL	89,700 lbs 40,700 kg
TOTAL WEIGHT	370,400 lbs 168,000 kg

TRANSPORTATION	
DIMENSIONS	315.0. (LG)x 8.000. (LG)x 126.0 (WD)x 3.200 (WD)x 181.1 (HT) 4.600 (HT)
WEIGHT (WITHOUT OIL)	252,000 lbs 114,300 kg

NOTE : 1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DIMENSION TOLERANCE : ±5%
3. WEIGHT TOLERANCE : ±5%
4. THIS DRAWING IS FOR BIDDING ONLY.
5. DIMENSION AND WEIGHT WILL BE CHANGED SLIGHTLY AFTER DETAIL DESIGN.





CHANGE

⚠ 3ph 60Hz 105/140/175MVA 230/34.5kV YD ONAN/ONAF/ONAF w/OLTC on HV

TYPE	DWG. NAME
POWER TRANSFORMER	OUTLINE

DRAWN	CHECKED	CHECKED		APPROVED	FIRST ANGLE PROJECTION	SCALE N S	DATE 2025.01.15
Zhou 2025-01-15 Q.Y	Fu 2025-01-15 W.T	Hong 2025-01-15 W		Kim 2025-01-15 D.G	REF. DWG. NO.		REV. NO.

HYOSUNG
南通晓星

DWG. NO. C41-4200-202409-9842-1000 ⚠1

[1] Test Conditions			External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10^{-12} Watts								[1] Sound Rating Number (dBA)
					Center Frequency - Hz								
					[2] 63	125	250	500	1000	2000	4000	8000	
LCH/LGH													
Outdoor Sound Levels	242H, 300H, 360H		- - -	- - -	80	84	85	90	90	85	80	72	95
242H/300H													
Indoor Sound Levels	S.A. Only	790 rpm	1.15	8750	57	67	66	73	72	73	70	63	- - -
		900 rpm	1.50	10,000	59	71	71	76	76	76	73	67	- - -
	R.A. Only	790 rpm	1.15	8750	55	63	58	60	59	60	58	52	- - -
		900 rpm	1.50	10,000	57	67	61	63	63	63	62	56	- - -
360H													
Indoor Sound Levels	S.A. Only	860 rpm	1.15	10,500	59	71	71	76	76	77	73	66	- - -
		985 rpm	1.50	12,000	61	74	75	79	80	80	77	70	- - -
	R.A. Only	860 rpm	1.15	10,500	56	67	61	63	62	63	61	55	- - -
		985 rpm	1.50	12,000	59	70	65	66	67	67	66	59	- - -

Note − The octave sound power data does not include tonal corrections.
[1] Indoor tested according to AHRI Standard 370.
[2] 63Hz band is not certified and is usually lower than reported.

Appendix E Background Noise Study

Stantec

Memo

To:	Zachary Benoit Evolugen	From:	Fabian Alvarado and Mohammed Salim Stantec Consulting Ltd.
Project/File:	160930480	Date:	February 24, 2025

Reference: Evolugen Trail Road Battery Energy Storage System Project – Background Noise Study

1 Introduction

Stantec Consulting Ltd. (Stantec) was retained by Evolugen to conduct a background noise study in support of the proposed 150 MW Trail Road Battery Energy Storage System (BESS) project in Ottawa, Ontario (the Project). The Project is a new and standalone BESS facility.

The main North American Industry Classification System (NAICS) code for the Project is anticipated to be 2211221 – Electric Bulk Power Transmission and Control. Based on the Project NAICS code and nature of operations, it is expected to be eligible for registration under the Ontario Ministry of the Environment Conservation and Parks (MECP) Environmental Activity Sector Registry (EASR). Projects registering under EASR must comply with the applicable noise criteria outlined in the MECP publication "Environmental and Sector Registry – Limits and Other Requirements. " [1]

Chapter 3 of the "Environmental and Sector Registry – Limits and Other Requirements"(EASR Publication) states that the applicable noise criteria for the Project can be based on the background noise level when it is higher than the otherwise applicable noise limits in the EASR publication.

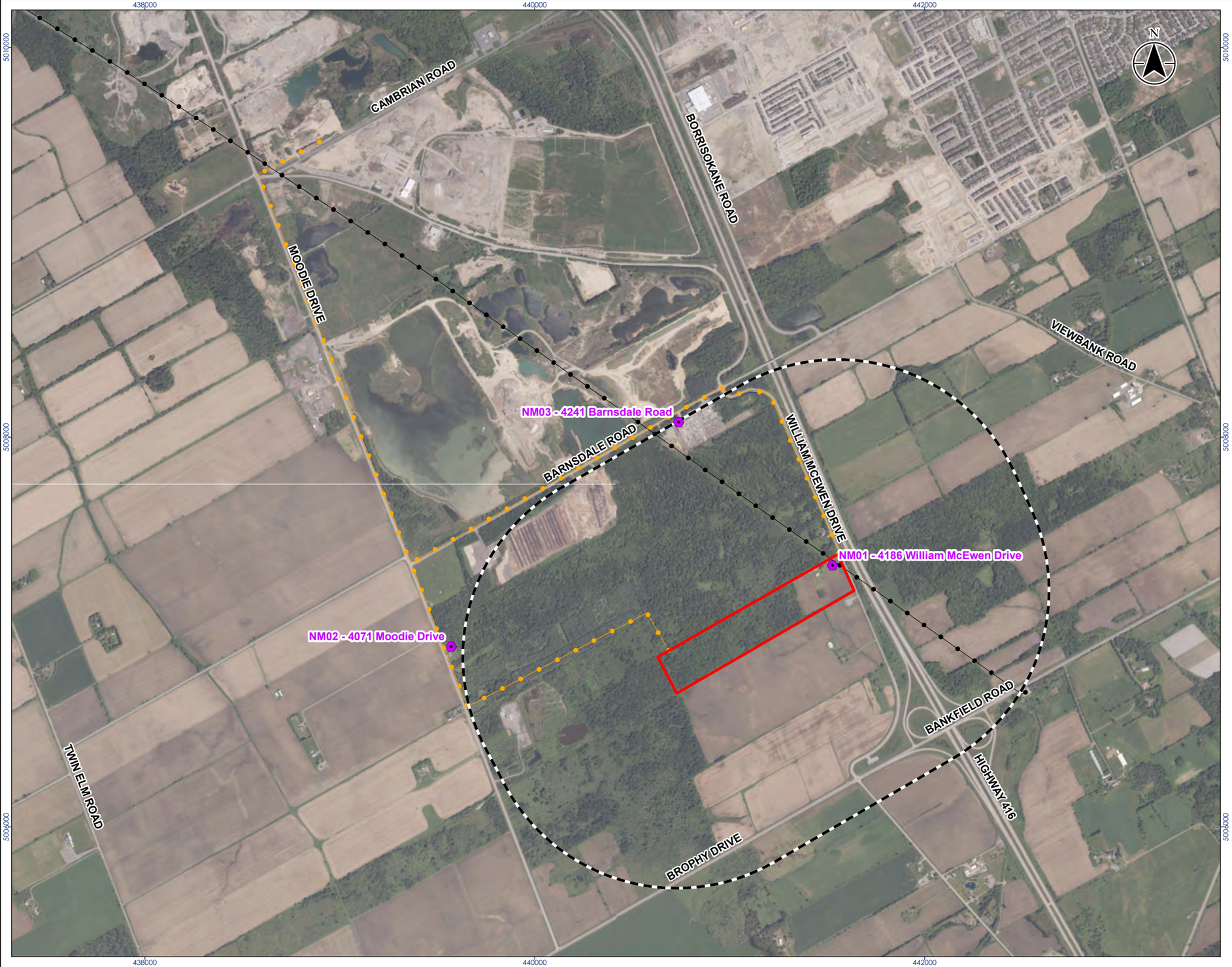
The purpose of this background noise study is to measure the existing background noise level in the vicinity of the Project site to determine the applicable noise criteria outlined in Chapter 3 of the EASR Publication.

The local background noise level was measured through automated noise monitoring conducted between November 28 and December 9, 2024, herein referred to as the monitoring period.

A map of the Project site and study area, along with the monitoring locations considered in this study is provided in Figure 1.

The following sections provide details of the background noise study, including the methods used and the noise monitoring results.

1 MECP. 2021. "Environmental Activity and Sector Registry – Limits and Other Requirements version 3.0."



Stantec

Legend
- Noise Monitoring Location
- Connection Line
- Existing Hydro Line
- Project Site
- Study Area (1 km)

0 250 500 m

1:20,000 (At original document size of 11x17)

Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © King's Printer for Ontario, 2025.
3. This figure contains parcel data provided by First Base Solutions®, 2025.
4. Orthoimagery © City of Ottawa, 2025. Imagery Date, 2022.

Project Location
City of Ottawa

160930480 REV1
Prepared by BF on 2025-01-31

Client/Project
Evolugen
Trail Road BESS Project – Background Noise Study

Figure No.
1

Title
Project Study Area and Noise Monitoring Locations

2 Project Study Area

The Project site is located in the southwest corner of William McEwen Drive and Barnsdale Road in Ottawa, Ontario. The Project site is surrounded by:

- William McEwen Drive to the east, with Highway 416 further east
- Barnsdale Road to the north, with the Tomlinson Howe-Ross Pit, an existing aggregate pit, further north
- Moodie Drive to the west, with agricultural lands further west
- Agricultural lands to the south with Brophy Drive further the south

Within the study area shown in Figure 1, the surrounding lands are mainly zoned as rural, countryside, and agricultural designations under the City of Ottawa Zoning By-law (City of Ottawa 2008). These zoning designations permit residential dwellings, and there are nearby residential dwellings located along McEwen Drive, Barnsdale Road and Moodie Drive.

Stantec personnel visited the Project site on November 28, 2024, and December 9, 2024, during the daytime to observe the existing acoustic environment. During these site visits, they found that local road traffic noise, especially from Highway 416, was the dominant noise source in the area. The Tomlin Howe-Ross Pit was not audible at the noise monitoring locations, as detailed in Section 4.

3 Noise Guidelines and Criteria

Chapter 3 of the EASR publication specifies noise criteria to be met at points of reception (PORs). PORs are located on properties that contain one or more noise sensitive buildings, such as dwellings, hotels, healthcare facilities, and educational facilities. Accessible vacant lots that have been zoned to permit a noise sensitive building are also considered PORs under the EASR publication.

Chapter 3 of the EASR publication provides the applicable assessment criteria in terms of the one-hour equivalent noise level ($L_{eq\text{-}1hr}$). The applicable noise limits are set as the higher of either the background noise level at the POR or the applicable Class Area noise limit specified in the EASR publication. The Class Area noise limits apply at a POR depending on the characteristics of its acoustic environment and time of day (e.g., daytime, evening, or nighttime).

Based on site observations and a review of local aerial imagery, the study area has characteristics of both Class 2 and Class 3 areas, as defined in the EASR publication:

Class 2 Area: An area where the background noise level during the day is dominated by the activities of people and by natural sounds during the night.

Class 3 Area: An area where the background noise level during the day and night is dominated by natural sounds, with little to no traffic.

Areas adjacent to William McEwen Drive and Highway 416 can be classified as a Class 2 Area due to their exposure to road traffic noise levels. Other areas, along Moodie Drive, Barnsdale Road and Brophy Drive with limited exposure to these roadways can be classified as a Class 3 Area.

A summary of the Class 2 and Class 3 Area noise limits from the EASR publication is provided in Table 1.

Table 1 EASR Publication Noise Limits for Class 2 and Class 3 Areas

Period	EASR Publication Class 2 Area Noise Limits, $L_{eq\text{-}1hr}$ (dBA)		EASR Publication Class 3 Area Noise Limits, $L_{eq\text{-}1hr}$ (dBA)	
	Outdoor POR	Plane of Window POR	Outdoor POR	Plane of Window POR
Daytime (07:00 to 19:00)	50	50	45	45
Evening (19:00 to 23:00)	45	50	40	40
Nighttime (23:00 to 07:00)	N/A	45	N/A	40

4 Noise Monitoring Locations

To capture the acoustic environment of the PORs along William McEwen Drive/Highway 416, Moodie Drive, and Barnsdale Road, three (3) noise monitoring locations were selected for this background noise study. These locations were chosen to reflect similar acoustic environments to nearby PORs along these roads. The noise monitors are expected to experience similar acoustic conditions to these PORs, primarily due to their proximity to Highway 416, a significant road traffic noise source. Additionally, the monitoring locations were selected based on practical considerations, including accessibility and the safety of the monitoring equipment.

The noise monitoring locations selected for this study are listed in Table 2 and shown in Figure 1.

Table 2 Noise Monitoring Location Summary

Noise Monitoring Location ID	Municipal Address
NM01	4186 William McEwen Drive
NM02	4071 Moodie Drive
NM03	4241 Barnsdale Road

5 Noise Monitor Instrumentation and Setup

Noise monitoring was conducted using sound level meters (SLMs) meeting the class 1 requirements identified in IEC 61672-1:2002 [2]. A summary of the instrumentation used in the study is provided in Table 3

Table 3 Noise Monitoring Instrumentation Summary

Monitoring Location ID	Instrument Type	Manufacturer	Model	Serial Number
NM01	SLM	Larson Davis	LxT Sound Expert	7258
NM02	SLM	Larson Davis	LxT Sound Expert	4604
NM03	SLM	Larson Davis	LxT Sound Expert	7259

The SLMs were installed on tripods at ground level, with the SLM microphones positioned approximately 1.5 m above the ground. The SLMs were set up to collect noise levels in both 1-second and 1-hour intervals. The SLMs were factory calibrated and maintained in accordance with the ISO 1996-2 standards,[3] and were field calibrated using a Larson Davis model CAL200 acoustical calibrator. Calibration Certificates for the noise monitoring instrumentation are provided in Attachment A.

6 Weather

Inclement weather conditions have the potential to affect the accuracy of the measured noise levels. Consistent with MECP publication NPC-103[4] and the SLM manufacturer's recommendations, inclement weather conditions are considered to have occurred under any of the following conditions:

- Wind speed greater than 15 km/hour
- Temperature outside of the -10 °C to 50 °C operating range defined by the manufacturer of the SLM
- Relative humidity outside of the 30% to 90% operating range defined by the manufacturer of the SLM
- Precipitation has occurred

Weather data referenced in this study was obtained from publicly accessible data from the Environment Canada weather station named "Ottawa Intl A."

2 IEC. 2002. "IEC61672-1- Sound Level Meters."
3 ISO. 2017. "ISO 1996-2:2017 Description, measurement and assessment of environmental noise-Part 2: Determination of Environmental noise levels."
4 MOE. 1978. "Publication NPC-103 - Procedures."

7 Results

To establish the noise criteria for the Project, the background noise level was determined through noise monitoring described in Section 4 and Section 5. The lowest measured L_{eq-1hr} was selected to represent the background noise level in accordance with MECP publication "Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning (NPC-300).[5] " The minimum L_{eq-1hr} was compared to the applicable Class Area noise limits to identify areas where site-specific noise limits can be considered. A summary of the noise monitoring results is provided in Table 4. The L_{eq-1hr} and weather data collected during the monitoring period is provided in Attachment B

Table 4 Summary of Noise Monitoring Results

Monitoring Location ID [a]	Period [b]	Minimum 1-hour Noise Level, L_{eq-1hr} (dBA)	EASR Publication Class Area [c]	EASR Publication Class Area, Noise Limit, L_{eq-1hr} (dBA)	Minimum 1-hour Noise Level, L_{eq-1hr}, Greater Than EASR Publication Class Area Noise Limit? (Y/N)
NM01	Daytime	55	2	50	Y
	Evening	55		50	Y
	Nighttime	47		45	Y
NM02	Daytime	43	3	45	N
	Evening	37		40	N
	Nighttime	24		40	N
NM03	Daytime	46	3	45	Y
	Evening	40		40	N
	Nighttime	33		40	N

Notes:

a. Refer to Figure 1 for a map showing the monitoring locations

b. Daytime is from 07:00 to 19:00; Evening is from 19:00 to 23:00; Nighttime is from 23:00 to 07:00

c. Refers to the MECP Class Area, as defined in Chapter 3 of the EASR publication. The applicable Class Area noise limits were determined mainly based on proximity to Highway 416, which was observed to be the dominant road traffic noise source.

As shown in Table 4, the minimum L_{eq-1hr} at NM01 during daytime, evening and nighttime are higher than the Class 2 Area noise limits outlined in the EASR publication. Therefore, the minimum L_{eq-1hr} at NM01 can be used to establish the site-specific noise limits at PORs with similar exposure to Highway 416, such as those next to William McEwen Drive and Highway 416.

5 MECP. 2013. "Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning (NPC-300)."

In general, the minimum L_{eq-1hr} at NM02 and NM03 were within the Class 3 Area noise limits outlined in the EASR publication. Therefore, the Class 3 Area noise limits are appropriate for the rest of PORs within the study area, i.e., those not adjacent to William McEwen Drive and Highway 416. The exception is that the minimum daytime L_{eq-1hr} at NM03 was 1 dB higher than the daytime Class 3 Area noise limit. Therefore, a marginally higher site-specific daytime noise limit can be considered for the POR at 4241 Barnsdale Road and other PORs with similar acoustic environments.

8 Conclusions and Closure

Stantec Consulting Ltd. (Stantec) was retained by Evolugen to conduct a background noise study in support of the proposed 150 MW Trail Road BESS project in Ottawa, Ontario (the Project).

This background noise study was conducted to determine applicable noise criteria for the Project following applicable MECP guidelines.

The study measured the existing noise levels at three representative monitoring locations (NM01 through NM03) in the vicinity of the Project between November 28 and December 9, 2024. The results indicate that background noise levels are high enough to consider site-specific noise limits for:

- PORs next to William McEwen Drive and Highway 416. The site-specific noise limits would apply during the daytime, evening and nighttime.
- POR at 4241 Barnsdale Road and other PORs with similar acoustic environments. A site-specific daytime noise limit would apply.

The site-specific noise limits at these PORs would be higher than the otherwise applicable Class Area noise limits in Chapter 3 of the EASR publication. Further, the study results suggest that the Class 3 Area noise limits are appropriate for the remaining PORs within the study area.

This concludes the background noise study for this Project. Should you have any questions, please contact the undersigned.

Sincerely,

Stantec Consulting Ltd.

Digitally signed by Alvarado, Fabian
Date: 2025.02.24 09:19:07 -05'00'

Digitally signed by Salim, Mohammed
Date: 2025.02.25 10:30:04 -05'00'

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Associate, Senior Acoustic, Noise and Vibration Engineer
Phone: (647) 680-4162
mohammed.salim@stantec.com

Attachment:

Attachment A Instrumentation Calibration Certificates
Attachment B Collected Hourly Noise Level and Weather Data

February 24, 2025
Zachary Benoit

Reference: Evolugen Trail Road Battery Energy Storage System Project – Background Noise Study

Attachment A Instrumentation Calibration Certificates

Calibration Certificate

Certificate Number 2024012450
Customer:
Stantec Consulting

,

Model Number	LxT SE	***Procedure Number***	D0001.8384
Serial Number	0004604	***Technician***	Jacob Cannon
Test Results	**Pass**	***Calibration Date***	2024-08-27
Initial Condition	AS RECEIVED same as shipped	***Calibration Due***	2025-08-27
Description	Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.404	***Temperature***	23.3 °C ± 0.25 °C
		Humidity	51.1 %RH ± 2.0 %RH
		Static Pressure	86.83 kPa ± 0.13 kPa

Evaluation Method ***Tested with:***

PCB 377B02. S/N 156396
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108
Larson Davis PRMLxT1L. S/N 029331

Data reported in dB re 20 µPa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). The results documented in this certificate relate only to the item(s) calibrated or tested. It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.
Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev O Supporting Firmware Version 4.0.5, 2019-09-10

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2023-09-12	2024-09-12	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2024-05-07	2025-11-07	006943
Larson Davis CAL200 Acoustic Calibrator	2024-07-18	2025-07-18	007027
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2024-02-12	2025-02-12	007080
Larson Davis Model 831	2024-02-15	2025-02-15	007182
SRS DS360 Ultra Low Distortion Generator	2024-03-26	2025-03-26	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2023-09-28	2024-09-28	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.01	113.80	114.20	0.14	Pass

Adjusted Level: 114.01
As Received Level: 114.23

– End of measurement results–

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-27.92	-29.61	-26.24	0.14	Pass

– End of measurement results–

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5: ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.16	-0.20	-1.20	0.80	0.24	Pass
1000	0.29	0.00	-0.70	0.70	0.23	Pass
8000	-3.42	-3.00	-5.50	-1.50	0.33	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.69

-- End of measurement results--

-- End of Report--

Signatory: *Jacob Cannon*

Calibration Certificate

Certificate Number 2023000044
Customer:
STANTEC CONSULTING LTD
400-2100 Derry Rd W
Mississauga, ON L5N 0B3, Canada

Model Number	LxT SE		***Procedure Number***	D0001.8384	
Serial Number	0007258		***Technician***	Jacob Cannon	
Test Results	**Pass**		***Calibration Date***	3 Jan 2023	
Initial Condition	As Manufactured		***Calibration Due***		
Description	Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.404		***Temperature***	23.61 °C	± 0.25 °C
			Humidity	49.8 %RH	± 2.0 %RH
			Static Pressure	85.77 kPa	± 0.13 kPa

Evaluation Method ***Tested with:*** ***Data reported in dB re 20 µPa.***

Larson Davis PRMLxT1L. S/N 077689
Larson Davis CAL291. S/N 0108
Larson Davis CAL200. S/N 9079
PCB 377B02. S/N 343510

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.
Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev O Supporting Firmware Version 4.0.5, 2019-09-10

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2022-09-09	2023-09-09	001250
Hart Scientific 2626-H Temperature Probe	2021-08-25	2023-02-25	006798
Larson Davis CAL200 Acoustic Calibrator	2022-07-21	2023-07-21	007027
Larson Davis Model 831	2022-02-21	2023-02-21	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2022-03-02	2023-03-02	007185
SRS DS360 Ultra Low Distortion Generator	2022-03-29	2023-03-29	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2022-09-28	2023-09-28	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-28.14	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.23	-0.20	-1.20	0.80	0.23	Pass
1000	0.07	0.00	-0.70	0.70	0.23	Pass
8000	-2.67	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.22

-- End of measurement results--

-- End of Report--

Signatory: Jacob Cannon

LARSON DAVIS – A PCB DIVISION
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

Calibration Certificate

Certificate Number 2023000048
Customer:
STANTEC CONSULTING LTD
400-2100 Derry Rd W
Mississauga, ON L5N 0B3, Canada

Model Number	LxT SE		***Procedure Number***	D0001.8384	
Serial Number	0007259		***Technician***	Jacob Cannon	
Test Results	**Pass**		***Calibration Date***	3 Jan 2023	
Initial Condition	As Manufactured		***Calibration Due***		
Description	Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.404		***Temperature***	23.65 °C	± 0.25 °C
			Humidity	50 %RH	± 2.0 %RH
			Static Pressure	85.78 kPa	± 0.13 kPa

Evaluation Method ***Tested with:*** ***Data reported in dB re 20 µPa.***

PCB 377B02. S/N 343674
Larson Davis CAL200. S/N 9079
Larson Davis PRMLxT1L. S/N 077690
Larson Davis CAL291. S/N 0108

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.
Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev O Supporting Firmware Version 4.0.5, 2019-09-10

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2022-09-09	2023-09-09	001250
Hart Scientific 2626-H Temperature Probe	2021-08-25	2023-02-25	006798
Larson Davis CAL200 Acoustic Calibrator	2022-07-21	2023-07-21	007027
Larson Davis Model 831	2022-02-21	2023-02-21	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2022-03-02	2023-03-02	007185
SRS DS360 Ultra Low Distortion Generator	2022-03-29	2023-03-29	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2022-09-28	2023-09-28	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-28.06	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.23	-0.20	-1.20	0.80	0.23	Pass
1000	0.07	0.00	-0.70	0.70	0.23	Pass
8000	-2.42	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.43

-- End of measurement results--

-- End of Report--

Signatory: Jacob Cannon

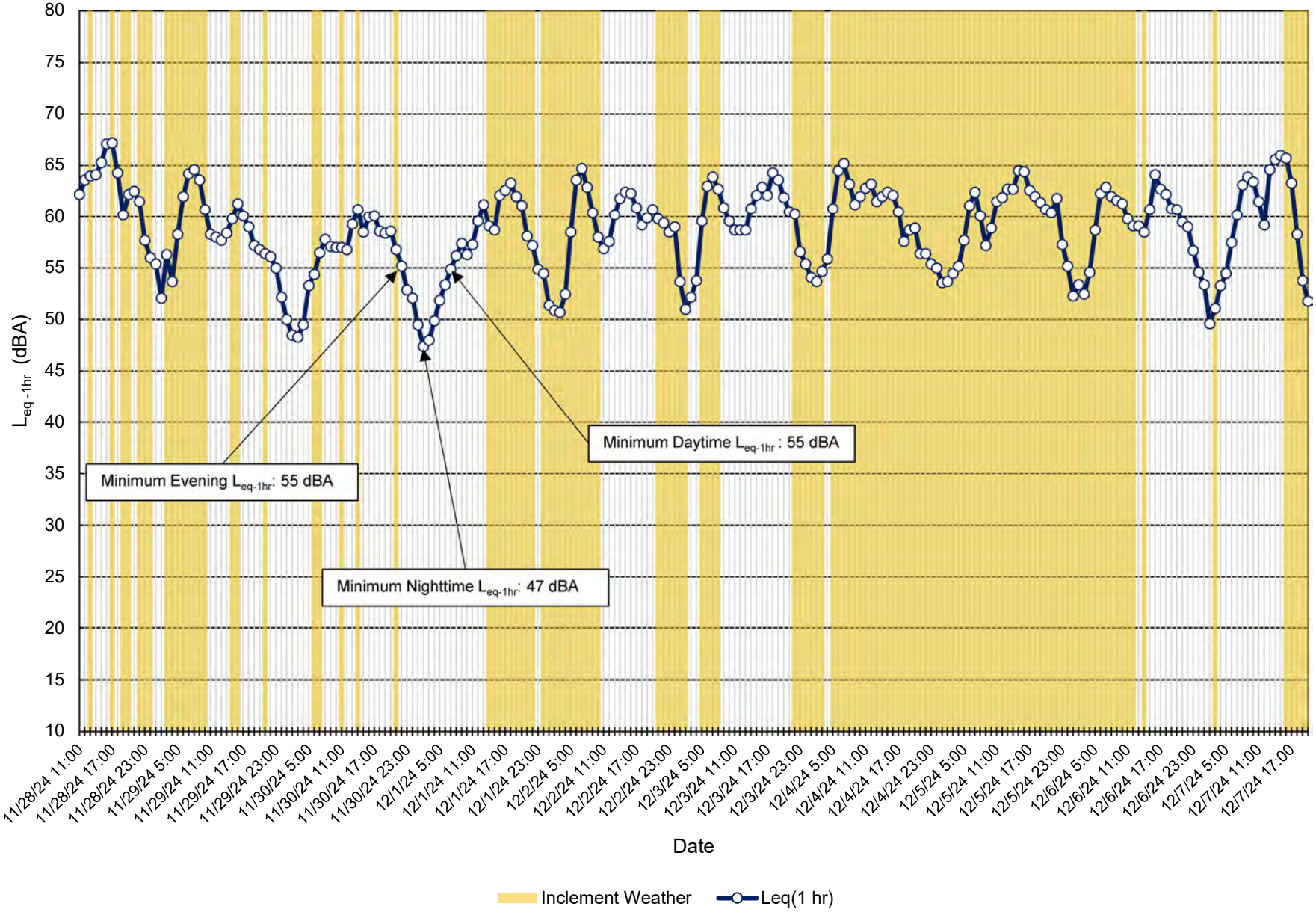
LARSON DAVIS – A PCB DIVISION
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

February 24, 2025
Zachary Benoit

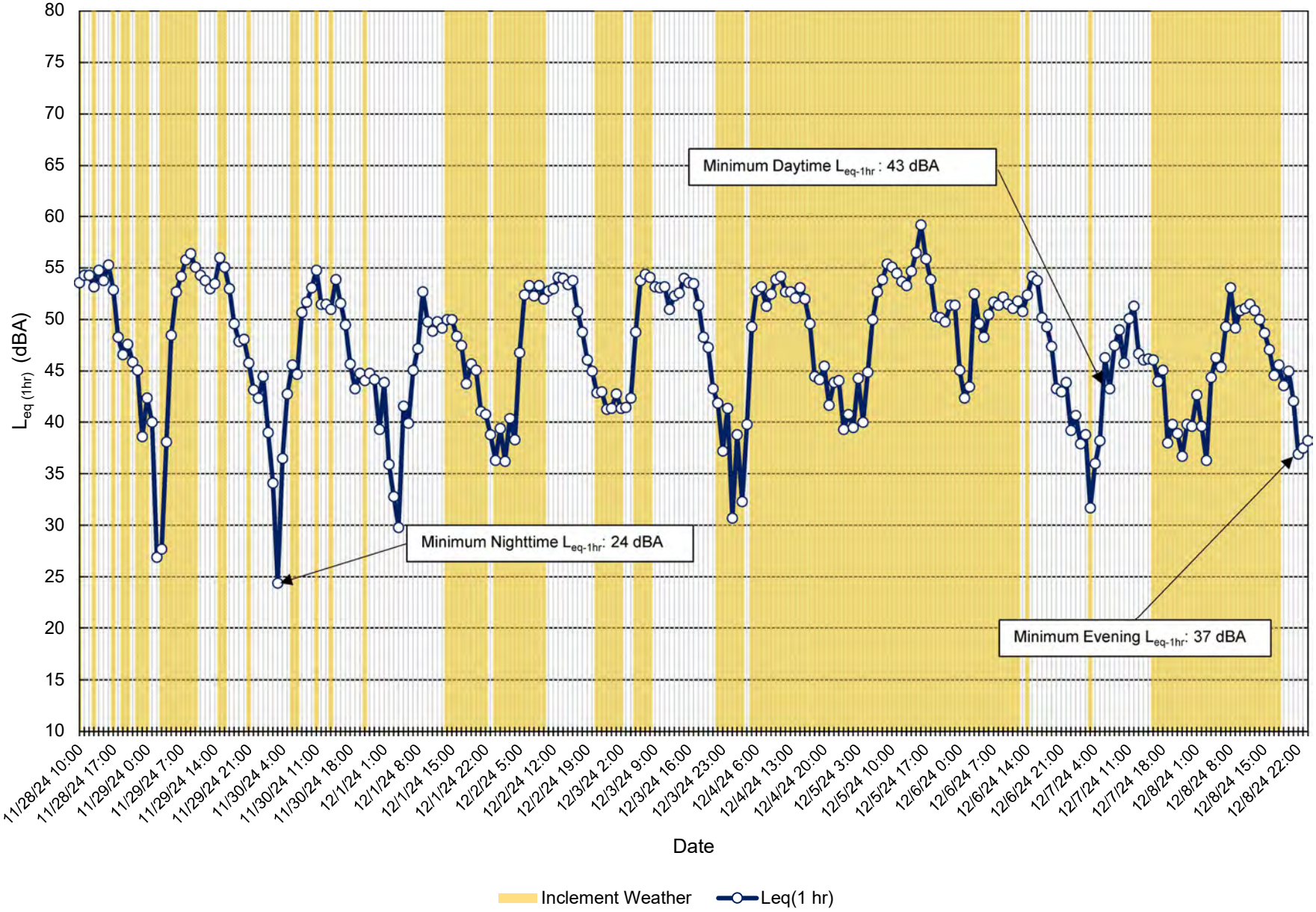
Reference: Evolugen Trail Road Battery Energy Storage System Project – Background Noise Study

Attachment B Collected Hourly Noise Level and Weather Data

Hourly Noise Levels and Weather Data - NM01, 4186 William McEwen Drive



Hourly Noise Levels and Weather Data - NM02, 4071 Moodie



Hourly Noise Levels and Weather Data - NM03, 4241 Barnsdale

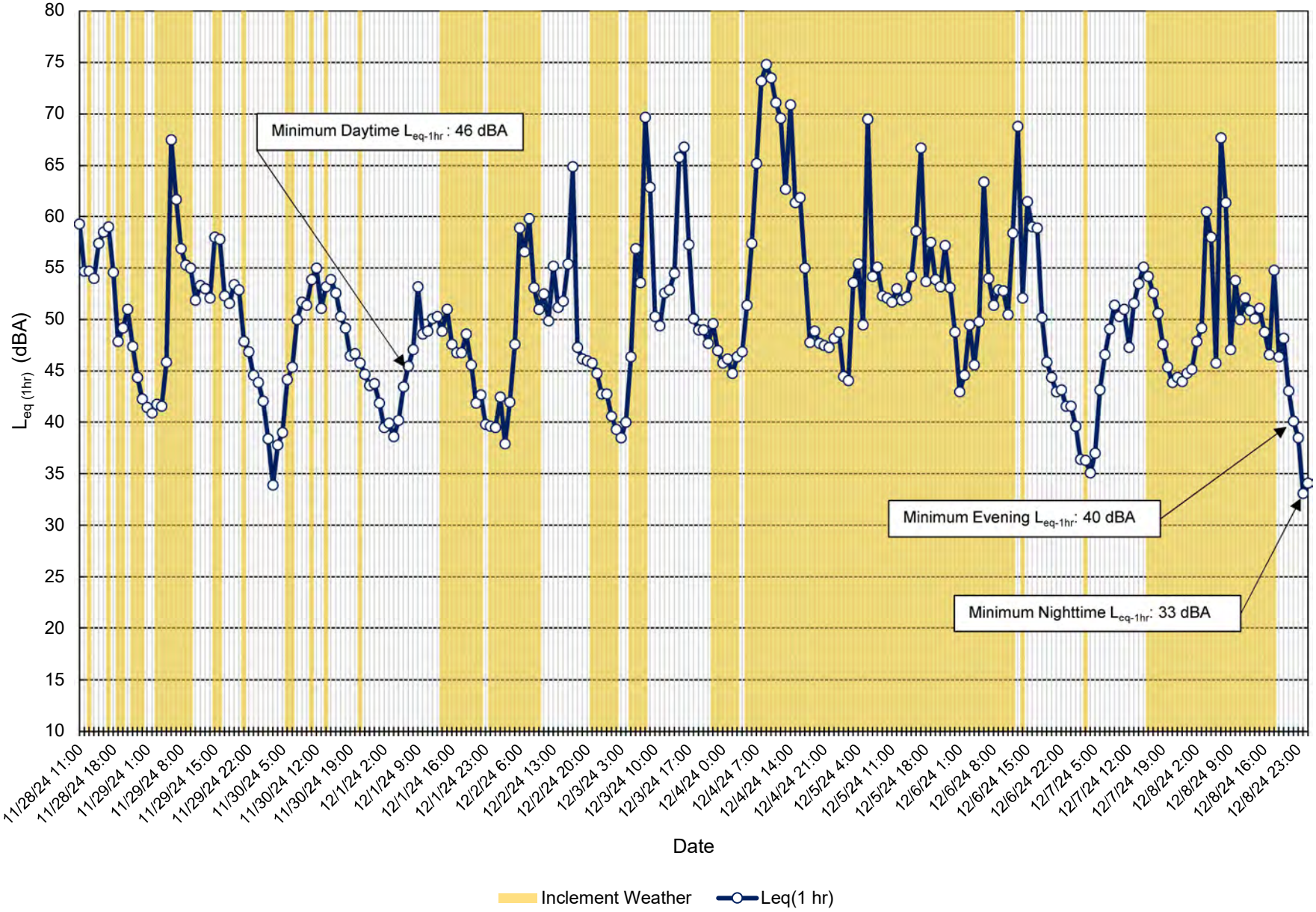


Table B.1 Hourly Weather Data

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-11-28 10:00	2024-11-28 11:00	Thursday	0.5	91	0	9	Mostly Cloudy	N
2024-11-28 11:00	2024-11-28 12:00	Thursday	1.2	88	0	5	NA	N
2024-11-28 12:00	2024-11-28 13:00	Thursday	1.6	89	0	7	NA	N
2024-11-28 13:00	2024-11-28 14:00	Thursday	2	92	0	9	Snow	Y
2024-11-28 14:00	2024-11-28 15:00	Thursday	2.1	83	0	11	NA	N
2024-11-28 15:00	2024-11-28 16:00	Thursday	2.1	80	0	9	NA	N
2024-11-28 16:00	2024-11-28 17:00	Thursday	1.5	83	0	5	Mostly Cloudy	N
2024-11-28 17:00	2024-11-28 18:00	Thursday	0.2	91	0	0	NA	N
2024-11-28 18:00	2024-11-28 19:00	Thursday	0.1	90	0	4	NA	N
2024-11-28 19:00	2024-11-28 20:00	Thursday	0.2	99	0	5	Cloudy	N
2024-11-28 20:00	2024-11-28 21:00	Thursday	0.4	91	0	7	NA	N
2024-11-28 21:00	2024-11-28 22:00	Thursday	0.2	88	0	6	NA	N
2024-11-28 22:00	2024-11-28 23:00	Thursday	-1.4	94	0	6	Mainly Clear	N
2024-11-28 23:00	2024-11-29 00:00	Thursday	-1.9	100	0	8	NA	N
2024-11-29 00:00	2024-11-29 01:00	Friday	-1.9	100	0	7	NA	N
2024-11-29 01:00	2024-11-29 02:00	Friday	-3.3	90	0	3	Clear	N
2024-11-29 02:00	2024-11-29 03:00	Friday	-3	89	0	7	NA	N
2024-11-29 03:00	2024-11-29 04:00	Friday	-3.3	94	0	3	NA	N
2024-11-29 04:00	2024-11-29 05:00	Friday	-3.2	95	0	4	Mainly Clear	N
2024-11-29 05:00	2024-11-29 06:00	Friday	-2.9	100	0	9	NA	N
2024-11-29 06:00	2024-11-29 07:00	Friday	-2.9	100	0	5	NA	N
2024-11-29 07:00	2024-11-29 08:00	Friday	-2.5	100	0	8	Mostly Cloudy	N
2024-11-29 08:00	2024-11-29 09:00	Friday	-1.3	100	0	8	Snow	Y
2024-11-29 09:00	2024-11-29 10:00	Friday	-0.6	98	0	10	Snow	Y
2024-11-29 10:00	2024-11-29 11:00	Friday	0	96	0	14	Cloudy	N
2024-11-29 11:00	2024-11-29 12:00	Friday	0.7	87	0	13	NA	N
2024-11-29 12:00	2024-11-29 13:00	Friday	1.5	81	0	13	NA	N
2024-11-29 13:00	2024-11-29 14:00	Friday	3.2	65	0	17	Mostly Cloudy	Y
2024-11-29 14:00	2024-11-29 15:00	Friday	2.9	59	0	16	NA	Y
2024-11-29 15:00	2024-11-29 16:00	Friday	2.9	53	0	22	NA	Y
2024-11-29 16:00	2024-11-29 17:00	Friday	2.2	56	0	25	Mostly Cloudy	Y
2024-11-29 17:00	2024-11-29 18:00	Friday	1.1	64	0	18	NA	Y
2024-11-29 18:00	2024-11-29 19:00	Friday	0.7	65	0	17	NA	Y

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-11-29 19:00	2024-11-29 20:00	Friday	0.4	67	0	17	Cloudy	Y
2024-11-29 20:00	2024-11-29 21:00	Friday	-0.1	70	0	17	NA	Y
2024-11-29 21:00	2024-11-29 22:00	Friday	0	69	0	25	NA	Y
2024-11-29 22:00	2024-11-29 23:00	Friday	-0.2	70	0	20	Mostly Cloudy	Y
2024-11-29 23:00	2024-11-30 00:00	Friday	-0.6	73	0	15	NA	N
2024-11-30 00:00	2024-11-30 01:00	Saturday	-1.4	75	0	14	NA	N
2024-11-30 01:00	2024-11-30 02:00	Saturday	-1.6	77	0	17	Mainly Clear	Y
2024-11-30 02:00	2024-11-30 03:00	Saturday	-1.3	78	0	13	NA	N
2024-11-30 03:00	2024-11-30 04:00	Saturday	-1.8	83	0	7	NA	N
2024-11-30 04:00	2024-11-30 05:00	Saturday	-1.6	89	0	5	Mostly Cloudy	N
2024-11-30 05:00	2024-11-30 06:00	Saturday	-1.6	89	0	7	NA	N
2024-11-30 06:00	2024-11-30 07:00	Saturday	-1.8	92	0	5	Snow	Y
2024-11-30 07:00	2024-11-30 08:00	Saturday	-1.6	91	0	4	Cloudy	N
2024-11-30 08:00	2024-11-30 09:00	Saturday	-1.2	82	0	12	NA	N
2024-11-30 09:00	2024-11-30 10:00	Saturday	-0.9	81	0	13	NA	N
2024-11-30 10:00	2024-11-30 11:00	Saturday	0.6	73	0	18	Mostly Cloudy	Y
2024-11-30 11:00	2024-11-30 12:00	Saturday	1.2	65	0	25	NA	Y
2024-11-30 12:00	2024-11-30 13:00	Saturday	1.9	58	0	19	NA	Y
2024-11-30 13:00	2024-11-30 14:00	Saturday	2.1	61	0	10	Mostly Cloudy	N
2024-11-30 14:00	2024-11-30 15:00	Saturday	2.4	56	0	19	Snow Showers	Y
2024-11-30 15:00	2024-11-30 16:00	Saturday	1.8	69	0	10	NA	N
2024-11-30 16:00	2024-11-30 17:00	Saturday	1.4	54	0	16	Mostly Cloudy	Y
2024-11-30 17:00	2024-11-30 18:00	Saturday	-0.4	60	0	8	NA	N
2024-11-30 18:00	2024-11-30 19:00	Saturday	-0.7	82	0	12	NA	N
2024-11-30 19:00	2024-11-30 20:00	Saturday	-0.8	83	0	16	Mostly Cloudy	Y
2024-11-30 20:00	2024-11-30 21:00	Saturday	-0.9	89	0	15	NA	N
2024-11-30 21:00	2024-11-30 22:00	Saturday	-1.3	92	0	15	NA	N
2024-11-30 22:00	2024-11-30 23:00	Saturday	-1.7	89	0	13	Mostly Cloudy	N
2024-11-30 23:00	2024-12-01 00:00	Saturday	-1.2	82	0	13	NA	N
2024-12-01 00:00	2024-12-01 01:00	Sunday	-1.4	74	0	14	NA	N
2024-12-01 01:00	2024-12-01 02:00	Sunday	-2	71	0	17	Mostly Cloudy	Y
2024-12-01 02:00	2024-12-01 03:00	Sunday	-2.6	74	0	19	NA	Y
2024-12-01 03:00	2024-12-01 04:00	Sunday	-2.7	74	0	20	NA	Y
2024-12-01 04:00	2024-12-01 05:00	Sunday	-3.2	76	0	15	Mostly Cloudy	N

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-12-01 05:00	2024-12-01 06:00	Sunday	-3.8	79	0	13	NA	N
2024-12-01 06:00	2024-12-01 07:00	Sunday	-3.9	80	0	14	NA	N
2024-12-01 07:00	2024-12-01 08:00	Sunday	-3.9	80	0	12	Cloudy	N
2024-12-01 08:00	2024-12-01 09:00	Sunday	-3.7	81	0	12	NA	N
2024-12-01 09:00	2024-12-01 10:00	Sunday	-3.1	79	0	13	NA	N
2024-12-01 10:00	2024-12-01 11:00	Sunday	-2	76	0	15	Cloudy	N
2024-12-01 11:00	2024-12-01 12:00	Sunday	-1	73	0	16	NA	Y
2024-12-01 12:00	2024-12-01 13:00	Sunday	-0.9	70	0	14	NA	N
2024-12-01 13:00	2024-12-01 14:00	Sunday	-0.9	74	0	10	Cloudy	N
2024-12-01 14:00	2024-12-01 15:00	Sunday	-1.8	94	0	8	Moderate Snow	N
2024-12-01 15:00	2024-12-01 16:00	Sunday	-2.3	100	0	7	Snow	Y
2024-12-01 16:00	2024-12-01 17:00	Sunday	-2.4	100	0	8	Snow	Y
2024-12-01 17:00	2024-12-01 18:00	Sunday	-3.8	100	0	9	NA	N
2024-12-01 18:00	2024-12-01 19:00	Sunday	-4.1	100	0	6	NA	N
2024-12-01 19:00	2024-12-01 20:00	Sunday	-5.4	100	0	9	Clear	N
2024-12-01 20:00	2024-12-01 21:00	Sunday	-6.3	100	0	10	NA	N
2024-12-01 21:00	2024-12-01 22:00	Sunday	-6.4	95	0	9	NA	N
2024-12-01 22:00	2024-12-01 23:00	Sunday	-6.4	91	0	8	Mainly Clear	N
2024-12-01 23:00	2024-12-02 00:00	Sunday	-7.1	89	0	12	NA	N
2024-12-02 00:00	2024-12-02 01:00	Monday	-6.5	94	0	9	NA	N
2024-12-02 01:00	2024-12-02 02:00	Monday	-7.2	95	0	11	Mostly Cloudy	N
2024-12-02 02:00	2024-12-02 03:00	Monday	-6.8	94	0	12	NA	N
2024-12-02 03:00	2024-12-02 04:00	Monday	-7	94	0	10	NA	N
2024-12-02 04:00	2024-12-02 05:00	Monday	-7.4	96	0	10	Mostly Cloudy	N
2024-12-02 05:00	2024-12-02 06:00	Monday	-8.1	95	0	10	NA	N
2024-12-02 06:00	2024-12-02 07:00	Monday	-8.1	98	0	10	NA	N
2024-12-02 07:00	2024-12-02 08:00	Monday	-8.9	100	0	9	Mainly Clear	N
2024-12-02 08:00	2024-12-02 09:00	Monday	-8.3	100	0	12	NA	N
2024-12-02 09:00	2024-12-02 10:00	Monday	-8.2	99	0	7	NA	N
2024-12-02 10:00	2024-12-02 11:00	Monday	-4.7	91	0	7	Mainly Clear	N
2024-12-02 11:00	2024-12-02 12:00	Monday	-1.8	77	0	17	NA	Y
2024-12-02 12:00	2024-12-02 13:00	Monday	-1.8	76	0	14	NA	N
2024-12-02 13:00	2024-12-02 14:00	Monday	-1.6	77	0	19	Cloudy	Y
2024-12-02 14:00	2024-12-02 15:00	Monday	-1.7	74	0	17	NA	Y

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-12-02 15:00	2024-12-02 16:00	Monday	-2	81	0	15	NA	N
2024-12-02 16:00	2024-12-02 17:00	Monday	-2.1	80	0	11	Cloudy	N
2024-12-02 17:00	2024-12-02 18:00	Monday	-2.3	78	0	9	NA	N
2024-12-02 18:00	2024-12-02 19:00	Monday	-2	76	0	8	NA	N
2024-12-02 19:00	2024-12-02 20:00	Monday	-2.5	84	0	9	Mostly Cloudy	N
2024-12-02 20:00	2024-12-02 21:00	Monday	-3.2	90	0	7	NA	N
2024-12-02 21:00	2024-12-02 22:00	Monday	-3.7	94	0	7	NA	N
2024-12-02 22:00	2024-12-02 23:00	Monday	-4.3	97	0	11	Mostly Cloudy	N
2024-12-02 23:00	2024-12-03 00:00	Monday	-4.6	100	0	7	NA	N
2024-12-03 00:00	2024-12-03 01:00	Tuesday	-5.3	100	0	6	NA	N
2024-12-03 01:00	2024-12-03 02:00	Tuesday	-4.8	100	0	7	Mostly Cloudy	N
2024-12-03 02:00	2024-12-03 03:00	Tuesday	-4.2	98	0	7	Snow	Y
2024-12-03 03:00	2024-12-03 04:00	Tuesday	-3.6	89	0	12	NA	N
2024-12-03 04:00	2024-12-03 05:00	Tuesday	-3.4	84	0	16	Cloudy	Y
2024-12-03 05:00	2024-12-03 06:00	Tuesday	-3.5	83	0	17	Snow	Y
2024-12-03 06:00	2024-12-03 07:00	Tuesday	-4	86	0	13	Snow	Y
2024-12-03 07:00	2024-12-03 08:00	Tuesday	-3.9	84	0	14	Snow	Y
2024-12-03 08:00	2024-12-03 09:00	Tuesday	-3.7	77	0	10	Snow	Y
2024-12-03 09:00	2024-12-03 10:00	Tuesday	-3.5	76	0	10	NA	N
2024-12-03 10:00	2024-12-03 11:00	Tuesday	-3.1	71	0	13	Mostly Cloudy	N
2024-12-03 11:00	2024-12-03 12:00	Tuesday	-2.8	67	0	7	NA	N
2024-12-03 12:00	2024-12-03 13:00	Tuesday	-1.8	66	0	10	NA	N
2024-12-03 13:00	2024-12-03 14:00	Tuesday	-0.9	58	0	10	Mostly Cloudy	N
2024-12-03 14:00	2024-12-03 15:00	Tuesday	-1.9	68	0	16	NA	Y
2024-12-03 15:00	2024-12-03 16:00	Tuesday	-2.1	70	0	13	NA	N
2024-12-03 16:00	2024-12-03 17:00	Tuesday	-2.4	72	0	13	Mostly Cloudy	N
2024-12-03 17:00	2024-12-03 18:00	Tuesday	-2.6	71	0	11	NA	N
2024-12-03 18:00	2024-12-03 19:00	Tuesday	-4.5	78	0	9	NA	N
2024-12-03 19:00	2024-12-03 20:00	Tuesday	-4.7	77	0	8	Mainly Clear	N
2024-12-03 20:00	2024-12-03 21:00	Tuesday	-6	85	0	8	NA	N
2024-12-03 21:00	2024-12-03 22:00	Tuesday	-6.6	87	0	8	NA	N
2024-12-03 22:00	2024-12-03 23:00	Tuesday	-7	91	0	9	Mainly Clear	N
2024-12-03 23:00	2024-12-04 00:00	Tuesday	-6.9	92	0	9	NA	N
2024-12-04 00:00	2024-12-04 01:00	Wednesday	-6.6	92	0	11	NA	N

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-12-04 01:00	2024-12-04 02:00	Wednesday	-6.8	94	0	12	Mostly Cloudy	N
2024-12-04 02:00	2024-12-04 03:00	Wednesday	-6.2	98	0	10	NA	N
2024-12-04 03:00	2024-12-04 04:00	Wednesday	-5.8	94	0	15	NA	N
2024-12-04 04:00	2024-12-04 05:00	Wednesday	-4.8	89	0	14	Cloudy	N
2024-12-04 05:00	2024-12-04 06:00	Wednesday	-5.4	95	0	11	NA	N
2024-12-04 06:00	2024-12-04 07:00	Wednesday	-4.9	100	0	14	NA	N
2024-12-04 07:00	2024-12-04 08:00	Wednesday	-4.1	100	0	15	Cloudy	N
2024-12-04 08:00	2024-12-04 09:00	Wednesday	-3.7	100	0	19	Snow	Y
2024-12-04 09:00	2024-12-04 10:00	Wednesday	-3	100	0	17	Snow	Y
2024-12-04 10:00	2024-12-04 11:00	Wednesday	-2.5	100	0	17	Snow	Y
2024-12-04 11:00	2024-12-04 12:00	Wednesday	-1.7	100	0	18	Snow	Y
2024-12-04 12:00	2024-12-04 13:00	Wednesday	-1.2	90	0	24	Snow	Y
2024-12-04 13:00	2024-12-04 14:00	Wednesday	-1.4	93	0	26	Snow	Y
2024-12-04 14:00	2024-12-04 15:00	Wednesday	-1.8	99	0	18	Snow	Y
2024-12-04 15:00	2024-12-04 16:00	Wednesday	-1.8	90	0	23	Snow	Y
2024-12-04 16:00	2024-12-04 17:00	Wednesday	-1.9	91	0	27	Snow	Y
2024-12-04 17:00	2024-12-04 18:00	Wednesday	-2	95	0	22	Snow, Blowing Snow	Y
2024-12-04 18:00	2024-12-04 19:00	Wednesday	-2	96	0	19	Blowing Snow	Y
2024-12-04 19:00	2024-12-04 20:00	Wednesday	-2.2	100	0	18	Snow	Y
2024-12-04 20:00	2024-12-04 21:00	Wednesday	-1.9	89	0	18	Snow	Y
2024-12-04 21:00	2024-12-04 22:00	Wednesday	-2.2	98	0	18	Snow	Y
2024-12-04 22:00	2024-12-04 23:00	Wednesday	-2.2	100	0	20	Snow	Y
2024-12-04 23:00	2024-12-05 00:00	Wednesday	-2.1	96	0	21	Snow	Y
2024-12-05 00:00	2024-12-05 01:00	Thursday	-2	96	0	21	Snow	Y
2024-12-05 01:00	2024-12-05 02:00	Thursday	-1.7	92	0	18	Snow	Y
2024-12-05 02:00	2024-12-05 03:00	Thursday	-1.5	91	0	18	Snow	Y
2024-12-05 03:00	2024-12-05 04:00	Thursday	-1.7	96	0	21	Snow	Y
2024-12-05 04:00	2024-12-05 05:00	Thursday	-1.4	98	0	18	Snow	Y
2024-12-05 05:00	2024-12-05 06:00	Thursday	-1.5	100	0	10	Snow	Y
2024-12-05 06:00	2024-12-05 07:00	Thursday	-1.3	100	0	13	Snow	Y
2024-12-05 07:00	2024-12-05 08:00	Thursday	-0.9	100	0	12	Snow	Y
2024-12-05 08:00	2024-12-05 09:00	Thursday	-0.9	100	0	12	Snow	Y
2024-12-05 09:00	2024-12-05 10:00	Thursday	-0.2	100	0	13	Snow	Y
2024-12-05 10:00	2024-12-05 11:00	Thursday	0	100	0	16	Snow	Y

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-12-05 11:00	2024-12-05 12:00	Thursday	0.2	98	0	22	Snow	Y
2024-12-05 12:00	2024-12-05 13:00	Thursday	0	96	0	29	Snow	Y
2024-12-05 13:00	2024-12-05 14:00	Thursday	0	96	0	22	Snow	Y
2024-12-05 14:00	2024-12-05 15:00	Thursday	0.1	95	0	27	Snow	Y
2024-12-05 15:00	2024-12-05 16:00	Thursday	0	98	0	27	Snow	Y
2024-12-05 16:00	2024-12-05 17:00	Thursday	-0.1	91	0	23	Snow	Y
2024-12-05 17:00	2024-12-05 18:00	Thursday	-1.6	97	0	35	Snow, Blowing Snow	Y
2024-12-05 18:00	2024-12-05 19:00	Thursday	-2.3	96	0	37	Snow, Blowing Snow	Y
2024-12-05 19:00	2024-12-05 20:00	Thursday	-2.5	84	0	35	Snow, Blowing Snow	Y
2024-12-05 20:00	2024-12-05 21:00	Thursday	-3.2	79	0	35	Snow, Blowing Snow	Y
2024-12-05 21:00	2024-12-05 22:00	Thursday	-3.9	73	0	41	Blowing Snow	Y
2024-12-05 22:00	2024-12-05 23:00	Thursday	-4.1	73	0	39	Snow, Blowing Snow	Y
2024-12-05 23:00	2024-12-06 00:00	Thursday	-5	71	0	39	Snow, Blowing Snow	Y
2024-12-06 00:00	2024-12-06 01:00	Friday	-5.4	69	0	41	Snow, Blowing Snow	Y
2024-12-06 01:00	2024-12-06 02:00	Friday	-6.5	67	0	28	Blowing Snow	Y
2024-12-06 02:00	2024-12-06 03:00	Friday	-6.3	62	0	28	Blowing Snow	Y
2024-12-06 03:00	2024-12-06 04:00	Friday	-6.6	65	0	36	Blowing Snow	Y
2024-12-06 04:00	2024-12-06 05:00	Friday	-7	71	0	40	Snow Showers, Blowing Snow	Y
2024-12-06 05:00	2024-12-06 06:00	Friday	-8	78	0	22	Snow Showers, Blowing Snow	Y
2024-12-06 06:00	2024-12-06 07:00	Friday	-8.8	74	0	25	Snow Showers, Blowing Snow	Y
2024-12-06 07:00	2024-12-06 08:00	Friday	-9.1	70	0	29	Blowing Snow	Y
2024-12-06 08:00	2024-12-06 09:00	Friday	-9.2	71	0	31	Snow	Y
2024-12-06 09:00	2024-12-06 10:00	Friday	-9.1	67	0	28	NA	Y
2024-12-06 10:00	2024-12-06 11:00	Friday	-9.1	66	0	28	Mostly Cloudy	Y
2024-12-06 11:00	2024-12-06 12:00	Friday	-8	63	0	30	NA	Y
2024-12-06 12:00	2024-12-06 13:00	Friday	-7.9	61	0	25	NA	Y
2024-12-06 13:00	2024-12-06 14:00	Friday	-7.9	67	0	18	Mostly Cloudy	Y
2024-12-06 14:00	2024-12-06 15:00	Friday	-7.8	61	0	23	NA	Y
2024-12-06 15:00	2024-12-06 16:00	Friday	-7.8	61	0	14	NA	N
2024-12-06 16:00	2024-12-06 17:00	Friday	-8.5	65	0	6	Mainly Clear	N
2024-12-06 17:00	2024-12-06 18:00	Friday	-9	70	0	4	NA	N
2024-12-06 18:00	2024-12-06 19:00	Friday	-8.6	69	0	9	NA	N
2024-12-06 19:00	2024-12-06 20:00	Friday	-8.6	72	0	10	Mostly Cloudy	N
2024-12-06 20:00	2024-12-06 21:00	Friday	-9.3	74	0	6	NA	N

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-12-06 21:00	2024-12-06 22:00	Friday	-9.1	77	0	0	NA	N
2024-12-06 22:00	2024-12-06 23:00	Friday	-8.6	78	0	4	Cloudy	N
2024-12-06 23:00	2024-12-07 00:00	Friday	-8.5	82	0	7	NA	N
2024-12-07 00:00	2024-12-07 01:00	Saturday	-8.3	85	0	5	NA	N
2024-12-07 01:00	2024-12-07 02:00	Saturday	-7.7	87	0	8	Cloudy	N
2024-12-07 02:00	2024-12-07 03:00	Saturday	-7.5	90	0	7	NA	N
2024-12-07 03:00	2024-12-07 04:00	Saturday	-7.7	91	0	5	NA	N
2024-12-07 04:00	2024-12-07 05:00	Saturday	-7.4	90	0	5	Mostly Cloudy	N
2024-12-07 05:00	2024-12-07 06:00	Saturday	-7	85	0	8	NA	N
2024-12-07 06:00	2024-12-07 07:00	Saturday	-6.6	79	0	12	NA	N
2024-12-07 07:00	2024-12-07 08:00	Saturday	-7.2	78	0	9	Mostly Cloudy	N
2024-12-07 08:00	2024-12-07 09:00	Saturday	-7.5	75	0	8	NA	N
2024-12-07 09:00	2024-12-07 10:00	Saturday	-7.3	74	0	12	NA	N
2024-12-07 10:00	2024-12-07 11:00	Saturday	-7.2	68	0	13	Cloudy	N
2024-12-07 11:00	2024-12-07 12:00	Saturday	-6.6	66	0	3	NA	N
2024-12-07 12:00	2024-12-07 13:00	Saturday	-6.3	68	0	0	NA	N
2024-12-07 13:00	2024-12-07 14:00	Saturday	-6.1	70	0	5	Cloudy	N
2024-12-07 14:00	2024-12-07 15:00	Saturday	-6.2	70	0	6	NA	N
2024-12-07 15:00	2024-12-07 16:00	Saturday	-6.3	73	0	11	NA	N
2024-12-07 16:00	2024-12-07 17:00	Saturday	-6.6	80	0	14	Snow	Y
2024-12-07 17:00	2024-12-07 18:00	Saturday	-7.1	86	0	14	Snow	Y
2024-12-07 18:00	2024-12-07 19:00	Saturday	-7.5	94	0	16	Snow	Y
2024-12-07 19:00	2024-12-07 20:00	Saturday	-7.6	95	0	17	Snow	Y
2024-12-07 20:00	2024-12-07 21:00	Saturday	-7.4	96	0	19	Snow	Y
2024-12-07 21:00	2024-12-07 22:00	Saturday	-7	98	0	15	Snow	Y
2024-12-07 22:00	2024-12-07 23:00	Saturday	-6.7	100	0	18	Moderate Snow	Y
2024-12-07 23:00	2024-12-08 00:00	Saturday	-5.2	100	0	15	Snow	Y
2024-12-08 00:00	2024-12-08 01:00	Sunday	-2	100	0	22	Snow	Y
2024-12-08 01:00	2024-12-08 02:00	Sunday	-1.8	100	0	22	Snow	Y
2024-12-08 02:00	2024-12-08 03:00	Sunday	-1.7	100	0	18	Snow	Y
2024-12-08 03:00	2024-12-08 04:00	Sunday	-1.3	100	0	19	Snow	Y
2024-12-08 04:00	2024-12-08 05:00	Sunday	-0.9	100	0	20	Moderate Snow	Y
2024-12-08 05:00	2024-12-08 06:00	Sunday	0.3	100	0	19	Snow	Y
2024-12-08 06:00	2024-12-08 07:00	Sunday	1.2	100	0	22	Fog	Y

From	To	Day	Temperature [a] (°C)	Relative Humidity [a] (%)	Precipitation [a] (mm)	Wind Speed [a] (km/h)	Weather [b]	Inclement Weather (Y/N)
2024-12-08 07:00	2024-12-08 08:00	Sunday	1.7	96	0	19	Cloudy	Y
2024-12-08 08:00	2024-12-08 09:00	Sunday	2	94	0	23	NA	Y
2024-12-08 09:00	2024-12-08 10:00	Sunday	2	96	0	17	NA	Y
2024-12-08 10:00	2024-12-08 11:00	Sunday	2.6	91	0	18	Cloudy	Y
2024-12-08 11:00	2024-12-08 12:00	Sunday	1.8	86	0	26	NA	Y
2024-12-08 12:00	2024-12-08 13:00	Sunday	2	77	0	28	NA	Y
2024-12-08 13:00	2024-12-08 14:00	Sunday	1.6	70	0	32	Mostly Cloudy	Y
2024-12-08 14:00	2024-12-08 15:00	Sunday	-0.4	74	0	28	NA	Y
2024-12-08 15:00	2024-12-08 16:00	Sunday	-0.7	72	0	25	NA	Y
2024-12-08 16:00	2024-12-08 17:00	Sunday	-1.6	70	0	25	Mostly Cloudy	Y
2024-12-08 17:00	2024-12-08 18:00	Sunday	-2.2	71	0	21	NA	Y
2024-12-08 18:00	2024-12-08 19:00	Sunday	-3	73	0	25	NA	Y
2024-12-08 19:00	2024-12-08 20:00	Sunday	-4.4	74	0	19	Mainly Clear	Y
2024-12-08 20:00	2024-12-08 21:00	Sunday	-4.9	76	0	17	NA	Y
2024-12-08 21:00	2024-12-08 22:00	Sunday	-4.7	78	0	14	NA	N
2024-12-08 22:00	2024-12-08 23:00	Sunday	-4.5	76	0	18	Cloudy	N
2024-12-08 23:00	2024-12-09 00:00	Sunday	-5	80	0	8	NA	N
2024-12-09 00:00	2024-12-09 01:00	Monday	-4.9	77	0	10	NA	N

Notes:

a. Weather Data obtained from Environment Canada online data for weather station " Ottawa Intl A ".

b. Following the sound level meter manufacturer and NPC-103 guidance, inclement weather conditions are considered to have occurred during any of the following conditions: Wind speed greater than 15 km/h; Temperature outside of the operating range (-10°C to +50°C) defined by the manufacturer of the sound level meter; Relative humidity outside of the operating range (30% to 90%) defined by the manufacturer of the sound level meter; or Precipitation has occurred.

Appendix F Impact Assessment Tables

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR1		OPOR1		POR2		OPOR2		POR3		OPOR3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS001	Battery Energy Storage System 001	1292	3	1264	3	1121	9	1106	8	853	13	814	12
BESS002	Battery Energy Storage System 002	1300	3	1272	3	1118	9	1102	8	846	13	806	12
BESS003	Battery Energy Storage System 003	1308	3	1280	3	1115	9	1099	8	838	13	799	12
BESS004	Battery Energy Storage System 004	1316	7	1288	7	1112	9	1096	8	830	13	791	13
BESS005	Battery Energy Storage System 005	1324	7	1295	7	1109	9	1093	8	823	13	783	13
BESS006	Battery Energy Storage System 006	1331	7	1303	7	1105	9	1089	8	815	13	776	13
BESS007	Battery Energy Storage System 007	1339	7	1311	7	1102	9	1086	8	808	13	768	13
BESS008	Battery Energy Storage System 008	1347	7	1319	7	1099	9	1083	8	800	13	761	13
BESS009	Battery Energy Storage System 009	1355	6	1327	7	1096	9	1080	8	793	14	753	13
BESS010	Battery Energy Storage System 010	1363	6	1335	7	1094	9	1077	9	785	14	746	13
BESS011	Battery Energy Storage System 011	1371	6	1343	7	1091	10	1075	9	778	14	738	13
BESS012	Battery Energy Storage System 012	1379	6	1351	6	1088	10	1072	9	770	14	730	13
BESS013	Battery Energy Storage System 013	1293	3	1265	3	1124	9	1108	8	854	13	815	13
BESS014	Battery Energy Storage System 014	1301	3	1272	3	1121	9	1105	8	847	13	807	13
BESS015	Battery Energy Storage System 015	1308	3	1280	3	1118	9	1102	8	839	13	800	13
BESS016	Battery Energy Storage System 016	1316	3	1288	3	1114	9	1098	8	831	13	792	13
BESS017	Battery Energy Storage System 017	1324	3	1296	3	1111	9	1095	8	824	13	784	13
BESS018	Battery Energy Storage System 018	1332	3	1304	3	1108	9	1092	8	816	13	777	13
BESS019	Battery Energy Storage System 019	1340	3	1312	3	1105	9	1089	8	809	13	769	13
BESS020	Battery Energy Storage System 020	1348	2	1320	3	1102	9	1086	8	801	14	762	13
BESS021	Battery Energy Storage System 021	1356	6	1328	3	1099	9	1083	8	794	14	754	13
BESS022	Battery Energy Storage System 022	1364	6	1335	3	1096	10	1080	9	786	14	747	13
BESS023	Battery Energy Storage System 023	1371	6	1343	3	1093	10	1077	9	779	14	739	13
BESS024	Battery Energy Storage System 024	1379	6	1351	2	1091	10	1075	9	771	14	732	13
BESS025	Battery Energy Storage System 025	1296	7	1268	7	1138	9	1122	8	859	13	820	8
BESS026	Battery Energy Storage System 026	1304	7	1276	7	1134	9	1119	8	852	13	812	8
BESS027	Battery Energy Storage System 027	1312	7	1284	7	1131	9	1115	8	844	13	805	9
BESS028	Battery Energy Storage System 028	1320	3	1292	3	1128	9	1112	8	837	14	797	9
BESS029	Battery Energy Storage System 029	1328	3	1299	3	1125	9	1109	8	829	14	790	9
BESS030	Battery Energy Storage System 030	1335	3	1307	3	1122	9	1106	8	822	14	782	9
BESS031	Battery Energy Storage System 031	1343	3	1315	3	1119	9	1103	8	814	14	774	9
BESS032	Battery Energy Storage System 032	1351	2	1323	3	1116	9	1100	8	807	14	767	9
BESS033	Battery Energy Storage System 033	1359	2	1331	3	1113	10	1097	9	799	14	759	13
BESS034	Battery Energy Storage System 034	1367	2	1339	3	1110	10	1094	9	792	14	752	13
BESS035	Battery Energy Storage System 035	1375	2	1346	3	1107	10	1091	9	784	14	745	13
BESS036	Battery Energy Storage System 036	1383	2	1354	3	1105	10	1088	9	777	14	737	13
BESS037	Battery Energy Storage System 037	1297	3	1269	3	1140	9	1124	8	860	13	821	8
BESS038	Battery Energy Storage System 038	1305	7	1277	7	1137	9	1121	8	853	13	813	8
BESS039	Battery Energy Storage System 039	1312	7	1284	3	1134	9	1118	8	845	13	806	9
BESS040	Battery Energy Storage System 040	1320	7	1292	3	1131	9	1115	8	838	14	798	9
BESS041	Battery Energy Storage System 041	1328	7	1300	3	1128	9	1112	8	830	14	791	9
BESS042	Battery Energy Storage System 042	1336	3	1308	3	1125	9	1109	8	823	14	783	9
BESS043	Battery Energy Storage System 043	1344	3	1316	3	1122	9	1106	8	815	14	776	9
BESS044	Battery Energy Storage System 044	1352	3	1324	3	1119	10	1103	8	808	14	768	9
BESS045	Battery Energy Storage System 045	1360	2	1331	3	1116	10	1100	9	800	14	761	9
BESS046	Battery Energy Storage System 046	1367	2	1339	3	1113	10	1097	9	793	14	753	13
BESS047	Battery Energy Storage System 047	1375	2	1347	3	1110	10	1094	9	785	14	746	13
BESS048	Battery Energy Storage System 048	1383	2	1355	3	1107	10	1091	9	778	14	738	13
BESS049	Battery Energy Storage System 049	1301	3	1272	3	1155	9	1139	8	866	14	826	9
BESS050	Battery Energy Storage System 050	1308	3	1280	3	1151	9	1136	8	858	14	819	11
BESS051	Battery Energy Storage System 051	1316	3	1288	3	1148	9	1132	8	851	13	811	9
BESS052	Battery Energy Storage System 052	1324	3	1296	3	1145	9	1129	8	843	14	804	9
BESS053	Battery Energy Storage System 053	1332	3	1304	3	1142	9	1126	8	836	14	796	9

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR1		OPOR1		POR2		OPOR2		POR3		OPOR3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS054	Battery Energy Storage System 054	1340	3	1312	3	1139	10	1123	8	828	14	789	9
BESS055	Battery Energy Storage System 055	1347	3	1319	3	1136	10	1120	8	821	14	781	9
BESS056	Battery Energy Storage System 056	1355	2	1327	3	1133	10	1117	9	814	14	774	9
BESS057	Battery Energy Storage System 057	1363	2	1335	3	1130	10	1114	9	806	14	767	13
BESS058	Battery Energy Storage System 058	1371	2	1343	3	1128	10	1111	9	799	14	759	13
BESS059	Battery Energy Storage System 059	1301	3	1273	3	1157	9	1141	8	867	14	827	9
BESS060	Battery Energy Storage System 060	1309	3	1281	3	1154	9	1138	8	859	14	820	10
BESS061	Battery Energy Storage System 061	1317	3	1289	3	1151	9	1135	8	852	13	812	9
BESS062	Battery Energy Storage System 062	1325	3	1297	3	1148	9	1132	8	844	14	805	9
BESS063	Battery Energy Storage System 063	1333	3	1304	3	1145	10	1129	8	837	14	797	9
BESS064	Battery Energy Storage System 064	1340	3	1312	3	1142	10	1126	8	830	14	790	9
BESS065	Battery Energy Storage System 065	1348	3	1320	3	1139	10	1123	9	822	14	783	9
BESS066	Battery Energy Storage System 066	1356	2	1328	3	1136	10	1120	9	815	14	775	13
BESS067	Battery Energy Storage System 067	1364	2	1336	3	1133	10	1117	9	807	14	768	13
BESS068	Battery Energy Storage System 068	1372	2	1344	3	1130	10	1114	9	800	14	760	13
BESS069	Battery Energy Storage System 069	1305	7	1277	7	1171	9	1155	8	872	13	833	8
BESS070	Battery Energy Storage System 070	1313	7	1285	7	1168	10	1152	8	865	13	825	8
BESS071	Battery Energy Storage System 071	1321	7	1293	7	1165	10	1149	8	858	13	818	8
BESS072	Battery Energy Storage System 072	1328	3	1300	3	1162	10	1146	8	850	13	811	9
BESS073	Battery Energy Storage System 073	1336	3	1308	3	1159	10	1143	8	843	14	803	9
BESS074	Battery Energy Storage System 074	1344	3	1316	3	1156	10	1140	9	835	14	796	9
BESS075	Battery Energy Storage System 075	1352	2	1324	3	1153	10	1137	9	828	14	788	9
BESS076	Battery Energy Storage System 076	1360	2	1332	3	1150	10	1134	9	821	14	781	13
BESS077	Battery Energy Storage System 077	1367	2	1339	3	1147	10	1131	9	813	14	774	13
BESS078	Battery Energy Storage System 078	1375	2	1347	3	1144	10	1128	9	806	14	766	13
BESS079	Battery Energy Storage System 079	1306	7	1278	7	1174	10	1158	8	874	13	834	8
BESS080	Battery Energy Storage System 080	1314	7	1286	7	1171	10	1155	8	866	13	827	8
BESS081	Battery Energy Storage System 081	1321	7	1293	3	1167	10	1151	8	859	13	819	8
BESS082	Battery Energy Storage System 082	1329	7	1301	3	1164	10	1148	8	851	13	812	9
BESS083	Battery Energy Storage System 083	1337	3	1309	3	1161	10	1145	9	844	14	804	9
BESS084	Battery Energy Storage System 084	1345	3	1317	3	1158	10	1142	9	837	14	797	9
BESS085	Battery Energy Storage System 085	1353	2	1324	3	1156	10	1139	9	829	14	790	9
BESS086	Battery Energy Storage System 086	1360	2	1332	3	1153	10	1137	9	822	14	782	9
BESS087	Battery Energy Storage System 087	1368	2	1340	3	1150	10	1134	9	814	14	775	13
BESS088	Battery Energy Storage System 088	1376	2	1348	3	1147	10	1131	9	807	14	768	13
BESS089	Battery Energy Storage System 089	1310	7	1282	7	1188	9	1172	8	880	13	840	8
BESS090	Battery Energy Storage System 090	1318	7	1290	7	1185	9	1169	8	872	13	833	8
BESS091	Battery Energy Storage System 091	1325	7	1297	7	1182	10	1166	8	865	13	825	8
BESS092	Battery Energy Storage System 092	1333	7	1305	7	1179	10	1163	8	858	13	818	8
BESS093	Battery Energy Storage System 093	1341	7	1313	7	1176	10	1160	8	850	13	811	9
BESS094	Battery Energy Storage System 094	1349	7	1321	7	1173	10	1157	8	843	13	803	9
BESS095	Battery Energy Storage System 095	1357	6	1329	7	1170	10	1154	8	836	13	796	9
BESS096	Battery Energy Storage System 096	1364	2	1336	3	1167	10	1151	9	828	13	789	13
BESS097	Battery Energy Storage System 097	1372	2	1344	3	1165	10	1148	9	821	13	782	13
BESS098	Battery Energy Storage System 098	1380	2	1352	3	1162	10	1146	9	814	13	774	13
BESS099	Battery Energy Storage System 099	1388	2	1360	3	1159	10	1143	9	807	14	767	13
BESS100	Battery Energy Storage System 100	1311	7	1283	7	1191	9	1175	8	881	13	841	8
BESS101	Battery Energy Storage System 101	1318	7	1291	7	1188	9	1172	8	874	13	834	8
BESS102	Battery Energy Storage System 102	1326	7	1298	7	1185	10	1169	8	866	13	827	8
BESS103	Battery Energy Storage System 103	1334	7	1306	7	1182	10	1166	8	859	13	819	8
BESS104	Battery Energy Storage System 104	1342	7	1314	7	1179	10	1163	8	852	13	812	9
BESS105	Battery Energy Storage System 105	1350	7	1322	7	1176	10	1160	8	844	13	805	9
BESS106	Battery Energy Storage System 106	1357	6	1329	7	1173	10	1157	8	837	13	797	13

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR1		OPOR1		POR2		OPOR2		POR3		OPOR3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS107	Battery Energy Storage System 107	1365	6	1337	7	1170	10	1154	9	830	13	790	13
BESS108	Battery Energy Storage System 108	1373	2	1345	3	1167	10	1151	9	822	13	783	13
BESS109	Battery Energy Storage System 109	1381	2	1353	3	1165	10	1148	9	815	13	776	13
BESS110	Battery Energy Storage System 110	1388	2	1360	3	1162	10	1146	9	808	14	768	13
BESS111	Battery Energy Storage System 111	1315	7	1287	7	1205	9	1189	8	887	13	847	8
BESS112	Battery Energy Storage System 112	1323	7	1295	7	1201	9	1185	8	880	13	840	8
BESS113	Battery Energy Storage System 113	1330	7	1302	7	1198	9	1182	8	872	13	833	8
BESS114	Battery Energy Storage System 114	1338	3	1310	3	1195	9	1179	8	865	13	826	8
BESS115	Battery Energy Storage System 115	1346	3	1318	3	1193	9	1176	8	858	13	818	8
BESS116	Battery Energy Storage System 116	1354	2	1326	3	1190	9	1174	8	851	13	811	8
BESS117	Battery Energy Storage System 117	1361	2	1333	3	1187	9	1171	8	843	13	804	13
BESS118	Battery Energy Storage System 118	1369	2	1341	3	1184	10	1168	8	836	13	797	13
BESS119	Battery Energy Storage System 119	1377	2	1349	3	1181	10	1165	8	829	13	789	13
BESS120	Battery Energy Storage System 120	1385	2	1357	2	1179	9	1162	8	822	13	782	13
BESS121	Battery Energy Storage System 121	1392	2	1364	3	1176	10	1160	9	814	14	775	13
BESS122	Battery Energy Storage System 122	1316	7	1288	7	1207	9	1191	8	888	13	849	8
BESS123	Battery Energy Storage System 123	1323	7	1296	7	1204	9	1188	8	881	13	841	8
BESS124	Battery Energy Storage System 124	1331	7	1303	7	1201	9	1185	8	874	13	834	8
BESS125	Battery Energy Storage System 125	1339	7	1311	7	1198	9	1182	8	866	13	827	8
BESS126	Battery Energy Storage System 126	1347	3	1319	3	1195	9	1179	8	859	13	820	8
BESS127	Battery Energy Storage System 127	1354	2	1326	3	1192	9	1176	8	852	13	812	8
BESS128	Battery Energy Storage System 128	1362	2	1334	3	1190	9	1173	8	845	13	805	13
BESS129	Battery Energy Storage System 129	1370	2	1342	3	1187	9	1171	8	837	13	798	13
BESS130	Battery Energy Storage System 130	1378	2	1350	3	1184	10	1168	8	830	13	791	13
BESS131	Battery Energy Storage System 131	1385	2	1357	2	1181	9	1165	8	823	13	784	13
BESS132	Battery Energy Storage System 132	1393	2	1365	3	1179	10	1163	9	816	14	776	13
BESS133	Battery Energy Storage System 133	1320	3	1292	3	1222	9	1206	8	895	13	855	8
BESS134	Battery Energy Storage System 134	1328	3	1300	3	1219	9	1203	8	888	13	848	8
BESS135	Battery Energy Storage System 135	1336	3	1308	3	1216	9	1200	8	880	13	841	8
BESS136	Battery Energy Storage System 136	1343	3	1316	3	1213	9	1197	8	873	13	834	8
BESS137	Battery Energy Storage System 137	1351	7	1323	3	1210	9	1194	8	866	13	827	8
BESS138	Battery Energy Storage System 138	1359	6	1331	3	1207	9	1191	8	859	13	819	8
BESS139	Battery Energy Storage System 139	1367	2	1339	3	1204	9	1188	8	852	13	812	13
BESS140	Battery Energy Storage System 140	1374	2	1346	3	1201	9	1185	8	844	13	805	13
BESS141	Battery Energy Storage System 141	1382	2	1354	2	1199	9	1183	8	837	13	798	13
BESS142	Battery Energy Storage System 142	1321	3	1293	3	1224	9	1208	8	896	13	857	8
BESS143	Battery Energy Storage System 143	1329	3	1301	3	1221	9	1205	8	889	13	849	8
BESS144	Battery Energy Storage System 144	1337	3	1309	3	1218	9	1202	8	882	13	842	8
BESS145	Battery Energy Storage System 145	1344	3	1316	3	1216	9	1199	8	874	13	835	8
BESS146	Battery Energy Storage System 146	1352	2	1324	3	1213	9	1197	8	867	13	828	8
BESS147	Battery Energy Storage System 147	1360	6	1332	3	1210	9	1194	8	860	13	821	8
BESS148	Battery Energy Storage System 148	1367	6	1339	3	1207	9	1191	8	853	13	814	13
BESS149	Battery Energy Storage System 149	1375	2	1347	3	1204	9	1188	8	846	13	806	13
BESS150	Battery Energy Storage System 150	1383	2	1355	2	1202	9	1185	8	839	13	799	13
BESS151	Battery Energy Storage System 151	1326	3	1298	3	1238	9	1222	8	903	13	863	8
BESS152	Battery Energy Storage System 152	1333	3	1306	3	1235	9	1219	8	896	13	856	8
BESS153	Battery Energy Storage System 153	1341	3	1313	3	1232	9	1216	8	888	13	849	8
BESS154	Battery Energy Storage System 154	1349	3	1321	3	1229	9	1213	8	881	13	842	8
BESS155	Battery Energy Storage System 155	1356	2	1329	3	1227	9	1210	8	874	13	835	8
BESS156	Battery Energy Storage System 156	1364	2	1336	3	1224	9	1208	8	867	13	828	8
BESS157	Battery Energy Storage System 157	1372	2	1344	3	1221	9	1205	8	860	13	820	13
BESS158	Battery Energy Storage System 158	1379	2	1352	2	1218	9	1202	8	853	13	813	12
BESS159	Battery Energy Storage System 159	1387	2	1359	2	1216	9	1199	8	846	13	806	12

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR1		OPOR1		POR2		OPOR2		POR3		OPOR3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS160	Battery Energy Storage System 160	1327	3	1299	3	1241	9	1225	8	904	13	865	8
BESS161	Battery Energy Storage System 161	1334	3	1306	3	1238	9	1222	8	897	13	857	8
BESS162	Battery Energy Storage System 162	1342	3	1314	3	1235	9	1219	8	890	13	850	8
BESS163	Battery Energy Storage System 163	1350	2	1322	3	1232	9	1216	8	883	13	843	8
BESS164	Battery Energy Storage System 164	1357	2	1329	3	1229	9	1213	8	875	13	836	8
BESS165	Battery Energy Storage System 165	1365	2	1337	3	1226	9	1210	8	868	13	829	12
BESS166	Battery Energy Storage System 166	1373	2	1345	3	1224	9	1208	8	861	13	822	12
BESS167	Battery Energy Storage System 167	1380	2	1352	2	1221	9	1205	8	854	13	815	12
BESS168	Battery Energy Storage System 168	1388	2	1360	2	1218	9	1202	8	847	13	808	12
BESS169	Battery Energy Storage System 169	1331	3	1304	3	1255	9	1239	8	911	13	872	8
BESS170	Battery Energy Storage System 170	1339	3	1311	3	1253	9	1236	8	904	13	865	8
BESS171	Battery Energy Storage System 171	1347	3	1319	3	1250	9	1234	8	897	13	858	8
BESS172	Battery Energy Storage System 172	1332	3	1305	3	1258	9	1242	8	913	13	873	8
BESS173	Battery Energy Storage System 173	1340	3	1312	3	1255	9	1239	8	906	13	866	8
BESS174	Battery Energy Storage System 174	1348	3	1320	3	1252	9	1236	8	898	13	859	8
BESS175	Battery Energy Storage System 175	1355	2	1328	3	1250	9	1233	8	891	13	852	8
BESS176	Battery Energy Storage System 176	1363	2	1335	3	1247	9	1231	8	884	13	845	8
BESS177	Battery Energy Storage System 177	1371	2	1343	3	1244	9	1228	8	877	13	838	12
BESS178	Battery Energy Storage System 178	1337	2	1310	2	1272	9	1256	8	920	13	880	8
BESS179	Battery Energy Storage System 179	1345	2	1317	2	1269	9	1253	8	913	13	873	8
BESS180	Battery Energy Storage System 180	1353	2	1325	2	1266	9	1250	8	906	13	866	8
BESS181	Battery Energy Storage System 181	1360	2	1333	2	1263	9	1247	8	899	13	859	12
BESS182	Battery Energy Storage System 182	1368	2	1340	2	1261	9	1245	8	892	13	852	12
BESS183	Battery Energy Storage System 183	1375	2	1348	2	1258	9	1242	8	885	13	845	12
BESS184	Battery Energy Storage System 184	1338	2	1311	2	1275	9	1259	8	921	12	882	8
BESS185	Battery Energy Storage System 185	1346	2	1318	2	1272	9	1256	8	914	13	875	8
BESS186	Battery Energy Storage System 186	1353	2	1326	2	1269	9	1253	8	907	13	868	12
BESS187	Battery Energy Storage System 187	1361	2	1334	2	1266	9	1250	8	900	13	861	12
BESS188	Battery Energy Storage System 188	1369	2	1341	2	1263	9	1247	8	893	13	854	12
BESS189	Battery Energy Storage System 189	1376	2	1349	2	1261	9	1245	8	886	13	847	12
MVS001	Medium Voltage Substation 001	1294	7	1266	7	1131	6	1115	5	857	9	817	9
MVS002	Medium Voltage Substation 002	1302	4	1274	4	1128	6	1112	5	849	9	810	9
MVS003	Medium Voltage Substation 003	1310	4	1282	4	1124	6	1108	5	842	9	802	9
MVS004	Medium Voltage Substation 004	1318	4	1290	4	1121	6	1105	5	834	9	794	9
MVS005	Medium Voltage Substation 005	1326	4	1298	4	1118	6	1102	5	826	9	787	9
MVS006	Medium Voltage Substation 006	1334	3	1306	4	1115	6	1099	5	819	9	779	9
MVS007	Medium Voltage Substation 007	1342	3	1313	4	1112	6	1096	5	811	10	772	9
MVS008	Medium Voltage Substation 008	1349	3	1321	4	1109	6	1093	5	804	10	764	10
MVS009	Medium Voltage Substation 009	1357	3	1329	3	1106	6	1090	5	796	10	757	10
MVS010	Medium Voltage Substation 010	1365	3	1337	3	1103	6	1087	5	789	12	749	11
MVS011	Medium Voltage Substation 011	1373	3	1345	3	1100	6	1084	5	781	14	742	12
MVS012	Medium Voltage Substation 012	1381	3	1353	3	1098	6	1082	5	774	14	734	12
MVS013	Medium Voltage Substation 013	1303	6	1275	7	1164	6	1148	5	870	9	830	9
MVS014	Medium Voltage Substation 014	1311	6	1283	7	1161	6	1145	5	862	10	823	9
MVS015	Medium Voltage Substation 015	1319	6	1291	7	1158	6	1142	5	855	9	815	9
MVS016	Medium Voltage Substation 016	1327	4	1298	4	1155	6	1139	5	847	9	808	9
MVS017	Medium Voltage Substation 017	1334	4	1306	4	1152	6	1136	5	840	10	800	9
MVS018	Medium Voltage Substation 018	1342	3	1314	4	1149	6	1133	5	832	10	793	9
MVS019	Medium Voltage Substation 019	1350	3	1322	4	1146	6	1130	5	825	10	785	9
MVS020	Medium Voltage Substation 020	1358	3	1330	4	1143	6	1127	5	818	10	778	10
MVS021	Medium Voltage Substation 021	1366	3	1338	4	1140	6	1124	5	810	11	771	11
MVS022	Medium Voltage Substation 022	1373	3	1345	3	1137	6	1121	5	803	14	763	13
MVS023	Medium Voltage Substation 023	1313	7	1285	7	1198	5	1182	5	884	9	844	9

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR1		OPOR1		POR2		OPOR2		POR3		OPOR3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
MVS024	Medium Voltage Substation 024	1321	6	1293	7	1195	5	1179	5	877	9	837	9
MVS025	Medium Voltage Substation 025	1328	6	1300	7	1192	5	1176	5	869	9	830	9
MVS026	Medium Voltage Substation 026	1336	4	1308	4	1189	6	1173	5	862	9	822	9
MVS027	Medium Voltage Substation 027	1344	3	1316	4	1186	6	1170	5	855	9	815	9
MVS028	Medium Voltage Substation 028	1352	3	1324	4	1183	6	1167	5	847	9	808	9
MVS029	Medium Voltage Substation 029	1359	3	1331	4	1180	6	1164	5	840	9	801	9
MVS030	Medium Voltage Substation 030	1367	3	1339	4	1177	6	1161	5	833	11	793	10
MVS031	Medium Voltage Substation 031	1375	3	1347	3	1174	6	1158	5	826	14	786	12
MVS032	Medium Voltage Substation 032	1383	3	1355	3	1172	6	1155	5	818	14	779	12
MVS033	Medium Voltage Substation 033	1390	3	1362	3	1169	6	1153	5	811	14	772	13
MVS034	Medium Voltage Substation 034	1323	4	1296	4	1231	5	1215	5	899	9	860	8
MVS035	Medium Voltage Substation 035	1331	4	1303	4	1228	5	1212	5	892	9	853	8
MVS036	Medium Voltage Substation 036	1339	3	1311	4	1225	5	1209	5	885	9	846	8
MVS037	Medium Voltage Substation 037	1346	3	1319	4	1222	5	1206	5	878	9	838	9
MVS038	Medium Voltage Substation 038	1354	3	1326	4	1220	5	1203	5	871	9	831	9
MVS039	Medium Voltage Substation 039	1362	3	1334	4	1217	5	1201	5	863	9	824	9
MVS040	Medium Voltage Substation 040	1370	3	1342	3	1214	5	1198	5	856	10	817	10
MVS041	Medium Voltage Substation 041	1377	3	1349	3	1211	5	1195	5	849	14	810	12
MVS042	Medium Voltage Substation 042	1385	3	1357	3	1209	5	1192	5	842	14	803	12
MVS043	Medium Voltage Substation 043	1335	3	1307	3	1265	5	1249	4	916	8	877	8
MVS044	Medium Voltage Substation 044	1342	3	1315	3	1262	5	1246	4	909	8	870	8
MVS045	Medium Voltage Substation 045	1350	3	1322	4	1259	5	1243	4	902	9	863	8
MVS046	Medium Voltage Substation 046	1358	3	1330	4	1256	5	1240	4	895	10	856	11
MVS047	Medium Voltage Substation 047	1365	3	1338	4	1254	5	1238	4	888	14	849	12
MVS048	Medium Voltage Substation 048	1373	3	1345	3	1251	5	1235	4	881	13	842	11
MPT001	Main Power Transformer	1237	37	1209	38	1163	35	1147	35	916	36	877	35
HVAC001	HVAC001	1245	18	1216	18	1133	21	1117	19	894	23	855	22

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR4		OPOR4		POR5		OPOR5		POR6		OPOR6	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS001	Battery Energy Storage System 001	842	12	811	13	765	15	737	10	1264	3	1234	3
BESS002	Battery Energy Storage System 002	834	13	803	13	758	15	730	10	1271	3	1242	3
BESS003	Battery Energy Storage System 003	826	12	795	13	752	15	724	10	1279	3	1249	3
BESS004	Battery Energy Storage System 004	818	13	787	13	745	15	717	10	1286	3	1256	3
BESS005	Battery Energy Storage System 005	810	13	779	13	739	15	711	10	1293	3	1263	3
BESS006	Battery Energy Storage System 006	802	13	771	13	732	15	704	10	1301	3	1271	3
BESS007	Battery Energy Storage System 007	794	13	763	13	726	15	697	10	1308	2	1278	3
BESS008	Battery Energy Storage System 008	786	13	755	13	719	15	691	10	1315	2	1285	3
BESS009	Battery Energy Storage System 009	778	13	747	13	713	15	685	10	1322	2	1293	3
BESS010	Battery Energy Storage System 010	770	13	739	13	707	15	678	10	1330	2	1300	3
BESS011	Battery Energy Storage System 011	762	13	731	13	700	15	672	14	1337	2	1307	2
BESS012	Battery Energy Storage System 012	755	13	724	13	694	15	665	14	1344	2	1314	2
BESS013	Battery Energy Storage System 013	842	12	811	13	763	15	735	10	1266	3	1236	3
BESS014	Battery Energy Storage System 014	834	12	803	13	757	15	729	10	1273	3	1243	3
BESS015	Battery Energy Storage System 015	826	13	795	13	750	15	722	10	1280	3	1250	3
BESS016	Battery Energy Storage System 016	818	13	787	13	744	15	715	10	1287	3	1257	3
BESS017	Battery Energy Storage System 017	810	13	780	13	737	15	709	10	1295	3	1265	3
BESS018	Battery Energy Storage System 018	803	13	772	13	731	15	702	10	1302	3	1272	3
BESS019	Battery Energy Storage System 019	795	13	764	13	724	15	696	10	1309	3	1279	3
BESS020	Battery Energy Storage System 020	787	13	756	13	718	15	689	10	1316	2	1286	3
BESS021	Battery Energy Storage System 021	779	13	748	13	711	15	683	10	1324	2	1294	3
BESS022	Battery Energy Storage System 022	771	13	740	13	705	15	676	10	1331	2	1301	3
BESS023	Battery Energy Storage System 023	763	13	732	13	699	15	670	10	1338	2	1308	3
BESS024	Battery Energy Storage System 024	755	13	724	13	692	15	664	14	1346	2	1316	2
BESS025	Battery Energy Storage System 025	845	11	814	11	755	15	727	10	1272	3	1243	3
BESS026	Battery Energy Storage System 026	837	8	806	9	748	15	720	10	1279	3	1250	3
BESS027	Battery Energy Storage System 027	829	8	798	9	742	15	714	10	1287	3	1257	3
BESS028	Battery Energy Storage System 028	821	8	790	9	735	15	707	10	1294	3	1264	3
BESS029	Battery Energy Storage System 029	813	8	782	9	728	15	700	10	1301	3	1271	3
BESS030	Battery Energy Storage System 030	806	9	775	9	722	15	694	10	1308	3	1278	3
BESS031	Battery Energy Storage System 031	798	9	767	9	715	15	687	10	1316	3	1286	3
BESS032	Battery Energy Storage System 032	790	9	759	9	709	15	680	10	1323	3	1293	3
BESS033	Battery Energy Storage System 033	782	13	751	13	702	15	674	15	1330	3	1300	3
BESS034	Battery Energy Storage System 034	774	13	743	14	696	15	667	15	1337	3	1307	3
BESS035	Battery Energy Storage System 035	766	13	735	14	689	15	661	15	1345	2	1315	3
BESS036	Battery Energy Storage System 036	758	13	727	14	683	15	655	15	1352	2	1322	3
BESS037	Battery Energy Storage System 037	846	9	815	10	753	15	726	10	1274	3	1244	3
BESS038	Battery Energy Storage System 038	838	9	807	10	747	15	719	10	1281	3	1251	3
BESS039	Battery Energy Storage System 039	830	9	799	9	740	15	712	10	1288	3	1258	3
BESS040	Battery Energy Storage System 040	822	8	791	9	733	15	705	10	1295	3	1265	3
BESS041	Battery Energy Storage System 041	814	8	783	9	727	15	699	10	1302	3	1273	3
BESS042	Battery Energy Storage System 042	806	9	775	9	720	15	692	10	1310	3	1280	3
BESS043	Battery Energy Storage System 043	798	9	767	12	714	15	685	10	1317	3	1287	3
BESS044	Battery Energy Storage System 044	790	13	759	13	707	15	679	10	1324	3	1294	3
BESS045	Battery Energy Storage System 045	783	13	751	14	700	15	672	13	1331	3	1301	3
BESS046	Battery Energy Storage System 046	775	13	744	14	694	15	666	15	1339	3	1309	3
BESS047	Battery Energy Storage System 047	767	13	736	14	688	15	659	15	1346	3	1316	3
BESS048	Battery Energy Storage System 048	759	13	728	14	681	15	653	15	1353	2	1323	3
BESS049	Battery Energy Storage System 049	849	8	818	8	745	15	717	10	1281	2	1251	3
BESS050	Battery Energy Storage System 050	841	9	810	10	738	15	710	10	1288	3	1258	3
BESS051	Battery Energy Storage System 051	833	8	802	9	731	15	704	10	1295	3	1265	3
BESS052	Battery Energy Storage System 052	825	8	794	9	725	15	697	10	1302	3	1273	3
BESS053	Battery Energy Storage System 053	817	13	786	13	718	15	690	10	1309	3	1280	3

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR4		OPOR4		POR5		OPOR5		POR6		OPOR6	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS054	Battery Energy Storage System 054	810	13	779	13	711	15	683	10	1317	3	1287	3
BESS055	Battery Energy Storage System 055	802	13	771	13	705	15	677	10	1324	3	1294	3
BESS056	Battery Energy Storage System 056	794	13	763	13	698	15	670	11	1331	3	1301	3
BESS057	Battery Energy Storage System 057	786	13	755	13	691	15	663	11	1338	3	1308	3
BESS058	Battery Energy Storage System 058	778	13	747	14	685	15	657	15	1345	3	1316	3
BESS059	Battery Energy Storage System 059	850	8	818	8	743	15	716	10	1282	2	1252	2
BESS060	Battery Energy Storage System 060	842	8	811	9	736	15	709	10	1289	3	1260	3
BESS061	Battery Energy Storage System 061	834	11	803	11	730	15	702	10	1296	3	1267	3
BESS062	Battery Energy Storage System 062	826	13	795	13	723	15	695	10	1304	3	1274	3
BESS063	Battery Energy Storage System 063	818	13	787	13	716	15	688	10	1311	3	1281	3
BESS064	Battery Energy Storage System 064	810	13	779	13	709	15	682	10	1318	3	1288	3
BESS065	Battery Energy Storage System 065	802	13	771	13	703	15	675	11	1325	3	1295	3
BESS066	Battery Energy Storage System 066	795	13	764	13	696	15	668	11	1332	3	1303	3
BESS067	Battery Energy Storage System 067	787	13	756	13	690	15	662	11	1339	3	1310	3
BESS068	Battery Energy Storage System 068	779	13	748	14	683	15	655	11	1347	3	1317	3
BESS069	Battery Energy Storage System 069	853	8	822	8	735	15	708	10	1289	3	1260	2
BESS070	Battery Energy Storage System 070	845	8	814	9	728	15	701	10	1296	3	1267	3
BESS071	Battery Energy Storage System 071	837	8	806	9	722	15	694	10	1303	3	1274	3
BESS072	Battery Energy Storage System 072	830	8	798	9	715	15	687	10	1310	3	1281	3
BESS073	Battery Energy Storage System 073	822	8	791	9	708	15	680	10	1318	3	1288	3
BESS074	Battery Energy Storage System 074	814	8	783	9	701	15	674	11	1325	3	1295	3
BESS075	Battery Energy Storage System 075	806	9	775	9	695	15	667	13	1332	3	1302	3
BESS076	Battery Energy Storage System 076	798	9	767	9	688	16	660	15	1339	3	1309	3
BESS077	Battery Energy Storage System 077	791	13	759	13	681	16	653	15	1346	3	1316	3
BESS078	Battery Energy Storage System 078	783	13	752	13	674	16	647	17	1353	2	1324	3
BESS079	Battery Energy Storage System 079	854	8	823	8	734	15	707	10	1290	3	1261	3
BESS080	Battery Energy Storage System 080	846	8	815	9	727	15	700	10	1298	3	1268	3
BESS081	Battery Energy Storage System 081	838	8	807	9	720	15	693	10	1305	3	1275	3
BESS082	Battery Energy Storage System 082	830	8	799	9	713	15	686	10	1312	3	1282	3
BESS083	Battery Energy Storage System 083	822	8	791	9	706	15	679	10	1319	3	1289	3
BESS084	Battery Energy Storage System 084	815	8	784	9	700	15	672	11	1326	3	1296	3
BESS085	Battery Energy Storage System 085	807	9	776	9	693	16	665	11	1333	3	1304	3
BESS086	Battery Energy Storage System 086	799	13	768	13	686	16	658	15	1340	3	1311	3
BESS087	Battery Energy Storage System 087	791	13	760	13	679	16	652	15	1347	3	1318	3
BESS088	Battery Energy Storage System 088	784	13	752	13	673	16	645	15	1355	2	1325	3
BESS089	Battery Energy Storage System 089	858	8	826	8	726	15	699	10	1298	3	1269	3
BESS090	Battery Energy Storage System 090	850	8	819	8	719	15	692	10	1305	3	1276	3
BESS091	Battery Energy Storage System 091	842	8	811	9	712	15	685	10	1312	3	1283	3
BESS092	Battery Energy Storage System 092	834	8	803	9	705	15	678	11	1319	3	1290	3
BESS093	Battery Energy Storage System 093	827	11	795	13	698	16	671	11	1326	3	1297	3
BESS094	Battery Energy Storage System 094	819	13	788	13	691	16	664	11	1333	3	1304	3
BESS095	Battery Energy Storage System 095	811	13	780	13	684	16	657	11	1340	3	1311	3
BESS096	Battery Energy Storage System 096	803	13	772	13	678	16	650	11	1348	3	1318	3
BESS097	Battery Energy Storage System 097	796	13	764	13	671	16	643	15	1355	2	1325	3
BESS098	Battery Energy Storage System 098	788	13	757	13	664	16	636	15	1362	2	1332	3
BESS099	Battery Energy Storage System 099	780	13	749	14	657	15	630	15	1369	2	1339	3
BESS100	Battery Energy Storage System 100	858	8	827	8	724	15	697	10	1299	3	1270	3
BESS101	Battery Energy Storage System 101	851	8	819	8	717	15	690	10	1306	3	1277	3
BESS102	Battery Energy Storage System 102	843	8	812	9	710	15	683	10	1313	3	1284	3
BESS103	Battery Energy Storage System 103	835	12	804	13	704	15	676	11	1321	3	1291	3
BESS104	Battery Energy Storage System 104	827	12	796	13	697	16	669	11	1328	3	1298	3
BESS105	Battery Energy Storage System 105	820	13	788	13	690	16	662	11	1335	3	1305	3
BESS106	Battery Energy Storage System 106	812	13	781	13	683	16	655	11	1342	3	1312	3

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR4		OPOR4		POR5		OPOR5		POR6		OPOR6	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS107	Battery Energy Storage System 107	804	13	773	13	676	16	649	11	1349	3	1319	3
BESS108	Battery Energy Storage System 108	796	13	765	13	669	16	642	11	1356	2	1326	3
BESS109	Battery Energy Storage System 109	789	13	757	13	662	16	635	15	1363	2	1334	3
BESS110	Battery Energy Storage System 110	781	13	750	14	656	15	628	15	1370	2	1341	3
BESS111	Battery Energy Storage System 111	862	8	831	8	717	15	690	10	1307	3	1277	3
BESS112	Battery Energy Storage System 112	855	8	824	8	710	15	683	10	1314	3	1284	3
BESS113	Battery Energy Storage System 113	847	8	816	8	703	15	676	11	1321	3	1291	3
BESS114	Battery Energy Storage System 114	839	8	808	9	696	16	669	11	1328	3	1298	3
BESS115	Battery Energy Storage System 115	832	12	800	9	689	16	662	11	1335	3	1305	3
BESS116	Battery Energy Storage System 116	824	12	793	9	682	16	655	15	1342	3	1312	3
BESS117	Battery Energy Storage System 117	816	8	785	9	675	16	648	15	1349	3	1319	3
BESS118	Battery Energy Storage System 118	808	12	777	13	668	16	641	15	1356	2	1326	3
BESS119	Battery Energy Storage System 119	801	12	770	13	661	16	634	17	1363	2	1334	3
BESS120	Battery Energy Storage System 120	793	13	762	13	654	16	627	15	1370	2	1341	3
BESS121	Battery Energy Storage System 121	785	13	754	13	648	15	620	15	1377	2	1348	3
BESS122	Battery Energy Storage System 122	863	8	832	8	716	15	689	10	1308	3	1279	3
BESS123	Battery Energy Storage System 123	856	8	824	8	709	15	682	10	1315	3	1286	3
BESS124	Battery Energy Storage System 124	848	8	817	8	702	15	675	11	1322	3	1293	3
BESS125	Battery Energy Storage System 125	840	8	809	9	695	16	668	11	1329	3	1300	3
BESS126	Battery Energy Storage System 126	832	8	801	9	688	16	661	11	1336	3	1307	3
BESS127	Battery Energy Storage System 127	825	8	794	9	681	16	654	13	1343	3	1314	3
BESS128	Battery Energy Storage System 128	817	12	786	13	674	16	646	15	1350	3	1321	3
BESS129	Battery Energy Storage System 129	809	12	778	13	667	16	639	15	1357	2	1328	3
BESS130	Battery Energy Storage System 130	802	13	770	13	660	16	633	15	1364	2	1335	3
BESS131	Battery Energy Storage System 131	794	12	763	13	653	16	626	15	1372	2	1342	3
BESS132	Battery Energy Storage System 132	786	13	755	13	646	15	619	15	1379	2	1349	3
BESS133	Battery Energy Storage System 133	868	8	837	8	708	15	682	10	1316	3	1287	3
BESS134	Battery Energy Storage System 134	860	8	829	8	701	15	675	11	1323	3	1294	3
BESS135	Battery Energy Storage System 135	852	8	821	8	694	16	667	11	1330	3	1301	3
BESS136	Battery Energy Storage System 136	845	8	814	8	687	16	660	11	1337	3	1308	3
BESS137	Battery Energy Storage System 137	837	12	806	13	680	16	653	11	1344	3	1315	3
BESS138	Battery Energy Storage System 138	829	12	798	13	673	16	646	11	1351	2	1322	3
BESS139	Battery Energy Storage System 139	822	12	791	13	666	16	639	11	1358	2	1329	3
BESS140	Battery Energy Storage System 140	814	12	783	13	659	16	632	15	1365	2	1336	3
BESS141	Battery Energy Storage System 141	807	12	775	13	652	16	625	15	1372	2	1343	3
BESS142	Battery Energy Storage System 142	869	8	838	8	707	15	681	10	1317	3	1288	3
BESS143	Battery Energy Storage System 143	861	8	830	8	700	15	673	11	1324	3	1295	3
BESS144	Battery Energy Storage System 144	853	8	822	8	693	16	666	11	1331	3	1302	3
BESS145	Battery Energy Storage System 145	846	12	814	13	686	16	659	11	1338	3	1309	3
BESS146	Battery Energy Storage System 146	838	12	807	13	678	16	652	11	1345	3	1316	3
BESS147	Battery Energy Storage System 147	830	12	799	13	671	16	645	11	1352	2	1323	3
BESS148	Battery Energy Storage System 148	823	12	792	13	664	16	638	11	1359	2	1330	3
BESS149	Battery Energy Storage System 149	815	12	784	13	657	16	630	15	1366	2	1337	3
BESS150	Battery Energy Storage System 150	807	12	776	13	650	16	623	15	1373	2	1344	3
BESS151	Battery Energy Storage System 151	873	8	842	8	700	15	674	13	1325	3	1296	3
BESS152	Battery Energy Storage System 152	866	8	834	8	693	16	667	15	1332	3	1303	3
BESS153	Battery Energy Storage System 153	858	8	827	8	686	16	660	15	1339	3	1310	3
BESS154	Battery Energy Storage System 154	850	8	819	8	679	16	652	15	1346	3	1317	3
BESS155	Battery Energy Storage System 155	843	12	812	13	671	16	645	15	1353	2	1324	3
BESS156	Battery Energy Storage System 156	835	12	804	13	664	16	638	15	1360	2	1331	3
BESS157	Battery Energy Storage System 157	828	12	796	13	657	16	631	15	1367	2	1337	3
BESS158	Battery Energy Storage System 158	820	12	789	13	650	16	623	15	1374	2	1344	3
BESS159	Battery Energy Storage System 159	812	12	781	13	643	16	616	15	1381	2	1351	3

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR4		OPOR4		POR5		OPOR5		POR6		OPOR6	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS160	Battery Energy Storage System 160	874	8	843	8	699	15	673	11	1327	3	1298	3
BESS161	Battery Energy Storage System 161	867	8	835	8	692	16	666	15	1334	3	1304	3
BESS162	Battery Energy Storage System 162	859	8	828	8	684	16	658	15	1340	3	1311	3
BESS163	Battery Energy Storage System 163	851	8	820	8	677	16	651	15	1347	3	1318	3
BESS164	Battery Energy Storage System 164	844	8	813	8	670	16	644	15	1354	2	1325	3
BESS165	Battery Energy Storage System 165	836	12	805	9	663	16	637	15	1361	2	1332	3
BESS166	Battery Energy Storage System 166	829	12	797	13	656	16	629	16	1368	2	1339	3
BESS167	Battery Energy Storage System 167	821	12	790	13	649	16	622	15	1375	2	1346	3
BESS168	Battery Energy Storage System 168	813	12	782	13	642	16	615	15	1382	2	1353	3
BESS169	Battery Energy Storage System 169	879	8	848	8	692	15	666	11	1335	3	1306	3
BESS170	Battery Energy Storage System 170	872	8	841	8	685	15	659	11	1342	3	1313	3
BESS171	Battery Energy Storage System 171	864	8	833	8	678	16	652	11	1349	2	1319	3
BESS172	Battery Energy Storage System 172	880	8	849	8	691	15	665	10	1336	3	1307	3
BESS173	Battery Energy Storage System 173	873	8	842	8	684	15	658	11	1343	3	1314	3
BESS174	Battery Energy Storage System 174	865	8	834	8	676	15	650	11	1350	2	1321	3
BESS175	Battery Energy Storage System 175	858	12	827	12	669	16	643	11	1357	2	1328	3
BESS176	Battery Energy Storage System 176	850	12	819	13	662	16	636	15	1364	2	1335	3
BESS177	Battery Energy Storage System 177	843	12	811	13	655	16	628	15	1371	2	1342	3
BESS178	Battery Energy Storage System 178	886	8	854	8	685	15	659	14	1344	2	1315	3
BESS179	Battery Energy Storage System 179	878	12	847	12	677	15	652	14	1351	2	1322	3
BESS180	Battery Energy Storage System 180	870	12	839	12	670	15	645	15	1358	2	1329	3
BESS181	Battery Energy Storage System 181	863	12	832	12	663	15	637	15	1365	2	1336	3
BESS182	Battery Energy Storage System 182	855	12	824	12	655	15	630	15	1372	2	1343	3
BESS183	Battery Energy Storage System 183	848	12	817	13	648	15	622	15	1378	2	1349	2
BESS184	Battery Energy Storage System 184	887	8	855	8	684	15	658	14	1346	2	1317	3
BESS185	Battery Energy Storage System 185	879	8	848	8	676	15	651	14	1353	2	1324	3
BESS186	Battery Energy Storage System 186	872	12	840	8	669	15	643	14	1359	2	1331	3
BESS187	Battery Energy Storage System 187	864	12	833	12	662	15	636	15	1366	2	1337	3
BESS188	Battery Energy Storage System 188	857	12	825	12	654	15	629	15	1373	2	1344	3
BESS189	Battery Energy Storage System 189	849	12	818	13	647	15	621	15	1380	2	1351	2
MVS001	Medium Voltage Substation 001	844	8	813	9	759	11	731	11	1269	4	1239	4
MVS002	Medium Voltage Substation 002	836	9	805	10	752	11	724	11	1276	4	1246	4
MVS003	Medium Voltage Substation 003	828	9	797	10	746	12	718	11	1283	4	1254	4
MVS004	Medium Voltage Substation 004	820	9	789	10	739	12	711	11	1291	4	1261	4
MVS005	Medium Voltage Substation 005	812	9	781	10	733	12	705	11	1298	4	1268	4
MVS006	Medium Voltage Substation 006	804	10	773	10	726	12	698	12	1305	4	1275	4
MVS007	Medium Voltage Substation 007	796	10	765	10	720	12	691	12	1312	4	1282	4
MVS008	Medium Voltage Substation 008	788	10	757	10	713	12	685	12	1320	4	1290	4
MVS009	Medium Voltage Substation 009	780	12	749	12	707	12	678	12	1327	4	1297	4
MVS010	Medium Voltage Substation 010	772	13	741	13	700	12	672	12	1334	3	1304	4
MVS011	Medium Voltage Substation 011	765	13	734	13	694	14	665	14	1341	3	1312	4
MVS012	Medium Voltage Substation 012	757	13	726	14	688	15	659	14	1349	3	1319	4
MVS013	Medium Voltage Substation 013	851	8	820	9	739	12	712	11	1286	3	1256	3
MVS014	Medium Voltage Substation 014	843	9	812	10	732	12	705	11	1293	3	1263	3
MVS015	Medium Voltage Substation 015	836	9	804	10	726	12	698	12	1300	3	1270	4
MVS016	Medium Voltage Substation 016	828	10	797	10	719	12	691	12	1307	4	1277	4
MVS017	Medium Voltage Substation 017	820	9	789	10	712	12	684	12	1314	4	1284	4
MVS018	Medium Voltage Substation 018	812	9	781	9	705	12	678	12	1321	4	1292	4
MVS019	Medium Voltage Substation 019	804	9	773	9	699	12	671	12	1328	4	1299	4
MVS020	Medium Voltage Substation 020	796	9	765	10	692	12	664	12	1336	3	1306	4
MVS021	Medium Voltage Substation 021	789	12	758	13	685	13	657	12	1343	3	1313	4
MVS022	Medium Voltage Substation 022	781	12	750	13	679	14	651	14	1350	3	1320	4
MVS023	Medium Voltage Substation 023	860	8	829	9	721	12	694	11	1303	4	1274	4

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	POR4		OPOR4		POR5		OPOR5		POR6		OPOR6	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
MVS024	Medium Voltage Substation 024	853	8	821	9	714	12	687	11	1310	4	1281	4
MVS025	Medium Voltage Substation 025	845	8	814	9	707	12	680	12	1317	4	1288	4
MVS026	Medium Voltage Substation 026	837	9	806	9	700	12	673	12	1324	4	1295	4
MVS027	Medium Voltage Substation 027	829	9	798	9	693	12	666	12	1331	4	1302	4
MVS028	Medium Voltage Substation 028	822	9	790	9	686	12	659	12	1338	3	1309	4
MVS029	Medium Voltage Substation 029	814	9	783	9	679	12	652	12	1345	3	1316	2
MVS030	Medium Voltage Substation 030	806	12	775	12	672	13	645	13	1352	3	1323	2
MVS031	Medium Voltage Substation 031	799	12	767	12	665	15	638	15	1360	2	1330	2
MVS032	Medium Voltage Substation 032	791	12	760	12	658	16	631	14	1367	2	1337	2
MVS033	Medium Voltage Substation 033	783	12	752	13	652	16	624	14	1374	3	1344	4
MVS034	Medium Voltage Substation 034	871	8	840	9	703	11	677	11	1321	4	1292	4
MVS035	Medium Voltage Substation 035	863	8	832	9	696	11	670	11	1328	3	1299	4
MVS036	Medium Voltage Substation 036	856	8	824	9	689	11	663	11	1335	3	1306	4
MVS037	Medium Voltage Substation 037	848	8	817	9	682	11	656	11	1342	3	1313	4
MVS038	Medium Voltage Substation 038	840	9	809	9	675	11	648	11	1349	3	1320	3
MVS039	Medium Voltage Substation 039	833	9	802	9	668	12	641	11	1356	3	1327	3
MVS040	Medium Voltage Substation 040	825	11	794	11	661	13	634	12	1363	3	1334	3
MVS041	Medium Voltage Substation 041	818	12	786	12	654	17	627	15	1370	3	1341	3
MVS042	Medium Voltage Substation 042	810	12	779	12	647	16	620	15	1377	3	1348	3
MVS043	Medium Voltage Substation 043	883	8	852	8	688	11	662	11	1340	3	1311	4
MVS044	Medium Voltage Substation 044	875	8	844	8	680	11	655	11	1347	3	1318	4
MVS045	Medium Voltage Substation 045	868	8	837	9	673	11	647	11	1354	3	1325	3
MVS046	Medium Voltage Substation 046	860	10	829	10	666	13	640	13	1361	3	1332	3
MVS047	Medium Voltage Substation 047	853	11	822	12	659	16	633	14	1368	3	1339	3
MVS048	Medium Voltage Substation 048	845	11	814	12	651	16	625	14	1375	3	1345	3
MPT001	Main Power Transformer	904	35	873	35	807	37	779	36	1218	35	1188	35
HVAC001	HVAC001	886	22	855	22	809	25	781	24	1218	15	1188	19

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	VL1		VL2		VL3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS001	Battery Energy Storage System 001	818	15	971	7	1048	10
BESS002	Battery Energy Storage System 002	810	15	971	7	1047	10
BESS003	Battery Energy Storage System 003	803	14	972	7	1046	10
BESS004	Battery Energy Storage System 004	795	14	973	7	1044	10
BESS005	Battery Energy Storage System 005	787	14	973	7	1043	10
BESS006	Battery Energy Storage System 006	780	14	974	7	1042	10
BESS007	Battery Energy Storage System 007	772	14	975	7	1041	10
BESS008	Battery Energy Storage System 008	764	15	976	7	1040	10
BESS009	Battery Energy Storage System 009	757	15	977	7	1039	10
BESS010	Battery Energy Storage System 010	749	15	978	7	1038	10
BESS011	Battery Energy Storage System 011	742	15	979	7	1037	10
BESS012	Battery Energy Storage System 012	734	15	981	7	1037	10
BESS013	Battery Energy Storage System 013	817	15	968	7	1051	10
BESS014	Battery Energy Storage System 014	809	15	968	7	1050	10
BESS015	Battery Energy Storage System 015	802	14	969	7	1049	10
BESS016	Battery Energy Storage System 016	794	14	970	7	1047	10
BESS017	Battery Energy Storage System 017	786	14	970	7	1046	10
BESS018	Battery Energy Storage System 018	779	14	971	7	1045	10
BESS019	Battery Energy Storage System 019	771	14	972	7	1044	10
BESS020	Battery Energy Storage System 020	763	14	973	7	1043	10
BESS021	Battery Energy Storage System 021	756	15	974	7	1042	10
BESS022	Battery Energy Storage System 022	748	15	975	7	1041	10
BESS023	Battery Energy Storage System 023	741	15	976	7	1040	10
BESS024	Battery Energy Storage System 024	733	15	978	7	1039	10
BESS025	Battery Energy Storage System 025	813	14	953	7	1066	10
BESS026	Battery Energy Storage System 026	805	14	954	7	1065	10
BESS027	Battery Energy Storage System 027	797	14	954	7	1063	10
BESS028	Battery Energy Storage System 028	789	14	955	7	1062	10
BESS029	Battery Energy Storage System 029	782	14	956	7	1061	10
BESS030	Battery Energy Storage System 030	774	14	957	7	1060	10
BESS031	Battery Energy Storage System 031	766	14	957	7	1059	10
BESS032	Battery Energy Storage System 032	759	14	958	7	1058	10
BESS033	Battery Energy Storage System 033	751	14	959	7	1057	10
BESS034	Battery Energy Storage System 034	743	14	961	7	1056	10
BESS035	Battery Energy Storage System 035	736	14	962	7	1055	10
BESS036	Battery Energy Storage System 036	728	14	963	7	1054	10
BESS037	Battery Energy Storage System 037	812	14	950	7	1069	10
BESS038	Battery Energy Storage System 038	804	14	951	7	1068	10
BESS039	Battery Energy Storage System 039	796	14	951	7	1066	10
BESS040	Battery Energy Storage System 040	789	14	952	7	1065	10
BESS041	Battery Energy Storage System 041	781	14	953	7	1064	10
BESS042	Battery Energy Storage System 042	773	14	954	7	1063	10
BESS043	Battery Energy Storage System 043	765	14	955	7	1062	10
BESS044	Battery Energy Storage System 044	758	14	956	7	1061	10
BESS045	Battery Energy Storage System 045	750	14	957	7	1060	10
BESS046	Battery Energy Storage System 046	742	14	958	7	1059	10
BESS047	Battery Energy Storage System 047	735	14	959	7	1058	10
BESS048	Battery Energy Storage System 048	727	14	960	7	1057	10
BESS049	Battery Energy Storage System 049	807	14	934	8	1084	10
BESS050	Battery Energy Storage System 050	800	14	935	8	1083	10
BESS051	Battery Energy Storage System 051	792	14	936	8	1082	10
BESS052	Battery Energy Storage System 052	784	14	936	8	1080	10
BESS053	Battery Energy Storage System 053	776	14	937	8	1079	10

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	VL1		VL2		VL3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS054	Battery Energy Storage System 054	769	14	938	8	1078	10
BESS055	Battery Energy Storage System 055	761	14	939	8	1077	10
BESS056	Battery Energy Storage System 056	753	14	940	8	1076	10
BESS057	Battery Energy Storage System 057	745	14	941	8	1075	10
BESS058	Battery Energy Storage System 058	738	14	942	8	1074	10
BESS059	Battery Energy Storage System 059	807	14	931	8	1087	10
BESS060	Battery Energy Storage System 060	799	14	932	8	1086	10
BESS061	Battery Energy Storage System 061	791	14	933	8	1085	10
BESS062	Battery Energy Storage System 062	783	14	933	8	1083	10
BESS063	Battery Energy Storage System 063	776	14	934	8	1082	10
BESS064	Battery Energy Storage System 064	768	14	935	8	1081	10
BESS065	Battery Energy Storage System 065	760	14	936	8	1080	10
BESS066	Battery Energy Storage System 066	752	14	937	8	1079	10
BESS067	Battery Energy Storage System 067	745	14	938	8	1078	10
BESS068	Battery Energy Storage System 068	737	14	939	8	1077	10
BESS069	Battery Energy Storage System 069	803	14	917	8	1102	10
BESS070	Battery Energy Storage System 070	795	14	917	8	1101	10
BESS071	Battery Energy Storage System 071	787	14	918	8	1099	10
BESS072	Battery Energy Storage System 072	779	14	919	8	1098	10
BESS073	Battery Energy Storage System 073	772	14	919	8	1097	10
BESS074	Battery Energy Storage System 074	764	14	920	8	1096	10
BESS075	Battery Energy Storage System 075	756	14	921	8	1095	10
BESS076	Battery Energy Storage System 076	748	14	922	8	1094	10
BESS077	Battery Energy Storage System 077	741	14	923	8	1093	10
BESS078	Battery Energy Storage System 078	733	15	925	8	1092	10
BESS079	Battery Energy Storage System 079	802	14	914	8	1105	10
BESS080	Battery Energy Storage System 080	794	14	914	8	1103	10
BESS081	Battery Energy Storage System 081	787	14	915	8	1102	10
BESS082	Battery Energy Storage System 082	779	14	916	8	1101	10
BESS083	Battery Energy Storage System 083	771	14	917	8	1100	10
BESS084	Battery Energy Storage System 084	763	14	917	8	1099	10
BESS085	Battery Energy Storage System 085	755	14	918	8	1098	10
BESS086	Battery Energy Storage System 086	748	14	919	8	1097	10
BESS087	Battery Energy Storage System 087	740	14	921	8	1096	10
BESS088	Battery Energy Storage System 088	732	14	922	8	1095	10
BESS089	Battery Energy Storage System 089	798	14	898	8	1120	10
BESS090	Battery Energy Storage System 090	791	14	899	8	1119	10
BESS091	Battery Energy Storage System 091	783	14	899	8	1118	10
BESS092	Battery Energy Storage System 092	775	14	900	8	1116	10
BESS093	Battery Energy Storage System 093	767	14	901	8	1115	10
BESS094	Battery Energy Storage System 094	759	15	902	8	1114	10
BESS095	Battery Energy Storage System 095	751	15	903	8	1113	10
BESS096	Battery Energy Storage System 096	744	15	904	8	1112	10
BESS097	Battery Energy Storage System 097	736	15	905	8	1111	10
BESS098	Battery Energy Storage System 098	728	15	906	8	1111	10
BESS099	Battery Energy Storage System 099	720	14	907	7	1110	10
BESS100	Battery Energy Storage System 100	798	14	895	8	1123	10
BESS101	Battery Energy Storage System 101	790	14	896	8	1122	10
BESS102	Battery Energy Storage System 102	782	14	896	8	1121	10
BESS103	Battery Energy Storage System 103	774	14	897	8	1119	10
BESS104	Battery Energy Storage System 104	766	14	898	8	1118	10
BESS105	Battery Energy Storage System 105	759	15	899	8	1117	10
BESS106	Battery Energy Storage System 106	751	15	900	8	1116	10

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	VL1		VL2		VL3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS107	Battery Energy Storage System 107	743	15	901	8	1115	10
BESS108	Battery Energy Storage System 108	735	15	902	8	1114	10
BESS109	Battery Energy Storage System 109	727	15	903	8	1113	10
BESS110	Battery Energy Storage System 110	719	14	905	8	1113	10
BESS111	Battery Energy Storage System 111	795	14	880	8	1138	10
BESS112	Battery Energy Storage System 112	787	14	881	8	1136	10
BESS113	Battery Energy Storage System 113	779	14	882	8	1135	10
BESS114	Battery Energy Storage System 114	771	14	882	8	1134	10
BESS115	Battery Energy Storage System 115	763	14	883	8	1133	10
BESS116	Battery Energy Storage System 116	755	15	884	8	1132	10
BESS117	Battery Energy Storage System 117	747	15	885	8	1131	10
BESS118	Battery Energy Storage System 118	740	15	886	8	1130	10
BESS119	Battery Energy Storage System 119	732	15	887	8	1129	10
BESS120	Battery Energy Storage System 120	724	15	889	8	1128	10
BESS121	Battery Energy Storage System 121	716	14	890	8	1127	10
BESS122	Battery Energy Storage System 122	794	14	877	8	1141	10
BESS123	Battery Energy Storage System 123	786	14	878	8	1139	10
BESS124	Battery Energy Storage System 124	778	14	879	8	1138	10
BESS125	Battery Energy Storage System 125	770	14	880	8	1137	10
BESS126	Battery Energy Storage System 126	763	14	880	8	1136	10
BESS127	Battery Energy Storage System 127	755	15	881	8	1135	10
BESS128	Battery Energy Storage System 128	747	15	882	8	1134	10
BESS129	Battery Energy Storage System 129	739	15	883	8	1133	10
BESS130	Battery Energy Storage System 130	731	15	885	8	1132	10
BESS131	Battery Energy Storage System 131	723	15	886	8	1131	10
BESS132	Battery Energy Storage System 132	715	15	887	8	1130	10
BESS133	Battery Energy Storage System 133	791	14	862	8	1156	10
BESS134	Battery Energy Storage System 134	783	14	862	11	1155	10
BESS135	Battery Energy Storage System 135	775	14	863	8	1154	10
BESS136	Battery Energy Storage System 136	767	14	864	8	1152	10
BESS137	Battery Energy Storage System 137	759	15	865	8	1151	10
BESS138	Battery Energy Storage System 138	752	15	866	8	1150	10
BESS139	Battery Energy Storage System 139	744	15	867	8	1149	10
BESS140	Battery Energy Storage System 140	736	15	868	13	1148	10
BESS141	Battery Energy Storage System 141	728	15	869	13	1148	10
BESS142	Battery Energy Storage System 142	791	14	859	8	1159	10
BESS143	Battery Energy Storage System 143	783	14	860	8	1158	10
BESS144	Battery Energy Storage System 144	775	14	860	8	1157	10
BESS145	Battery Energy Storage System 145	767	14	861	8	1155	10
BESS146	Battery Energy Storage System 146	759	15	862	8	1154	10
BESS147	Battery Energy Storage System 147	751	15	863	8	1153	10
BESS148	Battery Energy Storage System 148	743	15	864	8	1152	10
BESS149	Battery Energy Storage System 149	735	15	865	13	1151	10
BESS150	Battery Energy Storage System 150	727	15	866	13	1150	10
BESS151	Battery Energy Storage System 151	788	14	844	8	1174	10
BESS152	Battery Energy Storage System 152	780	14	845	8	1172	10
BESS153	Battery Energy Storage System 153	772	14	845	8	1171	10
BESS154	Battery Energy Storage System 154	764	14	846	13	1170	10
BESS155	Battery Energy Storage System 155	756	15	847	13	1169	10
BESS156	Battery Energy Storage System 156	748	15	848	11	1168	10
BESS157	Battery Energy Storage System 157	740	15	849	8	1167	10
BESS158	Battery Energy Storage System 158	732	15	850	13	1166	10
BESS159	Battery Energy Storage System 159	725	15	851	13	1165	10

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	VL1		VL2		VL3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
BESS160	Battery Energy Storage System 160	788	14	841	8	1177	10
BESS161	Battery Energy Storage System 161	780	14	842	8	1175	10
BESS162	Battery Energy Storage System 162	772	14	843	13	1174	10
BESS163	Battery Energy Storage System 163	764	14	843	13	1173	10
BESS164	Battery Energy Storage System 164	756	14	844	13	1172	10
BESS165	Battery Energy Storage System 165	748	15	845	13	1171	10
BESS166	Battery Energy Storage System 166	740	15	846	11	1170	10
BESS167	Battery Energy Storage System 167	732	15	847	13	1169	10
BESS168	Battery Energy Storage System 168	724	15	849	13	1168	10
BESS169	Battery Energy Storage System 169	785	14	826	13	1192	10
BESS170	Battery Energy Storage System 170	777	14	826	13	1191	10
BESS171	Battery Energy Storage System 171	769	14	827	13	1190	10
BESS172	Battery Energy Storage System 172	785	14	823	13	1195	9
BESS173	Battery Energy Storage System 173	777	14	823	13	1194	9
BESS174	Battery Energy Storage System 174	769	14	824	13	1193	10
BESS175	Battery Energy Storage System 175	761	14	825	13	1191	10
BESS176	Battery Energy Storage System 176	753	14	826	13	1190	10
BESS177	Battery Energy Storage System 177	745	14	827	13	1189	10
BESS178	Battery Energy Storage System 178	783	14	808	13	1210	9
BESS179	Battery Energy Storage System 179	775	14	808	13	1208	9
BESS180	Battery Energy Storage System 180	767	14	809	13	1207	9
BESS181	Battery Energy Storage System 181	759	14	810	13	1206	9
BESS182	Battery Energy Storage System 182	751	14	811	13	1205	9
BESS183	Battery Energy Storage System 183	743	14	812	13	1204	9
BESS184	Battery Energy Storage System 184	783	14	805	13	1213	9
BESS185	Battery Energy Storage System 185	775	14	806	13	1211	9
BESS186	Battery Energy Storage System 186	767	14	806	13	1210	9
BESS187	Battery Energy Storage System 187	759	14	807	13	1209	9
BESS188	Battery Energy Storage System 188	751	14	808	13	1208	9
BESS189	Battery Energy Storage System 189	743	14	809	13	1207	9
MVS001	Medium Voltage Substation 001	815	10	960	10	1059	6
MVS002	Medium Voltage Substation 002	807	10	961	9	1057	6
MVS003	Medium Voltage Substation 003	799	10	962	9	1056	6
MVS004	Medium Voltage Substation 004	792	10	962	9	1055	6
MVS005	Medium Voltage Substation 005	784	10	963	9	1054	6
MVS006	Medium Voltage Substation 006	776	10	964	9	1052	6
MVS007	Medium Voltage Substation 007	769	10	965	9	1051	6
MVS008	Medium Voltage Substation 008	761	10	966	9	1050	6
MVS009	Medium Voltage Substation 009	753	10	967	9	1049	6
MVS010	Medium Voltage Substation 010	746	13	968	9	1048	6
MVS011	Medium Voltage Substation 011	738	15	969	9	1048	6
MVS012	Medium Voltage Substation 012	731	15	970	9	1047	6
MVS013	Medium Voltage Substation 013	805	10	924	10	1095	6
MVS014	Medium Voltage Substation 014	797	10	925	9	1093	6
MVS015	Medium Voltage Substation 015	789	10	925	9	1092	6
MVS016	Medium Voltage Substation 016	781	10	926	9	1091	6
MVS017	Medium Voltage Substation 017	774	10	927	9	1090	6
MVS018	Medium Voltage Substation 018	766	10	928	9	1088	6
MVS019	Medium Voltage Substation 019	758	10	929	9	1087	6
MVS020	Medium Voltage Substation 020	750	10	930	9	1086	6
MVS021	Medium Voltage Substation 021	743	15	931	9	1086	6
MVS022	Medium Voltage Substation 022	735	15	932	9	1085	6
MVS023	Medium Voltage Substation 023	796	10	888	10	1130	6

Table F.1 Noise Impact Summary - Regular Operations

Source ID	Source Description	VL1		VL2		VL3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
MVS024	Medium Voltage Substation 024	788	11	888	10	1129	6
MVS025	Medium Voltage Substation 025	780	11	889	10	1128	6
MVS026	Medium Voltage Substation 026	773	11	890	10	1127	6
MVS027	Medium Voltage Substation 027	765	11	891	10	1126	6
MVS028	Medium Voltage Substation 028	757	11	892	10	1125	6
MVS029	Medium Voltage Substation 029	749	11	893	10	1124	6
MVS030	Medium Voltage Substation 030	741	14	894	10	1123	6
MVS031	Medium Voltage Substation 031	733	15	895	10	1122	6
MVS032	Medium Voltage Substation 032	726	16	896	10	1121	6
MVS033	Medium Voltage Substation 033	718	15	897	10	1120	6
MVS034	Medium Voltage Substation 034	789	11	851	11	1166	6
MVS035	Medium Voltage Substation 035	781	11	852	10	1165	6
MVS036	Medium Voltage Substation 036	773	11	853	10	1164	6
MVS037	Medium Voltage Substation 037	765	11	854	10	1163	6
MVS038	Medium Voltage Substation 038	758	11	855	10	1162	6
MVS039	Medium Voltage Substation 039	750	13	855	10	1161	6
MVS040	Medium Voltage Substation 040	742	15	857	10	1160	6
MVS041	Medium Voltage Substation 041	734	15	858	11	1159	6
MVS042	Medium Voltage Substation 042	726	16	859	11	1158	6
MVS043	Medium Voltage Substation 043	784	13	815	11	1202	6
MVS044	Medium Voltage Substation 044	776	13	816	11	1201	6
MVS045	Medium Voltage Substation 045	768	13	817	11	1200	6
MVS046	Medium Voltage Substation 046	760	14	817	11	1199	6
MVS047	Medium Voltage Substation 047	752	14	818	11	1198	6
MVS048	Medium Voltage Substation 048	744	15	819	11	1197	6
MPT001	Main Power Transformer	871	36	952	38	1077	36
HVAC001	HVAC001	865	25	979	23	1048	22

Table F.2 Noise Impact Summary - Emergency Generator Testing

Source ID	Source Description	POR1		OPOR1		POR2		OPOR2		POR3		OPOR3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
Gen001	Emergency Generator	1261	21	1233	21	1123	25	1108	22	877	28	838	26

Table F.2 Noise Impact Summary - Emergency Generator Testing

Source ID	Source Description	POR4		OPOR4		POR5		OPOR5		POR6		OPOR6	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
Gen001	Emergency Generator	868	26	838	26	795	30	768	28	1233	19	1203	19

Table F.2 Noise Impact Summary - Emergency Generator Testing

Source ID	Source Description	VL1		VL2		VL3	
		Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)	Distance (m)	Noise Level at POR (dBA)
Gen001	Emergency Generator	849	31	981	28	1043	26

Appendix G Acoustic Model Sample Calculations

Sample Calculation - Regular Operations

Receiver
Name: 2 Storey Residence - 4282 William McEwen Drive
ID: POR5
X: 364194.48 m
Y: 5008401.77 m
Z: 101.11 m

Point Source, ISO 9613, Name: "Main Power Transformer", ID: "!01!MPT001"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1	363388.24	5008417.39	101.00	0	DEN	A	115.1	0.0	0.0	0.0	0.0	69.1	2.1	-1.7	0.0	0.0	8.1	0.0	0.0	37.4

Point Source, ISO 9613, Name: "HVAC001", ID: "!03!HVAC001"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
17	363386.68	5008447.03	103.00	0	DEN	A	94.9	0.0	0.0	0.0	0.0	69.2	2.2	-1.7	0.0	0.0	0.0	0.0	0.0	25.2

Point Source, ISO 9613, Name: "Medium Voltage Substation 042", ID: "!02!MVS042"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
33	363547.93	5008391.35	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.2	1.9	-0.6	0.0	0.0	0.0	0.0	0.0	16.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 168", ID: "!0007!BESS168"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
201	363553.17	5008382.40	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.1	2.7	-1.2	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 159", ID: "!0007!BESS159"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
281	363551.69	5008384.94	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.2	2.7	-1.3	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Medium Voltage Substation 048", ID: "!02!MVS048"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
400	363545.47	5008347.74	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.3	1.9	-0.3	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 189", ID: "!0009!BESS189"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
447	363550.71	5008338.78	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.2	2.7	-0.9	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Medium Voltage Substation 041", ID: "!02!MVS041"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
498	363540.98	5008387.28	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.3	1.9	-0.9	0.0	0.0	0.0	0.0	0.0	16.1
568	363540.98	5008387.28	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.4	1.9	-1.0	0.0	0.0	0.0	0.0	6.3	9.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 183", ID: "!0009!BESS183"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
608	363549.22	5008341.32	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.2	2.7	-1.0	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 167", ID: "!0007!BESS167"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
650	363546.22	5008378.33	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.2	2.7	-1.3	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 158", ID: "!0007!BESS158"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
710	363544.74	5008380.86	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.3	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 150", ID: "!0006!BESS150"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
789	363544.17	5008397.77	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.3	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 141", ID: "!0006!BESS141"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
875	363542.68	5008400.31	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Medium Voltage Substation 032", ID: "!02!MVS032"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
983	363536.49	5008426.83	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.4	1.9	-0.8	0.0	0.0	0.0	0.0	0.0	16.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 047", ID: "!02!MVS047"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1137	363538.51	5008343.66	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.4	1.9	-0.3	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 131", ID: "!0005!BESS131"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1184	363541.73	5008417.87	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 188", ID: "!0009!BESS188"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1362	363543.76	5008334.71	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-0.8	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 120", ID: "!0005!BESS120"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1399	363540.25	5008420.41	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 177", ID: "!0008!BESS177"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1486	363541.71	5008354.15	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.3	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 040", ID: "!02!MVS040"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1535	363534.02	5008383.21	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.4	1.9	-1.1	0.0	0.0	3.7	0.0	0.0	12.5
1592	363534.02	5008383.21	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	2.0	-1.0	0.0	0.0	0.0	0.0	12.4	3.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 182", ID: "!0009!BESS182"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1630	363542.27	5008337.24	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.0	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 166", ID: "!0007!BESS166"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1669	363539.27	5008374.25	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.3	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 157", ID: "!0007!BESS157"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1739	363537.78	5008376.79	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 149", ID: "!0006!BESS149"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1808	363537.22	5008393.70	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 140", ID: "!0006!BESS140"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1868	363535.73	5008396.23	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-1.4	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 031", ID: "!02!MVS031"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1944	363529.53	5008422.75	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	1.9	-1.0	0.0	0.0	2.0	0.0	0.0	14.1
2006	363529.53	5008422.75	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	2.0	-1.0	0.0	0.0	0.0	0.0	6.3	9.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 130", ID: "!0005!BESS130"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2047	363534.78	5008413.80	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-1.5	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 046", ID: "!02!MVS046"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2128	363531.56	5008339.59	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	1.9	-0.4	0.0	0.0	2.9	0.0	0.0	12.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 119", ID: "!0005!BESS119"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2169	363533.29	5008416.33	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-1.5	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 187", ID: "!0009!BESS187"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2332	363536.80	5008330.64	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-0.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 176", ID: "!0008!BESS176"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2346	363534.75	5008350.08	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.7	-1.3	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Medium Voltage Substation 039", ID: "!02!MVS039"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2370	363527.07	5008379.13	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 109", ID: "!0004!BESS109"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2426	363532.73	5008433.24	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 181", ID: "!0009!BESS181"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2496	363535.32	5008333.17	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.8	-1.0	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 165", ID: "!0007!BESS165"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2518	363532.32	5008370.18	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 098", ID: "!0004!BESS098"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2560	363531.24	5008435.78	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 156", ID: "!0007!BESS156"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2621	363530.83	5008372.72	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 148", ID: "!0006!BESS148"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2630	363530.26	5008389.62	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.4	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 132", ID: "!0005!BESS132"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2649	363530.93	5008453.92	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.3	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Medium Voltage Substation 033", ID: "!02!MVS033"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2673	363525.68	5008462.88	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	2.0	-0.6	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 139", ID: "!0006!BESS139"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2695	363528.78	5008392.16	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 030", ID: "!02!MVS030"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2713	363522.58	5008418.68	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.5	2.0	-1.1	0.0	0.0	3.9	0.0	0.0	12.1
2729	363522.58	5008418.68	99.20	2	DEN	A	84.5	0.0	0.0	0.0	0.0	67.6	2.0	-1.0	0.0	0.0	0.0	0.0	13.5	2.4
2730	363522.58	5008418.68	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.6	2.0	-1.0	0.0	0.0	4.6	0.0	6.5	4.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 129", ID: "!0005!BESS129"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2733	363527.83	5008409.73	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 045", ID: "!02!MVS045"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2756	363524.61	5008335.52	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.6	2.0	-0.4	0.0	0.0	4.2	0.0	0.0	11.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 121", ID: "!0005!BESS121"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2768	363529.44	5008456.46	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.3	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 118", ID: "!0005!BESS118"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2788	363526.34	5008412.26	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 186", ID: "!0009!BESS186"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2800	363529.85	5008326.56	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-0.8	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 038", ID: "!02!MVS038"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2804	363520.12	5008375.06	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.6	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 175", ID: "!0008!BESS175"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2816	363527.80	5008346.01	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 108", ID: "!0004!BESS108"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2831	363525.77	5008429.17	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 180", ID: "!0009!BESS180"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2849	363528.37	5008329.10	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.0	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 164", ID: "!0007!BESS164"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2856	363525.36	5008366.11	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 097", ID: "!0004!BESS097"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2872	363524.29	5008431.70	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 147", ID: "!0006!BESS147"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2892	363523.31	5008385.55	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 155", ID: "!0007!BESS155"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2950	363523.88	5008368.64	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.5	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 022", ID: "!02!MVS022"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2970	363518.09	5008458.22	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.6	2.0	-1.0	0.0	0.0	3.1	0.0	0.0	12.8
2984	363518.09	5008458.22	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-1.0	0.0	0.0	0.0	0.0	6.3	9.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 138", ID: "!0006!BESS138"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2988	363521.83	5008388.09	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 088", ID: "!0003!BESS088"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3007	363523.34	5008449.27	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Medium Voltage Substation 029", ID: "!02!MVS029"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3025	363515.63	5008414.61	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.6	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.3
3040	363515.63	5008414.61	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-1.1	0.0	0.0	4.6	0.0	6.5	4.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 128", ID: "!0005!BESS128"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3052	363520.87	5008405.65	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 044", ID: "!02!MVS044"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3068	363517.65	5008331.44	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-0.4	0.0	0.0	4.2	0.0	0.0	11.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 078", ID: "!0003!BESS078"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3079	363521.85	5008451.81	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 117", ID: "!0005!BESS117"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3097	363519.39	5008408.19	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 110", ID: "!0004!BESS110"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3126	363521.92	5008469.30	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.3	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Medium Voltage Substation 037", ID: "!02!MVS037"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3145	363513.17	5008370.99	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 107", ID: "!0004!BESS107"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3173	363518.82	5008425.10	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 185", ID: "!0009!BESS185"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3199	363522.90	5008322.49	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-0.9	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 174", ID: "!0008!BESS174"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3208	363520.85	5008341.93	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 163", ID: "!0007!BESS163"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3216	363518.41	5008362.03	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 179", ID: "!0009!BESS179"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3228	363521.41	5008325.02	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.0	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 171", ID: "!0008!BESS171"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3241	363519.36	5008344.47	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 096", ID: "!0004!BESS096"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3253	363517.34	5008427.63	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 099", ID: "!0004!BESS099"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3280	363520.44	5008471.83	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.3	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 146", ID: "!0006!BESS146"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3330	363516.36	5008381.48	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 154", ID: "!0007!BESS154"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3349	363516.92	5008364.57	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Medium Voltage Substation 021", ID: "!02!MVS021"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3367	363511.14	5008454.15	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-1.0	0.0	0.0	4.6	0.0	0.0	11.2
3383	363511.14	5008454.15	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-1.0	0.0	0.0	4.6	0.0	6.6	4.5
3385	363511.14	5008454.15	99.20	2	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-1.0	0.0	0.0	0.0	0.0	13.6	2.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 087", ID: "!0003!BESS087"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3389	363516.38	5008445.20	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Medium Voltage Substation 028", ID: "!02!MVS028"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3408	363508.68	5008410.53	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.2
3427	363508.68	5008410.53	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-1.1	0.0	0.0	4.6	0.0	6.5	4.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 137", ID: "!0006!BESS137"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3443	363514.87	5008384.01	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.6	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 127", ID: "!0005!BESS127"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3462	363513.92	5008401.58	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 077", ID: "!0003!BESS077"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3488	363514.90	5008447.73	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 048", ID: "!0001!BESS048"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3510	363518.85	5008488.82	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.2	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Medium Voltage Substation 012", ID: "!02!MVS012"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3523	363513.60	5008497.77	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-0.4	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Medium Voltage Substation 043", ID: "!02!MVS043"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3535	363510.70	5008327.37	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.7	2.0	-0.4	0.0	0.0	4.2	0.0	0.0	10.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 116", ID: "!0005!BESS116"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3544	363512.44	5008404.11	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 106", ID: "!0004!BESS106"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3581	363511.87	5008421.02	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 036", ID: "!0001!BESS036"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3604	363517.36	5008491.35	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.2	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 068", ID: "!0002!BESS068"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3619	363514.33	5008464.64	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Medium Voltage Substation 036", ID: "!02!MVS036"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3634	363506.21	5008366.91	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 173", ID: "!0008!BESS173"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3645	363513.89	5008337.86	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 184", ID: "!0009!BESS184"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3654	363515.95	5008318.42	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-0.8	0.0	0.0	0.0	0.0	0.0	14.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 162", ID: "!0007!BESS162"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3660	363511.46	5008357.96	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 095", ID: "!0004!BESS095"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3673	363510.38	5008423.56	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 058", ID: "!0002!BESS058"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3701	363512.85	5008467.18	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 178", ID: "!0009!BESS178"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3718	363514.46	5008320.95	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.0	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 170", ID: "!0008!BESS170"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3725	363512.41	5008340.40	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 145", ID: "!0006!BESS145"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3743	363509.41	5008377.41	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 153", ID: "!0007!BESS153"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3752	363509.97	5008360.50	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Medium Voltage Substation 020", ID: "!02!MVS020"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3767	363504.19	5008450.08	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-1.0	0.0	0.0	4.6	0.0	0.0	11.1
3781	363504.19	5008450.08	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.1	0.0	0.0	4.6	0.0	6.6	4.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 086", ID: "!0003!BESS086"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3789	363509.43	5008441.12	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Medium Voltage Substation 027", ID: "!02!MVS027"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3816	363501.72	5008406.46	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.2
3827	363501.72	5008406.46	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.2	0.0	0.0	4.6	0.0	6.6	4.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 136", ID: "!0006!BESS136"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3841	363507.92	5008379.94	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 126", ID: "!0005!BESS126"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3860	363506.97	5008397.51	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 047", ID: "!0001!BESS047"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3880	363511.90	5008484.74	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.3	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 076", ID: "!0003!BESS076"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3895	363507.95	5008443.66	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.7	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Medium Voltage Substation 011", ID: "!02!MVS011"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3923	363506.65	5008493.70	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.8	2.0	-0.7	0.0	0.0	3.0	0.0	0.0	12.4
3933	363506.65	5008493.70	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-0.7	0.0	0.0	0.0	0.0	6.2	9.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 115", ID: "!0005!BESS115"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3936	363505.48	5008400.04	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 035", ID: "!0001!BESS035"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3963	363510.41	5008487.28	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.3	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 067", ID: "!0002!BESS067"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3980	363507.38	5008460.57	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 105", ID: "!0004!BESS105"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3997	363504.92	5008416.95	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Medium Voltage Substation 035", ID: "!02!MVS035"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4029	363499.26	5008362.84	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.2	0.0	0.0	4.6	0.0	0.0	11.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 172", ID: "!0008!BESS172"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4041	363506.94	5008333.79	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.4	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 094", ID: "!0004!BESS094"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4048	363503.43	5008419.49	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 057", ID: "!0002!BESS057"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4070	363505.90	5008463.10	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.6	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 161", ID: "!0007!BESS161"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4086	363504.50	5008353.89	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 169", ID: "!0008!BESS169"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4097	363505.46	5008336.32	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.5	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 024", ID: "!0000!BESS024"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4108	363509.84	5008504.19	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.2	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 019", ID: "!02!MVS019"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4123	363497.23	5008446.00	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.0
4137	363497.23	5008446.00	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.1	0.0	0.0	4.6	0.0	6.6	4.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 144", ID: "!0006!BESS144"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4143	363502.45	5008373.33	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 085", ID: "!0003!BESS085"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4157	363502.48	5008437.05	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.7	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 152", ID: "!0007!BESS152"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4177	363503.02	5008356.42	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.8	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Medium Voltage Substation 026", ID: "!02!MVS026"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4191	363494.77	5008402.39	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.1
4204	363494.77	5008402.39	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.2	0.0	0.0	4.7	0.0	6.6	4.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 135", ID: "!0006!BESS135"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4218	363500.97	5008375.87	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 046", ID: "!0001!BESS046"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4231	363504.94	5008480.67	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.9	-1.4	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 012", ID: "!0000!BESS012"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4249	363508.36	5008506.72	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.9	-1.3	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 010", ID: "!02!MVS010"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4259	363499.70	5008489.62	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.0
4272	363499.70	5008489.62	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.0	0.0	0.0	4.6	0.0	6.6	4.3
4273	363499.70	5008489.62	99.20	2	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.0	0.0	0.0	0.0	0.0	13.8	1.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 125", ID: "!0005!BESS125"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4278	363500.02	5008393.43	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 075", ID: "!0003!BESS075"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4304	363500.99	5008439.59	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 034", ID: "!0001!BESS034"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4325	363503.46	5008483.20	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.8	2.9	-1.4	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 114", ID: "!0005!BESS114"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4341	363498.53	5008395.97	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 066", ID: "!0002!BESS066"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4369	363500.43	5008456.50	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 104", ID: "!0004!BESS104"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4378	363497.96	5008412.88	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Medium Voltage Substation 034", ID: "!02!MVS034"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4411	363492.31	5008358.77	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	67.9	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 056", ID: "!0002!BESS056"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4423	363498.94	5008459.03	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 093", ID: "!0004!BESS093"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4442	363496.48	5008415.41	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 023", ID: "!0000!BESS023"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4460	363502.89	5008500.11	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.3	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 160", ID: "!0007!BESS160"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4473	363497.55	5008349.82	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Medium Voltage Substation 018", ID: "!02!MVS018"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4480	363490.28	5008441.93	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	11.0
4497	363490.28	5008441.93	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 084", ID: "!0003!BESS084"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4505	363495.53	5008432.98	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 143", ID: "!0006!BESS143"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4523	363495.50	5008369.26	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 151", ID: "!0007!BESS151"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4593	363496.07	5008352.35	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 011", ID: "!0000!BESS011"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4604	363501.41	5008502.65	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.4	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 025", ID: "!02!MVS025"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4614	363487.82	5008398.31	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.3	0.0	0.0	4.7	0.0	0.0	11.1
4628	363487.82	5008398.31	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.3

Point Source, ISO 9613, Name: "Medium Voltage Substation 009", ID: "!02!MVS009"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4640	363492.75	5008485.55	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.0	2.0	-1.1	0.0	0.0	4.6	0.0	0.0	10.9
4658	363492.75	5008485.55	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.1	0.0	0.0	4.6	0.0	6.6	4.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 045", ID: "!0001!BESS045"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4660	363497.99	5008476.60	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.6	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 134", ID: "!0006!BESS134"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4673	363494.01	5008371.79	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 074", ID: "!0003!BESS074"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4694	363494.04	5008435.51	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 124", ID: "!0005!BESS124"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4712	363493.06	5008389.36	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 033", ID: "!0001!BESS033"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4738	363496.51	5008479.13	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.6	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 065", ID: "!0002!BESS065"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4769	363493.47	5008452.42	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 113", ID: "!0005!BESS113"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4782	363491.58	5008391.90	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 103", ID: "!0004!BESS103"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4802	363491.01	5008408.80	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	67.9	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Battery Energy Storage System 055", ID: "!0002!BESS055"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4827	363491.99	5008454.96	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 022", ID: "!0000!BESS022"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4852	363495.94	5008496.04	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.5	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 092", ID: "!0004!BESS092"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4867	363489.53	5008411.34	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Medium Voltage Substation 017", ID: "!02!MVS017"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4888	363483.33	5008437.86	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.2	0.0	0.0	4.6	0.0	0.0	10.9
4904	363483.33	5008437.86	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 083", ID: "!0003!BESS083"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4917	363488.57	5008428.91	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 010", ID: "!0000!BESS010"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4938	363494.45	5008498.58	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.5	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 008", ID: "!02!MVS008"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4949	363485.79	5008481.48	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.1	0.0	0.0	4.6	0.0	0.0	10.9
4962	363485.79	5008481.48	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 142", ID: "!0006!BESS142"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4967	363488.55	5008365.19	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 044", ID: "!0001!BESS044"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
4995	363491.04	5008472.52	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Medium Voltage Substation 024", ID: "!02!MVS024"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5012	363480.87	5008394.24	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	11.0
5025	363480.87	5008394.24	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.3	0.0	0.0	4.7	0.0	6.6	4.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 073", ID: "!0003!BESS073"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5041	363487.09	5008431.44	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 133", ID: "!0006!BESS133"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5056	363487.06	5008367.72	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 123", ID: "!0005!BESS123"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5078	363486.11	5008385.29	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 032", ID: "!0001!BESS032"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5109	363489.55	5008475.06	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 064", ID: "!0002!BESS064"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5125	363486.52	5008448.35	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 112", ID: "!0005!BESS112"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5145	363484.63	5008387.82	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 102", ID: "!0004!BESS102"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5164	363484.06	5008404.73	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 054", ID: "!0002!BESS054"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5201	363485.04	5008450.88	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 021", ID: "!0000!BESS021"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5216	363488.99	5008491.97	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.6	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 091", ID: "!0004!BESS091"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5228	363482.57	5008407.27	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.0	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Medium Voltage Substation 016", ID: "!02!MVS016"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5268	363476.38	5008433.78	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.2	0.0	0.0	4.7	0.0	0.0	10.9
5275	363476.38	5008433.78	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 009", ID: "!0000!BESS009"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5292	363487.50	5008494.50	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.6	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 082", ID: "!0003!BESS082"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5300	363481.62	5008424.83	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Medium Voltage Substation 007", ID: "!02!MVS007"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5332	363478.84	5008477.40	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.1	2.1	-1.2	0.0	0.0	4.6	0.0	0.0	10.8
5344	363478.84	5008477.40	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 043", ID: "!0001!BESS043"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5352	363484.09	5008468.45	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Medium Voltage Substation 023", ID: "!02!MVS023"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5367	363473.91	5008390.17	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.4	0.0	0.0	4.7	0.0	0.0	10.9
5369	363473.91	5008390.17	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 072", ID: "!0003!BESS072"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5403	363480.14	5008427.37	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 031", ID: "!0001!BESS031"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5419	363482.60	5008470.99	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 122", ID: "!0005!BESS122"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5438	363479.16	5008381.21	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Battery Energy Storage System 063", ID: "!0002!BESS063"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5461	363479.57	5008444.28	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 111", ID: "!0005!BESS111"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5482	363477.67	5008383.75	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 101", ID: "!0004!BESS101"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5501	363477.11	5008400.66	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 020", ID: "!0000!BESS020"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5527	363482.03	5008487.89	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 053", ID: "!0002!BESS053"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5535	363478.08	5008446.81	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 090", ID: "!0004!BESS090"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5564	363475.62	5008403.19	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Medium Voltage Substation 015", ID: "!02!MVS015"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5592	363469.42	5008429.71	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.8
5598	363469.42	5008429.71	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.3	2.1	-1.2	0.0	0.0	4.6	0.0	6.6	4.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 008", ID: "!0000!BESS008"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5618	363480.55	5008490.43	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.7	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Medium Voltage Substation 006", ID: "!02!MVS006"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5626	363471.89	5008473.33	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.2	2.1	-1.2	0.0	0.0	4.7	0.0	0.0	10.8
5635	363471.89	5008473.33	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.3	2.1	-1.2	0.0	0.0	4.6	0.0	6.7	4.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 081", ID: "!0003!BESS081"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5643	363474.67	5008420.76	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 042", ID: "!0001!BESS042"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5662	363477.13	5008464.38	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.1	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 071", ID: "!0003!BESS071"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5689	363473.18	5008423.29	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	2.9	-1.9	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Battery Energy Storage System 030", ID: "!0001!BESS030"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5708	363475.65	5008466.91	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 062", ID: "!0002!BESS062"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5723	363472.62	5008440.20	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	2.9	-1.8	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 019", ID: "!0000!BESS019"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5743	363475.08	5008483.82	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 100", ID: "!0004!BESS100"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5756	363470.15	5008396.58	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 052", ID: "!0002!BESS052"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5795	363471.13	5008442.74	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 089", ID: "!0004!BESS089"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5813	363468.67	5008399.12	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 007", ID: "!0000!BESS007"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5839	363473.60	5008486.36	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Medium Voltage Substation 014", ID: "!02!MVS014"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5860	363462.47	5008425.64	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.3	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.7
5864	363462.47	5008425.64	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.4	2.1	-1.2	0.0	0.0	4.6	0.0	6.7	3.9

Point Source, ISO 9613, Name: "Medium Voltage Substation 005", ID: "!02!MVS005"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5883	363464.93	5008469.26	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.3	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.7
5893	363464.93	5008469.26	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.4	2.1	-1.3	0.0	0.0	4.7	0.0	6.7	3.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 041", ID: "!0001!BESS041"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5900	363470.18	5008460.30	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 080", ID: "!0003!BESS080"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5920	363467.72	5008416.69	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 029", ID: "!0001!BESS029"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5946	363468.69	5008462.84	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 070", ID: "!0003!BESS070"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5959	363466.23	5008419.22	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.2	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "Battery Energy Storage System 061", ID: "!0002!BESS061"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5984	363465.66	5008436.13	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 018", ID: "!0000!BESS018"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6005	363468.13	5008479.75	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 051", ID: "!0002!BESS051"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6027	363464.18	5008438.66	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 006", ID: "!0000!BESS006"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6056	363466.64	5008482.28	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Medium Voltage Substation 004", ID: "!02!MVS004"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6071	363457.98	5008465.18	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.4	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.6
6087	363457.98	5008465.18	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.5	2.1	-1.3	0.0	0.0	4.6	0.0	6.7	3.8

Point Source, ISO 9613, Name: "Medium Voltage Substation 013", ID: "!02!MVS013"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6097	363455.52	5008421.57	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.4	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.7
6100	363455.52	5008421.57	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.5	2.1	-1.2	0.0	0.0	4.6	0.0	6.7	3.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 040", ID: "!0001!BESS040"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6126	363463.23	5008456.23	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 079", ID: "!0003!BESS079"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6143	363460.76	5008412.61	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 028", ID: "!0001!BESS028"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6161	363461.74	5008458.77	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 069", ID: "!0003!BESS069"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6230	363459.28	5008415.15	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 060", ID: "!0002!BESS060"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6340	363458.71	5008432.06	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 017", ID: "!0000!BESS017"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6540	363461.17	5008475.67	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.3	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 050", ID: "!0002!BESS050"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6581	363457.23	5008434.59	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Battery Energy Storage System 005", ID: "!0000!BESS005"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6652	363459.69	5008478.21	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.8	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Medium Voltage Substation 003", ID: "!02!MVS003"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6692	363451.03	5008461.11	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.5	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.6
6813	363451.03	5008461.11	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.5	2.1	-1.3	0.0	0.0	4.7	0.0	6.7	3.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 039", ID: "!0001!BESS039"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6833	363456.27	5008452.16	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 027", ID: "!0001!BESS027"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6849	363454.79	5008454.69	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 059", ID: "!0002!BESS059"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6860	363451.76	5008427.98	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 016", ID: "!0000!BESS016"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6878	363454.22	5008471.60	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 049", ID: "!0002!BESS049"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6898	363450.27	5008430.52	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.9

Point Source, ISO 9613, Name: "Battery Energy Storage System 004", ID: "!0000!BESS004"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6913	363452.74	5008474.14	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.4	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Medium Voltage Substation 002", ID: "!02!MVS002"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6922	363444.08	5008457.04	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.5	2.1	-1.3	0.0	0.0	4.7	0.0	0.0	10.5
6927	363444.08	5008457.04	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.6	2.2	-1.3	0.0	0.0	4.6	0.0	6.7	3.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 038", ID: "!0001!BESS038"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6933	363449.32	5008448.08	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.5	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 026", ID: "!0001!BESS026"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6949	363447.84	5008450.62	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.5	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 015", ID: "!0000!BESS015"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6960	363447.27	5008467.53	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.5	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 003", ID: "!0000!BESS003"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6970	363445.78	5008470.06	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.5	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Medium Voltage Substation 001", ID: "!02!MVS001"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6976	363437.12	5008452.96	99.20	0	DEN	A	84.5	0.0	0.0	0.0	0.0	68.6	2.2	-1.3	0.0	0.0	4.7	0.0	0.0	10.4
6980	363437.12	5008452.96	99.20	1	DEN	A	84.5	0.0	0.0	0.0	0.0	68.7	2.2	-1.3	0.0	0.0	4.7	0.0	6.7	3.5

Point Source, ISO 9613, Name: "Battery Energy Storage System 037", ID: "!0001!BESS037"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6987	363442.37	5008444.01	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.5	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.8

Point Source, ISO 9613, Name: "Battery Energy Storage System 025", ID: "!0001!BESS025"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
6994	363440.88	5008446.55	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.6	3.0	-1.9	0.0	0.0	0.0	0.0	0.0	14.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 014", ID: "!0000!BESS014"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
7003	363440.32	5008463.46	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.6	3.1	-1.9	0.0	0.0	0.0	0.0	0.0	14.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 002", ID: "!0000!BESS002"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
7013	363438.83	5008465.99	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.6	3.1	-1.9	0.0	0.0	0.0	0.0	0.0	14.7

Point Source, ISO 9613, Name: "Battery Energy Storage System 013", ID: "!0000!BESS013"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
7021	363433.36	5008459.38	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.7	3.1	-2.0	0.0	0.0	0.0	0.0	0.0	14.6

Point Source, ISO 9613, Name: "Battery Energy Storage System 001", ID: "!0000!BESS001"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
7032	363431.88	5008461.92	99.94	0	DEN	A	84.4	0.0	0.0	0.0	0.0	68.7	3.1	-2.0	0.0	0.0	0.0	0.0	0.0	14.6

Sample Calculation - Emergency Generator Testing

Receiver
Name: 2 Storey Residence - 4282 William McEwen Drive
ID: POR5
X: 364194.48 m
Y: 5008401.77 m
Z: 101.11 m

Point Source, ISO 9613, Name: "Emergency Generator", ID: "!05!Gen001"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3	363400.95	5008457.14	101.00	0	D	A	99.8	0.0	0.0	0.0	0.0	69.0	2.5	-1.6	0.0	0.0	0.0	0.0	0.0	30.0