SunE Ray GP Corp.

Noise Assessment Study Report

For

Newboro 1 Solar Farm

H341487-0000-07-124-0030
Rev. 0
August 12, 2014

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Project Report

August 12, 2014

SunE Ray GP Corp.
Newboro 1 Solar Farm

Executive Summary

This report presents the results of the noise assessment study required for Solar Facilities under Ontario Regulation 359/09 and 521/10, as part of the Renewable Energy Approval (REA) Process. SunE Ray GP Corp. is proposing to develop the Newboro 1 Solar Project, a 10 Megawatt (MW) solar photovoltaic (PV) facility. The Project will be located in the area of Crosby, Ontario.

This Report has been prepared based on the Ontario Ministry of the Environment document entitled "Basic Comprehensive Certificates of Approval (Air) – User Guide" (MOE, 2004). The sound pressure levels at the points of reception (POR) have been estimated using ISO 9613-2, implemented in the CADNA-A computer code. The performance limit used for verification of compliance corresponds to the values for Class 3 areas 40 dBA for daytime, evening, and night time. In addition, compliance was confirmed for locations at 30 m from the centre of the POR.

The results obtained in this study show that the sound pressure levels at the Noise Receptors resulting from the project operation will not exceed MOE requirements of 40 dB for rural areas. The results presented in this report are based on the best available information at this time.

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1. Introduction

1.1 Project Description

SunE Ray GP Corp. is proposing to develop the Newboro 1 Solar Project, a 10 megawatt (MW) solar photovoltaic (PV) facility. The project is located on McCann Road, north of Crosby, Township of Rideau Lakes, Ontario. The area is bounded by McCann Road to the north and Narrows Lock Road along the west. The solar farm will be located on privately owned land. The project's electrical substation will also be located on site. An overhead electrical line will connect the substation to the Hydro One distribution line on County Road 42.

The proposed Project is a renewable energy generation facility, which will use solar photovoltaic technology to generate electricity. Electricity generated by solar photovoltaic panels will be converted from direct current (DC) to alternating current (AC) by inverter clusters, which will also step up the voltage to 27.6 kV. A main transformer, located in the substation, will step up the voltage from the clusters to 44 kV prior to being sent to the existing local distribution line.

1.2 Renewable Energy Approval Legislative Requirements

Ontario Regulations 359/09 and 521/10, made under the Environmental Protection Act, identify the Renewable Energy Approval (REA) requirements for green energy projects in Ontario. As per Section 4 of Ontario Regulation 359/09 and its amendment (Ontario Regulation 521/10), ground mounted solar facilities with a nameplate capacity greater than 12 kilowatts (kW) are classified as a Class 3 solar facility and, therefore, require a REA.

Section 13 of Ontario Regulation 359/09 requires proponents of Class 3 solar facilities to complete a Noise Assessment Report in accordance with Appendix A of the Ministry of the Environment publication "Basic Comprehensive Certificates of Approval (Air) – User Guide, 2004" (MOE, 2004).

The Noise Assessment Report is to include a general description of the facility, noise sources and points of reception (POR), assessment of compliance, as well as all the supporting information relevant to the Project.

A draft of the Noise Assessment Report must be made available to the public, the local municipality and identified Aboriginal communities, at least 60 days prior to the final public consultation meeting in accordance with Ontario Regulation 359/09 and 521/10.

2. Facility Description

The Project will utilize photovoltaic (PV) panels installed on fixed racking structures mounted on the ground. The PV panels generate DC electricity, typically with voltages less than 1000 V which will be converted to 200 V AC electricity by inverters. The Project layout is based on ten enclosed inverter clusters, all of which house a pair of inverters. Each inverter cluster has an adjoining

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medium-voltage 1 MVA transformer. The site has one 10 MVA substation transformer. The 27.6 kV power, collected from the clusters, will be stepped up to 44 kV by the substation transformer prior to being sent to the existing local distribution line.

Since the panels will be ground mounted and the total nameplate capacity is over 12 kW, the Project is considered to be a Class 3 Solar Facility, according to the classification presented in Ontario Regulation 521/10.

Table 2-1 General Project Description

Project Description	Ground-mounted Solar PV, Class 3
System Nameplate Capacity	10 MW AC
Local Distribution Company	Hydro One Networks Inc.

2.1 Project Location

The project study area consists of approximately 142 hectares (ha) located on McCann Road at County Road 42. Figure A.1, Appendix A, shows the zoning designation plan. Figures A.2 and A.3 present the project area location plan, as well as the adjacent solar facilities proposed in the vicinity of the Newboro 1 Solar Project.

2.2 Acoustical Environment

The project site is flanked by agricultural property to the south and east sides, and residential properties to the north and west. For the receptors located in these areas, the background noise levels are expected to be typical of rural areas, classified as a Class 3 based on Publication NPC-232 by the MOE. Some traffic noise is expected from McCann Road, mainly during day hours. The closest city is Newboro, south west of the site.

There are no airports or large industrial facilities within a 5 km radius from the project area. Three other solar projects are located in the vicinity of the Newboro 1 Solar Project, and their potential impact has been included in this noise assessment (see Section 5).

2.3 Life of Project

Power purchase agreement is 20 years. The manufacturer's warranty on the PV modules is 25 years and the expected life of solar power plants of this type is typically 35 to 40 years. At this time or earlier if the 20-year power purchase agreement is not extended, the Project will be decommissioned or refurbished depending on market conditions and/or technological changes.

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2.4 Operating Hours

Solar PV facilities produce electricity during the daytime hours, when the sun's rays are collected by the panels. After sunset, the facility will not receive solar radiation to generate any electricity. Under these conditions the inverters will not produce any noise and the transformers will be energized, but not in operation (no fans).

2.5 Approach to the Study

The sound pressure levels at the POR were predicted using procedures from ISO 9613-2, which is a widely used and generally accepted standard for the evaluation of noise impact in environmental assessments. The sound power level for the inverters was evaluated based on an Acoustic Environmental Test Report issued by the supplier (Appendix B) while the sound power level for the transformers and substation transformer was estimated. The software package CADNA-A, which implements ISO-9613-2, was used to predict the noise levels at the closest POR. This numerical modeling software is able to simulate sound sources as well as sound mitigation measures taking into account atmospheric and ground attenuation. Some of the CADNA-A configurations used in the modeling are shown in Figure 2-1.

The elevation contours for the site were not applied.

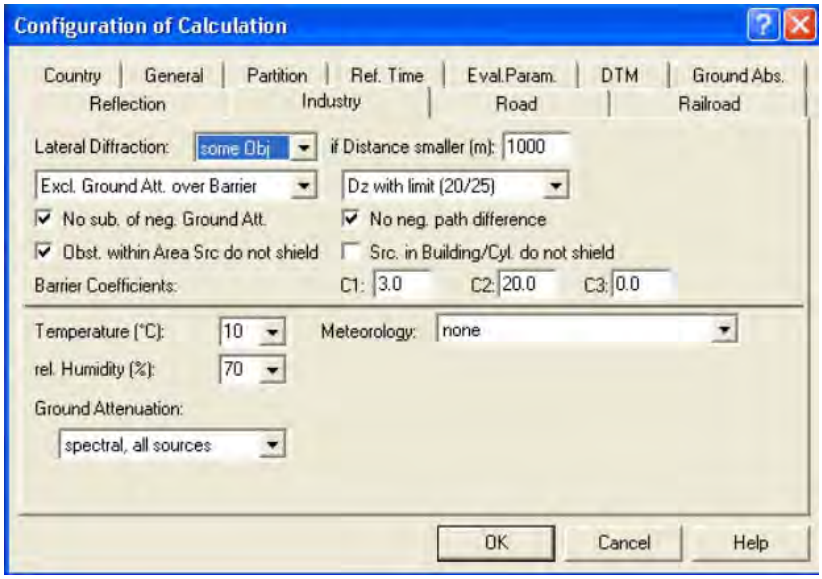

Figure 2-1: CADNA-A Configuration

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3. Noise Source Summary

The main sources of noise from the Project will be the ten inverter clusters, each of which consists of two inverters and one medium-voltage transformer. All inverter clusters are housed within an enclosure. The substation contains the main step-up transformer. A layout of the Newboro 1 Solar Project is provided in Figure A.2 (Appendix A). The coordinates of each noise source are presented in Table B.1 of Appendix B.

All noise sources were modeled as non-directional point sources. These point sources were located at the centre of each inverter cluster and the center of the medium-voltage transformers, to represent the location of the sound sources on the equipment (fans, magnetostrictive noise).

Switchgear and a small step-down transformer used for lighting, located at the substation, do not emit any significant noise and consequently have not been considered as sources of noise.

This study assumes a worst-case scenario where all the inverters and transformers are operating 24 hours. The performance limit for the facility is set at 40 dBA, according to Publication NPC-232. Three other solar projects are proposed in the vicinity of the Newboro 1 Solar Project, and their potential impact has been included in this noise assessment.

3.1 Substation Transformer

A step-up transformer that will step up the 27.6 kV power to 44 kV, required by the local distribution company, will be located in the substation. The transformer will be a Northern Liquid Filled ONAN (Oil Natural Air, Naturally cooled) Transformer. An estimate of 75.2 m^2 was used for the transformer effective sound pressure area (see Appendix B). The sound power level resulting from the operation of the transformer was evaluated using data from NEMA TRI – 1993 (R2000). This standard provides maximum sound level values for transformers, and manufacturers routinely meet this specification. Hence, the results based on NEMA may slightly overestimate the impact on POR since the actual transformer is expected to be quieter.

The NEMA levels were then converted into frequency spectra using empirical correlations for transformer noise (Crocker, 1997). This calculation is available in Appendix B.

Power transformers are considered by the MOE to be tonal noise sources. A 5 dB penalty for tonality was added to the sound power spectrum, as recommended by MOE Publication NPC-104. Table B.4 in Appendix B shows the frequency spectrum used to model the substation transformer.

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3.2 Inverter Clusters

The inverters used for the Newboro 1 Solar Project will be manufactured by SMA Solar Technology Canada, Inc. Each 1 MW inverter cluster is supplied with an enclosure, each housing two, SMA SC500CP-US 500 kW inverter units. Each inverter cluster has one accompanying medium-voltage transformer located outside the inverter enclosure.

The octave-band sound power spectrum of each SC500CP-US inverter was based on an Acoustic Environmental Test report for a SMA SC800CP-US inverter, included in Appendix B. Though the SC800CP-US is slightly louder when comparing the overall sound pressure level at 10m, as per the respective models' specification sheet (see Appendix B), the SC500CP-US inverters were conservatively modeled with the identical sound power spectrum of the SC800CP-US. A 5 dBA tonal penalty was further added.

The 1 MVA medium-voltage transformers used to step-up the 200 V power from the inverters to 27.6 kV will be located in close proximity to the inverters units, just outside the inverter house. Since the transformer make and model have not been selected at this point, although it is known that the transformers will be of ONAF (oil natural air forced type), the sound power levels resulting from the operation of the transformer were evaluated using data from NEMA TR 1-1993 (R2000). The NEMA levels were then converted into frequency spectrum using empirical correlations for transformer noise (Crocker, 1997). This calculation is available in Appendix B. A 5 dBA penalty for tonality was added to the frequency spectrum, as stipulated by MOE Publication NPC-104. Table B.4 Appendix B shows the frequency spectrum used to model the medium-voltage transformers.

The facility will not operate at night time, due to the absence of sunlight. Under these conditions, the inverters do not produce noise. The medium-voltage transformers are energized and make some magnetostrictive noise at a reduced level, but no cooling fans are in operation. However, this study assumes that the facility is in operation during the daytime, evening and night time periods.

3.3 Noise Summary Table

A summary of the sound sources for the Newboro 1 Solar Project described above, including sound level, characteristics and proposed noise control measures, is presented in Table 3-1.

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Table 3-1 Noise Source Summary for the Newboro 1 Solar Project

Source ID	Description	Total Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
H1T	Hut 1 Transformer	77	O	S,T	U
H1I	Hut 1 Inverters 1	100	O	S,T	E
H2T	Hut 2 Transformer	77	O	S,T	U
H2I	Hut 2 Inverters 1	100	O	S,T	E
H3T	Hut 3 Transformer	77	O	S,T	U
H3I	Hut 3 Inverters 1	100	O	S,T	E
H4T	Hut 4 Transformer	77	O	S,T	U
H4I	Hut 4 Inverters 1	100	O	S,T	E
H5T	Hut 5 Transformer	77	O	S,T	U
H5I	Hut 5 Inverters 1	100	O	S,T	E
H6T	Hut 6 Transformer	77	O	S,T	U
H6I	Hut 6 Inverters 1	100	O	S,T	E
H7T	Hut 7 Transformer	77	O	S,T	U
H7I	Hut 7 Inverters 1	100	O	S,T	E
H8T	Hut 8 Transformer	77	O	S,T	U
H8I	Hut 8 Inverters 1	100	O	S,T	E
H9T	Hut 9 Transformer	77	O	S,T	U
H9I	Hut 9 Inverters 1	100	O	S,T	E
H10T	Hut 10 Transformer	77	O	S,T	U
H10I	Hut 10 Inverters 1	100	O	S,T	E
ST	Substation	92	O	S,T	U

Notes:
1. A 5 dBA tonal penalty is included in this table.
2. Location: Inside building (I), Outside building (O).
3. Sound Characteristics: Steady (S), Tonal (T), Impulsive (I), Quasi-Steady Impulsive (QSI).
4. Noise Control: Silencer (S), Acoustic lining (A), Barrier (B), Lagging (L), Enclosure (E), Other (O), Uncontrolled (U).

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4. Point of Reception Summary

The PORs identified within a 1 km distance from the Project Location[1] boundary were done so using recent aerial photos, land information, composite GIS mapping, and information provided bySunE Ray GP Corp. based on visual observations of the Project site surroundings.

The PORs corresponding to the vacant lots were added based on parcel information where an identifiable or visible structure was not apparent.

The number of receptors associated with the Newboro 1 Solar Project is 45, including vacant lots. Noise Receptors were represented in the CADNA-A computer model by Point of Receptions (POR) according to the following rules:

1) existing and vacant Noise Receptors located in the immediate proximity to the Newboro 1 Solar Project Site were represented by a point at an elevation of 4.5 m above ground height.

2) existing and vacant Noise Receptors located in the immediate proximity to the Newboro 1 Solar Project Site were also represented by envelopes extended 30 m from the 4.5 m elevated receptor at and elevation of 1.5 m above ground height

Three noise receptors within 1000 m of Newboro 1 Solar Project, identified in Table 4-1 were chosen as representative receptors for evaluating the noise contribution from each individual source. These three receptors were the closest to the Project Location and had some of the highest modeled noise levels. For this study, the elevation above ground used for the dwellings is 4.5 m, although noise compliance was also verified at 30 m from the dwelling location at 1.5 m above the ground level.

A complete list of the POR considered in the noise model (45) is included in Table C.1, Appendix C.

Table 4-1 Point of Reception Noise Impact

Source ID	POR R05		POR R23		POR V17	
		L_{eq} Sound Level		L_{eq} Sound Level		L_{eq} Sound Level
	Distance (m)	(dBA)	Distance (m)	(dBA)	Distance (m)	(dBA)
H1T	1000	4.2	646	8.8	627	9.1
H1I	1003	10.4	642	15.5	622	15.8
H2T	854	5.3	590	9.1	744	6.8

[1] "Project Location" is the complete area controlled by the Project and occupied by the Project infrastructure.

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Source ID	POR R05		POR R23		POR V17	
	Distance (m)	L_{eq} Sound Level (dBA)	Distance (m)	L_{eq} Sound Level (dBA)	Distance (m)	L_{eq} Sound Level (dBA)
H2I	849	12.3	592	16.3	749	13.8
H3T	945	4.2	782	6.2	738	6.8
H3I	940	11.2	783	13.2	742	13.9
H4T	901	4.7	832	5.6	800	6.0
H4I	904	11.6	829	12.6	795	13.1
H5T	754	6.6	691	7.5	846	5.4
H5I	750	13.7	694	14.6	851	12.3
H6T	620	8.6	739	6.8	980	3.8
H6I	624	15.8	734	14.0	976	10.8
H7T	719	7.1	888	4.9	952	4.1
H7I	723	14.2	884	11.9	947	11.1
H8T	846	5.4	1032	3.2	985	3.7
H8I	848	12.4	1028	10.2	980	10.7
H9T	458	11.6	864	5.2	1152	2.0
H9I	453	19.3	868	12.1	1157	8.8
H10T	514	10.5	942	4.2	1110	2.4
H10I	509	18.0	946	11.1	1115	9.2
ST	254	32.8	1061	19.1	1375	16.2

5. Impact of Adjacent Solar Facilities

The Hatch internal database of solar projects and MOE records available at http://www.ene.gov.on.ca/environment/en/subject/renewable_energy/projects/index.htm were searched (June 27, 2014) for adjacent solar facilities. There are currently three other projects proposed in the vicinity of the Newboro 1 Solar Project:

1. Crosby Solar Project – 10 MW

The Crosby facility is approximately 3.3 km away from the Newboro 1 Solar Project location. As a result, some of the identified receptors within 1 km of the Newboro 1 Solar Project site are also

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within a kilometre of the Crosby project. Therefore, the Crosby project was included in the Newboro 1 Solar Project acoustic model and the cumulative impact of both sites was assessed.

2. McCann Solar Project – 10MW

The McCann facility is approximately 1.1 km away from the Newboro 1 Solar Project location. As a result, some of the identified receptors within 1 km of the Newboro 1 Solar Project site are also within a kilometre of the McCann project. Therefore, the McCann project was included in the Newboro 1 Solar Project acoustic model and the cumulative impact of both sites was assessed.

3. Rideau Solar Project – 10MW

The Rideau facility is approximately 0.9 km away from the Newboro 1 Solar Project location. As a result, some of the identified receptors within 1 km of the Newboro 1 Solar Project site are also within a kilometre of the Rideau project. Therefore, the Rideau project was included in the Newboro 1 Solar Project acoustic model and the cumulative impact of both sites was assessed.

The coordinates of the noise sources corresponding to the adjacent projects are included in Appendix B, Table B.2.

6. Mitigation Measures

Noise controls in the form of an enclosure housing each inverter pair at the Newboro 1 Solar Project has been modeled and shown to be feasible. The transformer and inverter cluster noise sources were modelled as two separate point sources with the medium voltage transformer just outside of the enclosure.

The inverter enclosure shall have a minimum insertion loss as follows:

31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
0	5	6	7	7	10	10	15	15

7. Impact Assessment

The purpose of the Noise Assessment Study Report is to demonstrate that the facility is in compliance with the noise performance limits. The Project will be located in a Class 3 area, based on the classification defined in MOE Publication NPC-232. A Class 3 area means a rural area with an acoustical environment that is dominated by natural sounds, having little or no traffic, such as an agricultural area.

Table 7-1 shows the performance limits set by the MOE for Class 3 areas, according to MOE Publication NPC-232.

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Table 7-1 Performance Limits (One-Hour Leq) by Time of Day for Class 3 Areas

Time of Day		One Hour L_{eq} (dBA) Class 3 Area
07:00 to 19:00	Day	45
19:00 to 23:00	Evening	40
23:00 to 07:00	Night	40

The solar facility will be operating during the daylight hours, that is, before 19:00 during most days of the year. However, in the summer months the sun may shine until past 19:00, or before 07:00. As such, during the summer, the facility will be operating at time periods where the applicable performance limit is 40 dBA (although the inverters will be below 100% loading conditions). Therefore, the noise model assumes that the inverters, medium-voltage and substation transformers will be operating 24 hours, and compares the impact from the facility with the 40 dBA limit. This is a conservative assumption as, in reality; the cooling fans will not be in operation at night.

For this study, the overall ground attenuation coefficient was estimated to be 0.7. Appendix D includes a list of all the parameters used in the CADNA-A model to predict the sound pressure levels at the POR. The modelling does not consider the effect of the solar panels on the predicted sound pressure levels at the POR; the solar panels may act as barriers to further reduce noise at the POR.

7.1 Compliance with Performance Limits

Table 7-2 presents the predicted sound pressure levels for the representative POR. The complete set of results is included in Appendix C. Appendix D includes a detailed calculation log of the representative POR. The complete set of results for all 45 noise receptors identified to surround the Newboro 1 Solar Project location is provided in Table 7-3, which also includes the individual impact of each project.

The results show that all POR are compliant with MOE guidelines based on the performance limit of 40 dBA. Compliance at 30 m from the dwellings has been verified, and can be clearly observed in Figure C.2 (Noise Contour Maps – 1.5 m above ground level).

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Table 7-2 Acoustic Assessment Summary

POR ID	POR Description	Total Sound Level at POR (L_{eq}) (dBA)	Verified by Acoustic Audit (Yes/No)	Performance Limit (L_{eq}) (dBA)	Compliance With Performance Limit (Yes/No)
R05	Existing house – south	38.8	No	40.0	Yes
R23	Existing house – north	37.5	No	40.0	Yes
V17	Vacant lot - north	36.5	No	40.0	Yes

Table 7-3 Calculated Sound Pressure Levels at POR within 1 km of Newboro 1 – 4.5 m Elevation

POR ID	POR Description	Point of Reception at 4.5 m								
		UTM Coordinates NAD 83 Zone 18 [m]		Sound Pressure Contribution					Nearest Source	
		X	Y	Crosby	McCann	Rideau	Newboro 1	Total	Dist[m]	ID
R01	Existing	399849	4946144	0.0	16.1	25.4	19.7	26.8	1278	ST
R02	Existing	399516	4946521	4.8	18.5	30.1	24.4	31.4	779	ST
R03	Existing	399466	4946709	5.2	19.7	31.1	27.0	32.7	595	ST
R04	Existing	399219	4946756	12.2	20.2	35.1	29.0	36.2	445	ST
R05	Existing	399179	4946942	12.5	21.5	37.1	33.6	38.8	254	ST
R06	Existing	398818	4947350	16.5	24.6	32.0	32.0	35.4	336	ST
R07	Existing	398555	4947400	17.9	24.5	30.2	27.0	32.8	597	ST
R08	Existing	398512	4947621	17.8	26.2	27.5	25.6	31.5	707	H9T
R09	Existing	398579	4947746	17.3	27.7	26.5	25.7	31.6	696	H9T
R10	Existing	398262	4948014	18.4	27.8	23.4	21.3	30.1	1100	H6I
R11	Existing	398188	4948154	18.4	28.0	22.2	20.1	29.9	1225	H2T
R12	Existing	398306	4948249	17.5	29.9	21.8	20.5	31.1	1149	H2T
R13	Existing	398120	4948237	18.4	27.7	21.4	19.3	29.4	1316	H2T
R14	Existing	398215	4948322	17.7	29.1	21.1	19.5	30.4	1263	H2T
R15	Existing	398138	4948380	17.9	28.4	20.6	18.7	29.7	1356	H2T
R16	Existing	398024	4948323	18.6	26.9	20.6	18.3	28.7	1438	H2T
R17	Existing	398484	4948936	13.2	32.0	17.8	17.3	32.4	1448	H2T
R18	Existing	397875	4948370	19.1	25.6	19.9	17.2	27.7	1593	H2T
R19	Existing	397693	4947139	23.9	19.5	25.7	18.1	28.9	1420	ST

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POR ID	POR Description	Point of Reception at 4.5 m								
		UTM Coordinates NAD 83 Zone 18 [m]		Sound Pressure Contribution					Nearest Source	
		X	Y	Crosby	McCann	Rideau	Newboro 1	Total	Dist[m]	ID
R20	Existing	398079	4947679	20.2	24.2	25.1	21.0	29.1	1139	H9I
R21	Existing	398399	4947618	18.5	25.6	27.1	24.3	30.8	813	H9I
R22	Existing	398748	4948033	16.0	32.3	24.1	25.4	33.7	657	H2T
R23	Existing	398990	4948242	12.2	37.1	22.4	25.5	37.5	590	H2T
R24	Existing	399718	4948600	0.0	32.3	18.7	22.5	32.9	741	H1I
R25	Existing	399818	4948837	0.0	30.5	17.2	20.0	31.1	997	H1I
R26	Existing	400021	4948886	0.0	27.8	16.5	18.9	28.6	1118	H1I
R27	Existing	400053	4949022	0.0	27.1	15.4	17.8	27.8	1255	H1I
R28	Existing	399033	4949394	0.0	31.0	15.1	15.8	31.2	1587	H1I
V01	Vacant	398098	4948605	17.3	28.1	19.2	17.4	29.2	1504	H2T
V02	Vacant	398485	4948612	15.7	33.7	19.7	19.4	34.1	1205	H2T
V03	Vacant	398928	4949104	0.0	35.6	17.0	17.6	35.7	1357	H1I
V04	Vacant	399042	4949120	0.0	36.2	16.9	17.7	36.3	1326	H1I
V05	Vacant	400292	4949073	0.0	24.8	14.1	16.7	25.7	1415	H1I
V06	Vacant	399334	4946546	10.4	18.9	32.7	25.4	33.6	679	ST
V07	Vacant	399947	4946026	0.0	15.4	24.2	18.5	25.7	1430	ST
V08	Vacant	399694	4946350	0.0	17.4	27.5	22.0	28.9	1020	ST
V09	Vacant	398363	4947932	18.1	28.1	24.3	22.5	30.6	975	H6I
V10	Vacant	399675	4948793	0.0	32.8	17.8	20.7	33.2	921	H1I
V11	Vacant	399575	4949374	0.0	29.2	14.2	16.1	29.5	1490	H1I
V12	Vacant	399894	4948755	0.0	29.6	17.4	20.5	30.3	946	H1I
V13	Vacant	400918	4948298	0.0	20.3	15.7	17.2	23.0	1373	H8I
V14	Vacant	399725	4946126	0.0	16.2	26.3	20.0	27.6	1226	ST
V15	Vacant	401308	4947451	0.0	16.5	15.9	15.7	20.9	1550	H8T
V16	Vacant	398963	4949272	0.0	32.7	16.1	16.5	32.9	1496	H1I
V17	Vacant	399503	4948506	0.0	36.2	19.7	24.0	36.5	622	H1I

Notes: (Shaded rows correspond to representative POR)
Existing = Existing dwelling, Vacant = Vacant Lot.
The performance limit is 40.0 dBA.

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8. Conclusions and Recommendations

For the Newboro 1 Solar Project, the sound pressure levels at the POR have been estimated using the CADNA-A model, based on ISO 9613-2. The performance limit used for comparison correspond to the night time requirement for Class 3 areas (40 dBA). Mitigation for operation of the Project has been modeled and shown to be feasible.

Based on the results obtained in this study, it is concluded that the sound pressure levels at the POR will be below MOE requirements for Class 3 areas at night time (40 dBA), and at all times while the facility is in operation.

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9. Signatures

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Appendix A
Land-Use Zoning Designation Plan, Area Location Plan and Facility Layout

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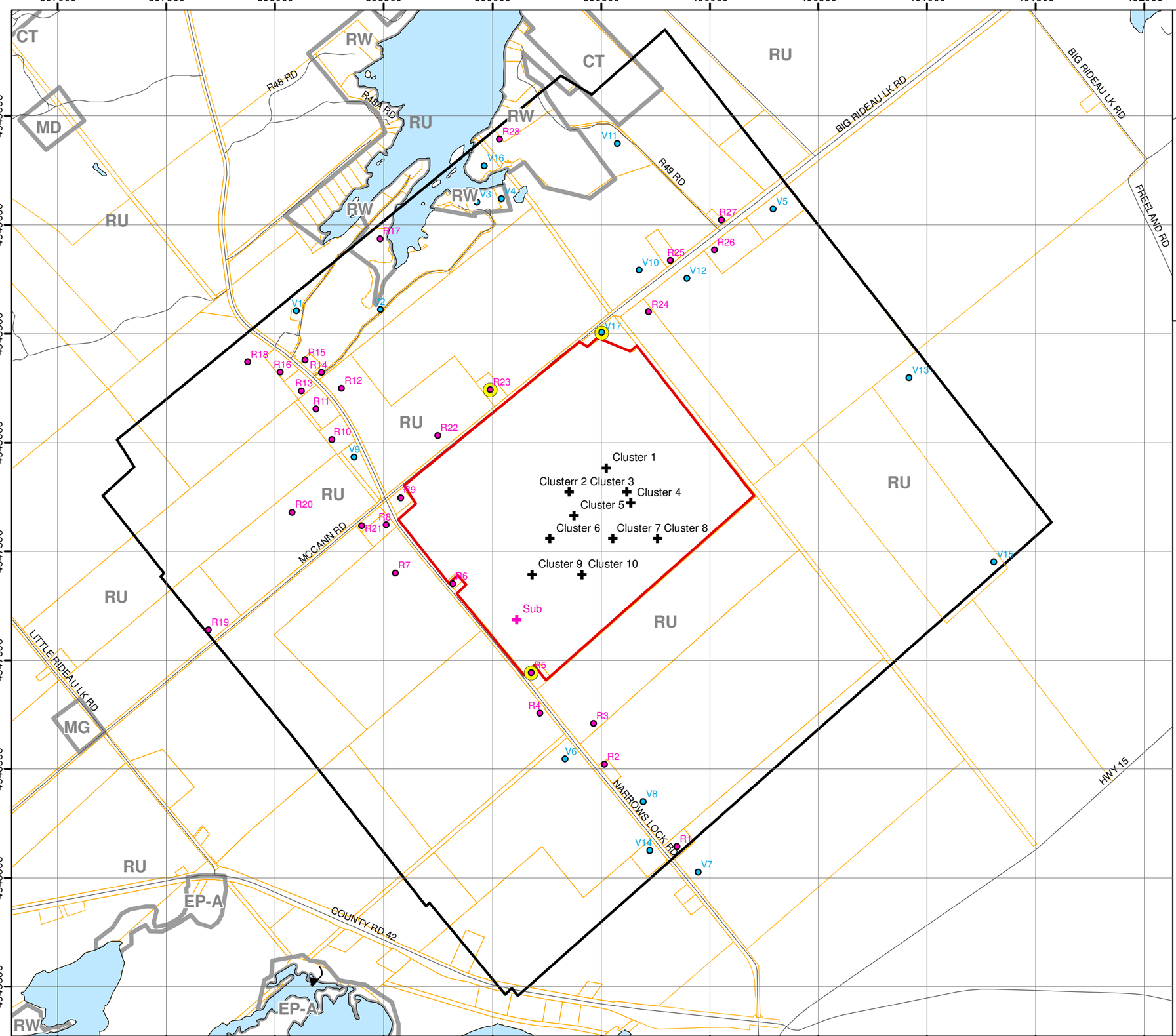

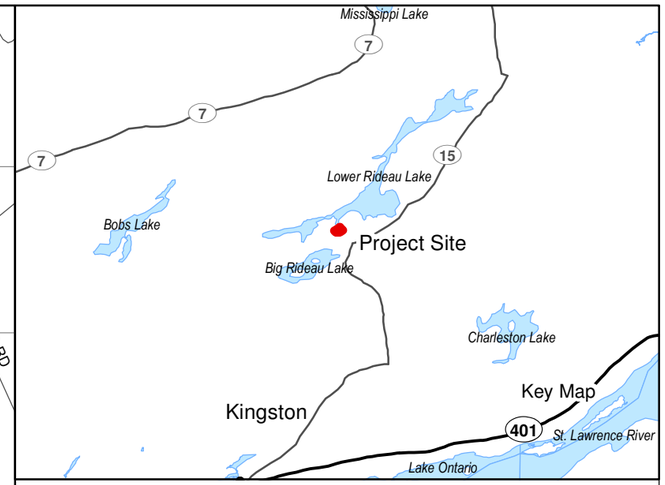

Legend

Cluster 1
- Inverter Cluster

Sub
- Substation Transformer

#
- Noise Receptor - Existing

#
- Noise Rceptor - Vacant

#
- Representative Noise Receptor

- Road
- Parcel
- Waterbody

Zones

RG	General Residential
RW	Waterfront Residential
RMH	Mobile Home Park Residential
CG	General Commercial
CL	Local Commercial
CT	Tourist Commercial
MG	General Industrial
MS	Salvage Yard Industrial
MD	Disposal Industrial
I	Institutional
OS	Open Space
PL	Parking Lot
RU	Rural
A	Agriculture
EX	Mineral Aggregate Extraction
EP-A	Environmental Protection - A
EP-B	Environmental Protection - B
FP	Flood Plain

Notes:
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2. Spatial referencing UTM NAD 83.

0 200 400 800 Metres NORTH

1:18,000

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Figure A.1
SunEdison Canada
Newboro 1 Solar Project
Zoning Designation Plan

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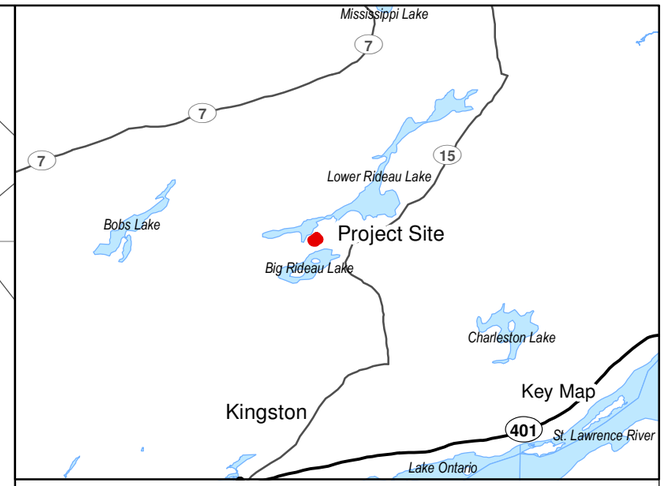
395000 396000 397000 398000 399000 400000 401000

4950000 4949000 4948000 4947000 4946000 4945000

N SHORE RD
R48
R45 RD
CHEETHAM RD
BIG RIDEAU LK RD
R48 RD
R48A RD
R49 RD
MCCANN RD
LITTLE RIDEAU LK RD
NARROWS LOCK RD
COUNTY RD 42
HWY 15
CARLETON ST
JOHN ST
DRUMMOND ST
BAY ST
BY ST
WATER ST
COUNTY RD 42



Legend

- Railway
- Road
- Newboro 1 Project Site
- McCann Project Site (Northland)
- Crosby Project Site (Northland)
- Rideau Lakes Project Site (Northland)
- 1000 m from Project Site
- Waterbody

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0 250 500 1,000 Metres

NORTH

1:24,000

Figure A.2
SunEdison Canada
Newboro Solar Project
Scaled Area Location Plan
- Adjacent Projects

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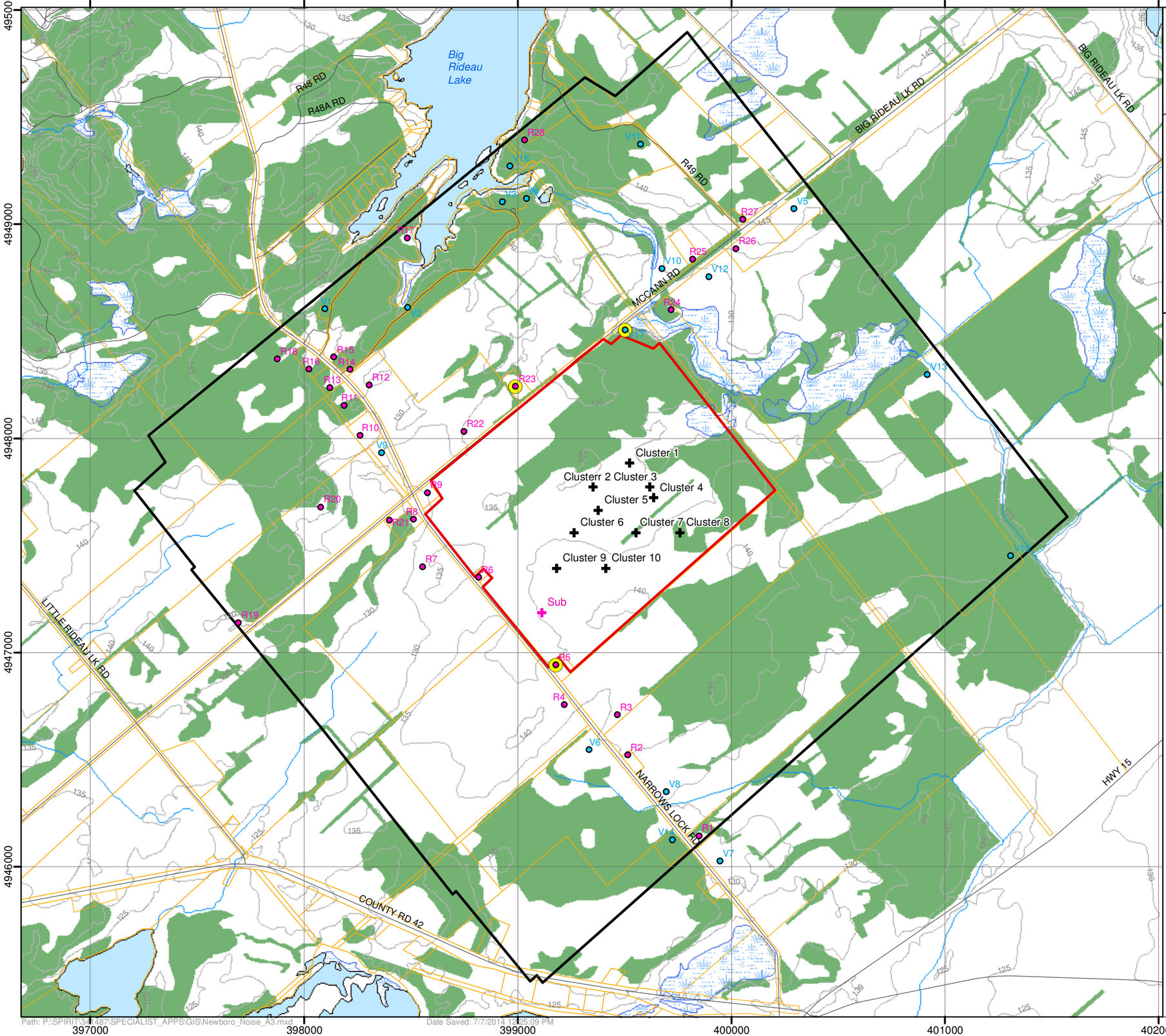

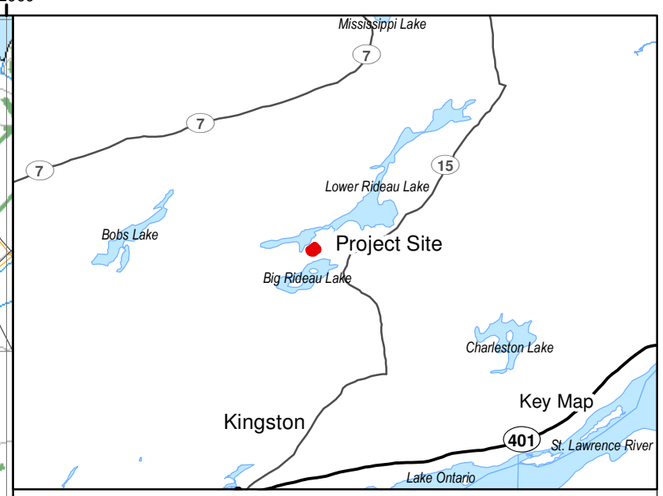

Legend

Cluster 1
- Inverter Cluster
- Substation Transformer
- Noise Receptor - Existing
- Noise Rceptor - Vacant
- Representative Noise Receptor
- Road
- Topographic Contour (5m interval)
- Watercourse
- Newboro 1 Project Site
- Parcel
- 1000 m from Project Site
- Waterbody
- Wetland
- Wooded Area

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2. Spatial referencing UTM NAD 83.

0 180 360 720 Metres

1:18,000

NORTH

Figure A.3

SunEdison Canada

Newboro 1 Solar Project

Scaled Location Plan

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Appendix B
Noise Sources

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Table B.1 Point Sources for the Newboro 1 Solar Project Used in CADNA-A,

Source ID	Description	Spectra ID	Total sound power level (dBA)	Correction (dB)	Height (m)	Coordinates, UTM NAD 83 Zone 18	
						X	Y
H1T	27.6-kV/1-MVA transformer at Cluster 1	Inv_TRS_ONAN_1MVA	72	5	2.5	399525	4947880
H1I	Two SMA SC500CP inverters at Cluster 1	SC_800_CP	95	5	2	399524	4947885
H2T	27.6-kV/1-MVA transformer at Cluster 2	Inv_TRS_ONAN_1MVA	72	5	2.5	399354	4947778
H2I	Two SMA SC500CP inverters at Cluster 2	SC_800_CP	95	5	2	399353	4947773
H3T	27.6-kV/1-MVA transformer at Cluster 3	Inv_TRS_ONAN_1MVA	72	5	2.5	399619	4947778
H3I	Two SMA SC500CP inverters at Cluster 3	SC_800_CP	95	5	2	399618	4947773
H4T	27.6-kV/1-MVA transformer at Cluster 4	Inv_TRS_ONAN_1MVA	72	5	2.5	399637	4947718
H4I	Two SMA SC500CP inverters at Cluster 4	SC_800_CP	95	5	2	399636	4947722
H5T	27.6-kV/1-MVA transformer at Cluster 5	Inv_TRS_ONAN_1MVA	72	5	2.5	399377	4947670
H5I	Two SMA SC500CP inverters at Cluster 5	SC_800_CP	95	5	2	399376	4947665

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Source ID	Description	Spectra ID	Total sound power level (dBA)	Correction (dB)	Height (m)	Coordinates, UTM NAD 83 Zone 18	
						X	Y
H6T	27.6-kV/1-MVA transformer at Cluster 6	Inv_TRS_ONAN_1MVA	72	5	2.5	399265	4947556
H6I	Two SMA SC500CP inverters at Cluster 6	SC_800_CP	95	5	2	399264	4947560
H7T	27.6-kV/1-MVA transformer at Cluster 7	Inv_TRS_ONAN_1MVA	72	5	2.5	399554	4947556
H7I	Two SMA SC500CP inverters at Cluster 7	SC_800_CP	95	5	2	399553	4947560
H8T	27.6-kV/1-MVA transformer at Cluster 8	Inv_TRS_ONAN_1MVA	72	5	2.5	399761	4947556
H8I	Two SMA SC500CP inverters at Cluster 8	SC_800_CP	95	5	2	399760	4947560
H9T	27.6-kV/1-MVA transformer at Cluster 9	Inv_TRS_ONAN_1MVA	72	5	2.5	399183	4947400
H9I	Two SMA SC500CP inverters at Cluster 9	SC_800_CP	95	5	2	399181	4947395
H10T	27.6-kV/1-MVA transformer at Cluster 10	Inv_TRS_ONAN_1MVA	72	5	2.5	399413	4947400
H10I	Two SMA SC500CP inverters at Cluster 10	SC_800_CP	95	5	2	399412	4947395
ST	44-kV/10-MVASubstation transformer	Sub_TRS_ONAF_10MVA	87	5	3.8	399112	4947188

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Table B.2 Point Sources for the adjacent Crosby, McCann, and Rideau sites, includes Tonality Penalty of 5.0 dB

Source ID	Spectra ID	Total sound power level (dBA)	Correction (dB)	Height (m)	Coordinates, UTM NAD 83 Zone 18	
					X	Y
Cr_Inv_1	SMA_SC800CPX2	91	0	2.6	396144	4947145
Cr_Inv_2	SMA_SC800CPX2	91	0	2.6	396106	4947028
Cr_Inv_3	SMA_SC800CPX2	91	0	2.6	396106	4946899
Cr_Inv_4	SMA_SC800CPX2	91	0	2.6	396106	4946793
Cr_Inv_5	SMA_SC800CPX2	91	0	2.6	396401	4946898
Cr_Inv_6	SMA_SC800CPX2	91	0	2.6	396405	4947028
Cr_Inv_7	SMA_SC800CPX2	91	0	2.6	396390	4947139
Cr_Sub	T44kV_10MVA	91	0	3.5	396603	4947196
Cr_Transf_1	T27.6kV_1.6MVA	80	0	2.58	396149	4947144
Cr_Transf_2	T27.6kV_1.6MVA	80	0	2.58	396111	4947027
Cr_Transf_3	T27.6kV_1.6MVA	80	0	2.58	396111	4946899
Cr_Transf_4	T27.6kV_1.6MVA	80	0	2.58	396111	4946793
Cr_Transf_5	T27.6kV_1.6MVA	80	0	2.58	396396	4946899
Cr_Transf_6	T27.6kV_1.6MVA	80	0	2.58	396410	4947027
Cr_Transf_7	T27.6kV_1.6MVA	80	0	2.58	396395	4947138

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Source ID	Spectra ID	Total sound power level (dBA)	Correction (dB)	Height (m)	Coordinates, UTM NAD 83 Zone 18	
					X	Y
Mc_Inv_1	SMA_SC800CPX2	91	0	2.6	398805	4948423
Mc_Inv_2	SMA_SC800CPX2	91	0	2.6	398918	4948529
Mc_Inv_3	SMA_SC800CPX2	91	0	2.6	398958	4948667
Mc_Inv_4	SMA_SC800CPX2	91	0	2.6	398994	4948815
Mc_Inv_5	SMA_SC800CPX2	91	0	2.6	399183	4948920
Mc_Inv_6	SMA_SC800CPX2	91	0	2.6	399187	4948714
Mc_Inv_7	SMA_SC800CPX2	91	0	2.6	399289	4948606
Mc_Sub	T44kV_10MVA	91	0	3.5	399149	4948484
Mc_Transf_1	T27.6kV_1.6MVA	80	0	2.58	398810	4948422
Mc_Transf_2	T27.6kV_1.6MVA	80	0	2.58	398923	4948529
Mc_Transf_3	T27.6kV_1.6MVA	80	0	2.58	398963	4948666
Mc_Transf_4	T27.6kV_1.6MVA	80	0	2.58	398999	4948814
Mc_Transf_5	T27.6kV_1.6MVA	80	0	2.58	399189	4948919
Mc_Transf_6	T27.6kV_1.6MVA	80	0	2.58	399192	4948714
Mc_Transf_7	T27.6kV_1.6MVA	80	0	2.58	399294	4948606
RL_Inv_1	SMA_SC800CPX2	91	0	2.6	398635	4946759
RL_Inv_2	SMA_SC800CPX2	91	0	2.6	398600	4946624

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Source ID	Spectra ID	Total sound power level (dBA)	Correction (dB)	Height (m)	Coordinates, UTM NAD 83 Zone 18	
					X	Y
RL_Inv_3	SMA_SC800CPX2	91	0	2.6	398600	4946512
RL_Inv_4	SMA_SC800CPX2	91	0	2.6	398635	4946356
RL_Inv_5	SMA_SC800CPX2	91	0	2.6	398843	4946802
RL_Inv_6	SMA_SC800CPX2	91	0	2.6	398859	4946623
RL_Inv_7	SMA_SC800CPX2	91	0	2.6	398859	4946467
RL_Sub	T44kV_10MVA	91	0	3.5	399020	4947013
RL_Transf_1	T27.6kV_1.6MVA	80	0	2.58	398640	4946758
RL_Transf_2	T27.6kV_1.6MVA	80	0	2.58	398605	4946624
RL_Transf_3	T27.6kV_1.6MVA	80	0	2.58	398605	4946512
RL_Transf_4	T27.6kV_1.6MVA	80	0	2.58	398640	4946355
RL_Transf_5	T27.6kV_1.6MVA	80	0	2.58	398838	4946803
RL_Transf_6	T27.6kV_1.6MVA	80	0	2.58	398854	4946624
RL_Transf_7	T27.6kV_1.6MVA	80	0	2.58	398854	4946467

Notes: Values determined from past Northland Noise Assessment Reports:
Crosby site (08/12/2011), McCann site (11/12/2013), Rideau site (06/12/2011)

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Table B.3 Frequency Spectra Used for Modelling the Noise Sources for Crosby, McCann, and Rideau

ID	Octave Spectrum (dBA)										
	31.5	63	125	250	500	1000	2000	4000	8000	A	lin
SMA_SC800CPX2	0	63.1	73.9	80.5	82.3	78.7	74.1	65.0	72.7	86.3	95.0
T27.6kV_1.6MVA	32.3	51.5	63.6	66.1	71.5	68.7	64.9	59.7	50.6	75.1	83.7
T44kV_10MVA	43.0	62.2	74.3	76.8	82.2	79.4	75.6	70.4	61.3	85.8	94.4

Table B.4 Frequency Spectra Used for Modelling the Noise Sources (Newboro 1 Solar Project), Not Including Tonality Penalty or attenuation of enclosure

ID	Octave Spectrum (dB)										
	31.5	63	125	250	500	1000	2000	4000	8000	A	lin
Inv_TRS_ONAN_1MVA	69	75	77	72	72	66	61	56	49	72	81
Sub_TRS_ONAN_10MVA	84	90	92	87	87	81	76	71	64	87	96
SC_800_CP (2 units)	94	87	85	86	86	81	84	93	82	95	98

Table B.5 Inverter Enclosure Insertion Loss for Newboro 1

Description	Octave Spectrum (dB)								
	31.5	63	125	250	500	1000	2000	4000	8000
Newboro 1	0	5	6	7	7	10	10	15	15

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Estimated Frequency Spectra for Transformers

Transformer - 27.6kV/44kV/10MVA - ONAN

Average LpA	68.0	dBA	Based on NEMA TR1-1993 (R2000), Table 0-2, immersed power transformers
Estimated surface area	75.2	m^2	Estimated based on Northern Transformer catalogue. Surface area outlined in IEEE C57.12.90
Estimated overall LwA	87	dBA	

Correction factors are in dB

Freq. (Hz)	31	63	125	250	500	1000	2000	4000	8000	Notes
C	-3.0	3.0	5.0	0.0	0.0	-6.0	-11.0	-16.0	-23.0	Malcom J. Crocker (Editor), Encyclopedia of Acoustics. John Wiley & Sons, Inc. New York, 1997. p.1050

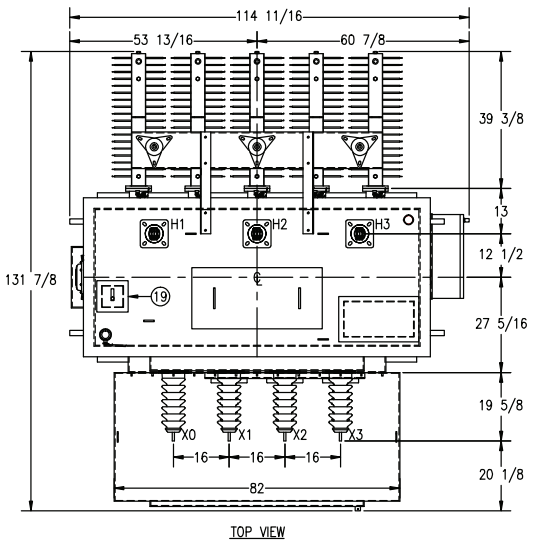
Sound Power Level calculated as Lw=Average LpA + 10*log(Estimated surface area) + C

Freq. (Hz)	31	63	125	250	500	1000	2000	4000	8000	Combined [dB]
C based [dB]	84	90	92	87	87	81	76	71	64	**95.8**

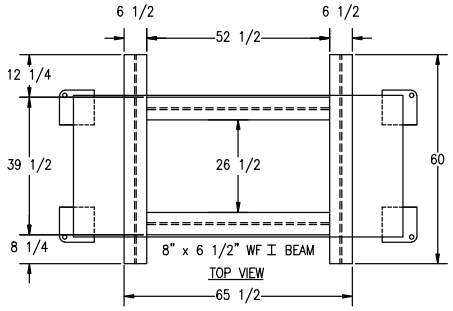
Resulting A-weighted sound power level

Freq. (Hz)	A-Weight	C1 based [dBA]
31	-39.4	44
63	-26.2	64
125	-16.1	76
250	-8.6	78
500	-3.2	84
1000	0.0	81
2000	1.2	77
4000	1.0	72
8000	-1.1	63
LwA [dBA]		**87**

Used in the study

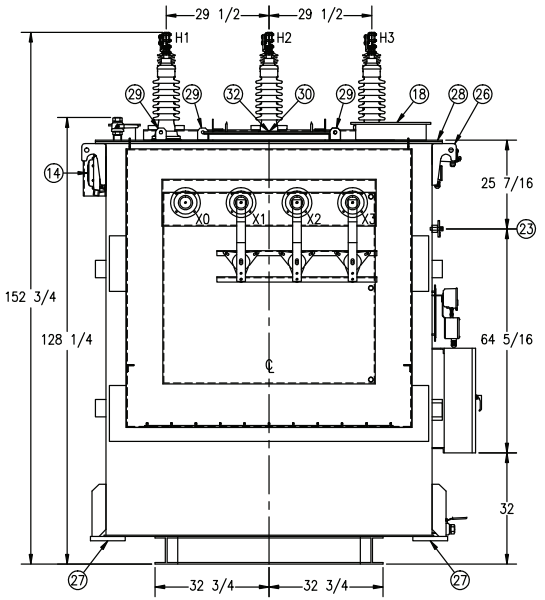


TOP VIEW

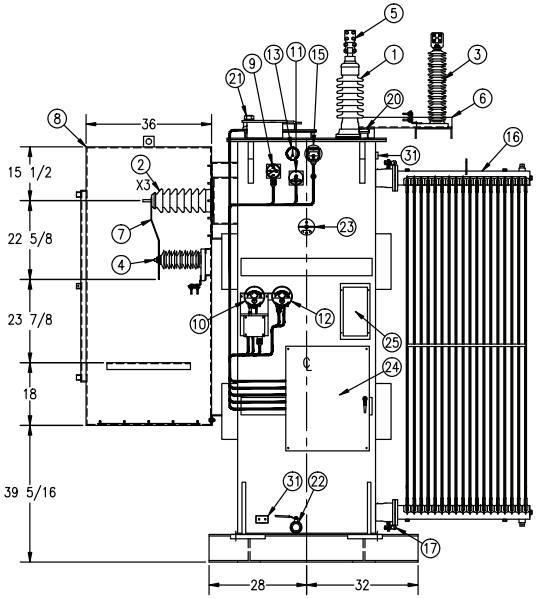


TOP VIEW

1 (3) HV BUSHINGS 50 KV 250 KV BIL 400 A. NTI #11230 c/w
1 1/2" – 12 TH'D 2 1/8" LG. (DRAW LEAD CONNECTION)
2 (4) LV BUSHINGS 34.5 KV 200 KV BIL 417 A. F.B.I #355107 c/w
5/8" – 18 TH'D STUD 2.5 LG. (BOTTOM CONNECTION)
3 (3) HV STATION CLASS LIGHTNING ARRESTERS 48 KV 39 MCOV COOPER #USAA048039A2645A11
4 (3) LV STATION CLASS LIGHTNING ARRESTERS 18 KV 15.3 MCOV COOPER #USAA018015A1445A11
5 (3) HV BUSHINGS CONNECTOR TAKES 1/0–1250 MCM CABLE
6 (1) LIGHTNING ARRESTOR MOUNTING BRACKET GALVANIZED
7 (3) LV BUS BARS SEE DRAWING #2538–083A
8 (1) LV BOX L 82" x W 36" x H 80" c/w HINGED PADLOCKING DOOR &
REMOVABLE ALUMINUM BOTTOM PLATE (TAMPER RESISTANT)
9 (1) MAGNETIC LIQUID LEVEL GAUGE c/w 2 CONTACTS QUALITROL #035–037–01 CS–42869
10 (1) WINDING TEMPERATURE GAUGE c/w 4 CONTACTS &
4–20mA ANALOG OUTPUT QUALITROL
11 (1) THERMAL PLATE QUALITROL #WTF–1030–1
12 (1) LIQUID TEMPERATURE GAUGE c/w 2 CONTACTS QUALITROL #104–354–01
13 (1) PRESSURE–VACUUM GAUGE QUALITROL #050–35E
14 (1) PRESSURE RELIEF DEVICE c/w 2 CONTACTS & SHROUD QUALITROL #208–008–02
15 (1) RAPID PRESSURE RISE RELAY c/w SEAL–IN–RELAY QUALITROL #910–010–33/909–200–01
16 (5) COOLING RADIATORS DETACHABLE
17 (10) COOLING RADIATORS SHUT OFF VALVES
18 (1) CT LEAD TERMINATING BOX
19 (1) CORE GROUND TERMINATING BOX
20 (1) 2" TOP FILTER PRESS CONNECTION, CAPPED S.S.
21 (1) 2" TOP FILTER PRESS S.S. BALL VALVE c/w PLUG
22 (1) 2" DRAIN S.S. BALL VALVE c/w 3/8" SAMPLER
23 (1) TAP CHANGER HANDLE c/w PADLOCKING PROVISION
24 (1) CONTROL BOX NEMA 4x (30" x 24" x 8") c/w
REMOVABLE ALUMINUM BOTTOM PLATE & 2 BREATHERS
25 (1) RATING PLATE STAINLESS STEEL SEE DWG 2538–020C
26 (4) TRANSFORMER LIFTING LUGS
27 (4) JACK STEPS
28 (1) BOLTED COVER
29 (4) COVER LIFTING LUGS
30 (1) HANDHOLE c/w BOLTED COVER
31 (3) S.S. GROUND PADS c/w 1/2" UNC TAPPED HOLES @ 1–3/4" CTRS.
32 (1) PROVISION FOR IMPACT RECORDER



ELEVATION 1



ELEVATION 2

APPROXIMATE WEIGHT		LB	KG
	CORE & COILS	24667	11189
	TANK & FITTINGS	13162	5970
MINERAL OIL	1292 GALS. 5873 L.	11110	5040
	TOTAL	48939	22199

SHIPPING WEIGHTS	LB	KG
PARTS REMOVED	1718	779
ASSEMBLED UNIT	47221	21420
TOTAL	48939	22199

PARTS REMOVED FOR SHIPPING
LV BOX, LIGHTNING ARRESTERS
& 90 GALS. MINERAL OIL

TANK INSIDE SIZE L 93" X W 39" X H 113"
FINISH EXTERIOR ASA 70 LIGHT GREY
ALL VALVES TO BE LOCKABLE

REV.	REMARKS	DRAWN BY	APPRO. BY	DATE:

Northern Transformer

PLOT 1=22	DRAWN BY: JOHN PAUL FALZON	DATE: JUL 31/13	REV. 0
JOB:	APPROVED BY: TOM WANG	DATE: JUL 31/13	S.O. NO. 13–2538

TITLE: OUTLINE
10000 KVA LIQUID FILLED TRANSFORMER ONAN
44000–25000Y/14434 V 3 PH 60 HZ 65°C

ASCENT SOLUTIONS INC
PROJECT: MARSH HILL SOLAR FARM

DRAWING NO. 2538–010C

Estimated Frequency Spectra for Transformers

Transformer - 480V/27.6kV/1MVA - ONAN

Average LpA	58.0	dBA	Based on NEMA TR1-1993 (R2000), Table 0-2, Immersed Power Transformers
Estimated surface area	23.9	m^2	Estimated based on Northern Transformer catalogue. Surface area outlined in IEEE C57.12.90
Estimated overall LwA	72	dBA	

Correction factors are in dB

Freq. (Hz)	31	63	125	250	500	1000	2000	4000	8000	Notes
C	-3.0	3.0	5.0	0.0	0.0	-6.0	-11.0	-16.0	-23.0	Malcom J. Crocker (Editor), Encyclopedia of Acoustics. John Wiley & Sons, Inc. New York, 1997. p.1050

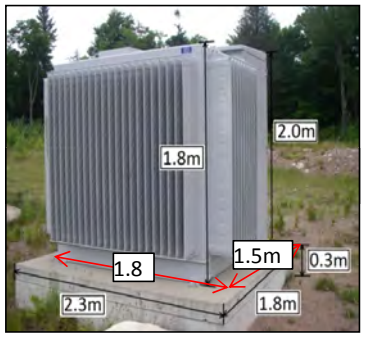
Sound Power Level calculated as Lw=Average LpA + 10*log(Estimated surface area) + C

Freq. (Hz)	31	63	125	250	500	1000	2000	4000	8000	Combined [dB]
C based [dB]	69	75	77	72	72	66	61	56	49	80.8

Resulting A-weighted sound power level

Freq. (Hz)	A-Weight	C1 based [dBA]
31	-39.4	29.4
63	-26.2	48.6
125	-16.1	60.7
250	-8.6	63.2
500	-3.2	68.6
1000	0.0	65.8
2000	1.2	62.0
4000	1.0	56.8
8000	-1.1	47.7
LwA [dBA]		72

Used in the study



Economical

- Savings in balance of system costs due to 1,000 V operating voltage
- Outdoor enclosure allows for direct field deployment
- Small footprint and light weight for easy shipping and installation

Efficient

- Highest efficiency in its power class
- Full nominal power at ambient temperatures up to 50 °C
- 10% additional power for continuous operation at ambient temperatures up to 25 °C

Flexible

- Configurable DC voltage range
- Integrated AC disconnect for NEC 2011 compliance
- Optional DC disconnects

Reliable

- Easy and safe installation and with large, separate connection area
- Powerful grid management functions (incl. Low Voltage Ride Through)
- Full UL1741 and IEEE 1547 compliance

SUNNY CENTRAL 500CP-US / 630CP-US / 720CP-US / 750CP-US / 800CP-US / 850CP-US / 900CP-US

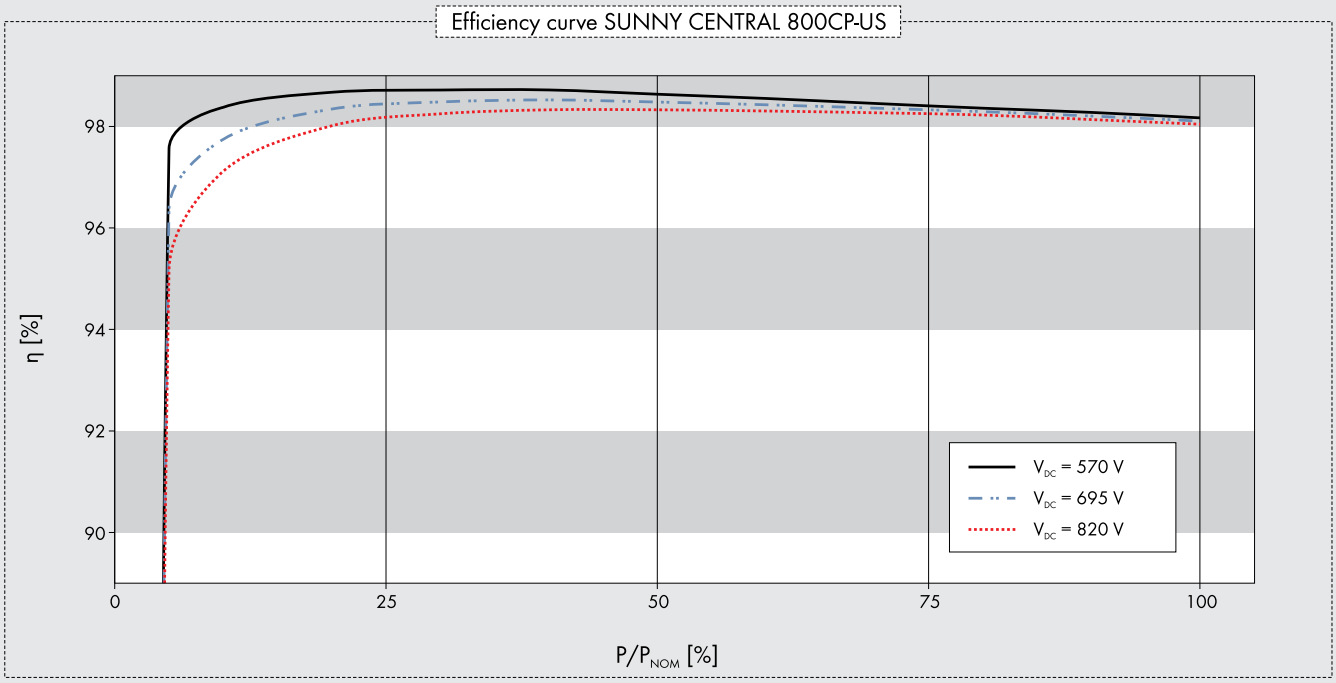
UL listed for commercial and utility-scale projects

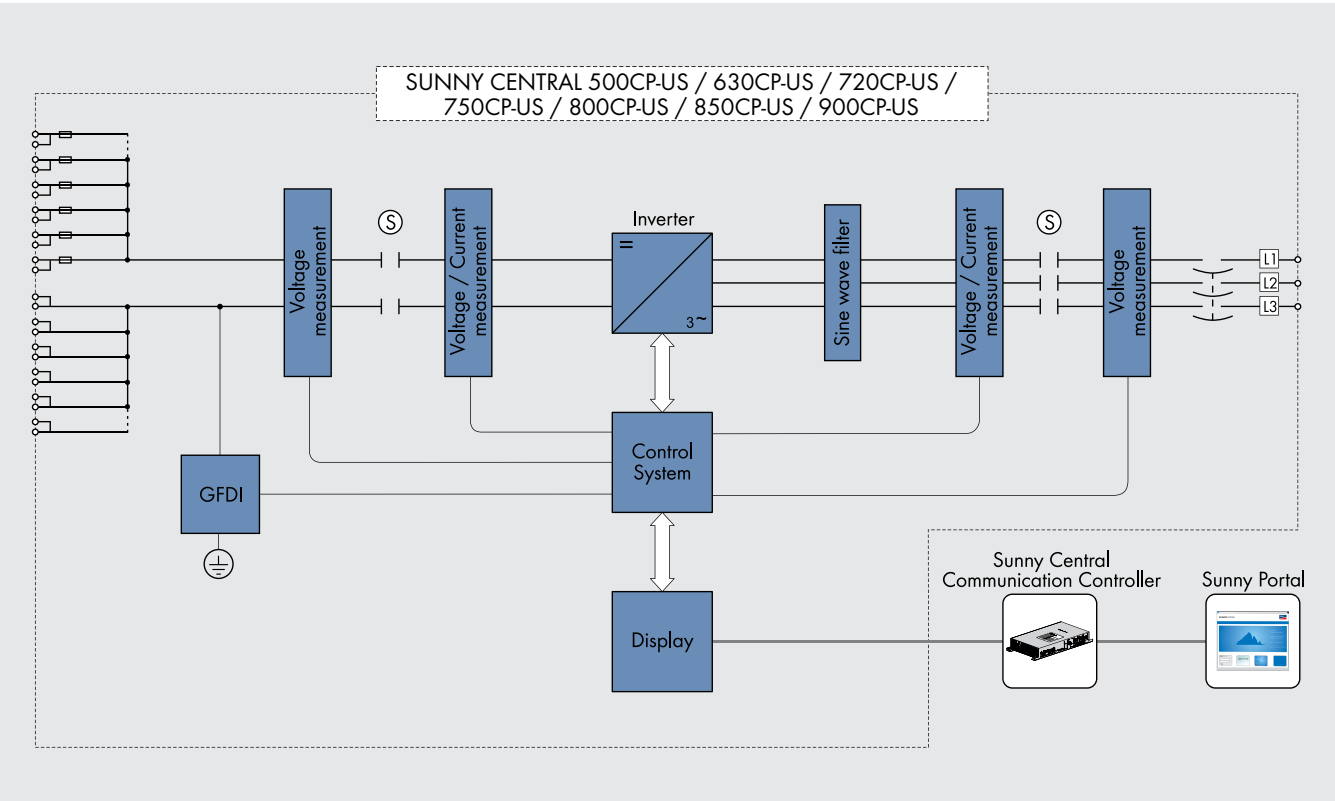
The Sunny Central CP-US series delivers outstanding performance. In combination with an external transformer, the Sunny Central CP-US can be connected to any utility grid or three-phase commercial service while directly providing grid management functions. The CP-US family is UL listed at 1,000 V DC and features an integrated AC disconnect in accordance with NEC 2011 requirements. Both the outdoor enclosure with the OptiCool™ cooling concept and the separate connection area ensures simple installation while maximizing returns. With a peak efficiency of 98.7 percent, it outperforms all other inverters in its class. The Sunny Central CP-US can also be integrated with the Power Plant Controller as well as the Medium-voltage Power Platform for utility-scale applications.

Technical data	Sunny Central 500CP-US	Sunny Central 630CP-US	Sunny Central 720CP-US
Input (DC)			
Max. DC power (@ cos φ = 1)	560 kW	713 kW	808 kW
Max. input voltage [1]	1000 V	1000 V	1000 V
MPP voltage range (@ 25 °C / @ 50 °C at 60 Hz)	430 V – 820 V / 430 V – 820 V [1] [2]	500 V – 820 V / 500 V – 820 V [1] [2]	525 V – 820 V / 525 V – 820 V [1] [2]
Rated input voltage	430 V	500 V	525 V
Max. input current	1250 A	1350 A	1600 A
Min. input voltage / V_{MPP_min} at $I_{MPP} < I_{DCmax}$	429 V	498 V	515 V
Number of independent MPP inputs	1	1	1
Number of DC inputs: busbar / fuses	Busbar / 6 – 9	Busbar / 6 – 9	Busbar / 6 – 9
Output (AC)			
Rated power (@ 25 °C) / nominal AC power (@ 50 °C)	550 kVA / 500 kVA	700 kVA / 630 kVA	792 kVA / 720 kVA
Rated grid voltage / nominal AC voltage range	270 V / 243 V – 297 V	315 V / 284 V – 347 V	324 V / 292 V – 356 V
AC power frequency / range	60 Hz / 47 Hz ... 63 Hz	60 Hz / 47 Hz ... 63 Hz	60 Hz / 47 Hz ... 63 Hz
Rated power frequency / rated grid voltage	60 Hz / 270 V	60 Hz / 315 V	60 Hz / 324 V
Max. output current	1176 A	1283 A	1411 A
Max. total harmonic factor	< 5 %	< 5 %	< 5 %
Power factor at rated power / displacement power factor adjustable	1 / 0.8 leading ... 0.8 lagging		
Feed-in phases / connection phases	3 / 3	3 / 3	3 / 3
Efficiency [3]			
Max. efficiency / European weighted efficiency / CEC efficiency	98.5 % / 98.3 % / 98.0 %	98.5 % / 98.3 % / 98.0 %	98.6 % / 98.4 % / 98.0 %
Protective devices			
DC disconnect device	DC contactor		
AC disconnect device	AC circuit breaker		
DC overvoltage protection	Surge Arrester Type II		
Grid monitoring	●	●	●
Ground-fault monitoring	○	○	○
Advanced Ground Fault Monitoring / Remote GFDI Switch	○	○	○
Ungrounded PV array [4]	○	○	○
Lightning protection	Lightning protection level III	Lightning protection level III	Lightning protection level III
Insulation monitoring	○	○	○
Surge arresters for auxiliary power supply	●	●	●
Protection class / overvoltage category	I / IV	I / IV	I / IV
General data			
Dimensions (W / H / D)	2562 / 2272 / 956 mm (101 / 90 / 38 inches)		
Weight	< 1870 kg (4123 lb)	< 1870 kg (4123 lb)	< 1870 kg (4123 lb)
Operating temperature range	-25 °C ... +50 °C / -13 °F ... +122 °F	-25 °C ... +50 °C / -13 °F ... +122 °F	-25 °C ... +50 °C / -13 °F ... +122 °F
Noise emission [5]	60 db(A)	60 db(A)	60 db(A)
Max. self-consumption (in operation) [7] / self-consumption (at night) [6]	< 1800 W / < 150 W	< 1800 W / < 150 W	< 1800 W / < 150 W
Auxiliary power supply via external 208 V / external 400 V / external 480 V / integrated green power	○ / ○ / ○ / ○	○ / ○ / ○ / ○	○ / ○ / ○ / ○
Cooling concept	OptiCool	OptiCool	OptiCool
Degree of protection: electronics / connection area	NEMA 3R / NEMA 3R	NEMA 3R / NEMA 3R	NEMA 3R / NEMA 3R
Degree of protection	4C2, 4S2	4C2, 4S2	4C2, 4S2
Application	In unprotected outdoor environments	In unprotected outdoor environments	In unprotected outdoor environments
Max. permissible value for relative humidity (non-condensing)	15 % ... 95 %	15 % ... 95 %	15 % ... 95 %
Max. operating altitude above mean sea level	2000 m	2000 m	2000 m
Fresh-air consumption (inverter)	3000 m³/h	3000 m³/h	3000 m³/h
Features			
DC connection	Ring terminal lug	Ring terminal lug	Ring terminal lug
AC connection	Ring terminal lug	Ring terminal lug	Ring terminal lug
HMI touchscreen	●	●	●
Communication / protocols	Ethernet (optical fiber optional), Modbus	Ethernet (optical fiber optional), Modbus	Ethernet (optical fiber optional), Modbus
Communication with Sunny String-Monitor	RS485	RS485	RS485
SC-COM	●	●	●
Color of enclosure, door, base, roof	RAL 9016 / 9016 / 7004 / 7004		
Warranty: 5 / 10 / 15 / 20 / 25 years	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
Certificates and approvals (more available on request)	EMC conformity for radiated emissions according to FCC Part 15 Class A, UL 1741, UL 1998, IEEE 1547		
● Standard equipment ○ Optional features – Not available			
*Preliminary information, last updated December 2013			
Type designation	SC 500CP-US-10	SC 630CP-US-10	SC 720CP-US-10

Sunny Central 750CP-US	Sunny Central 800CP-US	Sunny Central 850CP-US*	Sunny Central 900CP-US*
853 kW	898 kW	954 kW	1010 kW
1000 V	1000 V	1000 V	1000 V
545 V – 820 V / 545 V – 820 V [1] [2]	570 V – 820 V / 570 V – 820 V [1] [2]	620 V – 820 V / 620 V – 820 V [1] [2]	655 V – 820 V / 655 V – 820 V [1] [2]
545 V	570 V	620 V	655 V
1600 A	1600 A	1600 A	1600 A
545 V	568 V	568 V	568 V
1	1	1	1
Busbar / 6 – 9	Busbar / 6 – 9	Busbar / 6 – 9	Busbar / 6 – 9
825 kVA / 750 kVA	880 kVA / 800 kVA	935 kVA / 850 kVA	990 kVA / 900 kVA
342 V / 308 V – 376 V	360 V / 324 V – 396 V	386 V / 347 V – 425 V	405 V / 364 V – 446 V
60 Hz / 47 Hz ... 63 Hz	60 Hz / 47 Hz ... 63 Hz	60 Hz / 47 Hz ... 63 Hz	60 Hz / 47 Hz ... 63 Hz
60 Hz / 342 V	60 Hz / 360 V	60 Hz / 386 V	60 Hz / 405 V
1411 A	1411 A	1411 A	1411 A
< 5 %	< 5 %	< 5 %	< 5 %
1 / 0.8 leading ... 0.8 lagging			
3 / 3	3 / 3	3 / 3	3 / 3
98.6 % / 98.4 % / 98.0 %	98.7 % / 98.4 % / 98.5 %	98.6 % / 98.4 % / 98.5 %	98.6 % / 98.4 % / 98.5 %
DC contactor			
AC circuit breaker			
Surge Arrester Type II			
●	●	●	●
○	○	○	○
○	○	○	○
○	○	○	○
Lightning protection level III	Lightning protection level III	Lightning protection level III	Lightning protection level III
○	○	○	○
●	●	●	●
I / IV	I / IV	I / IV	I / IV
2562 / 2272 / 956 mm (101 / 90 / 38 inches)			
< 1870 kg (4123 lb)	< 1870 kg (4123 lb)	< 1870 kg (4123 lb)	< 1870 kg (4123 lb)
-25 °C ... +50 °C / -13 °F ... +122 °F	-25 °C ... +50 °C / -13 °F ... +122 °F	-25 °C ... +50 °C / -13 °F ... +122 °F	-25 °C ... +50 °C / -13 °F ... +122 °F
60 db(A)	63 db(A)	63 db(A)	63 db(A)
< 1800 W / < 150 W	< 1800 W / < 150 W	< 1800 W / < 150 W	< 1800 W / < 150 W
○ / ○ / ○ / ○	○ / ○ / ○ / ○	○ / ○ / ○ / ○	○ / ○ / ○ / ○
OptiCool	OptiCool	OptiCool	OptiCool
NEMA 3R / NEMA 3R	NEMA 3R / NEMA 3R	NEMA 3R / NEMA 3R	NEMA 3R / NEMA 3R
4C2, 4S2	4C2, 4S2	4C2, 4S2	4C2, 4S2
In unprotected outdoor environments	In unprotected outdoor environments	In unprotected outdoor environments	In unprotected outdoor environments
15 % ... 95 %	15 % ... 95 %	15 % ... 95 %	15 % ... 95 %
2000 m	2000 m	2000 m	2000 m
3000 m³/h	3000 m³/h	3000 m³/h	3000 m³/h
Ring terminal lug	Ring terminal lug	Ring terminal lug	Ring terminal lug
Ring terminal lug	Ring terminal lug	Ring terminal lug	Ring terminal lug
●	●	●	●
Ethernet (optical fiber optional), Modbus	Ethernet (optical fiber optional), Modbus	Ethernet (optical fiber optional), Modbus	Ethernet (optical fiber optional), Modbus
RS485	RS485	RS485	RS485
●	●	●	●
RAL 9016 / 9016 / 7004 / 7004			
● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
EMC conformity for radiated emissions according to FCC Part 15 Class A, UL 1741, UL 1998, IEEE 1547			
SC 750CP-US-10	SC 800CP-US-10	SC 850CP-US-10	SC 900CP-US-10

[1] At 1.00 $U_{AC, nom}$ and cos φ = 1
[2] The inverter will track MPP to 850V before self-protecting
[3] Measured efficiency includes all auxiliary power
[4] Included in the inverter's UL listing
[5] Sound pressure level at a distance of 10 m
[6] Self-consumption at rated operation
[7] By external 400 V auxiliary power supply





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SMA America, LLC

Acoustic Environmental Test

SC 800CP-US central inverter

(Extract of Test report SC800CP-US-91:LE1613)

1 Overview

Project title:	SC800CP-US
Type of test / thresholds and requirements:	Sound level measurement according to DIN EN ISO 3744:2011-02 and DIN EN ISO 9614-2:2010-11 of sinusoidal, irregularly shaped, transient signals. Classification of ambient conditions in compliance with the German Noise Control Guidelines (TA Lärm). (according to Section 2)
Type of device:	e.g. solar central inverter for large-scale PV power plants
Type designation:	SC800CP-US
Test specification:	Level of emissions according to the German Noise Control Guidelines and acoustic power

2 Results

The EN 3744:04/2005 and German Noise Control Guidelines form the testing specification for the thresholds and requirements	Requirement		Results [dBA]/ without fan (distance 1m)	Results [dBA]/ with fan (distance 1m)
	Standard (Germany)	**SMA**		
EN 3744:2011-02 typical value; LAeq averaged [1)]	-	-	-	78,74
§48 of the German Federal Emission Control ACT (BImSchG): 09-2002 German Noise Control Guidelines; L_{pa} [2)]	-	-	-	77,81
EN 9614-2 sound power L_{WA} [3)]	-	-	-	92,30
Sound pressure level in 10m L_{xpA} [4)]	-	-	-	64,31
Sound pressure level in 50m L_{xpA} [4)]	-	-	-	50,32
Overall result (if applicable)			*Standard requirments: - passed	

* Dependent on the local conditions at the mounting location (distance of 10m standard)

3 Operating States

The following states and configurations have been defined as operating conditions:

- Operation of the inverter.
- Operating conditions: UDC =820 V; 800 kW
- The device fans must be running.
- The unit under test must have reached its operating temperature.
- The unit under test must have reached an operating temperature of 25°C.

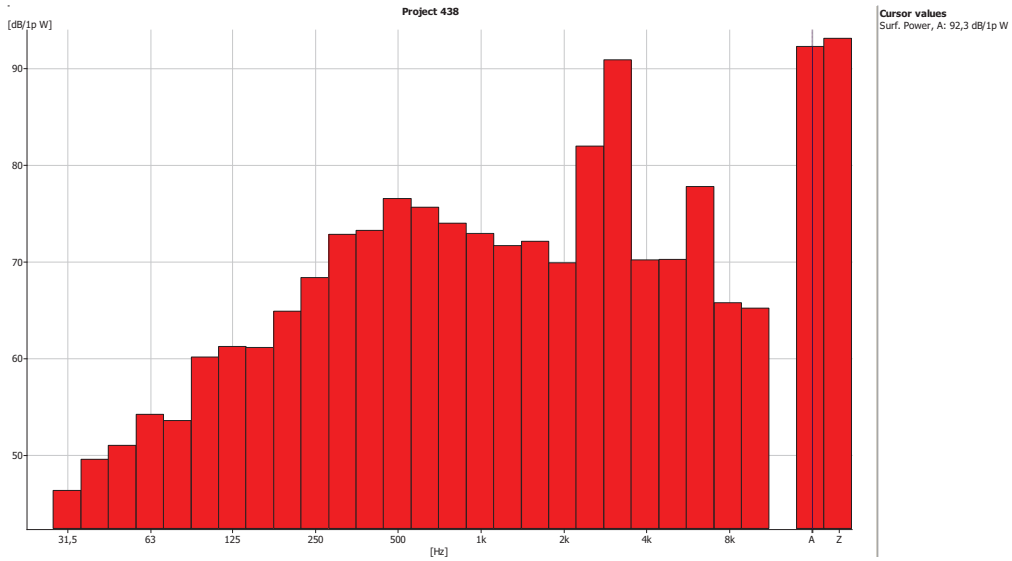
4 Calculating the Acoustic Power

L_{pA} =	average sound pressure level on the measurement surface [dB_A] *	77.81
S =	overall measurement surface [m^2]	28.09
S_0 =	1 [m^2]	

* This specified spatially/temporally averaged sound pressure level was determined using the calcu-lated acoustic power level.
$L_{PA} = L_{WA} - 10\log (S/S_0)$

Acoustic power of L_{WA}= 92,3 dBA/W results for the measurement.

Acoustic Power Levels of the Third Octave Band Frequencies According to EN ISO 9614-2



A-rated sound power	=	92.3 $dB_{A/W}$
Z-rated sound power	=	93.1 $dB_{A/W}$

A-rated acoustic power	–	based on physiologic human hearing
Z-rated acoustic power	–	technically linear measured value

5 Overview of the Acoustic Power

Third octave band center frequency [Hz]	Acoustic power- level LwA [dBA/pW] 880 kW	Acoustic power- level LwZ [dBA/pW] 880 kW
25 Hz	42,33	–
31.5 Hz	46,34	–
40 Hz	49,56	–
50 Hz	51	–
63 Hz	54,21	–
80 Hz	53,57	–
100 Hz	60,14	–
125 Hz	61,23	–
160 Hz	61,13	–
200 Hz	64,88	–
250 Hz	68,36	–
315 Hz	72,83	–
400 Hz	73,24	–
500 Hz	76,54	–
630 Hz	75,64	–
800 Hz	73,99	–
1 kHz	72,93	–
1.25 kHz	71,67	–
1.6 kHz	72,11	–
2 kHz	69,89	–
2.5 kHz	81,96	–
3.15 kHz	90,89	–
4 kHz	70,19	–
5 kHz	70,24	–
6.3 kHz	77,78	–
8 kHz	65,76	–
10 kHz	65,2	–
Acoustic power above the surface	A-rated	Z-rated
	92,3	93.1

6 Deriving the Emission Sound Pressure Level at a Distance

The calculated acoustic power can be used to derive an A-rated sound pressure level L_{xpA} for undirected sources at any distance x.

$$LxpA = LwA + Ko - 10 \cdot \log\left(4 \cdot \pi \cdot \frac{X^2}{So}\right)$$

K_0 = solid angle index on the floor 3 [dB]
X = distance from the source [m]
S_0 = 1 m

Device	Distance X [m]	Sound pressure level LxpA [dBA] without fan	Sound pressure level LxpA [dBA] with fan
SC800CP-US	10	–	64,30
	50	–	50.33

7 Appendix - Calculations

deriving sound pressure level at a distance

LxpA = LWA + K0 - 10log (4*PI*(x²/S0))

LWA 92,3dB
K0 3dB
x 10m
S0 1m

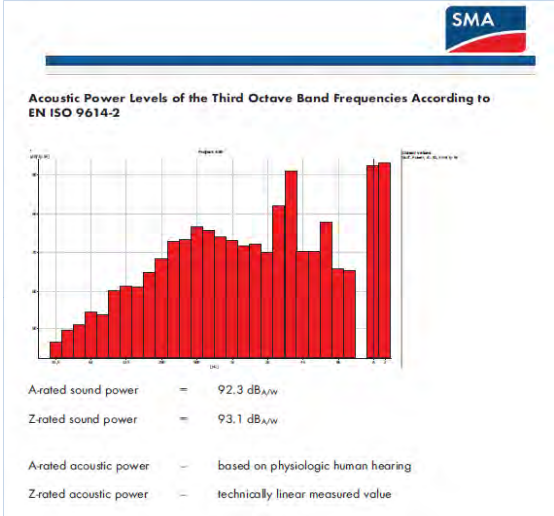
LxpA 64,31dBA

Octave Band Spectrum Calculation

SMA-SC800CP

Freq. (Hz)	LwA (dBA)
25	42.33
32	46.34
40	49.56
50	51.00
63	54.21
80	53.57
100	60.14
125	61.23
160	61.13
200	64.88
250	68.36
315	72.83
400	73.24
500	76.54
630	75.64
800	73.99
1000	72.93
1250	71.67
1600	72.11
2000	69.89
2500	81.96
3150	90.89
4000	70.19
5000	70.24
6300	77.78
8000	65.76
10000	65.20
Overall	**92.3**

Freq. (Hz)	LwA (dBA)	A-Wt (dB)	Lw (dB)	Lw {2 Units}
31	51.8	-39.4	91.2	94.2
63	57.9	-26.2	84.1	87.1
125	65.6	-16.1	81.7	84.7
250	74.6	-8.6	83.2	86.2
500	80.1	-3.2	83.3	86.3
1000	77.7	0.0	77.7	80.7
2000	82.6	1.2	81.4	84.4
4000	91.0	1.0	90.0	93.0
8000	78.3	-1.1	79.4	82.4
Overall	**92.3**		**95.3**	**98.3**



** 1/3 Octave Band Data Provided in May 05, 2013 SMA Solar Technologies - Acoustic Environmental Test SC 800CP-US

Appendix C
Sound Pressure Levels for Points of Reception, Noise Map from CADNA-A

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Table C.1 Complete Set of Points of Reception Incorporated in the CADNA-A Model, including those within 1-km Envelope for the Newboro 1

ID	Description	Coordinates		
		X	Y	H
R1	Existing	399849	4946144	4.5
R2	Existing	399516	4946521	4.5
R3	Existing	399466	4946709	4.5
R4	Existing	399219	4946756	4.5
R5	Existing	399179	4946942	4.5
R6	Existing	398818	4947350	4.5
R7	Existing	398555	4947400	4.5
R8	Existing	398512	4947621	4.5
R9	Existing	398579	4947746	4.5
R10	Existing	398262	4948014	4.5
R11	Existing	398188	4948154	4.5
R12	Existing	398306	4948249	4.5
R13	Existing	398120	4948237	4.5
R14	Existing	398215	4948322	4.5
R15	Existing	398138	4948380	4.5
R16	Existing	398024	4948323	4.5
R17	Existing	398484	4948936	4.5
R18	Existing	397875	4948370	4.5
R19	Existing	397693	4947139	4.5
R20	Existing	398079	4947679	4.5
R21	Existing	398399	4947618	4.5
R22	Existing	398748	4948033	4.5
R23	Existing	398990	4948242	4.5
R24	Existing	399718	4948600	4.5
R25	Existing	399818	4948837	4.5
R26	Existing	400021	4948886	4.5
R27	Existing	400053	4949022	4.5
R28	Existing	399033	4949394	4.5
V1	Vacant	398098	4948605	4.5
V2	Vacant	398485	4948612	4.5
V3	Vacant	398928	4949104	4.5

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ID	Description	Coordinates		
		X	Y	H
V4	Vacant	399042	4949120	4.5
V5	Vacant	400292	4949073	4.5
V6	Vacant	399334	4946546	4.5
V7	Vacant	399947	4946026	4.5
V8	Vacant	399694	4946350	4.5
V9	Vacant	398363	4947932	4.5
V10	Vacant	399675	4948793	4.5
V11	Vacant	399575	4949374	4.5
V12	Vacant	399894	4948755	4.5
V13	Vacant	400918	4948298	4.5
V14	Vacant	399725	4946126	4.5
V15	Vacant	401308	4947451	4.5
V16	Vacant	398963	4949272	4.5
V17	Vacant	399503	4948506	4.5

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397000 398000 399000 400000 401000 402000

4949000 4948000 4947000 4946000

Big Rideau Lake

R48 RD
R48A RD
R49 RD
BIG RIDEAU LK RD
MCCANN RD
LITTLE RIDEAU LK RD
NARROWS LOCK RD
COUNTY RD 42
HWY 15

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28

V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17

Sub

Cluster 1
Clusterr 2 Cluster 3
Cluster 4
Cluster 5
Cluster 6
Cluster 7 Cluster 8
Cluster 9 Cluster 10

Notes:
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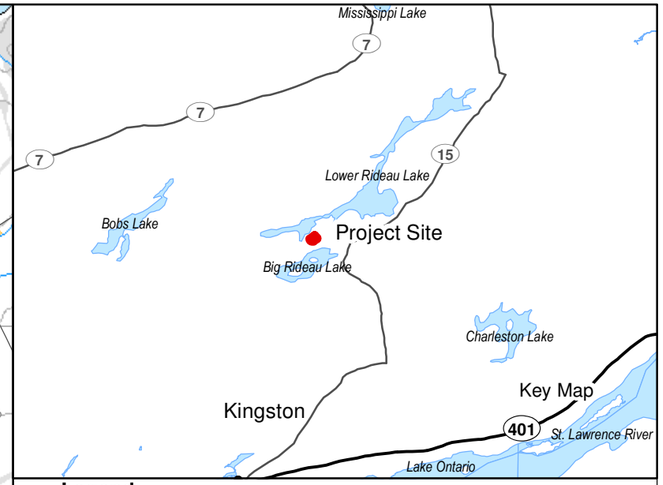
2. Spatial referencing UTM NAD 83.

0 200 400 800 Metres
1:18,000
NORTH



Legend

Cluster 1
- Inverter Cluster
- Substation Transformer
- Noise Receptor - Existing
- Noise Rceptor - Vacant
- Representative Noise Receptor
- Road
- Topographic Contour (5m interval)
- Watercourse
- Newboro 1 Project Site
- McCann Project Site (Northland)
- Rideau Lakes Project Site (Northland)
- Parcel
- 1000 m from Project Site
- Waterbody
- Wetland
- Wooded Area

Sound Pressure (dBA)

40.0 - 41.0 | 41.1 - 44.0 | 44.1 - 47.0 | 47.1 - 49.0 | 49.1 - 52.0 | 52.1 - 72.0

Figure C.1
SunEdison Canada
Newboro 1 Solar Project
Noise Contours at 4.5 m

HATCH

399000

400000

4948000

4947000

MCCANN RD

NARROWS LOCK RD

Cluster 1
Cluster 2
Cluster 3
Cluster 4
Cluster 5
Cluster 6
Cluster 7
Cluster 8
Cluster 9
Cluster 10

R21 R8 R23 R22 R9 R7 R6 R5 R4 R3 V9 V10 Sub

130 135 140

Notes:
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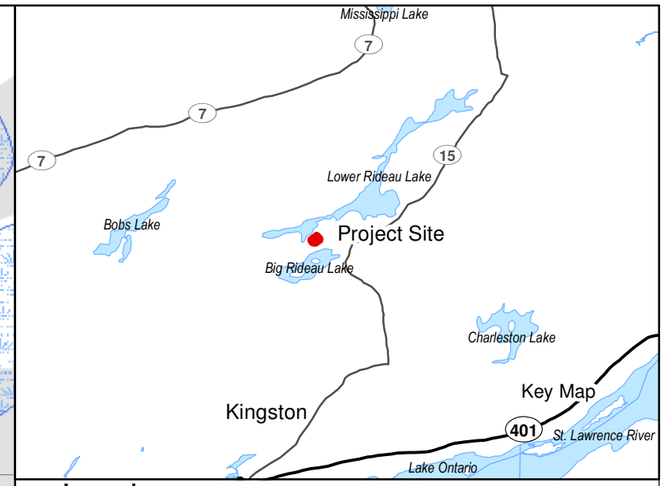
2. Spatial referencing UTM NAD 83.

0 75 150 300 Metres

1:7,000

NORTH



Legend

Cluster 1
Inverter Cluster
Sub Substation Transformer
Noise Receptor - Existing
Noise Rceptor - Vacant
Representative Noise Receptor
Road
Topographic Contour (5m interval)
Watercourse
Newboro 1 Project Site
McCann Project Site (Northland)
Rideau Lakes Project Site (Northland)
30 m from Noise Receptor
Parcel
Waterbody
Wetland
Wooded Area

Sound Pressure (dBA)

40.0 - 41.0
41.1 - 44.0
44.1 - 47.0
47.1 - 49.0
49.1 - 52.0
52.1 - 74.0

Figure C.2
SunEdison Canada
Newboro 1 Solar Project
Noise Contours at 1.5 m

HATCH

Path: P:\SPIRIT\341487\SPECIALIST_APPS\GIS\Newboro_Noise_C2_1_5mcontour.mxd Date Saved: 8/12/2014 10:49:54 AM

Appendix D
CADNA-A Sample Calculations

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Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	3000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receiver
Name: R05
ID: R05
X: 399179.00
Y: 4946942.00
Z: 4.50

Point Source, ISO 9613, Name: "Cr_Inv_5", ID: "Cr_Inv_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396401.27	4946898.12	2.60	0	63	68.1	-88.0	0.0	0.0	79.9	0.3	-5.8	0.0	0.0	0.0	0.0	-0.0	-6.3	-88.0
2	396401.27	4946898.12	2.60	0	125	78.9	-88.0	0.0	0.0	79.9	1.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.3	-88.0
3	396401.27	4946898.12	2.60	0	250	85.5	-88.0	0.0	0.0	79.9	2.9	2.5	0.0	0.0	0.0	0.0	-0.0	0.2	-88.0
4	396401.27	4946898.12	2.60	0	500	87.3	-88.0	0.0	0.0	79.9	5.4	-1.3	0.0	0.0	0.0	0.0	-0.0	3.4	-88.0
5	396401.27	4946898.12	2.60	0	1000	83.7	-88.0	0.0	0.0	79.9	10.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-4.6	-88.0
6	396401.27	4946898.12	2.60	0	2000	79.1	-88.0	0.0	0.0	79.9	26.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-25.9	-88.0
7	396401.27	4946898.12	2.60	0	4000	70.0	-88.0	0.0	0.0	79.9	91.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-99.2	-88.0
8	396401.27	4946898.12	2.60	0	8000	77.7	-88.0	0.0	0.0	79.9	324.7	-1.7	0.0	0.0	0.0	0.0	-0.0	-325.2	-88.0

Point Source, ISO 9613, Name: "Cr_Inv_6", ID: "Cr_Inv_6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396404.76	4947027.79	2.60	0	63	68.1	-88.0	0.0	0.0	79.9	0.3	-5.8	0.0	0.0	0.0	0.0	-0.0	-6.3	-88.0
2	396404.76	4947027.79	2.60	0	125	78.9	-88.0	0.0	0.0	79.9	1.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.3	-88.0
3	396404.76	4947027.79	2.60	0	250	85.5	-88.0	0.0	0.0	79.9	2.9	2.5	0.0	0.0	0.0	0.0	-0.0	0.2	-88.0
4	396404.76	4947027.79	2.60	0	500	87.3	-88.0	0.0	0.0	79.9	5.3	-1.3	0.0	0.0	0.0	0.0	-0.0	3.4	-88.0
5	396404.76	4947027.79	2.60	0	1000	83.7	-88.0	0.0	0.0	79.9	10.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-4.6	-88.0
6	396404.76	4947027.79	2.60	0	2000	79.1	-88.0	0.0	0.0	79.9	26.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-25.9	-88.0
7	396404.76	4947027.79	2.60	0	4000	70.0	-88.0	0.0	0.0	79.9	91.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-99.1	-88.0
8	396404.76	4947027.79	2.60	0	8000	77.7	-88.0	0.0	0.0	79.9	324.4	-1.7	0.0	0.0	0.0	0.0	-0.0	-324.9	-88.0

Point Source, ISO 9613, Name: "Cr_Inv_7", ID: "Cr_Inv_7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396390.12	4947138.77	2.60	0	63	68.1	-88.0	0.0	0.0	79.9	0.3	-5.8	0.0	0.0	0.0	0.0	-0.0	-6.4	-88.0
2	396390.12	4947138.77	2.60	0	125	78.9	-88.0	0.0	0.0	79.9	1.2	4.2	0.0	0.0	0.0	0.0	-0.0	-6.3	-88.0
3	396390.12	4947138.77	2.60	0	250	85.5	-88.0	0.0	0.0	79.9	2.9	2.5	0.0	0.0	0.0	0.0	-0.0	0.1	-88.0
4	396390.12	4947138.77	2.60	0	500	87.3	-88.0	0.0	0.0	79.9	5.4	-1.3	0.0	0.0	0.0	0.0	-0.0	3.3	-88.0
5	396390.12	4947138.77	2.60	0	1000	83.7	-88.0	0.0	0.0	79.9	10.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-4.7	-88.0
6	396390.12	4947138.77	2.60	0	2000	79.1	-88.0	0.0	0.0	79.9	27.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-26.1	-88.0
7	396390.12	4947138.77	2.60	0	4000	70.0	-88.0	0.0	0.0	79.9	91.6	-1.7	0.0	0.0	0.0	0.0	-0.0	-99.8	-88.0
8	396390.12	4947138.77	2.60	0	8000	77.7	-88.0	0.0	0.0	79.9	326.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-327.3	-88.0

Point Source, ISO 9613, Name: "Cr_Sub", ID: "Cr_Sub"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396603.39	4947195.87	3.50	0	32	48.0	48.0	0.0	0.0	79.3	0.1	-5.7	0.0	0.0	0.0	0.0	-0.0	-25.6	-25.6
2	396603.39	4947195.87	3.50	0	63	67.2	67.2	0.0	0.0	79.3	0.3	-5.7	0.0	0.0	0.0	0.0	-0.0	-6.6	-6.6
3	396603.39	4947195.87	3.50	0	125	79.3	79.3	0.0	0.0	79.3	1.1	3.9	0.0	0.0	0.0	0.0	-0.0	-4.9	-4.9
4	396603.39	4947195.87	3.50	0	250	81.8	81.8	0.0	0.0	79.3	2.7	1.3	0.0	0.0	0.0	0.0	-0.0	-1.4	-1.4
5	396603.39	4947195.87	3.50	0	500	87.2	87.2	0.0	0.0	79.3	5.0	-1.7	0.0	0.0	0.0	0.0	-0.0	4.6	4.6
6	396603.39	4947195.87	3.50	0	1000	84.4	84.4	0.0	0.0	79.3	9.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-2.6	-2.6
7	396603.39	4947195.87	3.50	0	2000	80.6	80.6	0.0	0.0	79.3	25.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-21.9	-21.9
8	396603.39	4947195.87	3.50	0	4000	75.4	75.4	0.0	0.0	79.3	84.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-87.0	-87.0
9	396603.39	4947195.87	3.50	0	8000	66.3	66.3	0.0	0.0	79.3	302.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-313.7	-313.7

Point Source, ISO 9613, Name: "Cr_Transf_5", ID: "Cr_Transf_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396396.27	4946898.62	2.58	0	32	37.3	37.3	0.0	0.0	79.9	0.1	-5.8	0.0	0.0	0.0	0.0	-0.0	-36.9	-36.9
2	396396.27	4946898.62	2.58	0	63	56.5	56.5	0.0	0.0	79.9	0.3	-5.8	0.0	0.0	0.0	0.0	-0.0	-18.0	-18.0
3	396396.27	4946898.62	2.58	0	125	68.6	68.6	0.0	0.0	79.9	1.1	4.2	0.0	0.0	0.0	0.0	-0.0	-16.6	-16.6
4	396396.27	4946898.62	2.58	0	250	71.1	71.1	0.0	0.0	79.9	2.9	2.5	0.0	0.0	0.0	0.0	-0.0	-14.2	-14.2

Point Source, ISO 9613, Name: "Cr_Transf_5", ID: "Cr_Transf_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
5	396396.27	4946898.62	2.58	0	500	76.5	76.5	0.0	0.0	79.9	5.4	-1.3	0.0	0.0	0.0	0.0	-0.0	-7.5	-7.5
6	396396.27	4946898.62	2.58	0	1000	73.7	73.7	0.0	0.0	79.9	10.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-14.7	-14.7
7	396396.27	4946898.62	2.58	0	2000	69.9	69.9	0.0	0.0	79.9	26.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-35.1	-35.1
8	396396.27	4946898.62	2.58	0	4000	64.7	64.7	0.0	0.0	79.9	91.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-104.7	-104.7
9	396396.27	4946898.62	2.58	0	8000	55.6	55.6	0.0	0.0	79.9	325.3	-1.7	0.0	0.0	0.0	0.0	-0.0	-347.9	-347.9

Point Source, ISO 9613, Name: "Cr_Transf_6", ID: "Cr_Transf_6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396409.76	4947027.29	2.58	0	32	37.3	37.3	0.0	0.0	79.8	0.1	-5.8	0.0	0.0	0.0	0.0	-0.0	-36.9	-36.9
2	396409.76	4947027.29	2.58	0	63	56.5	56.5	0.0	0.0	79.8	0.3	-5.8	0.0	0.0	0.0	0.0	-0.0	-17.9	-17.9
3	396409.76	4947027.29	2.58	0	125	68.6	68.6	0.0	0.0	79.8	1.1	4.2	0.0	0.0	0.0	0.0	-0.0	-16.6	-16.6
4	396409.76	4947027.29	2.58	0	250	71.1	71.1	0.0	0.0	79.8	2.9	2.5	0.0	0.0	0.0	0.0	-0.0	-14.2	-14.2
5	396409.76	4947027.29	2.58	0	500	76.5	76.5	0.0	0.0	79.8	5.3	-1.3	0.0	0.0	0.0	0.0	-0.0	-7.4	-7.4
6	396409.76	4947027.29	2.58	0	1000	73.7	73.7	0.0	0.0	79.8	10.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-14.6	-14.6
7	396409.76	4947027.29	2.58	0	2000	69.9	69.9	0.0	0.0	79.8	26.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-35.0	-35.0
8	396409.76	4947027.29	2.58	0	4000	64.7	64.7	0.0	0.0	79.8	90.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-104.2	-104.2
9	396409.76	4947027.29	2.58	0	8000	55.6	55.6	0.0	0.0	79.8	323.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-346.4	-346.4

Point Source, ISO 9613, Name: "Cr_Transf_7", ID: "Cr_Transf_7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	396395.12	4947138.27	2.58	0	32	37.3	37.3	0.0	0.0	79.9	0.1	-5.8	0.0	0.0	0.0	0.0	-0.0	-36.9	-36.9
2	396395.12	4947138.27	2.58	0	63	56.5	56.5	0.0	0.0	79.9	0.3	-5.8	0.0	0.0	0.0	0.0	-0.0	-18.0	-18.0
3	396395.12	4947138.27	2.58	0	125	68.6	68.6	0.0	0.0	79.9	1.2	4.2	0.0	0.0	0.0	0.0	-0.0	-16.6	-16.6
4	396395.12	4947138.27	2.58	0	250	71.1	71.1	0.0	0.0	79.9	2.9	2.5	0.0	0.0	0.0	0.0	-0.0	-14.3	-14.3
5	396395.12	4947138.27	2.58	0	500	76.5	76.5	0.0	0.0	79.9	5.4	-1.3	0.0	0.0	0.0	0.0	-0.0	-7.5	-7.5
6	396395.12	4947138.27	2.58	0	1000	73.7	73.7	0.0	0.0	79.9	10.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-14.7	-14.7
7	396395.12	4947138.27	2.58	0	2000	69.9	69.9	0.0	0.0	79.9	27.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-35.3	-35.3
8	396395.12	4947138.27	2.58	0	4000	64.7	64.7	0.0	0.0	79.9	91.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-104.9	-104.9
9	396395.12	4947138.27	2.58	0	8000	55.6	55.6	0.0	0.0	79.9	326.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-348.8	-348.8

Point Source, ISO 9613, Name: "Mc_Inv_1", ID: "Mc_Inv_1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398804.60	4948422.60	2.60	0	63	68.1	-88.0	0.0	0.0	74.7	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-1.2	-88.0
2	398804.60	4948422.60	2.60	0	125	78.9	-88.0	0.0	0.0	74.7	0.6	4.2	0.0	0.0	0.0	0.0	-0.0	-0.6	-88.0
3	398804.60	4948422.60	2.60	0	250	85.5	-88.0	0.0	0.0	74.7	1.6	2.6	0.0	0.0	0.0	0.0	-0.0	6.6	-88.0
4	398804.60	4948422.60	2.60	0	500	87.3	-88.0	0.0	0.0	74.7	2.9	-1.2	0.0	0.0	0.0	0.0	-0.0	10.9	-88.0
5	398804.60	4948422.60	2.60	0	1000	83.7	-88.0	0.0	0.0	74.7	5.6	-1.7	0.0	0.0	0.0	0.0	-0.0	5.1	-88.0
6	398804.60	4948422.60	2.60	0	2000	79.1	-88.0	0.0	0.0	74.7	14.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-8.7	-88.0
7	398804.60	4948422.60	2.60	0	4000	70.0	-88.0	0.0	0.0	74.7	50.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-53.0	-88.0
8	398804.60	4948422.60	2.60	0	8000	77.7	-88.0	0.0	0.0	74.7	178.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-173.8	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_2", ID: "Mc_Inv_2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398917.70	4948529.00	2.60	0	63	68.1	-88.0	0.0	0.0	75.1	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-1.6	-88.0
2	398917.70	4948529.00	2.60	0	125	78.9	-88.0	0.0	0.0	75.1	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-1.1	-88.0
3	398917.70	4948529.00	2.60	0	250	85.5	-88.0	0.0	0.0	75.1	1.7	2.6	0.0	0.0	0.0	0.0	-0.0	6.1	-88.0
4	398917.70	4948529.00	2.60	0	500	87.3	-88.0	0.0	0.0	75.1	3.1	-1.2	0.0	0.0	0.0	0.0	-0.0	10.3	-88.0
5	398917.70	4948529.00	2.60	0	1000	83.7	-88.0	0.0	0.0	75.1	5.9	-1.7	0.0	0.0	0.0	0.0	-0.0	4.4	-88.0
6	398917.70	4948529.00	2.60	0	2000	79.1	-88.0	0.0	0.0	75.1	15.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-9.9	-88.0
7	398917.70	4948529.00	2.60	0	4000	70.0	-88.0	0.0	0.0	75.1	52.7	-1.7	0.0	0.0	0.0	0.0	-0.0	-56.1	-88.0
8	398917.70	4948529.00	2.60	0	8000	77.7	-88.0	0.0	0.0	75.1	188.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-183.7	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_3", ID: "Mc_Inv_3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398957.80	4948666.50	2.60	0	63	68.1	-88.0	0.0	0.0	75.8	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-2.3	-88.0
2	398957.80	4948666.50	2.60	0	125	78.9	-88.0	0.0	0.0	75.8	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-1.8	-88.0
3	398957.80	4948666.50	2.60	0	250	85.5	-88.0	0.0	0.0	75.8	1.8	2.6	0.0	0.0	0.0	0.0	-0.0	5.3	-88.0
4	398957.80	4948666.50	2.60	0	500	87.3	-88.0	0.0	0.0	75.8	3.3	-1.3	0.0	0.0	0.0	0.0	-0.0	9.4	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_3", ID: "Mc_Inv_3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
5	398957.80	4948666.50	2.60	0	1000	83.7	-88.0	0.0	0.0	75.8	6.4	-1.7	0.0	0.0	0.0	0.0	-0.0	3.2	-88.0
6	398957.80	4948666.50	2.60	0	2000	79.1	-88.0	0.0	0.0	75.8	16.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-11.8	-88.0
7	398957.80	4948666.50	2.60	0	4000	70.0	-88.0	0.0	0.0	75.8	57.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-61.1	-88.0
8	398957.80	4948666.50	2.60	0	8000	77.7	-88.0	0.0	0.0	75.8	203.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-199.6	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_4", ID: "Mc_Inv_4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398993.80	4948814.80	2.60	0	63	68.1	-88.0	0.0	0.0	76.5	0.2	-5.7	0.0	0.0	0.0	0.0	-0.0	-3.0	-88.0
2	398993.80	4948814.80	2.60	0	125	78.9	-88.0	0.0	0.0	76.5	0.8	4.2	0.0	0.0	0.0	0.0	-0.0	-2.6	-88.0
3	398993.80	4948814.80	2.60	0	250	85.5	-88.0	0.0	0.0	76.5	2.0	2.5	0.0	0.0	0.0	0.0	-0.0	4.5	-88.0
4	398993.80	4948814.80	2.60	0	500	87.3	-88.0	0.0	0.0	76.5	3.6	-1.3	0.0	0.0	0.0	0.0	-0.0	8.4	-88.0
5	398993.80	4948814.80	2.60	0	1000	83.7	-88.0	0.0	0.0	76.5	6.9	-1.7	0.0	0.0	0.0	0.0	-0.0	2.0	-88.0
6	398993.80	4948814.80	2.60	0	2000	79.1	-88.0	0.0	0.0	76.5	18.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-13.9	-88.0
7	398993.80	4948814.80	2.60	0	4000	70.0	-88.0	0.0	0.0	76.5	61.7	-1.7	0.0	0.0	0.0	0.0	-0.0	-66.5	-88.0
8	398993.80	4948814.80	2.60	0	8000	77.7	-88.0	0.0	0.0	76.5	220.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-217.1	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_5", ID: "Mc_Inv_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399183.30	4948919.80	2.60	0	63	68.1	-88.0	0.0	0.0	76.9	0.2	-5.7	0.0	0.0	0.0	0.0	-0.0	-3.4	-88.0
2	399183.30	4948919.80	2.60	0	125	78.9	-88.0	0.0	0.0	76.9	0.8	4.2	0.0	0.0	0.0	0.0	-0.0	-3.0	-88.0
3	399183.30	4948919.80	2.60	0	250	85.5	-88.0	0.0	0.0	76.9	2.1	2.5	0.0	0.0	0.0	0.0	-0.0	4.0	-88.0
4	399183.30	4948919.80	2.60	0	500	87.3	-88.0	0.0	0.0	76.9	3.8	-1.3	0.0	0.0	0.0	0.0	-0.0	7.8	-88.0
5	399183.30	4948919.80	2.60	0	1000	83.7	-88.0	0.0	0.0	76.9	7.2	-1.7	0.0	0.0	0.0	0.0	-0.0	1.2	-88.0
6	399183.30	4948919.80	2.60	0	2000	79.1	-88.0	0.0	0.0	76.9	19.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-15.2	-88.0
7	399183.30	4948919.80	2.60	0	4000	70.0	-88.0	0.0	0.0	76.9	64.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-70.0	-88.0
8	399183.30	4948919.80	2.60	0	8000	77.7	-88.0	0.0	0.0	76.9	231.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-228.7	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_6", ID: "Mc_Inv_6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399186.80	4948714.20	2.60	0	63	68.1	-88.0	0.0	0.0	76.0	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-2.4	-88.0
2	399186.80	4948714.20	2.60	0	125	78.9	-88.0	0.0	0.0	76.0	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-2.0	-88.0
3	399186.80	4948714.20	2.60	0	250	85.5	-88.0	0.0	0.0	76.0	1.9	2.6	0.0	0.0	0.0	0.0	-0.0	5.1	-88.0
4	399186.80	4948714.20	2.60	0	500	87.3	-88.0	0.0	0.0	76.0	3.4	-1.3	0.0	0.0	0.0	0.0	-0.0	9.2	-88.0
5	399186.80	4948714.20	2.60	0	1000	83.7	-88.0	0.0	0.0	76.0	6.5	-1.7	0.0	0.0	0.0	0.0	-0.0	2.9	-88.0
6	399186.80	4948714.20	2.60	0	2000	79.1	-88.0	0.0	0.0	76.0	17.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-12.3	-88.0
7	399186.80	4948714.20	2.60	0	4000	70.0	-88.0	0.0	0.0	76.0	58.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-62.3	-88.0
8	399186.80	4948714.20	2.60	0	8000	77.7	-88.0	0.0	0.0	76.0	207.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-203.7	-88.0

Point Source, ISO 9613, Name: "Mc_Inv_7", ID: "Mc_Inv_7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399289.10	4948606.30	2.60	0	63	68.1	-88.0	0.0	0.0	75.4	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-1.9	-88.0
2	399289.10	4948606.30	2.60	0	125	78.9	-88.0	0.0	0.0	75.4	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-1.5	-88.0
3	399289.10	4948606.30	2.60	0	250	85.5	-88.0	0.0	0.0	75.4	1.7	2.6	0.0	0.0	0.0	0.0	-0.0	5.8	-88.0
4	399289.10	4948606.30	2.60	0	500	87.3	-88.0	0.0	0.0	75.4	3.2	-1.3	0.0	0.0	0.0	0.0	-0.0	9.9	-88.0
5	399289.10	4948606.30	2.60	0	1000	83.7	-88.0	0.0	0.0	75.4	6.1	-1.7	0.0	0.0	0.0	0.0	-0.0	3.8	-88.0
6	399289.10	4948606.30	2.60	0	2000	79.1	-88.0	0.0	0.0	75.4	16.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-10.8	-88.0
7	399289.10	4948606.30	2.60	0	4000	70.0	-88.0	0.0	0.0	75.4	54.7	-1.7	0.0	0.0	0.0	0.0	-0.0	-58.4	-88.0
8	399289.10	4948606.30	2.60	0	8000	77.7	-88.0	0.0	0.0	75.4	195.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-191.0	-88.0

Point Source, ISO 9613, Name: "Mc_Sub", ID: "Mc_Sub"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399148.50	4948483.60	3.50	0	32	48.0	48.0	0.0	0.0	74.8	0.1	-5.5	0.0	0.0	0.0	0.0	-0.0	-21.3	-21.3
2	399148.50	4948483.60	3.50	0	63	67.2	67.2	0.0	0.0	74.8	0.2	-5.5	0.0	0.0	0.0	0.0	-0.0	-2.2	-2.2
3	399148.50	4948483.60	3.50	0	125	79.3	79.3	0.0	0.0	74.8	0.6	3.9	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
4	399148.50	4948483.60	3.50	0	250	81.8	81.8	0.0	0.0	74.8	1.6	1.3	0.0	0.0	0.0	0.0	-0.0	4.1	4.1
5	399148.50	4948483.60	3.50	0	500	87.2	87.2	0.0	0.0	74.8	3.0	-1.6	0.0	0.0	0.0	0.0	-0.0	11.1	11.1
6	399148.50	4948483.60	3.50	0	1000	84.4	84.4	0.0	0.0	74.8	5.6	-1.7	0.0	0.0	0.0	0.0	-0.0	5.7	5.7
7	399148.50	4948483.60	3.50	0	2000	80.6	80.6	0.0	0.0	74.8	14.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-7.4	-7.4

Point Source, ISO 9613, Name: "Mc_Sub", ID: "Mc_Sub"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
8	399148.50	4948483.60	3.50	0	4000	75.4	75.4	0.0	0.0	74.8	50.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-48.2	-48.2
9	399148.50	4948483.60	3.50	0	8000	66.3	66.3	0.0	0.0	74.8	180.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-187.0	-187.0

Point Source, ISO 9613, Name: "Mc_Transf_1", ID: "Mc_Transf_1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398809.90	4948422.20	2.58	0	32	37.3	37.3	0.0	0.0	74.7	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	-31.8	-31.8
2	398809.90	4948422.20	2.58	0	63	56.5	56.5	0.0	0.0	74.7	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-12.8	-12.8
3	398809.90	4948422.20	2.58	0	125	68.6	68.6	0.0	0.0	74.7	0.6	4.2	0.0	0.0	0.0	0.0	-0.0	-10.9	-10.9
4	398809.90	4948422.20	2.58	0	250	71.1	71.1	0.0	0.0	74.7	1.6	2.6	0.0	0.0	0.0	0.0	-0.0	-7.8	-7.8
5	398809.90	4948422.20	2.58	0	500	76.5	76.5	0.0	0.0	74.7	2.9	-1.2	0.0	0.0	0.0	0.0	-0.0	0.1	0.1
6	398809.90	4948422.20	2.58	0	1000	73.7	73.7	0.0	0.0	74.7	5.6	-1.7	0.0	0.0	0.0	0.0	-0.0	-4.9	-4.9
7	398809.90	4948422.20	2.58	0	2000	69.9	69.9	0.0	0.0	74.7	14.7	-1.7	0.0	0.0	0.0	0.0	-0.0	-17.8	-17.8
8	398809.90	4948422.20	2.58	0	4000	64.7	64.7	0.0	0.0	74.7	50.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-58.3	-58.3
9	398809.90	4948422.20	2.58	0	8000	55.6	55.6	0.0	0.0	74.7	178.3	-1.7	0.0	0.0	0.0	0.0	-0.0	-195.7	-195.7

Point Source, ISO 9613, Name: "Mc_Transf_2", ID: "Mc_Transf_2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398923.00	4948528.50	2.58	0	32	37.3	37.3	0.0	0.0	75.1	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	-32.3	-32.3
2	398923.00	4948528.50	2.58	0	63	56.5	56.5	0.0	0.0	75.1	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-13.2	-13.2
3	398923.00	4948528.50	2.58	0	125	68.6	68.6	0.0	0.0	75.1	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-11.4	-11.4
4	398923.00	4948528.50	2.58	0	250	71.1	71.1	0.0	0.0	75.1	1.7	2.6	0.0	0.0	0.0	0.0	-0.0	-8.3	-8.3
5	398923.00	4948528.50	2.58	0	500	76.5	76.5	0.0	0.0	75.1	3.1	-1.2	0.0	0.0	0.0	0.0	-0.0	-0.5	-0.5
6	398923.00	4948528.50	2.58	0	1000	73.7	73.7	0.0	0.0	75.1	5.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-5.6	-5.6
7	398923.00	4948528.50	2.58	0	2000	69.9	69.9	0.0	0.0	75.1	15.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-19.1	-19.1
8	398923.00	4948528.50	2.58	0	4000	64.7	64.7	0.0	0.0	75.1	52.7	-1.7	0.0	0.0	0.0	0.0	-0.0	-61.4	-61.4
9	398923.00	4948528.50	2.58	0	8000	55.6	55.6	0.0	0.0	75.1	187.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-205.7	-205.7

Point Source, ISO 9613, Name: "Mc_Transf_3", ID: "Mc_Transf_3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398963.10	4948666.10	2.58	0	32	37.3	37.3	0.0	0.0	75.8	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	-32.9	-32.9
2	398963.10	4948666.10	2.58	0	63	56.5	56.5	0.0	0.0	75.8	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-13.9	-13.9
3	398963.10	4948666.10	2.58	0	125	68.6	68.6	0.0	0.0	75.8	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-12.1	-12.1
4	398963.10	4948666.10	2.58	0	250	71.1	71.1	0.0	0.0	75.8	1.8	2.6	0.0	0.0	0.0	0.0	-0.0	-9.1	-9.1
5	398963.10	4948666.10	2.58	0	500	76.5	76.5	0.0	0.0	75.8	3.3	-1.2	0.0	0.0	0.0	0.0	-0.0	-1.4	-1.4
6	398963.10	4948666.10	2.58	0	1000	73.7	73.7	0.0	0.0	75.8	6.4	-1.7	0.0	0.0	0.0	0.0	-0.0	-6.8	-6.8
7	398963.10	4948666.10	2.58	0	2000	69.9	69.9	0.0	0.0	75.8	16.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-21.0	-21.0
8	398963.10	4948666.10	2.58	0	4000	64.7	64.7	0.0	0.0	75.8	56.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-66.3	-66.3
9	398963.10	4948666.10	2.58	0	8000	55.6	55.6	0.0	0.0	75.8	203.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-221.6	-221.6

Point Source, ISO 9613, Name: "Mc_Transf_4", ID: "Mc_Transf_4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398999.10	4948814.40	2.58	0	32	37.3	37.3	0.0	0.0	76.5	0.1	-5.7	0.0	0.0	0.0	0.0	-0.0	-33.6	-33.6
2	398999.10	4948814.40	2.58	0	63	56.5	56.5	0.0	0.0	76.5	0.2	-5.7	0.0	0.0	0.0	0.0	-0.0	-14.6	-14.6
3	398999.10	4948814.40	2.58	0	125	68.6	68.6	0.0	0.0	76.5	0.8	4.2	0.0	0.0	0.0	0.0	-0.0	-12.9	-12.9
4	398999.10	4948814.40	2.58	0	250	71.1	71.1	0.0	0.0	76.5	2.0	2.6	0.0	0.0	0.0	0.0	-0.0	-9.9	-9.9
5	398999.10	4948814.40	2.58	0	500	76.5	76.5	0.0	0.0	76.5	3.6	-1.2	0.0	0.0	0.0	0.0	-0.0	-2.4	-2.4
6	398999.10	4948814.40	2.58	0	1000	73.7	73.7	0.0	0.0	76.5	6.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-8.0	-8.0
7	398999.10	4948814.40	2.58	0	2000	69.9	69.9	0.0	0.0	76.5	18.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-23.1	-23.1
8	398999.10	4948814.40	2.58	0	4000	64.7	64.7	0.0	0.0	76.5	61.6	-1.7	0.0	0.0	0.0	0.0	-0.0	-71.7	-71.7
9	398999.10	4948814.40	2.58	0	8000	55.6	55.6	0.0	0.0	76.5	219.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-239.1	-239.1

Point Source, ISO 9613, Name: "Mc_Transf_5", ID: "Mc_Transf_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399188.70	4948919.30	2.58	0	32	37.3	37.3	0.0	0.0	76.9	0.1	-5.7	0.0	0.0	0.0	0.0	-0.0	-34.0	-34.0
2	399188.70	4948919.30	2.58	0	63	56.5	56.5	0.0	0.0	76.9	0.2	-5.7	0.0	0.0	0.0	0.0	-0.0	-15.0	-15.0
3	399188.70	4948919.30	2.58	0	125	68.6	68.6	0.0	0.0	76.9	0.8	4.2	0.0	0.0	0.0	0.0	-0.0	-13.4	-13.4
4	399188.70	4948919.30	2.58	0	250	71.1	71.1	0.0	0.0	76.9	2.1	2.6	0.0	0.0	0.0	0.0	-0.0	-10.5	-10.5
5	399188.70	4948919.30	2.58	0	500	76.5	76.5	0.0	0.0	76.9	3.8	-1.2	0.0	0.0	0.0	0.0	-0.0	-3.0	-3.0

Point Source, ISO 9613, Name: "Mc_Transf_5", ID: "Mc_Transf_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
6	399188.70	4948919.30	2.58	0	1000	73.7	73.7	0.0	0.0	76.9	7.2	-1.7	0.0	0.0	0.0	0.0	-0.0	-8.8	-8.8
7	399188.70	4948919.30	2.58	0	2000	69.9	69.9	0.0	0.0	76.9	19.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-24.4	-24.4
8	399188.70	4948919.30	2.58	0	4000	64.7	64.7	0.0	0.0	76.9	64.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-75.3	-75.3
9	399188.70	4948919.30	2.58	0	8000	55.6	55.6	0.0	0.0	76.9	231.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-250.7	-250.7

Point Source, ISO 9613, Name: "Mc_Transf_6", ID: "Mc_Transf_6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399192.10	4948713.70	2.58	0	32	37.3	37.3	0.0	0.0	76.0	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	-33.1	-33.1
2	399192.10	4948713.70	2.58	0	63	56.5	56.5	0.0	0.0	76.0	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-14.0	-14.0
3	399192.10	4948713.70	2.58	0	125	68.6	68.6	0.0	0.0	76.0	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-12.3	-12.3
4	399192.10	4948713.70	2.58	0	250	71.1	71.1	0.0	0.0	76.0	1.9	2.6	0.0	0.0	0.0	0.0	-0.0	-9.3	-9.3
5	399192.10	4948713.70	2.58	0	500	76.5	76.5	0.0	0.0	76.0	3.4	-1.2	0.0	0.0	0.0	0.0	-0.0	-1.7	-1.7
6	399192.10	4948713.70	2.58	0	1000	73.7	73.7	0.0	0.0	76.0	6.5	-1.7	0.0	0.0	0.0	0.0	-0.0	-7.1	-7.1
7	399192.10	4948713.70	2.58	0	2000	69.9	69.9	0.0	0.0	76.0	17.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-21.5	-21.5
8	399192.10	4948713.70	2.58	0	4000	64.7	64.7	0.0	0.0	76.0	58.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-67.6	-67.6
9	399192.10	4948713.70	2.58	0	8000	55.6	55.6	0.0	0.0	76.0	207.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-225.8	-225.8

Point Source, ISO 9613, Name: "Mc_Transf_7", ID: "Mc_Transf_7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399294.40	4948605.80	2.58	0	32	37.3	37.3	0.0	0.0	75.4	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	-32.6	-32.6
2	399294.40	4948605.80	2.58	0	63	56.5	56.5	0.0	0.0	75.4	0.2	-5.6	0.0	0.0	0.0	0.0	-0.0	-13.5	-13.5
3	399294.40	4948605.80	2.58	0	125	68.6	68.6	0.0	0.0	75.4	0.7	4.2	0.0	0.0	0.0	0.0	-0.0	-11.8	-11.8
4	399294.40	4948605.80	2.58	0	250	71.1	71.1	0.0	0.0	75.4	1.7	2.6	0.0	0.0	0.0	0.0	-0.0	-8.7	-8.7
5	399294.40	4948605.80	2.58	0	500	76.5	76.5	0.0	0.0	75.4	3.2	-1.2	0.0	0.0	0.0	0.0	-0.0	-0.9	-0.9
6	399294.40	4948605.80	2.58	0	1000	73.7	73.7	0.0	0.0	75.4	6.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-6.2	-6.2
7	399294.40	4948605.80	2.58	0	2000	69.9	69.9	0.0	0.0	75.4	16.1	-1.7	0.0	0.0	0.0	0.0	-0.0	-20.0	-20.0
8	399294.40	4948605.80	2.58	0	4000	64.7	64.7	0.0	0.0	75.4	54.6	-1.7	0.0	0.0	0.0	0.0	-0.0	-63.7	-63.7
9	399294.40	4948605.80	2.58	0	8000	55.6	55.6	0.0	0.0	75.4	194.9	-1.7	0.0	0.0	0.0	0.0	-0.0	-213.1	-213.1

Point Source, ISO 9613, Name: "RL_Inv_1", ID: "RL_Inv_1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398634.91	4946758.64	2.60	0	63	68.1	-88.0	0.0	0.0	66.2	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	6.7	-88.0
2	398634.91	4946758.64	2.60	0	125	78.9	-88.0	0.0	0.0	66.2	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	9.2	-88.0
3	398634.91	4946758.64	2.60	0	250	85.5	-88.0	0.0	0.0	66.2	0.6	2.8	0.0	0.0	0.0	0.0	-0.0	15.9	-88.0
4	398634.91	4946758.64	2.60	0	500	87.3	-88.0	0.0	0.0	66.2	1.1	-1.0	0.0	0.0	0.0	0.0	-0.0	21.0	-88.0
5	398634.91	4946758.64	2.60	0	1000	83.7	-88.0	0.0	0.0	66.2	2.1	-1.5	0.0	0.0	0.0	0.0	-0.0	16.9	-88.0
6	398634.91	4946758.64	2.60	0	2000	79.1	-88.0	0.0	0.0	66.2	5.5	-1.5	0.0	0.0	0.0	0.0	-0.0	8.8	-88.0
7	398634.91	4946758.64	2.60	0	4000	70.0	-88.0	0.0	0.0	66.2	18.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-13.5	-88.0
8	398634.91	4946758.64	2.60	0	8000	77.7	-88.0	0.0	0.0	66.2	67.1	-1.5	0.0	0.0	0.0	0.0	-0.0	-54.1	-88.0

Point Source, ISO 9613, Name: "RL_Inv_2", ID: "RL_Inv_2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398599.65	4946624.33	2.60	0	63	68.1	-88.0	0.0	0.0	67.4	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	5.6	-88.0
2	398599.65	4946624.33	2.60	0	125	78.9	-88.0	0.0	0.0	67.4	0.3	3.6	0.0	0.0	0.0	0.0	-0.0	7.7	-88.0
3	398599.65	4946624.33	2.60	0	250	85.5	-88.0	0.0	0.0	67.4	0.7	2.7	0.0	0.0	0.0	0.0	-0.0	14.7	-88.0
4	398599.65	4946624.33	2.60	0	500	87.3	-88.0	0.0	0.0	67.4	1.3	-1.1	0.0	0.0	0.0	0.0	-0.0	19.7	-88.0
5	398599.65	4946624.33	2.60	0	1000	83.7	-88.0	0.0	0.0	67.4	2.4	-1.5	0.0	0.0	0.0	0.0	-0.0	15.4	-88.0
6	398599.65	4946624.33	2.60	0	2000	79.1	-88.0	0.0	0.0	67.4	6.4	-1.5	0.0	0.0	0.0	0.0	-0.0	6.8	-88.0
7	398599.65	4946624.33	2.60	0	4000	70.0	-88.0	0.0	0.0	67.4	21.7	-1.5	0.0	0.0	0.0	0.0	-0.0	-17.5	-88.0
8	398599.65	4946624.33	2.60	0	8000	77.7	-88.0	0.0	0.0	67.4	77.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-65.4	-88.0

Point Source, ISO 9613, Name: "RL_Inv_3", ID: "RL_Inv_3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398599.65	4946512.26	2.60	0	63	68.1	-88.0	0.0	0.0	68.2	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	5.0	-88.0
2	398599.65	4946512.26	2.60	0	125	78.9	-88.0	0.0	0.0	68.2	0.3	3.7	0.0	0.0	0.0	0.0	-0.0	6.7	-88.0
3	398599.65	4946512.26	2.60	0	250	85.5	-88.0	0.0	0.0	68.2	0.8	2.7	0.0	0.0	0.0	0.0	-0.0	13.9	-88.0
4	398599.65	4946512.26	2.60	0	500	87.3	-88.0	0.0	0.0	68.2	1.4	-1.1	0.0	0.0	0.0	0.0	-0.0	18.8	-88.0
5	398599.65	4946512.26	2.60	0	1000	83.7	-88.0	0.0	0.0	68.2	2.6	-1.5	0.0	0.0	0.0	0.0	-0.0	14.4	-88.0

Point Source, ISO 9613, Name: "RL_Inv_3", ID: "RL_Inv_3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
6	398599.65	4946512.26	2.60	0	2000	79.1	-88.0	0.0	0.0	68.2	7.0	-1.5	0.0	0.0	0.0	0.0	-0.0	5.5	-88.0
7	398599.65	4946512.26	2.60	0	4000	70.0	-88.0	0.0	0.0	68.2	23.6	-1.5	0.0	0.0	0.0	0.0	-0.0	-20.3	-88.0
8	398599.65	4946512.26	2.60	0	8000	77.7	-88.0	0.0	0.0	68.2	84.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-73.2	-88.0

Point Source, ISO 9613, Name: "RL_Inv_4", ID: "RL_Inv_4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398634.96	4946355.56	2.60	0	63	68.1	-88.0	0.0	0.0	69.1	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	4.1	-88.0
2	398634.96	4946355.56	2.60	0	125	78.9	-88.0	0.0	0.0	69.1	0.3	3.9	0.0	0.0	0.0	0.0	-0.0	5.6	-88.0
3	398634.96	4946355.56	2.60	0	250	85.5	-88.0	0.0	0.0	69.1	0.8	2.7	0.0	0.0	0.0	0.0	-0.0	12.9	-88.0
4	398634.96	4946355.56	2.60	0	500	87.3	-88.0	0.0	0.0	69.1	1.5	-1.1	0.0	0.0	0.0	0.0	-0.0	17.8	-88.0
5	398634.96	4946355.56	2.60	0	1000	83.7	-88.0	0.0	0.0	69.1	2.9	-1.6	0.0	0.0	0.0	0.0	-0.0	13.3	-88.0
6	398634.96	4946355.56	2.60	0	2000	79.1	-88.0	0.0	0.0	69.1	7.7	-1.6	0.0	0.0	0.0	0.0	-0.0	3.9	-88.0
7	398634.96	4946355.56	2.60	0	4000	70.0	-88.0	0.0	0.0	69.1	26.2	-1.6	0.0	0.0	0.0	0.0	-0.0	-23.7	-88.0
8	398634.96	4946355.56	2.60	0	8000	77.7	-88.0	0.0	0.0	69.1	93.5	-1.6	0.0	0.0	0.0	0.0	-0.0	-83.3	-88.0

Point Source, ISO 9613, Name: "RL_Inv_5", ID: "RL_Inv_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398843.27	4946802.43	2.60	0	63	68.1	-88.0	0.0	0.0	62.2	0.0	-4.2	0.0	0.0	0.0	0.0	-0.0	10.1	-88.0
2	398843.27	4946802.43	2.60	0	125	78.9	-88.0	0.0	0.0	62.2	0.2	2.7	0.0	0.0	0.0	0.0	-0.0	13.9	-88.0
3	398843.27	4946802.43	2.60	0	250	85.5	-88.0	0.0	0.0	62.2	0.4	3.0	0.0	0.0	0.0	0.0	-0.0	19.9	-88.0
4	398843.27	4946802.43	2.60	0	500	87.3	-88.0	0.0	0.0	62.2	0.7	-0.8	0.0	0.0	0.0	0.0	-0.0	25.2	-88.0
5	398843.27	4946802.43	2.60	0	1000	83.7	-88.0	0.0	0.0	62.2	1.3	-1.3	0.0	0.0	0.0	0.0	-0.0	21.4	-88.0
6	398843.27	4946802.43	2.60	0	2000	79.1	-88.0	0.0	0.0	62.2	3.5	-1.3	0.0	0.0	0.0	0.0	-0.0	14.7	-88.0
7	398843.27	4946802.43	2.60	0	4000	70.0	-88.0	0.0	0.0	62.2	11.9	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.8	-88.0
8	398843.27	4946802.43	2.60	0	8000	77.7	-88.0	0.0	0.0	62.2	42.5	-1.3	0.0	0.0	0.0	0.0	-0.0	-25.7	-88.0

Point Source, ISO 9613, Name: "RL_Inv_6", ID: "RL_Inv_6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398859.09	4946623.33	2.60	0	63	68.1	-88.0	0.0	0.0	64.1	0.1	-4.6	0.0	0.0	0.0	0.0	-0.0	8.5	-88.0
2	398859.09	4946623.33	2.60	0	125	78.9	-88.0	0.0	0.0	64.1	0.2	2.9	0.0	0.0	0.0	0.0	-0.0	11.7	-88.0
3	398859.09	4946623.33	2.60	0	250	85.5	-88.0	0.0	0.0	64.1	0.5	2.9	0.0	0.0	0.0	0.0	-0.0	18.1	-88.0
4	398859.09	4946623.33	2.60	0	500	87.3	-88.0	0.0	0.0	64.1	0.9	-0.9	0.0	0.0	0.0	0.0	-0.0	23.3	-88.0
5	398859.09	4946623.33	2.60	0	1000	83.7	-88.0	0.0	0.0	64.1	1.7	-1.4	0.0	0.0	0.0	0.0	-0.0	19.3	-88.0
6	398859.09	4946623.33	2.60	0	2000	79.1	-88.0	0.0	0.0	64.1	4.4	-1.4	0.0	0.0	0.0	0.0	-0.0	12.0	-88.0
7	398859.09	4946623.33	2.60	0	4000	70.0	-88.0	0.0	0.0	64.1	14.8	-1.4	0.0	0.0	0.0	0.0	-0.0	-7.5	-88.0
8	398859.09	4946623.33	2.60	0	8000	77.7	-88.0	0.0	0.0	64.1	52.8	-1.4	0.0	0.0	0.0	0.0	-0.0	-37.8	-88.0

Point Source, ISO 9613, Name: "RL_Inv_7", ID: "RL_Inv_7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398859.09	4946466.53	2.60	0	63	68.1	-88.0	0.0	0.0	66.2	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	6.8	-88.0
2	398859.09	4946466.53	2.60	0	125	78.9	-88.0	0.0	0.0	66.2	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	9.2	-88.0
3	398859.09	4946466.53	2.60	0	250	85.5	-88.0	0.0	0.0	66.2	0.6	2.8	0.0	0.0	0.0	0.0	-0.0	16.0	-88.0
4	398859.09	4946466.53	2.60	0	500	87.3	-88.0	0.0	0.0	66.2	1.1	-1.0	0.0	0.0	0.0	0.0	-0.0	21.1	-88.0
5	398859.09	4946466.53	2.60	0	1000	83.7	-88.0	0.0	0.0	66.2	2.1	-1.5	0.0	0.0	0.0	0.0	-0.0	16.9	-88.0
6	398859.09	4946466.53	2.60	0	2000	79.1	-88.0	0.0	0.0	66.2	5.5	-1.5	0.0	0.0	0.0	0.0	-0.0	8.9	-88.0
7	398859.09	4946466.53	2.60	0	4000	70.0	-88.0	0.0	0.0	66.2	18.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-13.5	-88.0
8	398859.09	4946466.53	2.60	0	8000	77.7	-88.0	0.0	0.0	66.2	67.0	-1.5	0.0	0.0	0.0	0.0	-0.0	-54.0	-88.0

Point Source, ISO 9613, Name: "RL_Sub", ID: "RL_Sub"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399020.36	4947013.11	3.50	0	32	48.0	48.0	0.0	0.0	55.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-4.8	-4.8
2	399020.36	4947013.11	3.50	0	63	67.2	67.2	0.0	0.0	55.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	14.4	14.4
3	399020.36	4947013.11	3.50	0	125	79.3	79.3	0.0	0.0	55.8	0.1	2.8	0.0	0.0	0.0	0.0	-0.0	20.6	20.6
4	399020.36	4947013.11	3.50	0	250	81.8	81.8	0.0	0.0	55.8	0.2	2.0	0.0	0.0	0.0	0.0	-0.0	23.8	23.8
5	399020.36	4947013.11	3.50	0	500	87.2	87.2	0.0	0.0	55.8	0.3	-0.9	0.0	0.0	0.0	0.0	-0.0	31.9	31.9
6	399020.36	4947013.11	3.50	0	1000	84.4	84.4	0.0	0.0	55.8	0.6	-0.9	0.0	0.0	0.0	0.0	-0.0	28.9	28.9
7	399020.36	4947013.11	3.50	0	2000	80.6	80.6	0.0	0.0	55.8	1.7	-0.9	0.0	0.0	0.0	0.0	-0.0	24.0	24.0
8	399020.36	4947013.11	3.50	0	4000	75.4	75.4	0.0	0.0	55.8	5.7	-0.9	0.0	0.0	0.0	0.0	-0.0	14.8	14.8

Point Source, ISO 9613, Name: "RL_Sub", ID: "RL_Sub"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
9	399020.36	4947013.11	3.50	0	8000	66.3	66.3	0.0	0.0	55.8	20.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-8.9	-8.9

Point Source, ISO 9613, Name: "RL_Transf_1", ID: "RL_Transf_1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398639.91	4946758.14	2.58	0	32	37.3	37.3	0.0	0.0	66.1	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-23.9	-23.9
2	398639.91	4946758.14	2.58	0	63	56.5	56.5	0.0	0.0	66.1	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-4.8	-4.8
3	398639.91	4946758.14	2.58	0	125	68.6	68.6	0.0	0.0	66.1	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
4	398639.91	4946758.14	2.58	0	250	71.1	71.1	0.0	0.0	66.1	0.6	2.8	0.0	0.0	0.0	0.0	-0.0	1.6	1.6
5	398639.91	4946758.14	2.58	0	500	76.5	76.5	0.0	0.0	66.1	1.1	-1.0	0.0	0.0	0.0	0.0	-0.0	10.3	10.3
6	398639.91	4946758.14	2.58	0	1000	73.7	73.7	0.0	0.0	66.1	2.1	-1.5	0.0	0.0	0.0	0.0	-0.0	7.0	7.0
7	398639.91	4946758.14	2.58	0	2000	69.9	69.9	0.0	0.0	66.1	5.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.3	-0.3
8	398639.91	4946758.14	2.58	0	4000	64.7	64.7	0.0	0.0	66.1	18.7	-1.5	0.0	0.0	0.0	0.0	-0.0	-18.6	-18.6
9	398639.91	4946758.14	2.58	0	8000	55.6	55.6	0.0	0.0	66.1	66.6	-1.5	0.0	0.0	0.0	0.0	-0.0	-75.6	-75.6

Point Source, ISO 9613, Name: "RL_Transf_2", ID: "RL_Transf_2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398604.65	4946623.83	2.58	0	32	37.3	37.3	0.0	0.0	67.3	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-25.0	-25.0
2	398604.65	4946623.83	2.58	0	63	56.5	56.5	0.0	0.0	67.3	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-5.9	-5.9
3	398604.65	4946623.83	2.58	0	125	68.6	68.6	0.0	0.0	67.3	0.3	3.6	0.0	0.0	0.0	0.0	-0.0	-2.6	-2.6
4	398604.65	4946623.83	2.58	0	250	71.1	71.1	0.0	0.0	67.3	0.7	2.8	0.0	0.0	0.0	0.0	-0.0	0.3	0.3
5	398604.65	4946623.83	2.58	0	500	76.5	76.5	0.0	0.0	67.3	1.3	-1.1	0.0	0.0	0.0	0.0	-0.0	8.9	8.9
6	398604.65	4946623.83	2.58	0	1000	73.7	73.7	0.0	0.0	67.3	2.4	-1.5	0.0	0.0	0.0	0.0	-0.0	5.5	5.5
7	398604.65	4946623.83	2.58	0	2000	69.9	69.9	0.0	0.0	67.3	6.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-2.3	-2.3
8	398604.65	4946623.83	2.58	0	4000	64.7	64.7	0.0	0.0	67.3	21.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-22.7	-22.7
9	398604.65	4946623.83	2.58	0	8000	55.6	55.6	0.0	0.0	67.3	76.7	-1.5	0.0	0.0	0.0	0.0	-0.0	-87.0	-87.0

Point Source, ISO 9613, Name: "RL_Transf_3", ID: "RL_Transf_3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398604.65	4946511.76	2.58	0	32	37.3	37.3	0.0	0.0	68.1	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-25.7	-25.7
2	398604.65	4946511.76	2.58	0	63	56.5	56.5	0.0	0.0	68.1	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	-6.6	-6.6
3	398604.65	4946511.76	2.58	0	125	68.6	68.6	0.0	0.0	68.1	0.3	3.7	0.0	0.0	0.0	0.0	-0.0	-3.5	-3.5
4	398604.65	4946511.76	2.58	0	250	71.1	71.1	0.0	0.0	68.1	0.8	2.8	0.0	0.0	0.0	0.0	-0.0	-0.5	-0.5
5	398604.65	4946511.76	2.58	0	500	76.5	76.5	0.0	0.0	68.1	1.4	-1.1	0.0	0.0	0.0	0.0	-0.0	8.1	8.1
6	398604.65	4946511.76	2.58	0	1000	73.7	73.7	0.0	0.0	68.1	2.6	-1.5	0.0	0.0	0.0	0.0	-0.0	4.5	4.5
7	398604.65	4946511.76	2.58	0	2000	69.9	69.9	0.0	0.0	68.1	6.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-3.6	-3.6
8	398604.65	4946511.76	2.58	0	4000	64.7	64.7	0.0	0.0	68.1	23.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-25.4	-25.4
9	398604.65	4946511.76	2.58	0	8000	55.6	55.6	0.0	0.0	68.1	83.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-94.9	-94.9

Point Source, ISO 9613, Name: "RL_Transf_4", ID: "RL_Transf_4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398639.96	4946355.06	2.58	0	32	37.3	37.3	0.0	0.0	69.0	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-26.6	-26.6
2	398639.96	4946355.06	2.58	0	63	56.5	56.5	0.0	0.0	69.0	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	-7.4	-7.4
3	398639.96	4946355.06	2.58	0	125	68.6	68.6	0.0	0.0	69.0	0.3	3.9	0.0	0.0	0.0	0.0	-0.0	-4.6	-4.6
4	398639.96	4946355.06	2.58	0	250	71.1	71.1	0.0	0.0	69.0	0.8	2.7	0.0	0.0	0.0	0.0	-0.0	-1.5	-1.5
5	398639.96	4946355.06	2.58	0	500	76.5	76.5	0.0	0.0	69.0	1.5	-1.1	0.0	0.0	0.0	0.0	-0.0	7.0	7.0
6	398639.96	4946355.06	2.58	0	1000	73.7	73.7	0.0	0.0	69.0	2.9	-1.6	0.0	0.0	0.0	0.0	-0.0	3.3	3.3
7	398639.96	4946355.06	2.58	0	2000	69.9	69.9	0.0	0.0	69.0	7.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-5.3	-5.3
8	398639.96	4946355.06	2.58	0	4000	64.7	64.7	0.0	0.0	69.0	26.1	-1.6	0.0	0.0	0.0	0.0	-0.0	-28.9	-28.9
9	398639.96	4946355.06	2.58	0	8000	55.6	55.6	0.0	0.0	69.0	93.1	-1.6	0.0	0.0	0.0	0.0	-0.0	-105.0	-105.0

Point Source, ISO 9613, Name: "RL_Transf_5", ID: "RL_Transf_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398838.27	4946802.93	2.58	0	32	37.3	37.3	0.0	0.0	62.3	0.0	-4.3	0.0	0.0	0.0	0.0	-0.0	-20.8	-20.8
2	398838.27	4946802.93	2.58	0	63	56.5	56.5	0.0	0.0	62.3	0.0	-4.3	0.0	0.0	0.0	0.0	-0.0	-1.6	-1.6
3	398838.27	4946802.93	2.58	0	125	68.6	68.6	0.0	0.0	62.3	0.2	2.7	0.0	0.0	0.0	0.0	-0.0	3.4	3.4
4	398838.27	4946802.93	2.58	0	250	71.1	71.1	0.0	0.0	62.3	0.4	3.0	0.0	0.0	0.0	0.0	-0.0	5.4	5.4
5	398838.27	4946802.93	2.58	0	500	76.5	76.5	0.0	0.0	62.3	0.7	-0.8	0.0	0.0	0.0	0.0	-0.0	14.3	14.3
6	398838.27	4946802.93	2.58	0	1000	73.7	73.7	0.0	0.0	62.3	1.4	-1.3	0.0	0.0	0.0	0.0	-0.0	11.3	11.3

Point Source, ISO 9613, Name: "RL_Transf_5", ID: "RL_Transf_5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
7	398838.27	4946802.93	2.58	0	2000	69.9	69.9	0.0	0.0	62.3	3.6	-1.3	0.0	0.0	0.0	0.0	-0.0	5.3	5.3
8	398838.27	4946802.93	2.58	0	4000	64.7	64.7	0.0	0.0	62.3	12.1	-1.3	0.0	0.0	0.0	0.0	-0.0	-8.4	-8.4
9	398838.27	4946802.93	2.58	0	8000	55.6	55.6	0.0	0.0	62.3	43.0	-1.3	0.0	0.0	0.0	0.0	-0.0	-48.4	-48.4

Point Source, ISO 9613, Name: "RL_Transf_6", ID: "RL_Transf_6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398854.09	4946623.83	2.58	0	32	37.3	37.3	0.0	0.0	64.2	0.0	-4.6	0.0	0.0	0.0	0.0	-0.0	-22.3	-22.3
2	398854.09	4946623.83	2.58	0	63	56.5	56.5	0.0	0.0	64.2	0.1	-4.6	0.0	0.0	0.0	0.0	-0.0	-3.1	-3.1
3	398854.09	4946623.83	2.58	0	125	68.6	68.6	0.0	0.0	64.2	0.2	2.9	0.0	0.0	0.0	0.0	-0.0	1.3	1.3
4	398854.09	4946623.83	2.58	0	250	71.1	71.1	0.0	0.0	64.2	0.5	2.9	0.0	0.0	0.0	0.0	-0.0	3.6	3.6
5	398854.09	4946623.83	2.58	0	500	76.5	76.5	0.0	0.0	64.2	0.9	-0.9	0.0	0.0	0.0	0.0	-0.0	12.4	12.4
6	398854.09	4946623.83	2.58	0	1000	73.7	73.7	0.0	0.0	64.2	1.7	-1.4	0.0	0.0	0.0	0.0	-0.0	9.3	9.3
7	398854.09	4946623.83	2.58	0	2000	69.9	69.9	0.0	0.0	64.2	4.4	-1.4	0.0	0.0	0.0	0.0	-0.0	2.7	2.7
8	398854.09	4946623.83	2.58	0	4000	64.7	64.7	0.0	0.0	64.2	14.9	-1.4	0.0	0.0	0.0	0.0	-0.0	-13.0	-13.0
9	398854.09	4946623.83	2.58	0	8000	55.6	55.6	0.0	0.0	64.2	53.1	-1.4	0.0	0.0	0.0	0.0	-0.0	-60.3	-60.3

Point Source, ISO 9613, Name: "RL_Transf_7", ID: "RL_Transf_7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	398854.09	4946467.03	2.58	0	32	37.3	37.3	0.0	0.0	66.2	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-24.0	-24.0
2	398854.09	4946467.03	2.58	0	63	56.5	56.5	0.0	0.0	66.2	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-4.9	-4.9
3	398854.09	4946467.03	2.58	0	125	68.6	68.6	0.0	0.0	66.2	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	-1.2	-1.2
4	398854.09	4946467.03	2.58	0	250	71.1	71.1	0.0	0.0	66.2	0.6	2.8	0.0	0.0	0.0	0.0	-0.0	1.5	1.5
5	398854.09	4946467.03	2.58	0	500	76.5	76.5	0.0	0.0	66.2	1.1	-1.0	0.0	0.0	0.0	0.0	-0.0	10.2	10.2
6	398854.09	4946467.03	2.58	0	1000	73.7	73.7	0.0	0.0	66.2	2.1	-1.5	0.0	0.0	0.0	0.0	-0.0	6.8	6.8
7	398854.09	4946467.03	2.58	0	2000	69.9	69.9	0.0	0.0	66.2	5.6	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.4	-0.4
8	398854.09	4946467.03	2.58	0	4000	64.7	64.7	0.0	0.0	66.2	18.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-18.9	-18.9
9	398854.09	4946467.03	2.58	0	8000	55.6	55.6	0.0	0.0	66.2	67.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-76.4	-76.4

Point Source, ISO 9613, Name: "H1T", ID: "H1T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399524.90	4947879.80	2.50	0	32	34.6	34.6	0.0	0.0	71.0	0.0	-5.4	0.0	0.0	0.0	0.0	-0.0	-31.1	-31.1
2	399524.90	4947879.80	2.50	0	63	53.8	53.8	0.0	0.0	71.0	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	-12.0	-12.0
3	399524.90	4947879.80	2.50	0	125	65.9	65.9	0.0	0.0	71.0	0.4	4.2	0.0	0.0	0.0	0.0	-0.0	-9.7	-9.7
4	399524.90	4947879.80	2.50	0	250	68.4	68.4	0.0	0.0	71.0	1.0	2.8	0.0	0.0	0.0	0.0	-0.0	-6.4	-6.4
5	399524.90	4947879.80	2.50	0	500	73.8	73.8	0.0	0.0	71.0	1.9	-1.1	0.0	0.0	0.0	0.0	-0.0	1.9	1.9
6	399524.90	4947879.80	2.50	0	1000	71.0	71.0	0.0	0.0	71.0	3.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-2.0	-2.0
7	399524.90	4947879.80	2.50	0	2000	67.2	67.2	0.0	0.0	71.0	9.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-11.8	-11.8
8	399524.90	4947879.80	2.50	0	4000	62.0	62.0	0.0	0.0	71.0	32.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-40.1	-40.1
9	399524.90	4947879.80	2.50	0	8000	52.9	52.9	0.0	0.0	71.0	116.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-133.3	-133.3

Point Source, ISO 9613, Name: "H1I1", ID: "H1I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399523.60	4947884.50	2.00	0	32	59.6	59.6	0.0	0.0	71.0	0.0	-5.4	0.0	0.0	0.0	0.0	-0.0	-6.0	-6.0
2	399523.60	4947884.50	2.00	0	63	60.8	60.8	0.0	0.0	71.0	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	-4.9	-4.9
3	399523.60	4947884.50	2.00	0	125	67.9	67.9	0.0	0.0	71.0	0.4	4.3	0.0	0.0	0.0	0.0	-0.0	-7.9	-7.9
4	399523.60	4947884.50	2.00	0	250	75.4	75.4	0.0	0.0	71.0	1.1	3.5	0.0	0.0	0.0	0.0	-0.0	-0.2	-0.2
5	399523.60	4947884.50	2.00	0	500	80.8	80.8	0.0	0.0	71.0	1.9	-0.1	0.0	0.0	0.0	0.0	-0.0	7.9	7.9
6	399523.60	4947884.50	2.00	0	1000	76.0	76.0	0.0	0.0	71.0	3.7	-1.5	0.0	0.0	0.0	0.0	-0.0	2.8	2.8
7	399523.60	4947884.50	2.00	0	2000	80.2	80.2	0.0	0.0	71.0	9.7	-1.6	0.0	0.0	0.0	0.0	-0.0	1.1	1.1
8	399523.60	4947884.50	2.00	0	4000	84.0	84.0	0.0	0.0	71.0	32.9	-1.6	0.0	0.0	0.0	0.0	-0.0	-18.3	-18.3
9	399523.60	4947884.50	2.00	0	8000	70.9	70.9	0.0	0.0	71.0	117.3	-1.6	0.0	0.0	0.0	0.0	-0.0	-115.8	-115.8

Point Source, ISO 9613, Name: "H2T", ID: "H2T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399353.80	4947777.70	2.00	0	32	34.6	34.6	0.0	0.0	69.6	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-29.7	-29.7
2	399353.80	4947777.70	2.00	0	63	53.8	53.8	0.0	0.0	69.6	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-10.6	-10.6
3	399353.80	4947777.70	2.00	0	125	65.9	65.9	0.0	0.0	69.6	0.4	4.1	0.0	0.0	0.0	0.0	-0.0	-8.2	-8.2
4	399353.80	4947777.70	2.00	0	250	68.4	68.4	0.0	0.0	69.6	0.9	3.6	0.0	0.0	0.0	0.0	-0.0	-5.7	-5.7

Point Source, ISO 9613, Name: "H2T", ID: "H2T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
5	399353.80	4947777.70	2.00	0	500	73.8	73.8	0.0	0.0	69.6	1.7	-0.0	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
6	399353.80	4947777.70	2.00	0	1000	71.0	71.0	0.0	0.0	69.6	3.1	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.3	-0.3
7	399353.80	4947777.70	2.00	0	2000	67.2	67.2	0.0	0.0	69.6	8.3	-1.6	0.0	0.0	0.0	0.0	-0.0	-9.1	-9.1
8	399353.80	4947777.70	2.00	0	4000	62.0	62.0	0.0	0.0	69.6	28.0	-1.6	0.0	0.0	0.0	0.0	-0.0	-34.0	-34.0
9	399353.80	4947777.70	2.00	0	8000	52.9	52.9	0.0	0.0	69.6	99.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-114.9	-114.9

Point Source, ISO 9613, Name: "H2I1", ID: "H2I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399352.50	4947773.10	2.00	0	32	59.6	59.6	0.0	0.0	69.6	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-4.7	-4.7
2	399352.50	4947773.10	2.00	0	63	60.8	60.8	0.0	0.0	69.6	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-3.6	-3.6
3	399352.50	4947773.10	2.00	0	125	67.9	67.9	0.0	0.0	69.6	0.4	4.1	0.0	0.0	0.0	0.0	-0.0	-6.2	-6.2
4	399352.50	4947773.10	2.00	0	250	75.4	75.4	0.0	0.0	69.6	0.9	3.6	0.0	0.0	0.0	0.0	-0.0	1.4	1.4
5	399352.50	4947773.10	2.00	0	500	80.8	80.8	0.0	0.0	69.6	1.6	-0.0	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
6	399352.50	4947773.10	2.00	0	1000	76.0	76.0	0.0	0.0	69.6	3.1	-1.5	0.0	0.0	0.0	0.0	-0.0	4.8	4.8
7	399352.50	4947773.10	2.00	0	2000	80.2	80.2	0.0	0.0	69.6	8.2	-1.6	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
8	399352.50	4947773.10	2.00	0	4000	84.0	84.0	0.0	0.0	69.6	27.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-11.8	-11.8
9	399352.50	4947773.10	2.00	0	8000	70.9	70.9	0.0	0.0	69.6	99.2	-1.6	0.0	0.0	0.0	0.0	-0.0	-96.3	-96.3

Point Source, ISO 9613, Name: "H3T", ID: "H3T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399619.30	4947777.90	2.00	0	32	34.6	34.6	0.0	0.0	70.5	0.0	-5.4	0.0	0.0	0.0	0.0	-0.0	-30.6	-30.6
2	399619.30	4947777.90	2.00	0	63	53.8	53.8	0.0	0.0	70.5	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	-11.4	-11.4
3	399619.30	4947777.90	2.00	0	125	65.9	65.9	0.0	0.0	70.5	0.4	4.3	0.0	0.0	0.0	0.0	-0.0	-9.3	-9.3
4	399619.30	4947777.90	2.00	0	250	68.4	68.4	0.0	0.0	70.5	1.0	3.6	0.0	0.0	0.0	0.0	-0.0	-6.6	-6.6
5	399619.30	4947777.90	2.00	0	500	73.8	73.8	0.0	0.0	70.5	1.8	-0.1	0.0	0.0	0.0	0.0	-0.0	1.5	1.5
6	399619.30	4947777.90	2.00	0	1000	71.0	71.0	0.0	0.0	70.5	3.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.4	-1.4
7	399619.30	4947777.90	2.00	0	2000	67.2	67.2	0.0	0.0	70.5	9.1	-1.6	0.0	0.0	0.0	0.0	-0.0	-10.8	-10.8
8	399619.30	4947777.90	2.00	0	4000	62.0	62.0	0.0	0.0	70.5	31.0	-1.6	0.0	0.0	0.0	0.0	-0.0	-37.8	-37.8
9	399619.30	4947777.90	2.00	0	8000	52.9	52.9	0.0	0.0	70.5	110.4	-1.6	0.0	0.0	0.0	0.0	-0.0	-126.4	-126.4

Point Source, ISO 9613, Name: "H3I1", ID: "H3I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399618.00	4947773.30	2.00	0	32	59.6	59.6	0.0	0.0	70.5	0.0	-5.4	0.0	0.0	0.0	0.0	-0.0	-5.5	-5.5
2	399618.00	4947773.30	2.00	0	63	60.8	60.8	0.0	0.0	70.5	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	-4.4	-4.4
3	399618.00	4947773.30	2.00	0	125	67.9	67.9	0.0	0.0	70.5	0.4	4.3	0.0	0.0	0.0	0.0	-0.0	-7.2	-7.2
4	399618.00	4947773.30	2.00	0	250	75.4	75.4	0.0	0.0	70.5	1.0	3.6	0.0	0.0	0.0	0.0	-0.0	0.4	0.4
5	399618.00	4947773.30	2.00	0	500	80.8	80.8	0.0	0.0	70.5	1.8	-0.1	0.0	0.0	0.0	0.0	-0.0	8.6	8.6
6	399618.00	4947773.30	2.00	0	1000	76.0	76.0	0.0	0.0	70.5	3.4	-1.5	0.0	0.0	0.0	0.0	-0.0	3.6	3.6
7	399618.00	4947773.30	2.00	0	2000	80.2	80.2	0.0	0.0	70.5	9.1	-1.6	0.0	0.0	0.0	0.0	-0.0	2.3	2.3
8	399618.00	4947773.30	2.00	0	4000	84.0	84.0	0.0	0.0	70.5	30.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-15.7	-15.7
9	399618.00	4947773.30	2.00	0	8000	70.9	70.9	0.0	0.0	70.5	109.9	-1.6	0.0	0.0	0.0	0.0	-0.0	-107.8	-107.8

Point Source, ISO 9613, Name: "H4T", ID: "H4T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399637.00	4947717.70	2.00	0	32	34.6	34.6	0.0	0.0	70.1	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-30.2	-30.2
2	399637.00	4947717.70	2.00	0	63	53.8	53.8	0.0	0.0	70.1	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-11.1	-11.1
3	399637.00	4947717.70	2.00	0	125	65.9	65.9	0.0	0.0	70.1	0.4	4.2	0.0	0.0	0.0	0.0	-0.0	-8.8	-8.8
4	399637.00	4947717.70	2.00	0	250	68.4	68.4	0.0	0.0	70.1	0.9	3.6	0.0	0.0	0.0	0.0	-0.0	-6.2	-6.2
5	399637.00	4947717.70	2.00	0	500	73.8	73.8	0.0	0.0	70.1	1.7	-0.1	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
6	399637.00	4947717.70	2.00	0	1000	71.0	71.0	0.0	0.0	70.1	3.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.9	-0.9
7	399637.00	4947717.70	2.00	0	2000	67.2	67.2	0.0	0.0	70.1	8.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-10.0	-10.0
8	399637.00	4947717.70	2.00	0	4000	62.0	62.0	0.0	0.0	70.1	29.5	-1.6	0.0	0.0	0.0	0.0	-0.0	-36.0	-36.0
9	399637.00	4947717.70	2.00	0	8000	52.9	52.9	0.0	0.0	70.1	105.3	-1.6	0.0	0.0	0.0	0.0	-0.0	-120.9	-120.9

Point Source, ISO 9613, Name: "H4I1", ID: "H4I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399635.70	4947722.40	2.00	0	32	59.6	59.6	0.0	0.0	70.1	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-5.2	-5.2
2	399635.70	4947722.40	2.00	0	63	60.8	60.8	0.0	0.0	70.1	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-4.1	-4.1

Point Source, ISO 9613, Name: "H4I1", ID: "H4I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
3	399635.70	4947722.40	2.00	0	125	67.9	67.9	0.0	0.0	70.1	0.4	4.2	0.0	0.0	0.0	0.0	-0.0	-6.8	-6.8
4	399635.70	4947722.40	2.00	0	250	75.4	75.4	0.0	0.0	70.1	0.9	3.6	0.0	0.0	0.0	0.0	-0.0	0.8	0.8
5	399635.70	4947722.40	2.00	0	500	80.8	80.8	0.0	0.0	70.1	1.7	-0.1	0.0	0.0	0.0	0.0	-0.0	9.0	9.0
6	399635.70	4947722.40	2.00	0	1000	76.0	76.0	0.0	0.0	70.1	3.3	-1.5	0.0	0.0	0.0	0.0	-0.0	4.1	4.1
7	399635.70	4947722.40	2.00	0	2000	80.2	80.2	0.0	0.0	70.1	8.7	-1.6	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
8	399635.70	4947722.40	2.00	0	4000	84.0	84.0	0.0	0.0	70.1	29.6	-1.6	0.0	0.0	0.0	0.0	-0.0	-14.2	-14.2
9	399635.70	4947722.40	2.00	0	8000	70.9	70.9	0.0	0.0	70.1	105.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-103.3	-103.3

Point Source, ISO 9613, Name: "H5T", ID: "H5T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399377.40	4947669.90	2.00	0	32	34.6	34.6	0.0	0.0	68.5	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-28.8	-28.8
2	399377.40	4947669.90	2.00	0	63	53.8	53.8	0.0	0.0	68.5	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	-9.6	-9.6
3	399377.40	4947669.90	2.00	0	125	65.9	65.9	0.0	0.0	68.5	0.3	3.9	0.0	0.0	0.0	0.0	-0.0	-6.9	-6.9
4	399377.40	4947669.90	2.00	0	250	68.4	68.4	0.0	0.0	68.5	0.8	3.6	0.0	0.0	0.0	0.0	-0.0	-4.5	-4.5
5	399377.40	4947669.90	2.00	0	500	73.8	73.8	0.0	0.0	68.5	1.5	-0.0	0.0	0.0	0.0	0.0	-0.0	3.8	3.8
6	399377.40	4947669.90	2.00	0	1000	71.0	71.0	0.0	0.0	68.5	2.8	-1.5	0.0	0.0	0.0	0.0	-0.0	1.2	1.2
7	399377.40	4947669.90	2.00	0	2000	67.2	67.2	0.0	0.0	68.5	7.3	-1.6	0.0	0.0	0.0	0.0	-0.0	-7.1	-7.1
8	399377.40	4947669.90	2.00	0	4000	62.0	62.0	0.0	0.0	68.5	24.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-29.7	-29.7
9	399377.40	4947669.90	2.00	0	8000	52.9	52.9	0.0	0.0	68.5	88.2	-1.6	0.0	0.0	0.0	0.0	-0.0	-102.3	-102.3

Point Source, ISO 9613, Name: "H5I1", ID: "H5I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399376.10	4947665.30	2.00	0	32	59.6	59.6	0.0	0.0	68.5	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-3.7	-3.7
2	399376.10	4947665.30	2.00	0	63	60.8	60.8	0.0	0.0	68.5	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	-2.6	-2.6
3	399376.10	4947665.30	2.00	0	125	67.9	67.9	0.0	0.0	68.5	0.3	3.9	0.0	0.0	0.0	0.0	-0.0	-4.8	-4.8
4	399376.10	4947665.30	2.00	0	250	75.4	75.4	0.0	0.0	68.5	0.8	3.6	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
5	399376.10	4947665.30	2.00	0	500	80.8	80.8	0.0	0.0	68.5	1.5	-0.0	0.0	0.0	0.0	0.0	-0.0	10.9	10.9
6	399376.10	4947665.30	2.00	0	1000	76.0	76.0	0.0	0.0	68.5	2.7	-1.5	0.0	0.0	0.0	0.0	-0.0	6.2	6.2
7	399376.10	4947665.30	2.00	0	2000	80.2	80.2	0.0	0.0	68.5	7.2	-1.6	0.0	0.0	0.0	0.0	-0.0	6.0	6.0
8	399376.10	4947665.30	2.00	0	4000	84.0	84.0	0.0	0.0	68.5	24.6	-1.6	0.0	0.0	0.0	0.0	-0.0	-7.5	-7.5
9	399376.10	4947665.30	2.00	0	8000	70.9	70.9	0.0	0.0	68.5	87.6	-1.6	0.0	0.0	0.0	0.0	-0.0	-83.7	-83.7

Point Source, ISO 9613, Name: "H6T", ID: "H6T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399265.30	4947555.70	2.00	0	32	34.6	34.6	0.0	0.0	66.8	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-27.2	-27.2
2	399265.30	4947555.70	2.00	0	63	53.8	53.8	0.0	0.0	66.8	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	-8.1	-8.1
3	399265.30	4947555.70	2.00	0	125	65.9	65.9	0.0	0.0	66.8	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	-4.7	-4.7
4	399265.30	4947555.70	2.00	0	250	68.4	68.4	0.0	0.0	66.8	0.7	3.7	0.0	0.0	0.0	0.0	-0.0	-2.8	-2.8
5	399265.30	4947555.70	2.00	0	500	73.8	73.8	0.0	0.0	66.8	1.2	0.0	0.0	0.0	0.0	0.0	-0.0	5.7	5.7
6	399265.30	4947555.70	2.00	0	1000	71.0	71.0	0.0	0.0	66.8	2.3	-1.4	0.0	0.0	0.0	0.0	-0.0	3.3	3.3
7	399265.30	4947555.70	2.00	0	2000	67.2	67.2	0.0	0.0	66.8	6.0	-1.5	0.0	0.0	0.0	0.0	-0.0	-4.1	-4.1
8	399265.30	4947555.70	2.00	0	4000	62.0	62.0	0.0	0.0	66.8	20.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-23.6	-23.6
9	399265.30	4947555.70	2.00	0	8000	52.9	52.9	0.0	0.0	66.8	72.4	-1.5	0.0	0.0	0.0	0.0	-0.0	-84.9	-84.9

Point Source, ISO 9613, Name: "H6I1", ID: "H6I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399264.00	4947560.40	2.00	0	32	59.6	59.6	0.0	0.0	66.9	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-2.3	-2.3
2	399264.00	4947560.40	2.00	0	63	60.8	60.8	0.0	0.0	66.9	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
3	399264.00	4947560.40	2.00	0	125	67.9	67.9	0.0	0.0	66.9	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	-2.8	-2.8
4	399264.00	4947560.40	2.00	0	250	75.4	75.4	0.0	0.0	66.9	0.7	3.6	0.0	0.0	0.0	0.0	-0.0	4.2	4.2
5	399264.00	4947560.40	2.00	0	500	80.8	80.8	0.0	0.0	66.9	1.2	0.0	0.0	0.0	0.0	0.0	-0.0	12.7	12.7
6	399264.00	4947560.40	2.00	0	1000	76.0	76.0	0.0	0.0	66.9	2.3	-1.4	0.0	0.0	0.0	0.0	-0.0	8.2	8.2
7	399264.00	4947560.40	2.00	0	2000	80.2	80.2	0.0	0.0	66.9	6.0	-1.5	0.0	0.0	0.0	0.0	-0.0	8.8	8.8
8	399264.00	4947560.40	2.00	0	4000	84.0	84.0	0.0	0.0	66.9	20.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.8	-1.8
9	399264.00	4947560.40	2.00	0	8000	70.9	70.9	0.0	0.0	66.9	73.0	-1.5	0.0	0.0	0.0	0.0	-0.0	-67.5	-67.5

Point Source, ISO 9613, Name: "H7T", ID: "H7T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399554.40	4947555.70	2.00	0	32	34.6	34.6	0.0	0.0	68.1	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-28.4	-28.4
2	399554.40	4947555.70	2.00	0	63	53.8	53.8	0.0	0.0	68.1	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	-9.2	-9.2
3	399554.40	4947555.70	2.00	0	125	65.9	65.9	0.0	0.0	68.1	0.3	3.8	0.0	0.0	0.0	0.0	-0.0	-6.3	-6.3
4	399554.40	4947555.70	2.00	0	250	68.4	68.4	0.0	0.0	68.1	0.8	3.6	0.0	0.0	0.0	0.0	-0.0	-4.1	-4.1
5	399554.40	4947555.70	2.00	0	500	73.8	73.8	0.0	0.0	68.1	1.4	0.0	0.0	0.0	0.0	0.0	-0.0	4.3	4.3
6	399554.40	4947555.70	2.00	0	1000	71.0	71.0	0.0	0.0	68.1	2.6	-1.5	0.0	0.0	0.0	0.0	-0.0	1.7	1.7
7	399554.40	4947555.70	2.00	0	2000	67.2	67.2	0.0	0.0	68.1	7.0	-1.6	0.0	0.0	0.0	0.0	-0.0	-6.3	-6.3
8	399554.40	4947555.70	2.00	0	4000	62.0	62.0	0.0	0.0	68.1	23.6	-1.6	0.0	0.0	0.0	0.0	-0.0	-28.2	-28.2
9	399554.40	4947555.70	2.00	0	8000	52.9	52.9	0.0	0.0	68.1	84.1	-1.6	0.0	0.0	0.0	0.0	-0.0	-97.8	-97.8

Point Source, ISO 9613, Name: "H7I1", ID: "H7I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399553.10	4947560.40	2.00	0	32	59.6	59.6	0.0	0.0	68.2	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-3.4	-3.4
2	399553.10	4947560.40	2.00	0	63	60.8	60.8	0.0	0.0	68.2	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	-2.3	-2.3
3	399553.10	4947560.40	2.00	0	125	67.9	67.9	0.0	0.0	68.2	0.3	3.8	0.0	0.0	0.0	0.0	-0.0	-4.4	-4.4
4	399553.10	4947560.40	2.00	0	250	75.4	75.4	0.0	0.0	68.2	0.8	3.6	0.0	0.0	0.0	0.0	-0.0	2.8	2.8
5	399553.10	4947560.40	2.00	0	500	80.8	80.8	0.0	0.0	68.2	1.4	0.0	0.0	0.0	0.0	0.0	-0.0	11.2	11.2
6	399553.10	4947560.40	2.00	0	1000	76.0	76.0	0.0	0.0	68.2	2.6	-1.5	0.0	0.0	0.0	0.0	-0.0	6.6	6.6
7	399553.10	4947560.40	2.00	0	2000	80.2	80.2	0.0	0.0	68.2	7.0	-1.6	0.0	0.0	0.0	0.0	-0.0	6.6	6.6
8	399553.10	4947560.40	2.00	0	4000	84.0	84.0	0.0	0.0	68.2	23.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-6.3	-6.3
9	399553.10	4947560.40	2.00	0	8000	70.9	70.9	0.0	0.0	68.2	84.5	-1.6	0.0	0.0	0.0	0.0	-0.0	-80.2	-80.2

Point Source, ISO 9613, Name: "H8T", ID: "H8T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399760.90	4947555.70	2.00	0	32	34.6	34.6	0.0	0.0	69.5	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-29.7	-29.7
2	399760.90	4947555.70	2.00	0	63	53.8	53.8	0.0	0.0	69.5	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-10.5	-10.5
3	399760.90	4947555.70	2.00	0	125	65.9	65.9	0.0	0.0	69.5	0.4	4.1	0.0	0.0	0.0	0.0	-0.0	-8.1	-8.1
4	399760.90	4947555.70	2.00	0	250	68.4	68.4	0.0	0.0	69.5	0.9	3.6	0.0	0.0	0.0	0.0	-0.0	-5.6	-5.6
5	399760.90	4947555.70	2.00	0	500	73.8	73.8	0.0	0.0	69.5	1.6	-0.0	0.0	0.0	0.0	0.0	-0.0	2.7	2.7
6	399760.90	4947555.70	2.00	0	1000	71.0	71.0	0.0	0.0	69.5	3.1	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1
7	399760.90	4947555.70	2.00	0	2000	67.2	67.2	0.0	0.0	69.5	8.2	-1.6	0.0	0.0	0.0	0.0	-0.0	-8.9	-8.9
8	399760.90	4947555.70	2.00	0	4000	62.0	62.0	0.0	0.0	69.5	27.7	-1.6	0.0	0.0	0.0	0.0	-0.0	-33.7	-33.7
9	399760.90	4947555.70	2.00	0	8000	52.9	52.9	0.0	0.0	69.5	98.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-113.9	-113.9

Point Source, ISO 9613, Name: "H8I1", ID: "H8I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399759.60	4947560.40	2.00	0	32	59.6	59.6	0.0	0.0	69.6	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-4.7	-4.7
2	399759.60	4947560.40	2.00	0	63	60.8	60.8	0.0	0.0	69.6	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-3.6	-3.6
3	399759.60	4947560.40	2.00	0	125	67.9	67.9	0.0	0.0	69.6	0.4	4.1	0.0	0.0	0.0	0.0	-0.0	-6.1	-6.1
4	399759.60	4947560.40	2.00	0	250	75.4	75.4	0.0	0.0	69.6	0.9	3.6	0.0	0.0	0.0	0.0	-0.0	1.4	1.4
5	399759.60	4947560.40	2.00	0	500	80.8	80.8	0.0	0.0	69.6	1.6	-0.0	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
6	399759.60	4947560.40	2.00	0	1000	76.0	76.0	0.0	0.0	69.6	3.1	-1.5	0.0	0.0	0.0	0.0	-0.0	4.8	4.8
7	399759.60	4947560.40	2.00	0	2000	80.2	80.2	0.0	0.0	69.6	8.2	-1.6	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
8	399759.60	4947560.40	2.00	0	4000	84.0	84.0	0.0	0.0	69.6	27.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-11.8	-11.8
9	399759.60	4947560.40	2.00	0	8000	70.9	70.9	0.0	0.0	69.6	99.1	-1.6	0.0	0.0	0.0	0.0	-0.0	-96.2	-96.2

Point Source, ISO 9613, Name: "H9T", ID: "H9T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399182.70	4947399.80	2.00	0	32	34.6	34.6	0.0	0.0	64.2	0.0	-4.7	0.0	0.0	0.0	0.0	-0.0	-24.9	-24.9
2	399182.70	4947399.80	2.00	0	63	53.8	53.8	0.0	0.0	64.2	0.1	-4.7	0.0	0.0	0.0	0.0	-0.0	-5.8	-5.8
3	399182.70	4947399.80	2.00	0	125	65.9	65.9	0.0	0.0	64.2	0.2	2.9	0.0	0.0	0.0	0.0	-0.0	-1.4	-1.4
4	399182.70	4947399.80	2.00	0	250	68.4	68.4	0.0	0.0	64.2	0.5	3.8	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1
5	399182.70	4947399.80	2.00	0	500	73.8	73.8	0.0	0.0	64.2	0.9	0.1	0.0	0.0	0.0	0.0	-0.0	8.6	8.6
6	399182.70	4947399.80	2.00	0	1000	71.0	71.0	0.0	0.0	64.2	1.7	-1.3	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
7	399182.70	4947399.80	2.00	0	2000	67.2	67.2	0.0	0.0	64.2	4.4	-1.4	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
8	399182.70	4947399.80	2.00	0	4000	62.0	62.0	0.0	0.0	64.2	15.0	-1.4	0.0	0.0	0.0	0.0	-0.0	-15.8	-15.8
9	399182.70	4947399.80	2.00	0	8000	52.9	52.9	0.0	0.0	64.2	53.5	-1.4	0.0	0.0	0.0	0.0	-0.0	-63.4	-63.4

Point Source, ISO 9613, Name: "H9I1", ID: "H9I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399181.40	4947395.20	2.00	0	32	59.6	59.6	0.0	0.0	64.1	0.0	-4.7	0.0	0.0	0.0	0.0	-0.0	0.2	0.2
2	399181.40	4947395.20	2.00	0	63	60.8	60.8	0.0	0.0	64.1	0.1	-4.7	0.0	0.0	0.0	0.0	-0.0	1.3	1.3
3	399181.40	4947395.20	2.00	0	125	67.9	67.9	0.0	0.0	64.1	0.2	2.8	0.0	0.0	0.0	0.0	-0.0	0.8	0.8
4	399181.40	4947395.20	2.00	0	250	75.4	75.4	0.0	0.0	64.1	0.5	3.8	0.0	0.0	0.0	0.0	-0.0	7.0	7.0
5	399181.40	4947395.20	2.00	0	500	80.8	80.8	0.0	0.0	64.1	0.9	0.1	0.0	0.0	0.0	0.0	-0.0	15.7	15.7
6	399181.40	4947395.20	2.00	0	1000	76.0	76.0	0.0	0.0	64.1	1.7	-1.3	0.0	0.0	0.0	0.0	-0.0	11.5	11.5
7	399181.40	4947395.20	2.00	0	2000	80.2	80.2	0.0	0.0	64.1	4.4	-1.4	0.0	0.0	0.0	0.0	-0.0	13.1	13.1
8	399181.40	4947395.20	2.00	0	4000	84.0	84.0	0.0	0.0	64.1	14.9	-1.4	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
9	399181.40	4947395.20	2.00	0	8000	70.9	70.9	0.0	0.0	64.1	53.0	-1.4	0.0	0.0	0.0	0.0	-0.0	-44.8	-44.8

Point Source, ISO 9613, Name: "H10T", ID: "H10T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399412.80	4947399.80	2.00	0	32	34.6	34.6	0.0	0.0	65.2	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-25.8	-25.8
2	399412.80	4947399.80	2.00	0	63	53.8	53.8	0.0	0.0	65.2	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-6.6	-6.6
3	399412.80	4947399.80	2.00	0	125	65.9	65.9	0.0	0.0	65.2	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	-2.6	-2.6
4	399412.80	4947399.80	2.00	0	250	68.4	68.4	0.0	0.0	65.2	0.5	3.7	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
5	399412.80	4947399.80	2.00	0	500	73.8	73.8	0.0	0.0	65.2	1.0	0.1	0.0	0.0	0.0	0.0	-0.0	7.5	7.5
6	399412.80	4947399.80	2.00	0	1000	71.0	71.0	0.0	0.0	65.2	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	5.3	5.3
7	399412.80	4947399.80	2.00	0	2000	67.2	67.2	0.0	0.0	65.2	5.0	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.5	-1.5
8	399412.80	4947399.80	2.00	0	4000	62.0	62.0	0.0	0.0	65.2	16.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-18.6	-18.6
9	399412.80	4947399.80	2.00	0	8000	52.9	52.9	0.0	0.0	65.2	60.1	-1.5	0.0	0.0	0.0	0.0	-0.0	-70.9	-70.9

Point Source, ISO 9613, Name: "H10I1", ID: "H10I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399411.50	4947395.20	2.00	0	32	59.6	59.6	0.0	0.0	65.1	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-0.7	-0.7
2	399411.50	4947395.20	2.00	0	63	60.8	60.8	0.0	0.0	65.1	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	0.5	0.5
3	399411.50	4947395.20	2.00	0	125	67.9	67.9	0.0	0.0	65.1	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	-0.5	-0.5
4	399411.50	4947395.20	2.00	0	250	75.4	75.4	0.0	0.0	65.1	0.5	3.7	0.0	0.0	0.0	0.0	-0.0	6.0	6.0
5	399411.50	4947395.20	2.00	0	500	80.8	80.8	0.0	0.0	65.1	1.0	0.1	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
6	399411.50	4947395.20	2.00	0	1000	76.0	76.0	0.0	0.0	65.1	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	10.4	10.4
7	399411.50	4947395.20	2.00	0	2000	80.2	80.2	0.0	0.0	65.1	4.9	-1.5	0.0	0.0	0.0	0.0	-0.0	11.6	11.6
8	399411.50	4947395.20	2.00	0	4000	84.0	84.0	0.0	0.0	65.1	16.7	-1.5	0.0	0.0	0.0	0.0	-0.0	3.6	3.6
9	399411.50	4947395.20	2.00	0	8000	70.9	70.9	0.0	0.0	65.1	59.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-52.3	-52.3

Point Source, ISO 9613, Name: "ST", ID: "ST"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	399112.20	4947187.70	3.80	0	32	49.6	49.6	0.0	0.0	59.1	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	-6.5	-6.5
2	399112.20	4947187.70	3.80	0	63	68.8	68.8	0.0	0.0	59.1	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	12.7	12.7
3	399112.20	4947187.70	3.80	0	125	80.9	80.9	0.0	0.0	59.1	0.1	3.1	0.0	0.0	0.0	0.0	-0.0	18.5	18.5
4	399112.20	4947187.70	3.80	0	250	83.4	83.4	0.0	0.0	59.1	0.3	1.7	0.0	0.0	0.0	0.0	-0.0	22.3	22.3
5	399112.20	4947187.70	3.80	0	500	88.8	88.8	0.0	0.0	59.1	0.5	-0.9	0.0	0.0	0.0	0.0	-0.0	30.1	30.1
6	399112.20	4947187.70	3.80	0	1000	86.0	86.0	0.0	0.0	59.1	0.9	-0.9	0.0	0.0	0.0	0.0	-0.0	26.9	26.9
7	399112.20	4947187.70	3.80	0	2000	82.2	82.2	0.0	0.0	59.1	2.5	-0.9	0.0	0.0	0.0	0.0	-0.0	21.5	21.5
8	399112.20	4947187.70	3.80	0	4000	77.0	77.0	0.0	0.0	59.1	8.3	-0.9	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
9	399112.20	4947187.70	3.80	0	8000	67.9	67.9	0.0	0.0	59.1	29.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-20.1	-20.1

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