

EXHIBIT 6

2016

Transient Operation Noise Level Evaluation for the Clear River Energy Center



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Abbreviations

ACC	Air Cooled Condenser
ACHE	Air Cooled Heat Exchanger
ANSI	American National Standards Institute
Aux	Auxiliary
BCS	Burrillville Compressor Station
CREC	Clear River Energy Center
CT	Combustion Turbine
dB	Decibels
dBA	Decibels, A-Weighted
EEl	Edison Electric Institute
EFSB	Energy Facility Siting Board
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction
Facility	Clear River Energy Center
FD	Forced Draft
GE	General Electric
GSU	Generator Step-Up
HRSG	Heat Recovery Steam Generator
HVAC	Heating, Ventilation and Air Conditioning
Hz	Hertz
Invenergy	Invenergy, LLC
ISO	International Organization for Standardization
L _{AEQ}	Equivalent Energy Level, A-Weighted
L _p	Sound Pressure Level
L _w	Sound Power Level
mbar	Millibars
MTA	Michael Theriault Acoustics, Inc.
MW	Megawatt
NED	National Elevation Dataset
NSA	Noise Sensitive Area
PWL	Sound Power Level
SCR	Selective Catalytic Reduction
SPL	Sound Pressure Level
STC	Sound Transmission Class
STG	Steam Turbine Generator
USGS	United States Geological Survey

1.0 Executive Summary

Invenergy, LLC (Invenergy) is proposing to construct and operate the Clear River Energy Center (CREC), a nominal 900 to 1,000-megawatt combined-cycle, natural gas-fired electrical power generation facility (Facility) designed for baseload operation and sited in the Town of Burrillville, Providence County, Rhode Island.

Noise generated by the CREC during ‘transient’ operations, which include startup (rapid response hot/cold startup), typical shutdown, emergency steam release, and emergency shutdown have the potential to impact residences located near the Facility. This report describes the evaluation of community noise levels conducted for these operations and supplements the evaluation of noise from baseload operations that was described in MTA Report No. 1955 *Noise Level Evaluation for the Clear River Energy Center (October 2015)*. The latter report provides general information on noise, and details regarding applicable noise standards, existing ambient noise levels, construction noise, noise level prediction methodology, and noise from baseload CREC operations. Note that noise levels during fuel oil operation were also analyzed, but found to be identical to those during gas operations and are therefore not discussed further herein.

Noise produced during operation of the CREC must conform to levels approved by the Rhode Island Energy Facilities Siting Board (EFSB). The Town of Burrillville also has a performance standard, as established in their Code of Ordinances, which generally limits both broadband (A-weighted) and octave-band Facility noise levels at nearby residences to an equivalent level of 43 dBA. The Burrillville noise code does not distinguish between baseload and transient operations. Burrillville’s Code, however, exempts itself where “The facility generating the noise has been granted a permit or license by a federal and/or state agency and the authorization to operate within set noise limits”. CREC permitting is governed by the EFSB. Nonetheless, Invenergy examined the design approaches needed to comply with the ordinance’s broadband limit of 43 dBA during transient operations.

Typical startup and shutdown operations are projected to occur as often as once per day and lasting from 10 to 30 minutes per occurrence. Emergency steam release and emergency shutdown operations are expected to occur rarely (e.g. once per year). Note that emergency operations are exempt from the Town’s code per Section 16-35. Nonetheless, noise from these operations was analyzed and will be controlled as described herein.

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As shown in Figure 2, the nearest noise sensitive areas (NSAs) to the CREC are: (1) residences along Wallum Lake Road to the northeast, (2) residences along Jackson Schoolhouse Road to the east and southeast, (3) residences in the Doe Crossing Drive area to the west, (4) residences along Buck Hill Road to the north, and (5) residences further south along Jackson Schoolhouse Road.

A three-dimensional, computer-generated acoustical model of CREC transient operations was developed in order to predict noise levels at the NSAs and identify any need for additional mitigation measures. Transient operations differ from baseload operations in that the following additional equipment will be active:

- Typical startup: auxiliary boiler with forced draft fans, 30% to 60% steam bypass into ACC duct, steam bypass valve throttled, steam turbine stop valves throttled, auxiliary boiler startup vent open, auxiliary boiler blowdown tank, HRSG blowdown tanks, and steam turbine drains tank.
- Typical shutdown: same as typical startup, with the exception of lower levels of noise produced in the ACC duct.
- Emergency shutdown: same as typical shutdown except higher levels of ACC duct noise, and one safety release vent open.
- Emergency steam release: one safety release vent open.

Analysis results show that given the proposed acoustical design of the Facility, CREC noise levels during typical startup are expected to range from about 38 to 46 dBA at nearby residences. CREC noise levels during typical shutdown are expected to range from about 36 dBA to 45 dBA. Note that these levels are those expected during favorable sound propagation conditions, including residences being downwind of the Facility with a moderate temperature inversion present. Noise levels will be anywhere from a few dB to more than 10 dB quieter under less favorable conditions.

The predicted maximum levels, while slightly higher than the Town's 43 dBA limit, are appreciably lower than many limits found in laws, ordinances, regulations and standards promulgated throughout the U.S. for the control of industrial noise at residential land uses. Moreover, CREC transient noise levels are consistent with: (1) outdoor noise level

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guidelines historically recommended by acoustical consultants; (2) criteria for the avoidance of speech interference both outdoors and indoors; (3) criteria for the avoidance of sleep disturbance; and (4) criteria for avoidance of low-frequency noise impacts. Finally, although existing ambient noise levels for some receivers may increase during CREC transient operations, the overall magnitude and duration of CREC noise is not expected to result in significant community noise impact. Finally, the maximum predicted CREC transient noise level of 46 dBA at M1 is 4 dB lower than current Burrillville Compressor Station full-load noise levels (50 dBA at M1).

Noise levels during emergency shutdown operations are expected to range from 41 to 50 dBA at the nearest NSAs. Noise levels during an emergency steam release are expected to range from 38 to 49 dBA. While higher levels are associated with these particular transient operations, they are expected to rarely occur, and are exempt from the Burrillville ordinance.

In order to achieve these results the design of the CREC must incorporate extensive noise mitigation measures, including: installation of the combustion turbines and steam turbines within buildings; high-performance silencers installed within the air intake ductwork of the combustion turbines to reduce high-frequency (spectral) compressor and turbine blade aerodynamic noise; silencers installed on fans providing ventilation air for the combustion turbine enclosure compartments; low-noise air cooled condensers and air cooled heat exchangers; combustion turbine exhaust noise attenuated via the SCR/HRSG units and high-performance exhaust stack silencers; auxiliary boiler FD fan intake silencer banks; low-noise GSU transformers; thickened plating on the HRSG boilers and transition ducts; buildings enclosing the auxiliary boiler, gas compressors, boiler feed water pumps and water treatment equipment; acoustical enclosures over the duct burner skids; acoustically louvered ventilation openings for the auxiliary boiler and generation buildings; the installation of a low-noise steam bypass system including low-noise valves and steam discharge stack resistors (disk stack); silencers on startup vents, blowdown and drains tank vents; and silencers on safety release vents.

2.0 Author Qualifications

This report was co-authored by John Orgar, Michael Hankard, and Michael D. Theriault of Michael Theriault Acoustics, Inc. (MTA). Since 1998, MTA has provided environmental noise control consulting services to the North American electric power industry, including preparation of noise impact studies for owners and developers; implementation of large-scale noise control programs for architectural engineering firms; noise level compliance testing for constructors; and noise control due diligence reviews for municipalities and financial underwriters. MTA has advised clients on hundreds of energy facilities, ranging in size from one to 2,000 megawatts, many from conceptual design through final testing, using combustion turbine, wind turbine, biomass, and conventional fossil-fueled technologies.

3.0 State and Local Noise Level Performance Standards

Noise produced during operation of the CREC must conform to levels acceptable to the Rhode Island Energy Facilities Siting Board, (EFSB). The Town of Burrillville, through their Code of Ordinances, generally limits both broadband (A-weighted) and octave-band Facility noise levels at nearby residences to an equivalent level of 43 dBA. The Burrillville noise code does not distinguish between baseline and transient operations. Burrillville's Code however, is not applicable in instances where "The facility generating the noise has been granted a permit or license by a federal and/or state agency and the authorization to operate within set noise limits". In the case of the CREC, permitting is governed by the EFSB. Nonetheless, Invenenergy examined the design approaches needed to comply with the ordinance's broadband limit of 43 dBA during transient operations.

4.0 Description of Study Area

The proposed Facility is located in the Town of Burrillville, Rhode Island, which, as shown in Figure 1, is located in the northwest corner of the state. The Facility is sited on a parcel of undeveloped land on the southwest side of Wallum Lake Road (State Highway 100), four miles west of the center of town, as shown in Figure 2. The undeveloped parcel is adjacent to and south of the existing Burrillville Compressor Station (BCS). Neighboring land in all other directions is heavily forested. Land use is primarily rural residential, and recreational due to some nearby state owned land and small lakes. There is a significant amount of foliage/trees between the site and surrounding residences.

NSAs potentially exposed to sound level increases as a result of the proposed Facility are the focus of this noise level evaluation. NSAs are associated with indoor and/or outdoor activities that may be subject to interference from noise and include residential dwellings, hotels, hospitals, care facilities, educational facilities, places of worship and libraries. Industrial, commercial, and agricultural land uses are generally not considered sensitive to noise. The nearest NSAs to the proposed Facility are located in five general areas, as shown in Figure 2: (1) residences along both sides of Wallum Lake Road to the northeast, (2) residences along Jackson Schoolhouse Road to the east and southeast, (3) residences in the Doe Crossing Drive area to the west, (4) residences on both sides of Buck Hill Road to the north, and (5) residences further south along Jackson Schoolhouse Road.

5.0 Noise Level Prediction Methodology

An evaluation was conducted to examine the potential for transient operation of the CREC to subject sensitive land uses (e.g., residences) to interference from noise, using methodology similar to the evaluation of full load operational noise in our previous report.¹ A detailed description of the CREC facility and specific equipment can be found therein.

Transient Operation Noise Level Modeling. A three-dimensional, computer-generated acoustical model of the CREC was developed using SoundPLAN® 7.4 and industry-standard prediction algorithms to estimate noise levels at the nearest off-site receivers. SoundPLAN® 7.4 is a computer-based acoustical analysis package specially designed for predicting environmental noise levels from industrial operations and activities.² Modeling was based on the equipment shown in the plot plan in Figure 3, and assumed that all equipment associated with baseload operation would be in service in addition to equipment associated with each transient operation.

Acoustical Modeling Parameters. Acoustical modeling was based on ISO 9613-2, “Attenuation of Sound during Propagation Outdoors,” adopted by the International Standards Organization (ISO) in 1996 (updated 2012). This standard provides a widely

1 - MTA Report No. 1955, *Noise Level Evaluation for the Clear River Energy Center* (October 2015).

2 - SoundPLAN® – Braunstein + Berndt GmbH, Acoustical Modeling Software, Version 7.4, (1986-2016).

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accepted method for predicting environmental (outdoor) sound levels from sources of known emission.

Model Accuracy. ISO 9613 predictions are expected to agree with field measurements within a ± 3 -decibel range out to a distance of 1,000 meters for the meteorological and environmental conditions described. As such, noise levels presented in this analysis represent a 'best estimate' of noise emissions likely to be observed in the field during favorable sound propagation conditions.

Transient Operations and Equipment. Transient operations include typical startup and shutdown operations, which are projected to occur as often as once per day and lasting 10 to 30 minutes per occurrence. Emergency steam release and emergency shutdown operations, which are expected to occur rarely (e.g. once per year) are considered exempt from the Town's code per Section 16-35. Nonetheless, noise from these operations will be controlled as described herein. The analysis assumed the following operating conditions for each transient mode, in addition to all of the equipment that would be active during baseload operation:

- **Typical Startup:** Auxiliary boiler with boiler forced draft fans, 30 to 60% steam bypass into ACC duct, steam bypass valves throttled (HRH and LP bypass lines), steam turbine stop valves throttled, auxiliary boiler startup vent open, auxiliary boiler blowdown tank, HRSG blowdown tanks, and steam turbine drains tank.
- **Typical Shutdown:** Same as typical startup, with the exception of lower levels of noise produced in the ACC duct.
- **Emergency Shutdown:** Same as typical shutdown except levels of ACC duct noise louder than startup, and one safety release vent open.
- **Emergency Steam Release:** One safety release vent open.

Sound power levels (PWL) for all major pieces of equipment (e.g., power generation buildings, auxiliary boiler building, HRSGs, air cooled condensers, transformers, ACC ducts, bypass ducts, startup vents, blowdown tanks, etc.) were estimated using octave-band data from manufacturers, in-house measurement data, and data from industry-standard

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prediction algorithms.³ A summary of modeled components and their corresponding noise levels during normal full operation can be found in our previous noise level evaluation report. Tables 1 through 4 summarize additional modeled components and their corresponding noise levels during each transient operating mode. Note, these levels represent free-field conditions, include proposed acoustical design elements, and represent best estimates of actual levels likely to be observed in the field.

Component power levels were adjusted for the reduction of sound by distance (*geometrical spreading*); the molecular absorption of sound by air (*air absorption*); and the absorption and reflection of sound by the ground (*ground effect*). Sound levels were further modified by the effects of shielding (i.e., via buildings, tanks, equipment, topography, etc.) and by changes in source levels with direction (*directivity*) to estimate off-site receiver noise levels. The model included noise mitigation typically provided as 'standard' by equipment manufacturers, as well as buildings and/or enclosures primarily intended for weather protection, but which also serve to further attenuate equipment noise (see *Acoustical Design in Section 6.0*). Figure 4 provides a three-dimensional perspective view of the CREC acoustical model.

Table 1: Component Noise Levels During Typical Startup		
Equipment Description	Noise Level (dBA)	PWL/SPL
ACC Main Horizontal Ducts	82	SPL at 3 feet
ACC Riser Ducts	72	SPL at 3 feet
ACC Finger Ducts	62	SPL at 3 feet
Auxiliary Boiler Blowdown Tank Vent	95	SPL at 3 feet
Auxiliary Boiler Building – At Interior Wall	95	SPL at 3 feet
Auxiliary Boiler Forced Draft Fan	100	PWL
Auxiliary Boiler Startup Vent	95	SPL at 3 feet
Combustion Turbine Buildings – At Interior Wall	92	SPL at 3 feet
HRH Steam Bypass Ducts	79	SPL at 3 feet
HRSG Blowdown Tank Vents	95	SPL at 3 feet
LP Steam Bypass Ducts	78	SPL at 3 feet
Steam Turbine Buildings – At Interior Wall	92	SPL at 3 feet
Steam Turbine Drains Tank Vent	95	SPL at 3 feet

3 - *Electric Power Plant Environmental Noise Guide*, Edison Electric Institute, Bolt, Beranek and Newman, Inc. Report No. 3637, 1978.

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Table 2: Component Noise Levels During Typical Shutdown		
Equipment Description	Noise Level (dBA)	PWL/SPL
ACC Main Horizontal Ducts	72	SPL at 3 feet
ACC Riser Ducts	62	SPL at 3 feet
ACC Finger Ducts	52	SPL at 3 feet
Auxiliary Boiler Blowdown Tank Vent	95	SPL at 3 feet
Auxiliary Boiler Building – At Interior Wall	95	SPL at 3 feet
Auxiliary Boiler Forced Draft Fan	100	PWL
Auxiliary Boiler Startup Vent	95	SPL at 3 feet
Combustion Turbine Buildings – At Interior Wall	92	SPL at 3 feet
HRH Steam Bypass Ducts	69	SPL at 3 feet
HRSB Blowdown Tank Vents	95	SPL at 3 feet
LP Steam Bypass Ducts	68	SPL at 3 feet
Steam Turbine Buildings – At Interior Wall	92	SPL at 3 feet
Steam Turbine Drains Tank Vent	95	SPL at 3 feet

Table 3: Component Noise Levels as Modeled During Emergency Shutdown		
Equipment Description	Noise Level (dBA)	PWL/SPL
ACC Main Horizontal Ducts	86	SPL at 3 feet
ACC Riser Ducts	76	SPL at 3 feet
ACC Finger Ducts	66	SPL at 3 feet
Auxiliary Boiler Blowdown Tank Vent	95	SPL at 3 feet
Auxiliary Boiler Building – At Interior Wall	95	SPL at 3 feet
Auxiliary Boiler Forced Draft Fan	100	PWL
Auxiliary Boiler Startup Vent	95	SPL at 3 feet
Combustion Turbine Buildings – At Interior Wall	92	SPL at 3 feet
HRH Steam Bypass Ducts	85	SPL at 3 feet
HRSB Blowdown Tank Vents	95	SPL at 3 feet
LP Steam Bypass Ducts	80	SPL at 3 feet
Safety Relief Vent	110	SPL at 3 feet
Steam Turbine Buildings – At Interior Wall	92	SPL at 3 feet
Steam Turbine Drains Tank Vent	95	SPL at 3 feet

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Table 4: Component Noise Levels as Modeled During Emergency Steam Release		
Equipment Description	Noise Level (dBA)	PWL/SPL
Safety Relief Vent	110	SPL at 3 feet

6.0 Transient Operation Noise Level Modeling Results

For typical startup and shutdown operations, and assuming the implementation of the proposed acoustical design of the CREC, Facility noise levels under favorable sound propagation conditions are expected to range from about 36 dBA to 46 dBA at nearby residential properties. During emergency conditions, including steam releases and emergency shutdown, Facility noise levels are expected to range from about 38 dBA to 50 dBA at nearby residential properties. The following sections provide additional details for each operating mode. Modeling results are also presented as a series of noise level contours in Figures 5 through 8, and a detailed set of modeling calculations for each operating mode can be found in Appendix N1 (*Transient Operation Noise Modeling Results*).

Typical Startup. As shown in Table 5, Facility noise levels during typical startup operation (rapid response hot/cold startup) are expected to range from about 38 dBA to 46 dBA at nearby residential properties.

Table 5: CREC Noise Levels Using Proposed Acoustical Design: Typical Startup		
Location	Direction from Site/Description	CREC Noise Level*
M1	Northeast – Single family houses along Wallum Lake Road	46
M2	East – Single family houses along Jackson Schoolhouse Road	46
M3	West – Single family houses along Wilson Trail and Doe Crossing Drive	41
M4	North – Single family houses along Buck Hill Road	42
M5	South – Single family houses along Jackson Schoolhouse Road	38
*L _{AEQ} , rounded to the nearest whole decibel		

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Typical Shutdown. As shown in Table 6, Facility noise levels during typical shutdown operation are expected to range from about 36 dBA to 45 dBA at nearby residential properties.

Table 6: CREC Noise Levels Using Proposed Acoustical Design: Typical Shutdown		
Location	Direction from Site/Description	CREC Noise Level*
M1	Northeast – Single family houses along Wallum Lake Road	45
M2	East – Single family houses along Jackson Schoolhouse Road	43
M3	West – Single family houses along Wilson Trail and Doe Crossing Drive	41
M4	North – Single family houses along Buck Hill Road	41
M5	South – Single family houses along Jackson Schoolhouse Road	36
*L _{AEQ} , rounded to the nearest whole decibel		

Emergency Shutdown. As shown in Table 7, Facility noise levels during emergency shutdown are expected to range from about 41 dBA to 50 dBA at nearby residential properties.

Table 7: CREC Noise Levels Using Proposed Acoustical Design: Emergency Shutdown		
Location	Direction from Site/Description	CREC Noise Level*
M1	Northeast – Single family houses along Wallum Lake Road	50
M2	East – Single family houses along Jackson Schoolhouse Road	50
M3	West – Single family houses along Wilson Trail and Doe Crossing Drive	45
M4	North – Single family houses along Buck Hill Road	44
M5	South – Single family houses along Jackson Schoolhouse Road	41
*L _{AEQ} , rounded to the nearest whole decibel		

Emergency Steam Release. As shown in Table 8, Facility noise levels during emergency steam release are expected to range from about 38 dBA to 49 dBA at nearby residential properties.

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Table 8: CREC Noise Levels Using Proposed Acoustical Design: Emergency Steam Release		
Location	Direction from Site/Description	CREC Noise Level*
M1	Northeast – Single family houses along Wallum Lake Road	49
M2	East – Single family houses along Jackson Schoolhouse Road	46
M3	West – Single family houses along Wilson Trail and Doe Crossing Drive	43
M4	North – Single family houses along Buck Hill Road	43
M5	South – Single family houses along Jackson Schoolhouse Road	38
*L _{AEQ} , rounded to the nearest whole decibel		

Acoustical Design. Table 9 summarizes the noise mitigation measures that must be included in the design of the CREC in order to achieve the relatively low levels of noise described above. These measures are extensive, and include placing the combustion turbines and steam turbines within buildings; high-performance silencers installed within the air intake ductwork of the combustion turbines to reduce high-frequency (spectral) compressor and turbine blade aerodynamic noise; silencers installed on fans providing ventilation air for the combustion turbine enclosure compartments; low-noise air cooled condensers and air cooled heat exchangers; combustion turbine exhaust noise attenuated via the SCR/HRSG units and high-performance exhaust stack silencers; auxiliary boiler FD fan intake silencer banks; low-noise GSU transformers; thickened plating on the HRSG boilers and transition ducts; buildings enclosing the auxiliary boiler, gas compressors, boiler feed water pumps and water treatment equipment; acoustical enclosures over the duct burner skids; acoustically louvered ventilation openings for the auxiliary boiler and generation buildings; the installation of a low-noise steam bypass system including low-noise valves and steam discharge stack resistors (disk stack); silencers on startup vents, blowdown and drains tank vents; and silencers on safety release vents.

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Table 9: Proposed Acoustical Design	
Equipment Item	Control
Air Cooled Condenser	Low-Noise Design
Air Cooled Heat Exchanger	Low-Noise Design
Auxiliary Boiler	Enclosed within a Building
Auxiliary Boiler FD Fan Intake	High-Performance Duct Silencer Banks
Auxiliary Boiler Louvered Ventilation Openings	Acoustical Louvers
Auxiliary Boiler Startup Vent and Blowdown Tank	Vent Silencers
Combustion Turbine Air Intakes	High-Performance Air Intake Silencers
Combustion Turbine	Enclosed within a Building
Combustion Turbine Ventilation	Ventilation System Silencers
Combustion Turbine Exhausts	Exhaust Mitigated via SCR/HRSGs and High-Performance Exhaust Stack Silencers
Duct Burner Skids	Acoustical Enclosures
Fuel Gas Compressors	Enclosed within a Building
Generation Building Louvered Ventilation Openings	Acoustical Louvers
GSU Transformers	Low-Noise Design
HRSG Blowdown Tanks	Vent Silencers
HRSG Boiler Feedwater Pumps	Enclosed within a Building
HRSG Boilers and Transition Ducts	Thickened Plating
Steam Safety Release Vents	Vent Silencers
Steam-Turbine	Enclosed within a Building
Steam Turbine Bypass System	Low-Noise Valves and Steam Discharge Stack Resistors
Steam Turbine Drains Tank	Vent Silencers
Water Treatment Equipment	Enclosed within a Building

7.0 Transient Operation Noise Impact Analysis

Analysis results show that given the proposed acoustical design of the Facility, CREC noise levels during typical startup and typical shutdown operations under favorable sound propagation conditions are expected to range from about 36 to 46 dBA at nearby residences. These levels, while slightly higher than the Town's 43 dBA limit, will be short in duration, anywhere from 10 to 30 minutes per occurrence, and are appreciably lower than many limits found in laws, ordinances, regulations and standards promulgated throughout the U.S. for the control of industrial noise at residential land uses.

Moreover, CREC levels are consistent with: (1) outdoor noise level guidelines historically recommended by acoustical consultants; (2) criteria for the avoidance of speech interference both outdoors and indoors; (3) criteria for the avoidance of sleep disturbance; and (4) criteria for avoidance of low-frequency noise impacts. Finally, although existing ambient noise levels for some receivers may increase during CREC transient operations, the overall magnitude and duration of noise is not expected to result in significant community noise impact.

Finally, the maximum predicted CREC transient noise level of 46 dBA at M1 is 4 decibels lower than existing Burrillville Compressor Station full-load noise levels at M1 (50 dBA).⁴

4 - Burrillville Compressor Station, (Providence County, Rhode Island), Results of a Pre-Construction Sound Survey and an Acoustical Analysis of Station Modifications Associated with the Proposed Algonquin Incremental Market ("AIM") Project, H&K Report No. 2976, H&K Job No. 4664, February 2014).

8.0 References

BL - Berglund, B., and Lindvall, T (Eds.), 1995, Community Noise, Archives of the Center for Sensory Research.

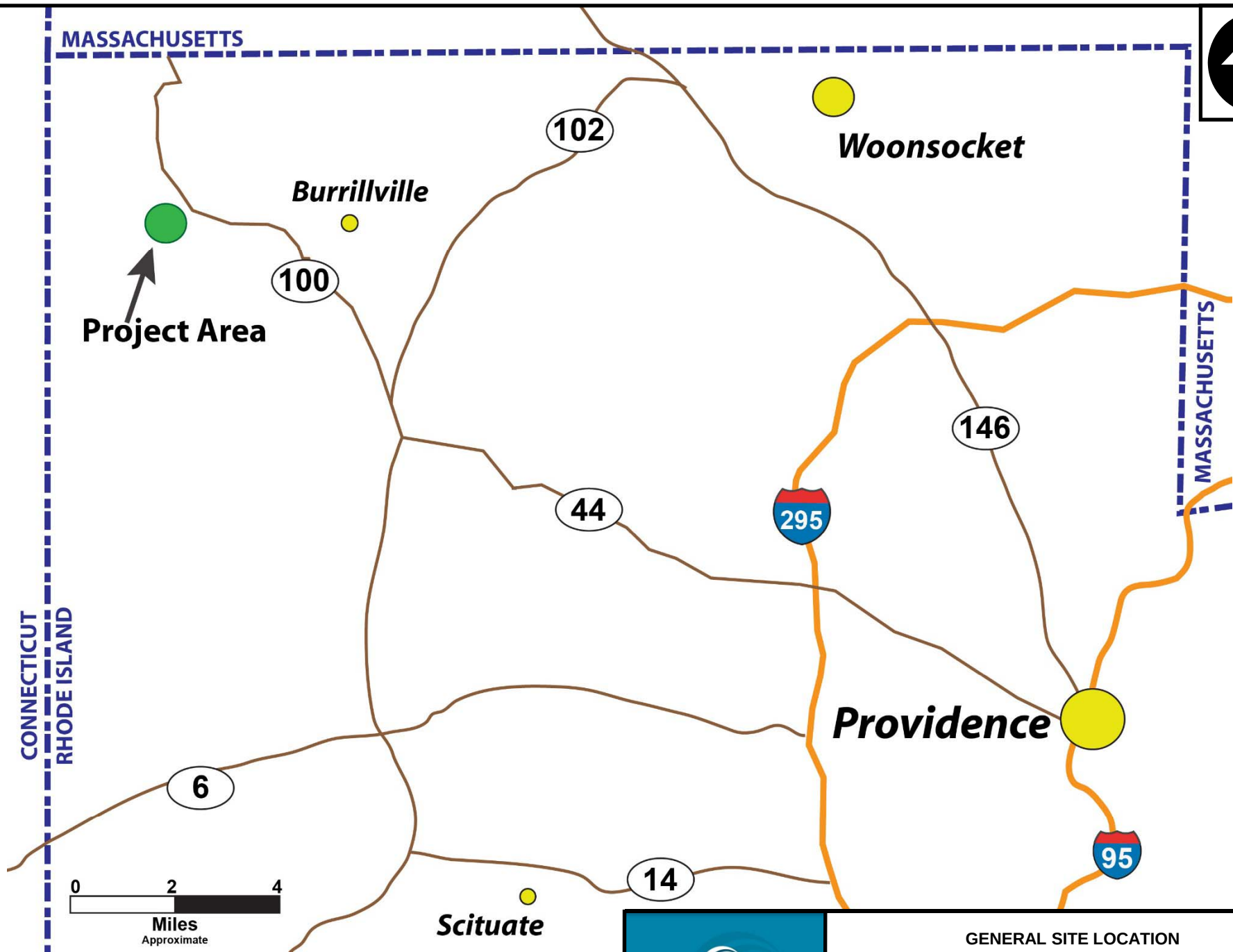
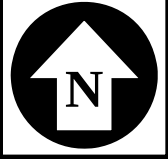
EI - Edison Electric Institute, 1978, Electric Power Plant Environmental Noise Guide.

Hoover and Keith Report No. 2976, H&K Job No. 4664, February 2014.

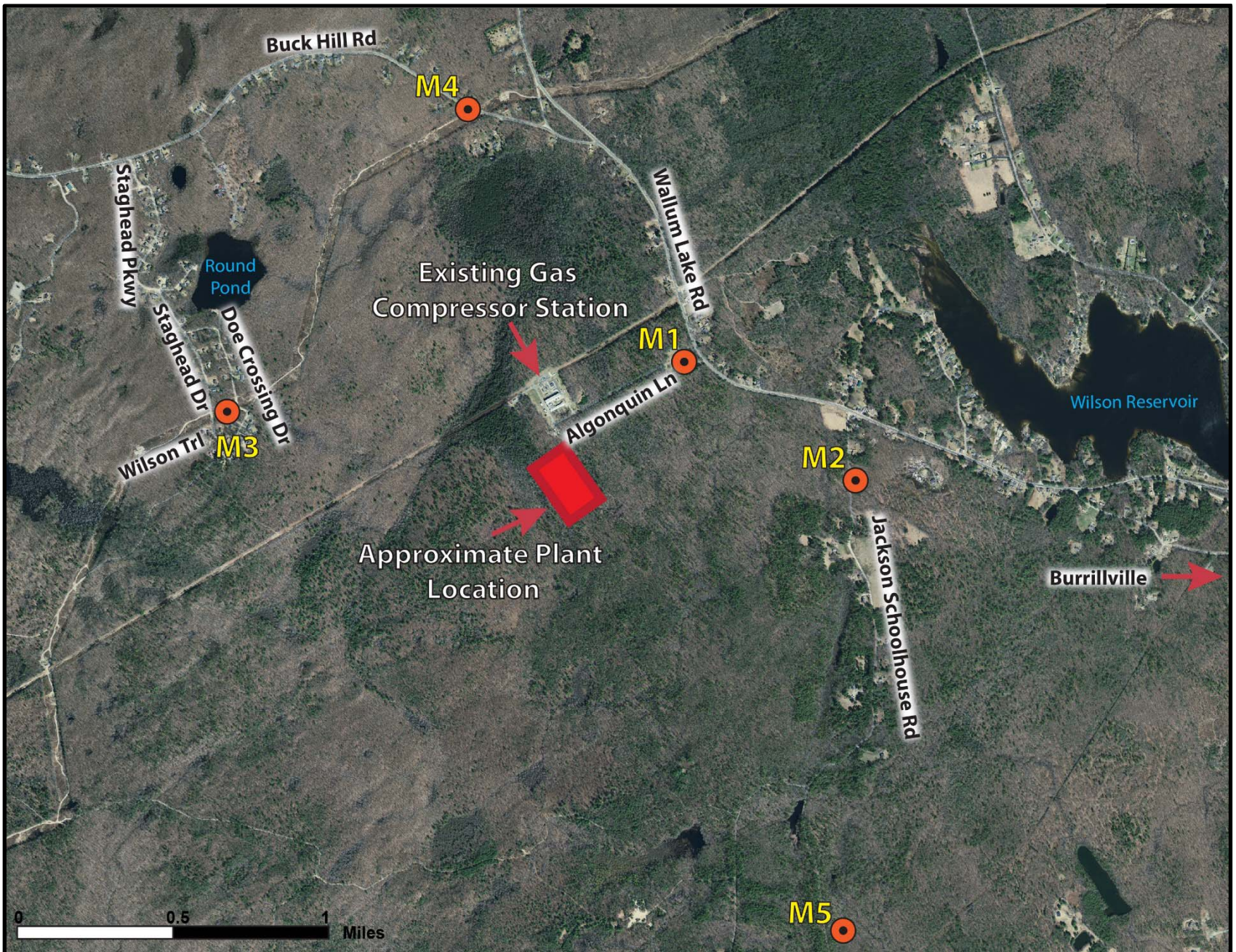
Noise Level Evaluation for the Clear River Energy Center, MTA, October 2015 (Report No. 1955).

SoundPLAN® – Braunstein + Berndt GmbH, Acoustical Modeling Software, Version 7.4, (1986-2016).

WHO - World Health Organization (WHO) 1999. Guidelines for Community Noise. World Health Organization, Geneva, Switzerland.



GENERAL SITE LOCATION	
CLEAR RIVER ENERGY CENTER BURRILLVILLE, RHODE ISLAND	
FIGURE 1	PROJECT NO. 1956



NOISE SENSITIVE AREAS

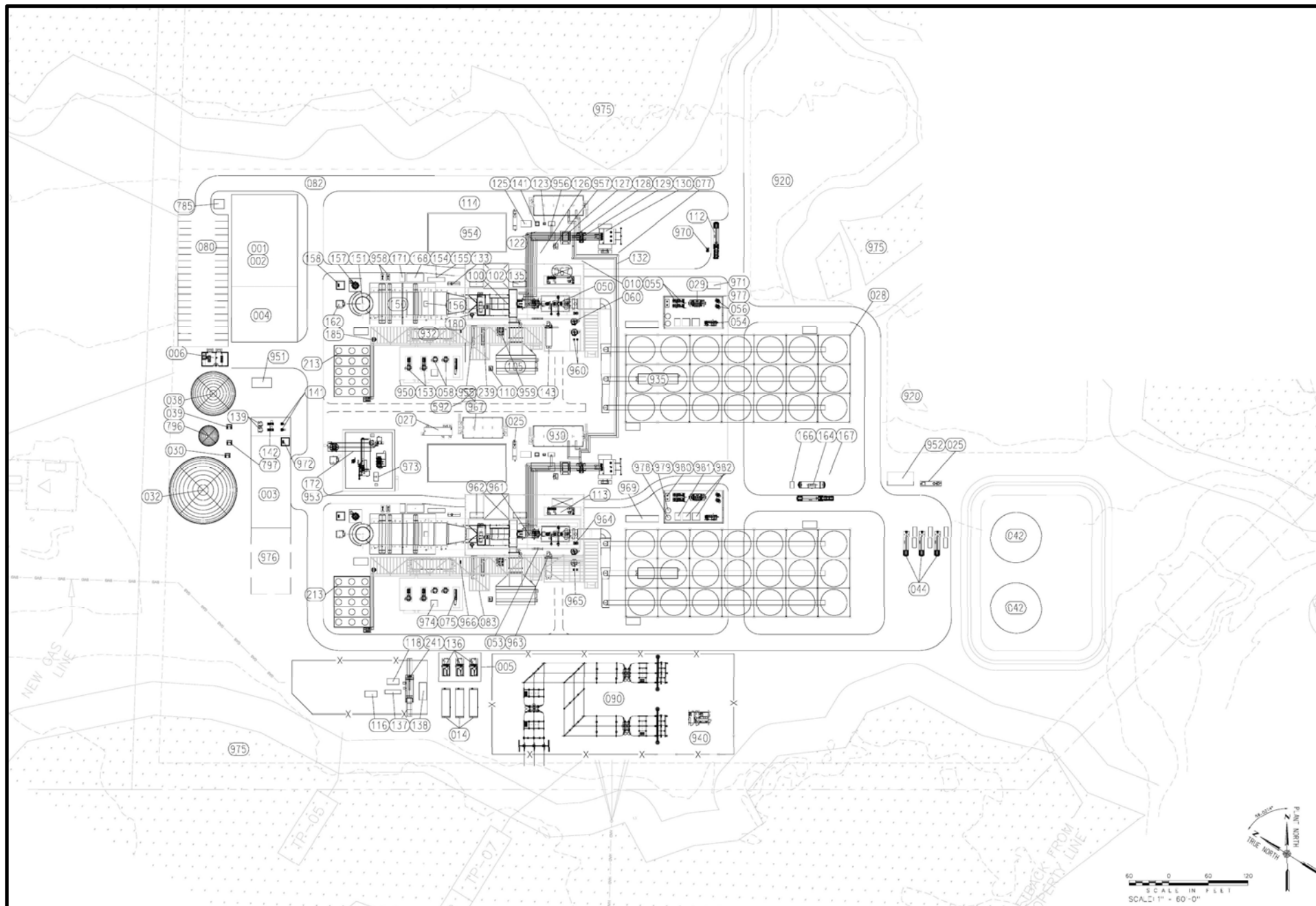
CLEAR RIVER ENERGY CENTER
BURRILLVILLE, RHODE ISLAND

FIGURE 2

PROJECT NO. 1956



Michael Theriault
ACOUSTICS, INC.
NOISE CONTROL CONSULTING SERVICES

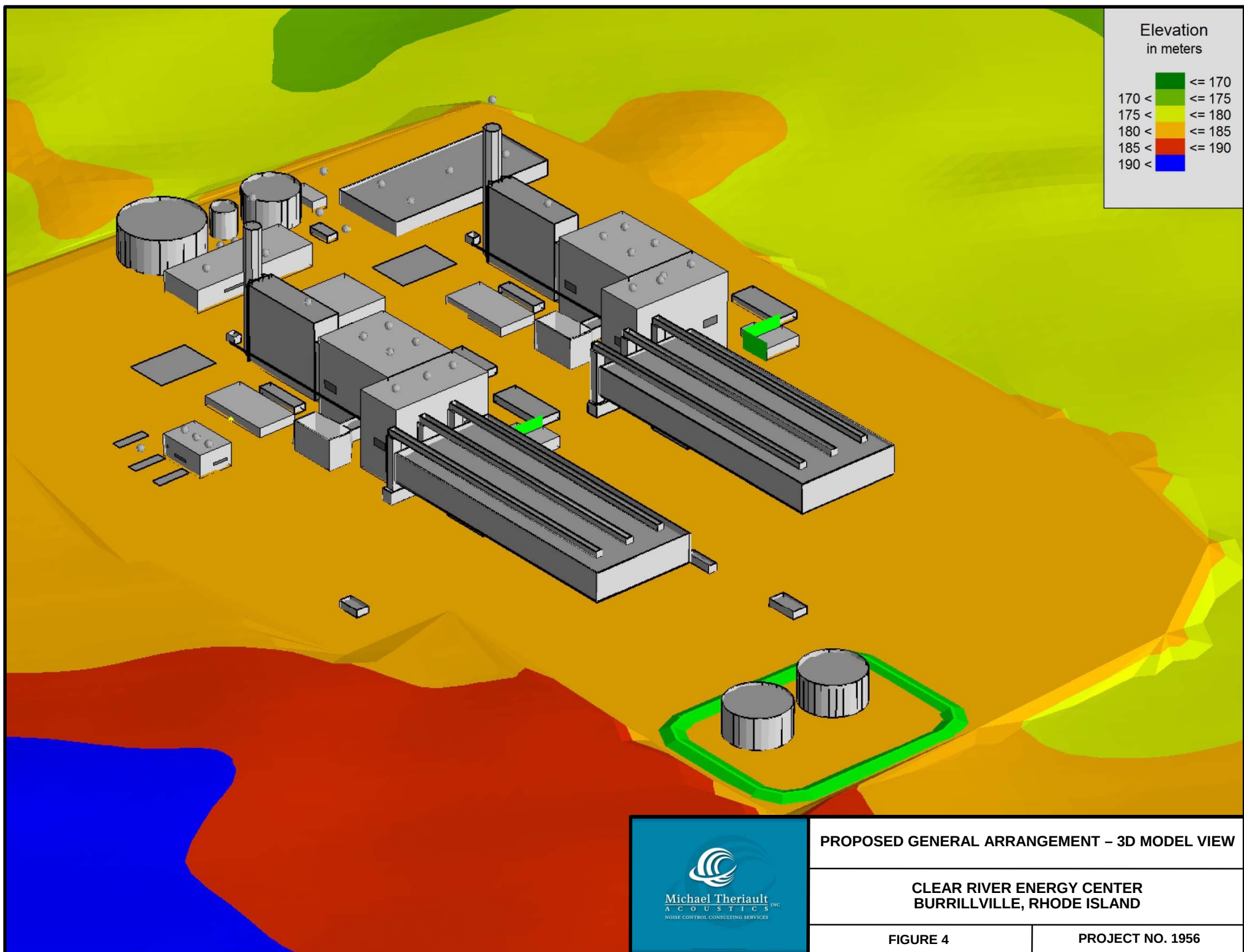


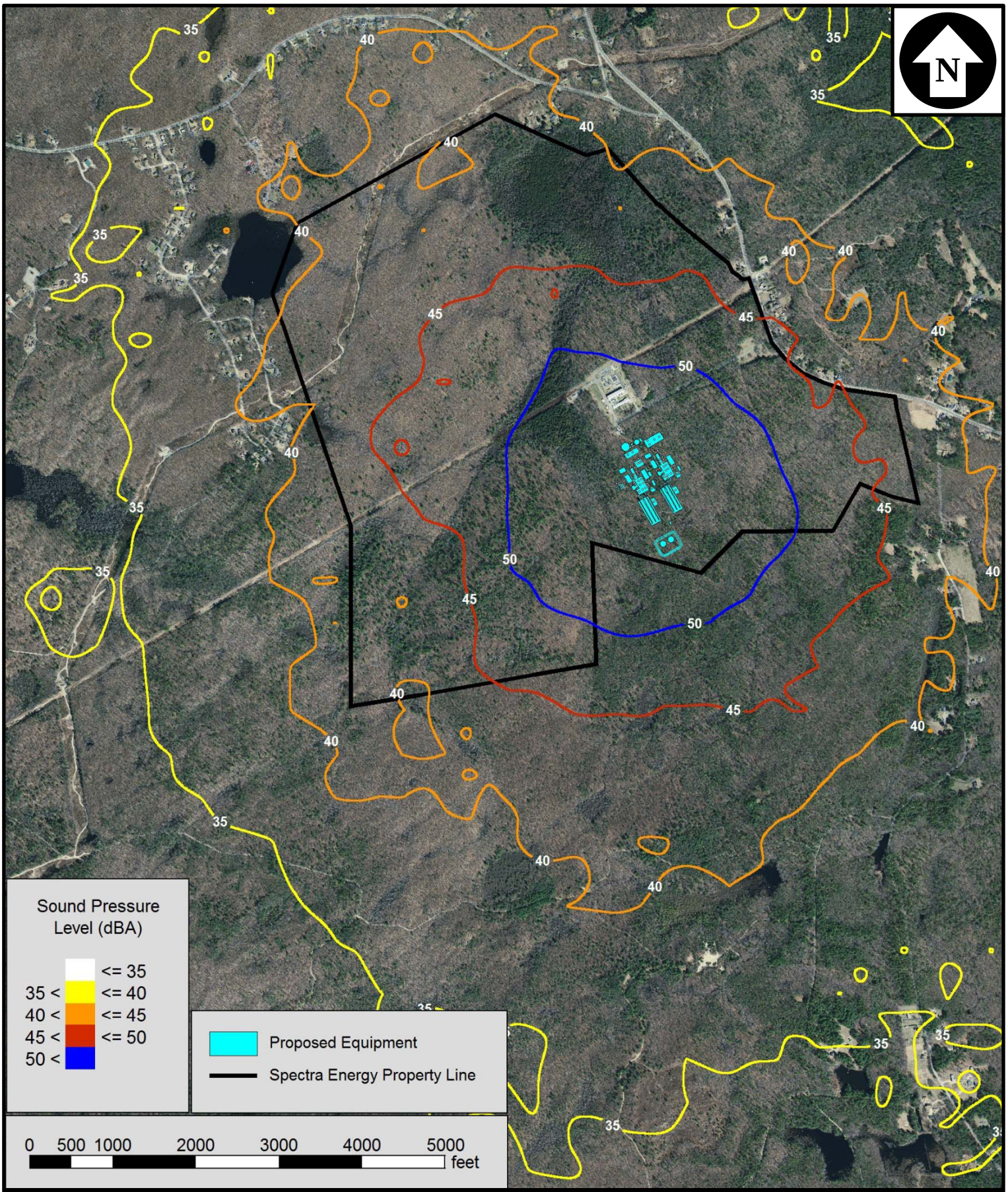
PROPOSED GENERAL ARRANGEMENT

CLEAR RIVER ENERGY CENTER BURRILLVILLE, RHODE ISLAND

FIGURE 3

PROJECT NO. 1956





Sound Pressure
Level (dBA)

- ≤ 35
- $35 < \leq 40$
- $40 < \leq 45$
- $45 < \leq 50$
- $50 <$

- Proposed Equipment
- Spectra Energy Property Line

0 500 1000 2000 3000 4000 5000 feet

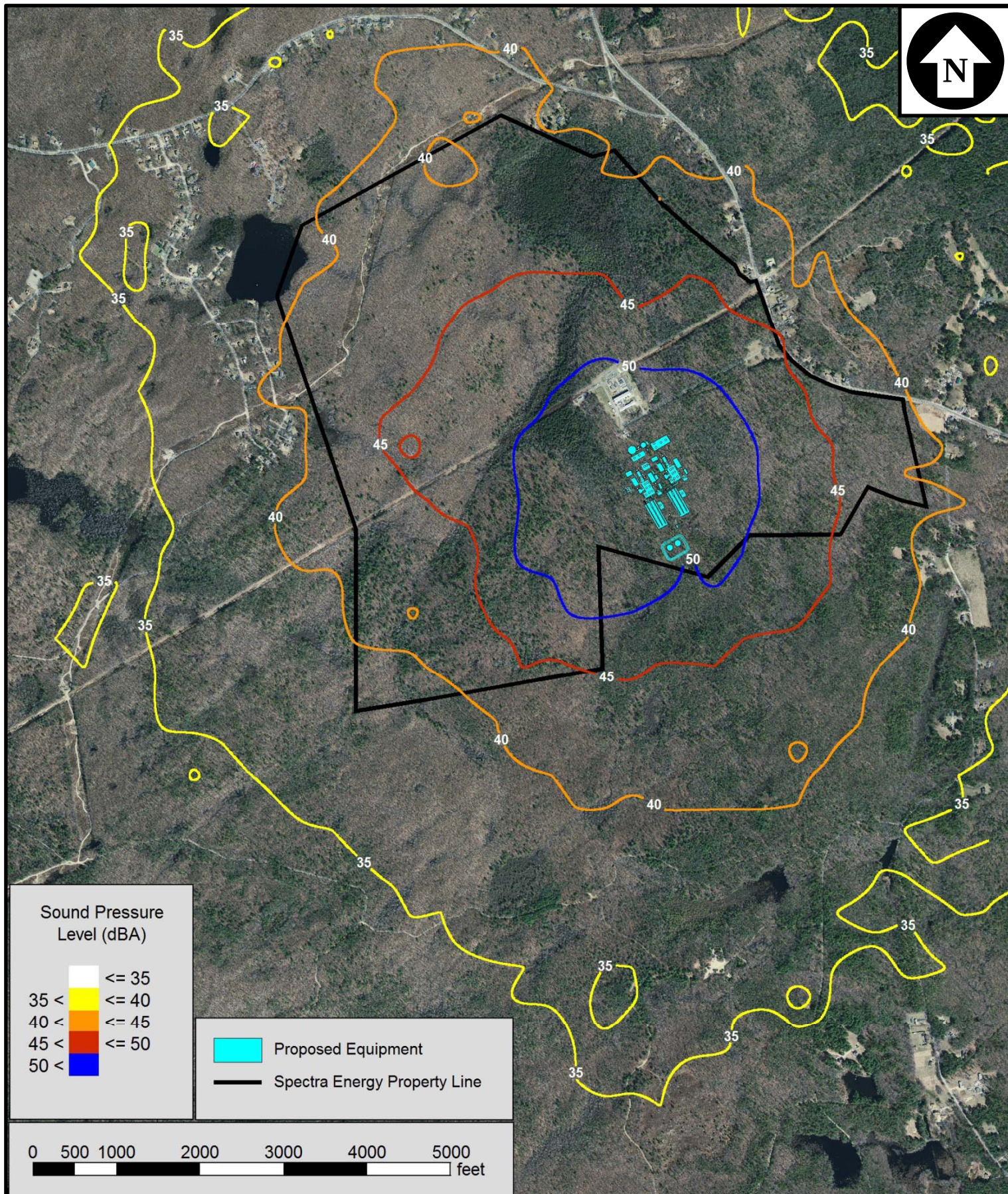
PREDICTED NOISE LEVEL CONTOURS
WITH PROPOSED ACOUSTICAL DESIGN:
TYPICAL STARTUP

CLEAR RIVER ENERGY CENTER
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FIGURE 5

PROJECT NO. 1956



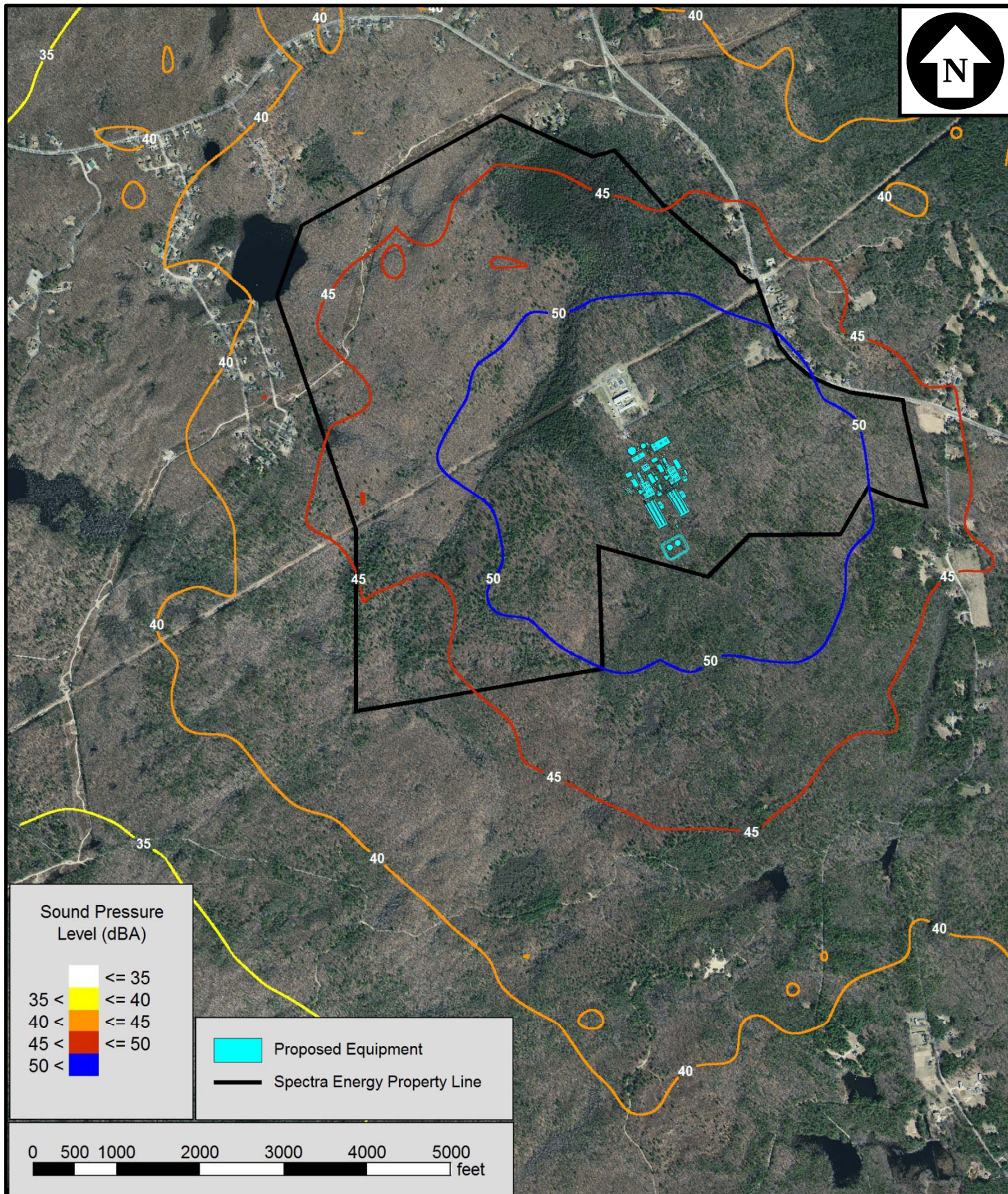


**PREDICTED NOISE LEVEL CONTOURS
WITH PROPOSED ACOUSTICAL DESIGN:
TYPICAL SHUTDOWN**

**CLEAR RIVER ENERGY CENTER
BURRILLVILLE, RHODE ISLAND**

FIGURE 6

PROJECT NO. 1956

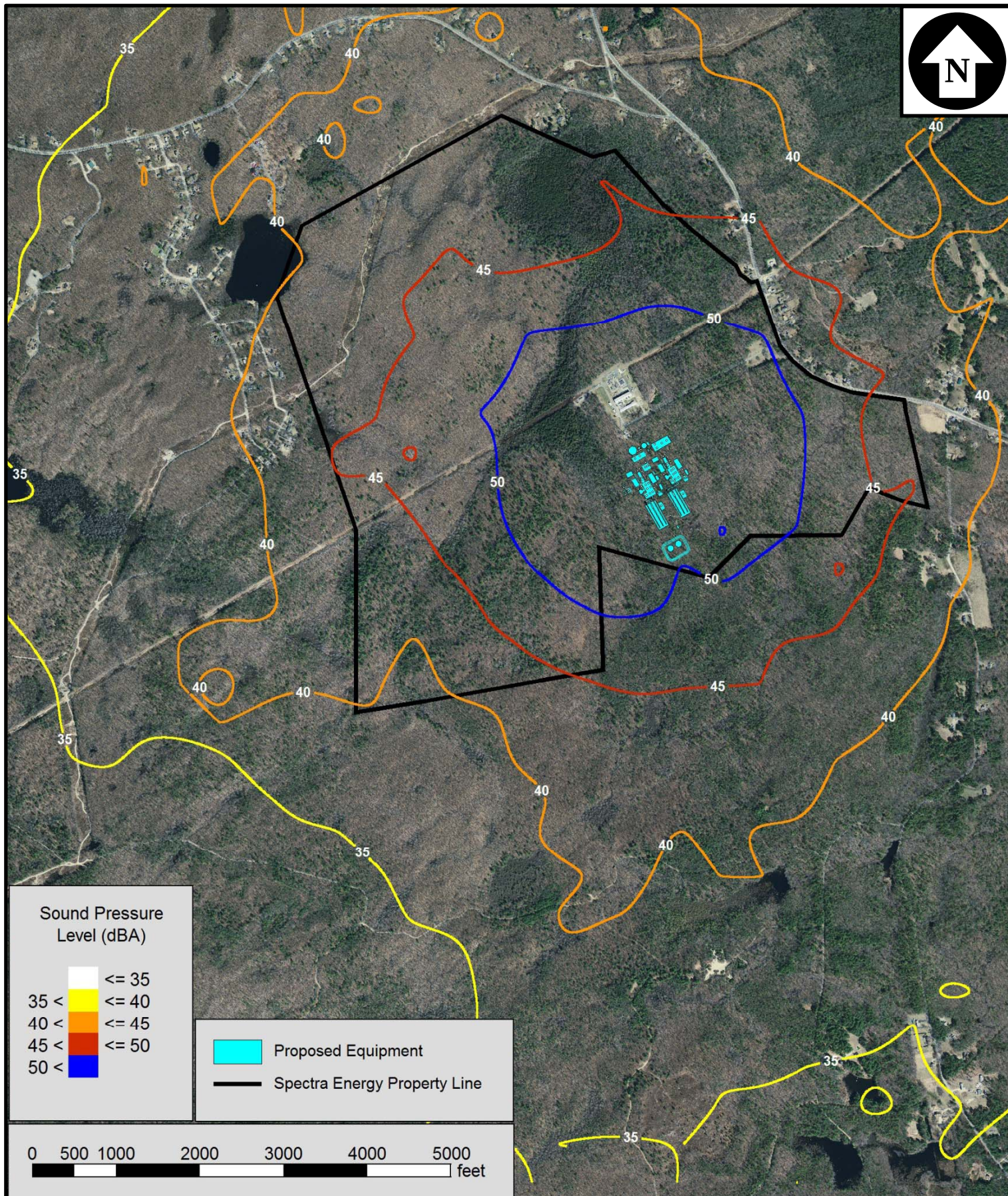


PREDICTED NOISE LEVEL CONTOURS
WITH PROPOSED ACOUSTICAL DESIGN:
EMERGENCY SHUTDOWN

CLEAR RIVER ENERGY CENTER
BURRILLVILLE, RHODE ISLAND

FIGURE 7

PROJECT NO. 1956



**PREDICTED NOISE LEVEL CONTOURS
WITH PROPOSED ACOUSTICAL DESIGN:
EMERGENCY RELEASE**

**CLEAR RIVER ENERGY CENTER
BURRILLVILLE, RHODE ISLAND**

FIGURE 8

PROJECT NO. 1956

Appendix

N1 Transient Operation Noise Level Modeling Calculations and Results

N1 Transient Operation Noise Level Modeling Calculations and Results

Typical Startup

Clear River Energy Center - Receiver Sound Levels Typical Rapid Startup Analysis - A-Weight - ISO9613

Name	SPL dB(A)	
M1 - Wallum Lake Road	45.5	
M2 - Jackson Schoolhouse Road (East)	46.0	
M3 - Doe Crossing Drive	41.3	
M4 - Buck Hill Road	41.7	
M5 - Jackson Schoolhouse Road (South)	38.1	



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Clear River Energy Center - Receiver Spectra Typical Rapid Startup Analysis - A-Weight - ISO9613

31Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
------	------	-------	-------	-------	------	------	------	------	--

Receiver M1 - Wallum Lake Road									
65.0	63.3	56.3	47.8	40.0	36.0	33.1	17.5	-37.8	
Receiver M2 - Jackson Schoolhouse Road (East)									
66.6	63.8	55.9	48.9	42.8	34.9	28.4	8.6		
Receiver M3 - Doe Crossing Drive									
60.6	59.1	51.7	44.8	36.6	31.0	24.4	-6.6		
Receiver M4 - Buck Hill Road									
61.1	60.3	51.9	44.7	36.7	32.4	23.7	-12.5		
Receiver M5 - Jackson Schoolhouse Road (South)									
59.3	57.1	48.7	41.6	33.4	24.2	14.2	-29.8		

Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 1 Duct - Finger 1 A	85.9	62.00	Area	0	247.24	103.5	99.2	95.1	89.7	84.3	74.0	68.8	58.1	-19.9	
ACC 1 Duct - Finger 1 B	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 1 Duct - Finger 1 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 1 Duct - Finger 2 A	86.0	62.00	Area	0	249.06	103.5	99.3	95.2	89.7	84.3	74.1	68.9	58.1	-19.8	
ACC 1 Duct - Finger 2 B	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 1 Duct - Finger 2 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 1 Duct - Finger 3 A	86.0	62.00	Area	0	250.50	103.5	99.3	95.2	89.7	84.3	74.1	68.9	58.1	-19.8	
ACC 1 Duct - Finger 3 B	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 1 Duct - Finger 3 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 1 Duct - HRH Bypass Bell A	93.8	82.00	Area	0	15.17	111.3	107.1	103.0	97.5	92.1	81.9	76.7	65.9	-12.0	
ACC 1 Duct - HRH Bypass Bell B	93.8	82.00	Area	0	15.18	111.3	107.1	103.0	97.5	92.1	81.9	76.7	65.9	-12.0	
ACC 1 Duct - HRH Bypass Bell C	93.9	82.00	Area	0	15.37	111.4	107.2	103.1	97.6	92.2	82.0	76.8	66.0	-11.9	
ACC 1 Duct - HRH Bypass Bell D	93.6	82.00	Area	0	14.54	111.2	106.9	102.8	97.3	92.0	81.7	76.5	65.7	-12.2	
ACC 1 Duct - HRH Bypass Bell E	93.9	82.00	Area	0	15.34	111.4	107.1	103.1	97.6	92.2	82.0	76.8	66.0	-11.9	
ACC 1 Duct - HRH Bypass Tube A	82.6	79.00	Area	0	2.28	100.1	95.9	91.8	86.3	80.9	70.7	65.5	54.7	-23.2	
ACC 1 Duct - HRH Bypass Tube B	82.6	79.00	Area	0	2.29	100.1	95.9	91.8	86.3	80.9	70.7	65.5	54.7	-23.2	
ACC 1 Duct - HRH Bypass Tube C	82.6	79.00	Area	0	2.29	100.1	95.9	91.8	86.3	80.9	70.7	65.5	54.7	-23.2	
ACC 1 Duct - HRH Bypass Tube D	82.6	79.00	Area	0	2.28	100.1	95.9	91.8	86.3	80.9	70.7	65.5	54.7	-23.2	
ACC 1 Duct - LP Bypass Bell A	92.8	81.00	Area	0	15.17	110.3	106.1	102.0	96.5	91.1	80.9	75.7	64.9	-13.0	
ACC 1 Duct - LP Bypass Bell B	92.8	81.00	Area	0	15.18	110.3	106.1	102.0	96.5	91.1	80.9	75.7	64.9	-13.0	
ACC 1 Duct - LP Bypass Bell C	92.9	81.00	Area	0	15.37	110.4	106.2	102.1	96.6	91.2	81.0	75.8	65.0	-12.9	
ACC 1 Duct - LP Bypass Bell D	92.6	81.00	Area	0	14.54	110.2	105.9	101.8	96.3	91.0	80.7	75.5	64.7	-13.2	
ACC 1 Duct - LP Bypass Bell E	92.9	81.00	Area	0	15.34	110.4	106.1	102.1	96.6	91.2	81.0	75.8	65.0	-12.9	
ACC 1 Duct - LP Bypass Tube A	81.6	78.00	Area	0	2.30	99.2	94.9	90.8	85.3	79.9	69.7	64.5	53.7	-24.2	
ACC 1 Duct - LP Bypass Tube B	81.6	78.00	Area	0	2.30	99.2	94.9	90.8	85.3	80.0	69.7	64.5	53.7	-24.2	
ACC 1 Duct - LP Bypass Tube C	81.6	78.00	Area	0	2.30	99.2	94.9	90.8	85.4	80.0	69.7	64.5	53.7	-24.2	
ACC 1 Duct - LP Bypass Tube D	81.6	78.00	Area	0	2.30	99.2	94.9	90.8	85.3	79.9	69.7	64.5	53.7	-24.2	
ACC 1 Duct - Main A	103.4	82.00	Area	0	136.57	120.9	116.6	112.5	107.1	101.7	91.4	86.2	75.5	-2.4	
ACC 1 Duct - Main B	97.7	82.00	Area	0	37.17	115.2	111.0	106.9	101.4	96.0	85.8	80.6	69.8	-8.1	
ACC 1 Duct - Main C	101.1	82.00	Area	0	80.99	118.6	114.4	110.3	104.8	99.4	89.2	84.0	73.2	-4.7	
ACC 1 Duct - Main D	97.7	82.00	Area	0	37.41	115.3	111.0	106.9	101.5	96.1	85.8	80.6	69.9	-8.1	
ACC 1 Duct - Main E	95.0	82.00	Area	0	19.86	112.5	108.3	104.2	98.7	93.3	83.1	77.9	67.1	-10.8	



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Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Duct - Main F	94.6	82.00	Area	0	18.21	112.1	107.9	103.8	98.3	92.9	82.7	77.5	66.7	-11.2	
ACC 1 Duct - Main G	101.1	82.00	Area	0	81.62	118.7	114.4	110.3	104.8	99.4	89.2	84.0	73.2	-4.7	
ACC 1 Duct - Main H	103.4	82.00	Area	0	136.57	120.9	116.6	112.5	107.1	101.7	91.4	86.2	75.5	-2.4	
ACC 1 Duct - Main M	94.9	82.00	Area	0	19.41	112.4	108.2	104.1	98.6	93.2	83.0	77.8	67.0	-10.9	
ACC 1 Duct - Main N	103.5	82.00	Area	0	142.12	121.1	116.8	112.7	107.3	101.9	91.6	86.4	75.6	-2.3	
ACC 1 Duct - Main O	102.8	82.00	Area	0	120.75	120.4	116.1	112.0	106.5	101.1	90.9	85.7	74.9	-3.0	
ACC 1 Duct - Main P	102.8	82.00	Area	0	121.31	120.4	116.1	112.0	106.6	101.2	90.9	85.7	75.0	-3.0	
ACC 1 Duct - Main Q	102.9	82.00	Area	0	121.95	120.4	116.2	112.1	106.6	101.2	91.0	85.8	75.0	-2.9	
ACC 1 Duct - Main R	95.4	82.00	Area	0	21.64	112.9	108.6	104.5	99.1	93.7	83.4	78.2	67.5	-10.4	
ACC 1 Duct - Main S	95.2	82.00	Area	0	21.04	112.8	108.5	104.4	99.0	93.6	83.3	78.1	67.4	-10.6	
ACC 1 Duct - Riser 1 A	90.0	72.00	Area	0	63.74	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 1 Duct - Riser 1 B	90.1	72.00	Area	0	64.21	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 1 Duct - Riser 1 C	90.0	72.00	Area	0	63.57	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 1 Duct - Riser 1 D	90.1	72.00	Area	0	64.39	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 1 Duct - Riser 2 A	90.0	72.00	Area	0	63.74	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 1 Duct - Riser 2 B	90.1	72.00	Area	0	64.21	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 1 Duct - Riser 2 C	90.0	72.00	Area	0	63.56	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 1 Duct - Riser 2 D	90.1	72.00	Area	0	64.39	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 1 Duct - Riser 3 A	90.0	72.00	Area	0	63.74	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 1 Duct - Riser 3 B	90.1	72.00	Area	0	64.20	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 1 Duct - Riser 3 C	90.0	72.00	Area	0	63.58	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 1 Duct - Riser 3 D	90.1	72.00	Area	0	64.39	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 1 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Duct - Finger 1 A	85.9	62.00	Area	0	247.24	103.5	99.2	95.1	89.7	84.3	74.0	68.8	58.1	-19.9	
ACC 2 Duct - Finger 1 B	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 2 Duct - Finger 1 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 2 Duct - Finger 2 A	86.0	62.00	Area	0	249.06	103.5	99.3	95.2	89.7	84.3	74.1	68.9	58.1	-19.8	
ACC 2 Duct - Finger 2 B	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 2 Duct - Finger 2 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 2 Duct - Finger 3 A	86.0	62.00	Area	0	250.50	103.5	99.3	95.2	89.7	84.3	74.1	68.9	58.1	-19.8	
ACC 2 Duct - Finger 3 B	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	
ACC 2 Duct - Finger 3 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6	84.2	74.0	68.8	58.0	-19.9	



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Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 2 Duct - HRH Bypass Bell A	93.8	82.00	Area	0	15.18	111.3	107.1	103.0	97.5	92.1	81.9	76.7	65.9	-12.0	
ACC 2 Duct - HRH Bypass Bell B	93.8	82.00	Area	0	15.18	111.3	107.1	103.0	97.5	92.1	81.9	76.7	65.9	-12.0	
ACC 2 Duct - HRH Bypass Bell C	93.9	82.00	Area	0	15.37	111.4	107.2	103.1	97.6	92.2	82.0	76.8	66.0	-11.9	
ACC 2 Duct - HRH Bypass Bell D	93.6	82.00	Area	0	14.54	111.2	106.9	102.8	97.4	92.0	81.7	76.5	65.7	-12.2	
ACC 2 Duct - HRH Bypass Bell E	93.9	82.00	Area	0	15.34	111.4	107.1	103.1	97.6	92.2	82.0	76.8	66.0	-11.9	
ACC 2 Duct - HRH Bypass Tube A	82.6	79.00	Area	0	2.30	100.2	95.9	91.8	86.3	81.0	70.7	65.5	54.7	-23.2	
ACC 2 Duct - HRH Bypass Tube B	82.6	79.00	Area	0	2.30	100.1	95.9	91.8	86.3	80.9	70.7	65.5	54.7	-23.2	
ACC 2 Duct - HRH Bypass Tube C	82.6	79.00	Area	0	2.30	100.2	95.9	91.8	86.3	80.9	70.7	65.5	54.7	-23.2	
ACC 2 Duct - HRH Bypass Tube D	82.6	79.00	Area	0	2.30	100.2	95.9	91.8	86.3	81.0	70.7	65.5	54.7	-23.2	
ACC 2 Duct - LP Bypass Bell A	92.8	81.00	Area	0	15.18	110.3	106.1	102.0	96.5	91.1	80.9	75.7	64.9	-13.0	
ACC 2 Duct - LP Bypass Bell B	92.8	81.00	Area	0	15.18	110.3	106.1	102.0	96.5	91.1	80.9	75.7	64.9	-13.0	
ACC 2 Duct - LP Bypass Bell C	92.9	81.00	Area	0	15.37	110.4	106.2	102.1	96.6	91.2	81.0	75.8	65.0	-12.9	
ACC 2 Duct - LP Bypass Bell D	92.6	81.00	Area	0	14.54	110.2	105.9	101.8	96.4	91.0	80.7	75.5	64.7	-13.2	
ACC 2 Duct - LP Bypass Bell E	92.9	81.00	Area	0	15.34	110.4	106.1	102.1	96.6	91.2	81.0	75.8	65.0	-12.9	
ACC 2 Duct - LP Bypass Tube A	81.6	78.00	Area	0	2.31	99.2	94.9	90.8	85.4	80.0	69.7	64.5	53.8	-24.2	
ACC 2 Duct - LP Bypass Tube B	81.6	78.00	Area	0	2.31	99.2	94.9	90.8	85.4	80.0	69.7	64.5	53.8	-24.2	
ACC 2 Duct - LP Bypass Tube C	81.6	78.00	Area	0	2.31	99.2	94.9	90.8	85.4	80.0	69.7	64.5	53.8	-24.2	
ACC 2 Duct - LP Bypass Tube D	81.6	78.00	Area	0	2.31	99.2	94.9	90.8	85.4	80.0	69.7	64.5	53.8	-24.2	
ACC 2 Duct - Main A	99.2	82.00	Area	0	52.37	116.7	112.5	108.4	102.9	97.5	87.3	82.1	71.3	-6.6	
ACC 2 Duct - Main B	97.6	82.00	Area	0	36.49	115.2	110.9	106.8	101.3	95.9	85.7	80.5	69.7	-8.2	
ACC 2 Duct - Main D	97.8	82.00	Area	0	37.90	115.3	111.1	107.0	101.5	96.1	85.9	80.7	69.9	-8.0	
ACC 2 Duct - Main E	94.6	82.00	Area	0	18.33	112.2	107.9	103.8	98.4	93.0	82.7	77.5	66.8	-11.2	
ACC 2 Duct - Main F	94.2	82.00	Area	0	16.54	111.7	107.5	103.4	97.9	92.5	82.3	77.1	66.3	-11.6	
ACC 2 Duct - Main H	99.2	82.00	Area	0	52.36	116.7	112.5	108.4	102.9	97.5	87.3	82.1	71.3	-6.6	
ACC 2 Duct - Main M	94.9	82.00	Area	0	19.41	112.4	108.2	104.1	98.6	93.2	83.0	77.8	67.0	-10.9	
ACC 2 Duct - Main N	103.5	82.00	Area	0	142.12	121.1	116.8	112.7	107.3	101.9	91.6	86.4	75.6	-2.3	
ACC 2 Duct - Main O	102.8	82.00	Area	0	121.31	120.4	116.1	112.0	106.6	101.2	90.9	85.7	75.0	-3.0	
ACC 2 Duct - Main P	102.8	82.00	Area	0	120.75	120.4	116.1	112.0	106.5	101.1	90.9	85.7	74.9	-3.0	
ACC 2 Duct - Main Q	95.4	82.00	Area	0	21.64	112.9	108.6	104.5	99.1	93.7	83.4	78.2	67.5	-10.4	
ACC 2 Duct - Main R	95.2	82.00	Area	0	21.01	112.8	108.5	104.4	98.9	93.6	83.3	78.1	67.3	-10.6	
ACC 2 Duct - Main S	102.9	82.00	Area	0	121.95	120.4	116.2	112.1	106.6	101.2	91.0	85.8	75.0	-2.9	
ACC 2 Duct - Riser 1 A	90.0	72.00	Area	0	63.74	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 2 Duct - Riser 1 B	90.1	72.00	Area	0	64.21	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 2 Duct - Riser 1 C	90.0	72.00	Area	0	63.57	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 2 Duct - Riser 1 D	90.1	72.00	Area	0	64.39	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 2 Duct - Riser 2 A	90.0	72.00	Area	0	63.74	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 2 Duct - Riser 2 B	90.1	72.00	Area	0	64.21	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 2 Duct - Riser 2 C	90.0	72.00	Area	0	63.56	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 2 Duct - Riser 2 D	90.1	72.00	Area	0	64.39	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 2 Duct - Riser 3 A	90.0	72.00	Area	0	63.74	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 2 Duct - Riser 3 B	90.1	72.00	Area	0	64.20	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 2 Duct - Riser 3 C	90.0	72.00	Area	0	63.58	107.6	103.3	99.2	93.8	88.4	78.1	72.9	62.2	-15.8	
ACC 2 Duct - Riser 3 D	90.1	72.00	Area	0	64.39	107.6	103.4	99.3	93.8	88.4	78.2	73.0	62.2	-15.7	
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACHE 1	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
ACHE 2	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Ammonia Forwarding Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Ammonia Injection Skid 1	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Aux Boiler Building - East Side	88.0	64.26	Area	3	234.94	108.8	102.7	100.7	91.7	81.7	68.7	57.7	51.7	43.7	
Aux Boiler Building - North Side	88.5	64.26	Area	3	268.09	109.3	103.3	101.3	92.3	82.3	69.3	58.3	52.3	44.3	
Aux Boiler Building - Roof	91.9	64.26	Area	0	579.10	112.7	106.6	104.6	95.7	85.7	72.6	61.6	55.7	47.6	
Aux Boiler Building - South Side	88.5	64.26	Area	3	268.09	109.3	103.3	101.3	92.3	82.3	69.3	58.3	52.3	44.3	
Aux Boiler Building - West Side	88.0	64.26	Area	3	235.85	108.8	102.7	100.7	91.8	81.8	68.7	57.7	51.8	43.7	
Aux Boiler Building Vent Louvers - North	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler Building Vent Louvers - South	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler FD Fan Inlet	100.0	100.00	Point	0		102.3	102.8	101.7	101.7	98.8	94.8	87.8	80.8	75.7	
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2	102.2	100.2	99.2	97.2	93.2	90.2	87.2	94.2	
Aux Transformer 1 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	



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Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Aux Transformer 2 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
BFW Pump Enclosure 1-Side 1	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	3	107.28	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 1-Side 3	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9
BFW Pump Enclosure 1-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 1-Top	103.5	76.92	Area	0	452.03	119.5	116.9	113.9	108.9	96.9	90.9	86.9	78.9	72.9
BFW Pump Enclosure 2-Side 1	94.4	76.92	Area	3	55.67	110.4	107.8	104.8	99.8	87.8	81.8	77.8	69.8	63.8
BFW Pump Enclosure 2-Side 2	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 2-Side 3	94.4	76.92	Area	3	55.43	110.4	107.8	104.7	99.8	87.8	81.8	77.8	69.8	63.8
BFW Pump Enclosure 2-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 2-Top	103.4	76.92	Area	0	445.84	119.4	116.9	113.8	108.8	96.9	90.9	86.9	78.9	72.8
Condensate Equipment Bldg 1 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 1 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 1 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2
Condensate Equipment Bldg 1 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 1 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 2 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 2 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 2 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2
Condensate Equipment Bldg 2 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 2 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
CTG 1 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0
CTG 2 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0
CTG Air Inlet 1	106.2	82.90	Area	0	213.41	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0
CTG Air Inlet 2	106.2	82.93	Area	0	211.99	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0
CTG Air Inlet Duct 1 - North	99.9	84.40	Area	0	35.83	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 1 - South	99.9	84.44	Area	0	35.50	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 1 - Top	99.9	83.26	Area	0	46.57	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 2 - North	99.9	84.32	Area	0	36.52	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 2 - South	99.9	84.29	Area	0	36.74	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
CTG Air Inlet Duct 2 - Top	99.9	83.15	Area	0	47.70	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Building 1 - East Facade	95.1	64.70	Area	3	1101.55	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 1 - North Facade	94.0	64.70	Area	3	851.17	115.6	109.4	108.7	93.7	82.9	72.6	68.3	65.4	56.5
CTG Building 1 - Roof	89.9	59.70	Area	0	1047.08	111.5	105.3	104.6	89.6	78.8	68.5	64.2	61.3	52.4
CTG Building 1 - West Facade	95.1	64.70	Area	3	1100.83	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 1 Vent Louvers - East	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 1 Vent Louvers - North	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 1 Vent Louvers - West	70.1	57.55	Area	3	18.00	96.3	87.6	84.9	65.9	54.1	42.8	37.5	36.6	30.7
CTG Building 2 - East Facade	95.1	64.70	Area	3	1100.24	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 2 - North Facade	94.0	64.70	Area	3	852.46	115.6	109.4	108.7	93.7	82.9	72.6	68.3	65.4	56.5
CTG Building 2 - Roof	89.9	59.70	Area	0	1045.75	111.5	105.3	104.6	89.6	78.8	68.5	64.2	61.3	52.4
CTG Building 2 - West Facade	95.1	64.70	Area	3	1098.21	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 2 Vent Louvers - East	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 2 Vent Louvers - North	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 2 Vent Louvers - West	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
Demin Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0
Duct Burner Skid 1	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9
Duct Burner Skid 2	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9
Emergency Diesel Generator - Side 1	8.2	-7.75	Area	3	38.95	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Emergency Diesel Generator - Side 2	8.2	-7.76	Area	3	39.02	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Emergency Diesel Generator - Top	8.2	-8.56	Area	0	46.93	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Excitation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6
Excitation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6
Fire Pump Building - Roof	-4.1	-23.30	Area	0	82.33	10.1	13.1	7.1	1.1	-12.9	-21.9	-28.9	-34.9	-35.9
Fire Pump Building - Side 1	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5
Fire Pump Building - Side 2	-8.5	-23.30	Area	3	29.99	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3
Fire Pump Building - Side 3	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5
Fire Pump Building - Side 4	-8.5	-23.30	Area	3	30.11	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.02	97.9	95.7	83.8	81.7	76.0	77.8	85.5	83.9	103.1
Fuel Gas Metering and Regulating Station	93.0	93.00	Point	0		-15.6	-15.6	-15.6	72.4	74.4	79.4	89.4	87.4	79.4
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9
Gas Aftercooler 1	101.0	84.00	Area	0	50.09	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2



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Gas Aftercooler 2	101.0	83.86	Area	0	51.73	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	
Gas Compressor Bldg Louvers - E	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - N	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - S	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - W	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Building - East Side	99.1	76.70	Area	3	173.15	113.3	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
Gas Compressor Building - North Side	97.5	76.70	Area	3	119.51	111.7	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - Roof	101.0	76.70	Area	0	269.92	115.3	118.2	112.2	106.3	92.3	83.2	76.2	70.3	69.2	
Gas Compressor Building - South Side	97.5	76.70	Area	3	120.04	111.8	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - West Side	99.1	76.70	Area	3	173.41	113.4	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
GSU 1 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
HRSG 1 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 1 - Piping and Valves	98.5	80.00	Line	0	71.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 1 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	



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Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
HRSG 1 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 2 - Piping and Valves	98.5	80.06	Line	0	70.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 2 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG Recirc Pump 1	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
HRSG Recirc Pump 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Isolation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Isolation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Rooftop Vent Fan - Admin 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	



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Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Safety Vent	29.0	29.00	Point	0		13.4	20.9	27.0	28.0	18.0	10.8	21.9	23.0	24.0	
Scanner Cooling Air Blower 1	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Scanner Cooling Air Blower 2	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Service Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Startup Vent - Aux Boiler Blowdown	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - Aux Boiler Startup	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - HRSG Blowdown 1	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - HRSG Blowdown 2	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - Steam Turbine Drains Tank	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Steam Turbine Bldg 1 - East Facade	92.4	64.93	Area	3	554.75	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 1 - North Facade	90.7	64.93	Area	3	373.57	113.5	109.9	101.8	94.9	82.9	71.9	64.9	54.9	53.9	
Steam Turbine Bldg 1 - Roof	88.8	59.93	Area	0	764.72	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0	
Steam Turbine Bldg 1 - South Facade	95.7	64.93	Area	3	1206.17	118.6	115.0	106.9	100.0	88.0	77.0	70.0	60.0	59.0	
Steam Turbine Bldg 1 - West Facade	92.4	64.93	Area	3	552.09	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 2 - East Facade	92.4	64.93	Area	3	553.90	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 2 - North Facade	90.7	64.93	Area	3	374.51	113.5	109.9	101.8	94.9	82.9	71.9	64.9	54.9	53.9	



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Clear River Energy Center - Source List

Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Steam Turbine Bldg 2 - Roof	88.8	59.93	Area	0	764.05	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0
Steam Turbine Bldg 2 - South Facade 1	95.7	64.93	Area	3	1206.17	118.6	115.0	106.9	100.0	88.0	77.0	70.0	60.0	59.0
Steam Turbine Bldg 2 - West Facade	92.4	64.93	Area	3	552.09	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6
STG Building 1 Vent Louvers - East	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 1 Vent Louvers - South 1	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 1 Vent Louvers - South 2	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 1 Vent Louvers - West	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - East	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - South 1	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - South 2	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - West	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STW Heat Exchanger 1	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2
STW Heat Exchanger 2	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2
Waste Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0
Water Treatment Building - East Side	78.9	56.70	Area	3	167.69	93.2	96.2	90.2	84.2	70.2	61.2	54.2	48.2	47.2
Water Treatment Building - North Side	83.3	56.70	Area	3	452.35	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5
Water Treatment Building - Roof	86.4	56.70	Area	0	939.65	100.7	103.6	97.6	91.7	77.7	68.6	61.6	55.7	54.7
Water Treatment Building - South Side	83.3	56.70	Area	3	453.24	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5
Water Treatment Building - West Side	78.9	56.70	Area	3	167.20	93.2	96.1	90.2	84.2	70.2	61.2	54.2	48.2	47.2
WTB Ventilation Louvers - North Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0
WTB Ventilation Louvers - South Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0



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Clear River Energy Center - Mean Propagation Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Receiver M1 - Wallum Lake Road													
ACC 1 Bottom	109.0	72.7	0.0	0.0	789.6	-68.9	1.0	-2.9	-3.2	-8.3	0.0	26.7	
ACC 1 Duct - Finger 1 A	85.9	62.0	0.0	0.0	691.9	-67.8	-0.5	-4.2	-1.0	0.0	0.0	12.5	
ACC 1 Duct - Finger 1 B	85.9	62.0	0.0	0.0	690.7	-67.8	-0.5	-1.0	-1.2	0.0	2.6	18.0	
ACC 1 Duct - Finger 1 C	85.9	62.0	0.0	0.0	692.8	-67.8	-0.5	-7.2	-0.8	0.0	0.2	9.8	
ACC 1 Duct - Finger 2 A	86.0	62.0	0.0	0.0	704.1	-67.9	-0.5	-4.3	-1.0	0.0	0.0	12.3	
ACC 1 Duct - Finger 2 B	85.9	62.0	0.0	0.0	702.9	-67.9	-0.5	-4.3	-0.9	0.0	2.4	14.6	
ACC 1 Duct - Finger 2 C	85.9	62.0	0.0	0.0	705.1	-68.0	-0.5	-11.0	-0.6	0.0	0.1	6.0	
ACC 1 Duct - Finger 3 A	86.0	62.0	0.0	0.0	716.5	-68.1	-0.5	-4.3	-1.0	0.0	0.0	12.2	
ACC 1 Duct - Finger 3 B	85.9	62.0	0.0	0.0	715.4	-68.1	-0.5	-4.5	-0.9	0.0	2.1	14.0	
ACC 1 Duct - Finger 3 C	85.9	62.0	0.0	0.0	717.5	-68.1	-0.5	-9.0	-0.7	0.0	0.6	8.2	
ACC 1 Duct - HRH Bypass Bell A	93.8	82.0	0.0	0.0	660.8	-67.4	0.6	-21.2	-0.5	0.0	0.0	5.3	
ACC 1 Duct - HRH Bypass Bell B	93.8	82.0	0.0	0.0	660.7	-67.4	1.1	-19.4	-0.5	0.0	0.0	7.7	
ACC 1 Duct - HRH Bypass Bell C	93.9	82.0	0.0	0.0	659.0	-67.4	0.8	-20.3	-0.5	0.0	1.3	7.8	
ACC 1 Duct - HRH Bypass Bell D	93.6	82.0	0.0	0.0	660.0	-67.4	0.8	-13.1	-0.4	0.0	0.3	13.7	
ACC 1 Duct - HRH Bypass Bell E	93.9	82.0	0.0	0.0	662.6	-67.4	0.8	-20.3	-0.4	0.0	2.0	8.5	
ACC 1 Duct - HRH Bypass Tube A	82.6	79.0	0.0	0.0	659.4	-67.4	0.7	-13.0	-0.5	0.0	0.0	2.5	
ACC 1 Duct - HRH Bypass Tube B	82.6	79.0	0.0	0.0	659.1	-67.4	0.8	-13.0	-0.5	0.0	0.2	2.7	
ACC 1 Duct - HRH Bypass Tube C	82.6	79.0	0.0	0.0	659.7	-67.4	0.8	-17.2	-0.4	0.0	0.0	-1.6	
ACC 1 Duct - HRH Bypass Tube D	82.6	79.0	0.0	0.0	659.4	-67.4	0.8	-13.1	-0.5	0.0	0.0	2.5	
ACC 1 Duct - LP Bypass Bell A	92.8	81.0	0.0	0.0	665.1	-67.4	0.6	-21.4	-0.5	0.0	0.0	4.2	
ACC 1 Duct - LP Bypass Bell B	92.8	81.0	0.0	0.0	665.0	-67.4	1.2	-16.4	-0.4	0.0	0.0	9.7	
ACC 1 Duct - LP Bypass Bell C	92.9	81.0	0.0	0.0	663.3	-67.4	0.8	-18.8	-0.4	0.0	0.9	7.9	
ACC 1 Duct - LP Bypass Bell D	92.6	81.0	0.0	0.0	664.4	-67.4	0.8	-14.9	-0.4	0.0	0.4	11.1	
ACC 1 Duct - LP Bypass Bell E	92.9	81.0	0.0	0.0	666.9	-67.5	0.8	-17.9	-0.4	0.0	0.2	8.1	
ACC 1 Duct - LP Bypass Tube A	81.6	78.0	0.0	0.0	663.8	-67.4	0.8	-14.7	-0.4	0.0	0.0	-0.2	
ACC 1 Duct - LP Bypass Tube B	81.6	78.0	0.0	0.0	663.4	-67.4	0.8	-14.8	-0.4	0.0	0.3	0.1	
ACC 1 Duct - LP Bypass Tube C	81.6	78.0	0.0	0.0	664.1	-67.4	0.8	-17.4	-0.4	0.0	0.0	-2.8	
ACC 1 Duct - LP Bypass Tube D	81.6	78.0	0.0	0.0	663.7	-67.4	0.8	-13.5	-0.4	0.0	0.0	1.1	
ACC 1 Duct - Main A	103.4	82.0	0.0	0.0	655.1	-67.3	0.5	-10.4	-0.9	0.0	0.3	25.6	
ACC 1 Duct - Main B	97.7	82.0	0.0	0.0	649.9	-67.2	0.7	-23.3	-0.6	0.0	0.9	8.2	
ACC 1 Duct - Main C	101.1	82.0	0.0	0.0	658.7	-67.4	0.7	-22.2	-0.5	0.0	2.7	14.5	



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Clear River Energy Center - Mean Propagation Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 1 Duct - Main D	97.7	82.0	0.0	0.0	645.2	-67.2	0.7	-7.1	-0.8	0.0	1.1	24.5	
ACC 1 Duct - Main E	95.0	82.0	0.0	0.0	648.0	-67.2	0.7	-3.3	-1.1	0.0	2.0	26.0	
ACC 1 Duct - Main F	94.6	82.0	0.0	0.0	651.2	-67.3	0.7	-4.9	-0.9	0.0	0.0	22.3	
ACC 1 Duct - Main G	101.1	82.0	0.0	0.0	660.5	-67.4	0.8	-9.8	-0.5	0.0	0.0	24.2	
ACC 1 Duct - Main H	103.4	82.0	0.0	0.0	655.0	-67.3	1.2	-8.8	-0.7	0.0	1.5	29.3	
ACC 1 Duct - Main M	94.9	82.0	0.0	0.0	697.2	-67.9	1.0	-17.2	-0.4	0.0	3.5	13.9	
ACC 1 Duct - Main N	103.5	82.0	0.0	0.0	682.0	-67.7	0.7	-22.1	-0.6	0.0	2.6	16.4	
ACC 1 Duct - Main O	102.8	82.0	0.0	0.0	684.2	-67.7	1.4	-13.9	-0.4	0.0	0.1	22.3	
ACC 1 Duct - Main P	102.8	82.0	0.0	0.0	685.0	-67.7	0.9	-18.0	-0.4	0.0	0.4	18.0	
ACC 1 Duct - Main Q	102.9	82.0	0.0	0.0	683.4	-67.7	0.9	-25.1	-0.8	0.0	2.1	12.3	
ACC 1 Duct - Main R	95.4	82.0	0.0	0.0	670.2	-67.5	0.8	-14.5	-0.4	0.0	0.2	14.0	
ACC 1 Duct - Main S	95.2	82.0	0.0	0.0	668.4	-67.5	0.8	-18.0	-0.4	0.0	1.1	11.3	
ACC 1 Duct - Riser 1 A	90.0	72.0	0.0	0.0	668.7	-67.5	-0.1	-7.3	-0.6	0.0	0.5	15.1	
ACC 1 Duct - Riser 1 B	90.1	72.0	0.0	0.0	670.7	-67.5	-0.1	-10.2	-0.5	0.0	0.1	11.8	
ACC 1 Duct - Riser 1 C	90.0	72.0	0.0	0.0	671.7	-67.5	-0.1	-15.4	-0.4	0.0	0.0	6.5	
ACC 1 Duct - Riser 1 D	90.1	72.0	0.0	0.0	669.6	-67.5	-0.1	-8.7	-0.5	0.0	0.5	13.7	
ACC 1 Duct - Riser 2 A	90.0	72.0	0.0	0.0	681.2	-67.7	-0.1	-9.2	-0.5	0.0	0.7	13.2	
ACC 1 Duct - Riser 2 B	90.1	72.0	0.0	0.0	683.3	-67.7	-0.1	-13.1	-0.4	0.0	0.2	8.9	
ACC 1 Duct - Riser 2 C	90.0	72.0	0.0	0.0	684.2	-67.7	-0.1	-15.8	-0.4	0.0	0.0	6.0	
ACC 1 Duct - Riser 2 D	90.1	72.0	0.0	0.0	682.1	-67.7	-0.1	-10.1	-0.5	0.0	0.6	12.3	
ACC 1 Duct - Riser 3 A	90.0	72.0	0.0	0.0	694.0	-67.8	-0.1	-9.9	-0.5	0.0	2.8	14.5	
ACC 1 Duct - Riser 3 B	90.1	72.0	0.0	0.0	696.1	-67.8	-0.1	-14.7	-0.4	0.0	3.0	10.0	
ACC 1 Duct - Riser 3 C	90.0	72.0	0.0	0.0	697.0	-67.9	-0.1	-15.8	-0.4	0.0	7.0	12.9	
ACC 1 Duct - Riser 3 D	90.1	72.0	0.0	0.0	695.0	-67.8	-0.1	-10.1	-0.5	0.0	3.6	15.1	
ACC 1 Top	109.0	72.7	0.0	0.0	790.0	-68.9	0.4	-6.1	-2.2	-6.8	0.1	25.5	
ACC 2 Bottom	109.0	72.7	0.0	0.0	707.0	-68.0	0.7	-0.8	-2.9	-8.6	0.0	29.5	
ACC 2 Duct - Finger 1 A	85.9	62.0	0.0	0.0	774.4	-68.8	-0.4	-4.3	-1.1	0.0	0.0	11.4	
ACC 2 Duct - Finger 1 B	85.9	62.0	0.0	0.0	773.2	-68.8	-0.4	-4.1	-1.0	0.0	2.3	13.9	
ACC 2 Duct - Finger 1 C	85.9	62.0	0.0	0.0	775.4	-68.8	-0.4	-11.5	-0.7	0.0	0.1	4.6	
ACC 2 Duct - Finger 2 A	86.0	62.0	0.0	0.0	786.9	-68.9	-0.4	-4.4	-1.1	0.0	0.0	11.2	
ACC 2 Duct - Finger 2 B	85.9	62.0	0.0	0.0	785.7	-68.9	-0.4	-6.2	-0.9	0.0	2.0	11.5	
ACC 2 Duct - Finger 2 C	85.9	62.0	0.0	0.0	787.9	-68.9	-0.4	-13.8	-0.6	0.0	0.1	2.2	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
ACC 2 Duct - Finger 3 A	86.0	62.0	0.0	0.0	799.4	-69.0	-0.4	-4.7	-1.0	0.0	0.0	10.8
ACC 2 Duct - Finger 3 B	85.9	62.0	0.0	0.0	798.3	-69.0	-0.4	-6.6	-0.9	0.0	2.1	11.0
ACC 2 Duct - Finger 3 C	85.9	62.0	0.0	0.0	800.5	-69.1	-0.4	-12.3	-0.7	0.0	0.0	3.4
ACC 2 Duct - HRH Bypass Bell A	93.8	82.0	0.0	0.0	761.7	-68.6	1.1	-23.6	-0.7	0.0	0.0	1.9
ACC 2 Duct - HRH Bypass Bell B	93.8	82.0	0.0	0.0	761.6	-68.6	1.6	-25.7	-0.9	0.0	0.0	0.1
ACC 2 Duct - HRH Bypass Bell C	93.9	82.0	0.0	0.0	759.9	-68.6	1.3	-23.5	-0.7	0.0	2.7	5.1
ACC 2 Duct - HRH Bypass Bell D	93.6	82.0	0.0	0.0	761.1	-68.6	1.3	-17.7	-0.5	0.0	0.5	8.6
ACC 2 Duct - HRH Bypass Bell E	93.9	82.0	0.0	0.0	763.5	-68.6	1.3	-22.6	-0.7	0.0	2.3	5.6
ACC 2 Duct - HRH Bypass Tube A	82.6	79.0	0.0	0.0	760.5	-68.6	1.3	-18.2	-0.5	0.0	0.0	-3.4
ACC 2 Duct - HRH Bypass Tube B	82.6	79.0	0.0	0.0	760.2	-68.6	1.3	-18.2	-0.5	0.0	0.6	-2.7
ACC 2 Duct - HRH Bypass Tube C	82.6	79.0	0.0	0.0	760.8	-68.6	1.3	-19.6	-0.6	0.0	0.0	-4.9
ACC 2 Duct - HRH Bypass Tube D	82.6	79.0	0.0	0.0	760.5	-68.6	1.4	-18.4	-0.5	0.0	0.0	-3.5
ACC 2 Duct - LP Bypass Bell A	92.8	81.0	0.0	0.0	766.1	-68.7	1.1	-23.2	-0.7	0.0	0.0	1.4
ACC 2 Duct - LP Bypass Bell B	92.8	81.0	0.0	0.0	766.0	-68.7	1.6	-25.7	-0.9	0.0	0.0	-0.9
ACC 2 Duct - LP Bypass Bell C	92.9	81.0	0.0	0.0	764.3	-68.7	1.3	-22.1	-0.6	0.0	1.3	4.1
ACC 2 Duct - LP Bypass Bell D	92.6	81.0	0.0	0.0	765.5	-68.7	1.3	-17.9	-0.5	0.0	0.5	7.4
ACC 2 Duct - LP Bypass Bell E	92.9	81.0	0.0	0.0	767.9	-68.7	1.4	-20.9	-0.6	0.0	0.0	4.0
ACC 2 Duct - LP Bypass Tube A	81.6	78.0	0.0	0.0	765.0	-68.7	1.3	-18.5	-0.5	0.0	0.0	-4.7
ACC 2 Duct - LP Bypass Tube B	81.6	78.0	0.0	0.0	764.6	-68.7	1.3	-18.5	-0.5	0.0	0.7	-4.0
ACC 2 Duct - LP Bypass Tube C	81.6	78.0	0.0	0.0	765.3	-68.7	1.3	-19.6	-0.6	0.0	0.0	-5.8
ACC 2 Duct - LP Bypass Tube D	81.6	78.0	0.0	0.0	764.9	-68.7	1.4	-18.6	-0.5	0.0	0.0	-4.8
ACC 2 Duct - Main A	99.2	82.0	0.0	0.0	748.9	-68.5	0.9	-15.6	-0.5	0.0	0.3	15.8
ACC 2 Duct - Main B	97.6	82.0	0.0	0.0	750.4	-68.5	1.3	-24.4	-0.8	0.0	0.0	5.2
ACC 2 Duct - Main D	97.8	82.0	0.0	0.0	745.8	-68.4	1.3	-13.4	-0.5	0.0	0.5	17.2
ACC 2 Duct - Main E	94.6	82.0	0.0	0.0	748.3	-68.5	1.3	-11.2	-0.5	0.0	0.7	16.4
ACC 2 Duct - Main F	94.2	82.0	0.0	0.0	751.2	-68.5	1.3	-14.3	-0.5	0.0	1.2	13.4
ACC 2 Duct - Main H	99.2	82.0	0.0	0.0	748.8	-68.5	1.6	-24.6	-0.8	0.0	0.4	7.4
ACC 2 Duct - Main M	94.9	82.0	0.0	0.0	782.8	-68.9	1.3	-19.2	-0.5	0.0	0.0	7.6
ACC 2 Duct - Main N	103.5	82.0	0.0	0.0	767.3	-68.7	1.0	-21.7	-0.6	0.0	0.6	14.1
ACC 2 Duct - Main O	102.8	82.0	0.0	0.0	770.3	-68.7	1.3	-18.6	-0.5	0.0	0.3	16.6
ACC 2 Duct - Main P	102.8	82.0	0.0	0.0	769.6	-68.7	1.6	-24.9	-0.8	0.0	0.9	10.9
ACC 2 Duct - Main Q	95.4	82.0	0.0	0.0	755.2	-68.6	1.3	-16.5	-0.5	0.0	0.2	11.3



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
ACC 2 Duct - Main R	95.2	82.0	0.0	0.0	753.7	-68.5	1.3	-23.9	-0.7	0.0	2.0	5.4
ACC 2 Duct - Main S	102.9	82.0	0.0	0.0	768.9	-68.7	1.3	-24.0	-0.8	0.0	0.3	11.0
ACC 2 Duct - Riser 1 A	90.0	72.0	0.0	0.0	753.3	-68.5	0.1	-7.0	-0.7	0.0	1.4	15.3
ACC 2 Duct - Riser 1 B	90.1	72.0	0.0	0.0	755.4	-68.6	0.1	-14.0	-0.5	0.0	0.2	7.3
ACC 2 Duct - Riser 1 C	90.0	72.0	0.0	0.0	756.4	-68.6	0.1	-16.0	-0.5	0.0	0.0	5.0
ACC 2 Duct - Riser 1 D	90.1	72.0	0.0	0.0	754.3	-68.5	0.1	-7.1	-0.7	0.0	1.4	15.3
ACC 2 Duct - Riser 2 A	90.0	72.0	0.0	0.0	766.1	-68.7	0.1	-10.8	-0.6	0.0	0.8	10.9
ACC 2 Duct - Riser 2 B	90.1	72.0	0.0	0.0	768.2	-68.7	0.1	-15.4	-0.5	0.0	0.2	5.8
ACC 2 Duct - Riser 2 C	90.0	72.0	0.0	0.0	769.2	-68.7	0.1	-17.6	-0.5	0.0	0.0	3.3
ACC 2 Duct - Riser 2 D	90.1	72.0	0.0	0.0	767.2	-68.7	0.1	-11.4	-0.6	0.0	0.7	10.2
ACC 2 Duct - Riser 3 A	90.0	72.0	0.0	0.0	779.1	-68.8	0.1	-11.2	-0.6	0.0	0.9	10.5
ACC 2 Duct - Riser 3 B	90.1	72.0	0.0	0.0	781.1	-68.8	0.1	-16.1	-0.5	0.0	0.3	5.0
ACC 2 Duct - Riser 3 C	90.0	72.0	0.0	0.0	782.1	-68.9	0.1	-17.6	-0.6	0.0	0.0	3.2
ACC 2 Duct - Riser 3 D	90.1	72.0	0.0	0.0	780.1	-68.8	0.1	-13.3	-0.6	0.0	1.0	8.5
ACC 2 Top	109.0	72.7	0.0	0.0	707.5	-68.0	0.3	-5.2	-2.1	-7.2	0.4	27.3
ACHE 1	99.0	72.9	0.0	0.0	751.3	-68.5	2.2	-7.4	-2.2	0.0	0.0	23.1
ACHE 2	99.0	72.9	0.0	0.0	645.5	-67.2	1.8	-5.9	-2.2	0.0	0.8	26.2
Air Process Skid 2	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	-4.1	0.0	0.0	-4.5
Air Process Skid 2	93.0	93.0	0.0	0.0	660.2	-67.4	3.0	-26.3	-3.0	0.0	0.0	-0.7
Ammonia Forwarding Pump	93.1	93.1	0.0	0.0	762.2	-68.6	3.1	-7.9	-4.2	0.0	0.1	15.6
Ammonia Injection Skid 1	98.1	98.1	0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	5.6
Ammonia Injection Skid 2	98.1	98.1	0.0	0.0	609.9	-66.7	2.5	-5.2	-5.2	0.0	3.4	26.8
Aux Boiler Building - East Side	88.0	64.3	0.0	3.0	675.2	-67.6	1.2	-4.6	-0.5	0.0	0.0	19.5
Aux Boiler Building - North Side	88.5	64.3	0.0	3.0	686.4	-67.7	1.3	-3.9	-0.5	0.0	0.0	20.6
Aux Boiler Building - Roof	91.9	64.3	0.0	0.0	688.2	-67.7	0.6	-5.5	-0.5	0.0	0.6	19.3
Aux Boiler Building - South Side	88.5	64.3	0.0	3.0	690.1	-67.8	1.2	-10.2	-0.3	0.0	0.3	14.9
Aux Boiler Building - West Side	88.0	64.3	0.0	3.0	701.0	-67.9	1.3	-15.5	-0.3	0.0	3.3	11.9
Aux Boiler Building Vent Louvers - North	86.0	75.2	0.0	3.0	681.9	-67.7	1.9	-2.6	-2.4	0.0	0.0	18.3
Aux Boiler Building Vent Louvers - South	86.0	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	-0.9	0.0	0.3	6.7
Aux Boiler FD Fan Inlet	100.0	100.0	0.0	0.0	674.3	-67.6	1.5	-5.1	-2.2	0.0	2.5	29.0
Aux Boiler Stack Exhaust	100.0	100.0	0.0	0.0	695.0	-67.8	0.7	0.0	-4.3	-8.0	0.0	20.6
Aux Transformer 1 - Side 1	82.0	69.2	0.0	3.0	717.7	-68.1	2.2	-26.8	-1.8	0.0	3.5	-5.9



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Aux Transformer 1 - Side 2	82.0	70.2	0.0	3.0	713.8	-68.1	2.2	-25.6	-1.4	0.0	1.9	-6.0	
Aux Transformer 1 - Side 3	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	-1.3	0.0	3.2	-4.1	
Aux Transformer 1 - Side 4	82.0	70.2	0.0	3.0	719.9	-68.1	2.2	-26.7	-1.7	0.0	4.6	-4.8	
Aux Transformer 1 - Top	82.0	66.9	0.0	0.0	716.9	-68.1	2.0	-24.8	-1.3	0.0	3.5	-6.7	
Aux Transformer 2 - Side 1	82.0	69.2	0.0	3.0	617.7	-66.8	1.7	-15.8	-1.0	0.0	8.6	11.7	
Aux Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	-9.1	-1.3	0.0	1.0	10.5	
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	-8.4	-1.4	0.0	3.5	13.6	
Aux Transformer 2 - Side 4	82.0	70.2	0.0	3.0	619.7	-66.8	1.8	-17.2	-1.0	0.0	9.3	11.0	
Aux Transformer 2 - Top	82.0	66.9	0.0	0.0	616.7	-66.8	1.3	-6.0	-1.7	0.0	2.9	11.7	
BFW Pump Enclosure 1-Side 1	94.4	76.9	0.0	3.0	758.0	-68.6	1.7	-25.4	-0.7	0.0	0.0	4.4	
BFW Pump Enclosure 1-Side 2	97.2	76.9	0.0	3.0	747.2	-68.5	1.7	-25.2	-0.7	0.0	0.3	7.8	
BFW Pump Enclosure 1-Side 3	94.4	76.9	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0	6.7	
BFW Pump Enclosure 1-Side 4	97.2	76.9	0.0	3.0	762.3	-68.6	1.7	-25.4	-0.7	0.0	0.0	7.2	
BFW Pump Enclosure 1-Top	103.5	76.9	0.0	0.0	754.8	-68.5	1.5	-24.1	-0.6	0.0	0.1	11.7	
BFW Pump Enclosure 2-Side 1	94.4	76.9	0.0	3.0	654.3	-67.3	1.5	-22.7	-0.5	0.0	0.0	8.4	
BFW Pump Enclosure 2-Side 2	97.2	76.9	0.0	3.0	643.1	-67.2	1.5	-22.3	-0.4	0.0	0.8	12.7	
BFW Pump Enclosure 2-Side 3	94.4	76.9	0.0	3.0	646.8	-67.2	1.5	-23.5	-0.5	0.0	9.1	16.9	
BFW Pump Enclosure 2-Side 4	97.2	76.9	0.0	3.0	657.8	-67.4	1.6	-25.3	-0.6	0.0	0.0	8.5	
BFW Pump Enclosure 2-Top	103.4	76.9	0.0	0.0	650.5	-67.3	1.1	-20.3	-0.4	0.0	0.8	17.4	
Condensate Equipment Bldg 1 - East Side	77.7	56.7	0.0	3.0	745.5	-68.4	1.9	-7.0	-0.6	0.0	0.0	6.7	
Condensate Equipment Bldg 1 - North Side	75.2	56.7	0.0	3.0	747.4	-68.5	1.9	-18.8	-0.3	0.0	0.7	-6.8	
Condensate Equipment Bldg 1 - Roof	78.0	51.7	0.0	0.0	752.7	-68.5	1.6	-7.8	-0.6	0.0	0.1	2.8	
Condensate Equipment Bldg 1 - South Side	75.2	56.7	0.0	3.0	758.0	-68.6	1.9	-15.2	-0.4	0.0	0.5	-3.6	
Condensate Equipment Bldg 1 - West Side	77.7	56.7	0.0	3.0	759.8	-68.6	1.9	-18.3	-0.4	0.0	1.1	-3.5	
Condensate Equipment Bldg 2 - East Side	77.7	56.7	0.0	3.0	662.8	-67.4	1.6	-6.0	-0.6	0.0	0.0	8.3	
Condensate Equipment Bldg 2 - North Side	75.2	56.7	0.0	3.0	664.0	-67.4	1.6	-6.1	-0.6	0.0	0.0	5.7	
Condensate Equipment Bldg 2 - Roof	78.0	51.7	0.0	0.0	669.8	-67.5	1.0	-5.6	-0.5	0.0	0.0	5.4	
Condensate Equipment Bldg 2 - South Side	75.2	56.7	0.0	3.0	675.9	-67.6	1.7	-10.2	-0.3	0.0	0.0	1.7	
Condensate Equipment Bldg 2 - West Side	77.7	56.7	0.0	3.0	676.8	-67.6	1.7	-13.0	-0.3	0.0	0.0	1.5	
CTG 1 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	739.2	-68.4	3.2	-6.7	-5.7	0.0	0.0	26.2	
CTG 2 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	637.2	-67.1	2.9	-7.5	-4.5	0.0	0.0	27.6	
CTG Air Inlet 1	106.2	82.9	0.0	0.0	769.2	-68.7	3.2	-26.9	-8.4	0.0	0.1	5.5	



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Clear River Energy Center - Mean Propagation Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
CTG Air Inlet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	0.0	0.2	8.4
CTG Air Inlet Duct 1 - North	99.9	84.4	0.0	0.0	750.4	-68.5	2.7	-25.3	-2.8	0.0	1.3	7.3
CTG Air Inlet Duct 1 - South	99.9	84.4	0.0	0.0	752.0	-68.5	2.7	-26.1	-3.3	0.0	1.0	5.7
CTG Air Inlet Duct 1 - Top	99.9	83.3	0.0	0.0	751.3	-68.5	2.4	-26.6	-3.7	0.0	0.1	3.6
CTG Air Inlet Duct 2 - North	99.9	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	1.0	10.3
CTG Air Inlet Duct 2 - South	99.9	84.3	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	7.1
CTG Air Inlet Duct 2 - Top	99.9	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	-3.6	0.0	0.9	5.3
CTG Building 1 - East Facade	95.1	64.7	0.0	3.0	718.8	-68.1	0.8	-5.0	-0.3	0.0	0.0	25.4
CTG Building 1 - North Facade	94.0	64.7	0.0	3.0	727.6	-68.2	0.8	-6.7	-0.3	0.0	0.0	22.6
CTG Building 1 - Roof	89.9	59.7	0.0	0.0	733.1	-68.3	-0.1	-4.7	-0.4	0.0	0.2	16.6
CTG Building 1 - West Facade	95.1	64.7	0.0	3.0	746.3	-68.5	0.8	-17.6	-0.3	0.0	0.0	12.6
CTG Building 1 Vent Louvers - East	89.6	77.0	0.0	3.0	719.5	-68.1	1.8	-6.6	-2.6	0.0	0.0	17.0
CTG Building 1 Vent Louvers - North	89.6	77.0	0.0	3.0	719.5	-68.1	1.8	-14.1	-1.1	0.0	0.2	11.2
CTG Building 1 Vent Louvers - West	70.1	57.6	0.0	3.0	742.9	-68.4	1.3	-17.2	-0.2	0.0	0.0	-11.4
CTG Building 2 - East Facade	95.1	64.7	0.0	3.0	616.4	-66.8	0.5	-1.3	-0.3	0.0	0.0	30.2
CTG Building 2 - North Facade	94.0	64.7	0.0	3.0	624.3	-66.9	0.6	-1.9	-0.3	0.0	0.0	28.5
CTG Building 2 - Roof	89.9	59.7	0.0	0.0	630.5	-67.0	0.0	-4.6	-0.3	0.0	0.0	17.9
CTG Building 2 - West Facade	95.1	64.7	0.0	3.0	643.6	-67.2	0.5	-14.5	-0.2	0.0	0.0	16.7
CTG Building 2 Vent Louvers - East	89.6	77.0	0.0	3.0	617.4	-66.8	1.5	-0.1	-5.4	0.0	0.0	21.8
CTG Building 2 Vent Louvers - North	89.6	77.0	0.0	3.0	616.4	-66.8	1.5	-0.1	-5.4	0.0	1.4	23.2
CTG Building 2 Vent Louvers - West	89.6	77.0	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	4.9
Demin Water Pump	93.1	93.1	0.0	0.0	675.5	-67.6	3.1	-24.9	-2.0	0.0	0.5	2.2
Duct Burner Skid 1	95.0	95.0	0.0	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	2.8	5.4
Duct Burner Skid 2	95.0	95.0	0.0	0.0	613.7	-66.8	2.5	-3.6	-3.8	0.0	1.8	25.2
Emergency Diesel Generator - Side 1	8.2	-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	-3.9	0.0	2.1	-83.3
Emergency Diesel Generator - Side 2	8.2	-7.8	0.0	3.0	680.2	-67.6	3.3	-28.2	-3.8	0.0	1.2	-83.9
Emergency Diesel Generator - Top	8.2	-8.6	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	-84.8
Excitation Transformer 1	80.0	80.0	0.0	0.0	718.7	-68.1	2.2	-24.5	-1.3	0.0	2.8	-8.9
Excitation Transformer 2	80.0	80.0	0.0	0.0	617.1	-66.8	1.6	-5.3	-2.2	0.0	2.4	9.6
Fire Pump Building - Roof	-4.1	-23.3	0.0	0.0	630.7	-67.0	1.2	-5.5	-0.5	0.0	0.0	-76.0
Fire Pump Building - Side 1	-5.7	-23.3	0.0	3.0	633.9	-67.0	1.8	-11.8	-0.3	0.0	0.0	-80.1
Fire Pump Building - Side 2	-8.5	-23.3	0.0	3.0	631.3	-67.0	1.8	-6.6	-0.4	0.0	0.0	-77.7



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
Fire Pump Building - Side 3	-5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-6.4	-0.5	0.0	0.0	-74.9
Fire Pump Building - Side 4	-8.5	-23.3	0.0	3.0	630.0	-67.0	1.8	-6.4	-0.5	0.0	0.0	-77.7
Fuel Gas Dewpoint Heater	102.2	85.3	0.0	0.0	795.5	-69.0	3.9	-28.8	-15.5	0.0	0.0	-7.2
Fuel Gas Metering and Regulating Station	93.0	93.0	0.0	0.0	798.2	-69.0	3.9	-28.7	-8.8	0.0	0.0	-9.7
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	645.0	-67.2	3.0	-26.6	-3.1	0.0	0.0	-1.0
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	748.2	-68.5	3.2	-28.0	-4.1	0.0	0.0	-4.4
Gas Aftercooler 1	101.0	84.0	0.0	0.0	806.0	-69.1	3.2	-27.6	-3.9	0.0	0.0	3.6
Gas Aftercooler 2	101.0	83.9	0.0	0.0	809.0	-69.2	3.2	-27.7	-4.0	0.0	0.0	3.4
Gas Compressor Bldg Louvers - E	105.7	98.0	0.0	3.0	784.3	-68.9	2.9	-27.1	-3.1	0.0	0.0	12.6
Gas Compressor Bldg Louvers - N	105.7	98.0	0.0	3.0	790.8	-69.0	2.9	-27.3	-3.3	0.0	0.0	12.0
Gas Compressor Bldg Louvers - S	105.7	98.0	0.0	3.0	791.0	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.6
Gas Compressor Bldg Louvers - W	105.7	98.0	0.0	3.0	797.4	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.5
Gas Compressor Building - East Side	99.1	76.7	0.0	3.0	784.1	-68.9	1.7	-16.1	-0.3	0.0	0.0	18.5
Gas Compressor Building - North Side	97.5	76.7	0.0	3.0	788.6	-68.9	1.7	-16.6	-0.3	0.0	0.0	16.4
Gas Compressor Building - Roof	101.0	76.7	0.0	0.0	791.0	-69.0	1.2	-17.7	-0.4	0.0	0.0	15.1
Gas Compressor Building - South Side	97.5	76.7	0.0	3.0	793.2	-69.0	1.7	-19.5	-0.3	0.0	0.0	13.4
Gas Compressor Building - West Side	99.1	76.7	0.0	3.0	797.6	-69.0	1.7	-21.3	-0.4	0.0	0.0	13.1
GSU 1 - Side 1	94.0	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	1.4	4.2
GSU 1 - Side 2	94.0	78.0	0.0	3.0	714.6	-68.1	2.1	-25.1	-1.5	0.0	0.2	4.7
GSU 1 - Side 3	94.0	75.7	0.0	3.0	720.1	-68.1	2.1	-26.3	-1.6	0.0	1.5	4.6
GSU 1 - Side 4	94.0	78.0	0.0	3.0	728.5	-68.2	2.1	-26.5	-1.8	0.0	2.5	5.2
GSU 1 - Top	94.0	72.9	0.0	0.0	721.4	-68.2	1.8	-23.9	-1.3	0.0	1.7	4.2
GSU 2 - Side 1	94.0	75.7	0.0	3.0	623.4	-66.9	1.6	-13.1	-1.2	0.0	0.3	17.7
GSU 2 - Side 2	94.0	78.0	0.0	3.0	615.0	-66.8	1.2	-1.9	-2.6	0.0	0.0	27.0
GSU 2 - Side 3	94.0	75.7	0.0	3.0	620.1	-66.8	1.6	-6.8	-2.1	0.0	0.5	23.3
GSU 2 - Side 4	94.0	78.0	0.0	3.0	628.6	-67.0	1.7	-18.3	-1.0	0.0	2.0	14.4
GSU 2 - Top	94.0	72.9	0.0	0.0	621.5	-66.9	1.1	-6.3	-1.7	0.0	1.7	22.0
HRSG 1 - Body - Side 1	97.0	66.6	0.0	3.0	730.9	-68.3	0.7	-16.6	-0.4	0.0	0.0	15.5
HRSG 1 - Body - Side 2	97.0	66.6	0.0	3.0	720.4	-68.1	0.7	-4.2	-0.7	0.0	0.0	27.8
HRSG 1 - Exhaust Stack	102.4	102.4	0.0	0.0	724.6	-68.2	2.0	0.0	-0.4	-3.6	0.0	32.3
HRSG 1 - Piping and Valves	98.5	80.0	0.0	0.0	744.6	-68.4	0.5	-17.1	-0.5	0.0	0.2	13.1
HRSG 1 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	721.3	-68.2	2.0	-0.8	-0.1	0.0	0.0	1.5



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG 1 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	719.5	-68.1	2.0	-1.5	-0.2	0.0	0.0	0.8	
HRSG 1 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	-0.2	0.0	0.0	-1.2	
HRSG 1 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	720.4	-68.1	2.0	-3.7	-0.2	0.0	0.0	-1.5	
HRSG 1 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	722.6	-68.2	2.0	-4.4	-0.2	0.0	0.0	-2.2	
HRSG 1 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	-6.2	-0.1	0.0	0.0	-3.9	
HRSG 1 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	724.7	-68.2	2.0	-6.9	-0.1	0.0	0.0	-4.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	-8.5	-0.2	0.0	0.0	-6.3	
HRSG 1 - T1 - Side 1	96.6	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	-0.4	0.0	0.5	15.1	
HRSG 1 - T1 - Side 2	96.6	81.2	0.0	3.0	727.2	-68.2	1.6	-11.1	-0.4	0.0	1.0	22.6	
HRSG 1 - T1 - Top	96.6	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	0.0	2.1	18.0	
HRSG 1 - T2 - Side 1	96.6	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	-0.4	0.0	0.1	14.5	
HRSG 1 - T2 - Side 2	96.6	76.2	0.0	3.0	725.7	-68.2	1.0	-8.3	-0.4	0.0	0.0	23.8	
HRSG 1 - T2 - Top	96.6	80.4	0.0	0.0	730.5	-68.3	-0.1	-7.5	-0.5	0.0	0.3	20.6	
HRSG 2 - Body - Side 1	97.0	66.6	0.0	3.0	626.6	-66.9	0.4	-15.8	-0.3	0.0	0.0	17.5	
HRSG 2 - Body - Side 2	97.0	66.6	0.0	3.0	616.2	-66.8	0.5	-1.3	-0.7	0.0	0.0	31.8	
HRSG 2 - Exhaust Stack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0.0	-0.3	-3.6	0.0	33.4	
HRSG 2 - Piping and Valves	98.5	80.1	0.0	0.0	640.8	-67.1	0.2	-13.2	-0.5	0.0	2.7	20.6	
HRSG 2 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	616.7	-66.8	1.9	-0.8	-0.1	0.0	0.0	2.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	614.9	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.3	
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	615.5	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	617.8	-66.8	1.9	-4.4	-0.1	0.0	0.0	-0.9	
HRSG 2 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	619.6	-66.8	1.9	-6.1	-0.1	0.0	0.0	-2.6	
HRSG 2 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	620.0	-66.8	1.9	-7.0	-0.1	0.0	0.0	-3.5	
HRSG 2 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	618.9	-66.8	1.9	-7.8	-0.1	0.0	0.0	-4.3	
HRSG 2 - T1 - Side 1	96.6	81.2	0.0	3.0	631.2	-67.0	1.0	-10.7	-0.2	0.0	0.5	23.2	
HRSG 2 - T1 - Side 2	96.6	81.2	0.0	3.0	624.0	-66.9	1.2	-3.9	-0.9	0.0	2.0	31.2	
HRSG 2 - T1 - Top	96.6	82.8	0.0	0.0	627.9	-66.9	0.7	-5.4	-0.4	0.0	2.4	27.0	
HRSG 2 - T2 - Side 1	96.6	76.2	0.0	3.0	631.1	-67.0	0.6	-12.3	-0.3	0.0	0.1	20.8	
HRSG 2 - T2 - Side 2	96.6	76.2	0.0	3.0	622.3	-66.9	0.7	-1.8	-0.7	0.0	0.7	31.6	
HRSG 2 - T2 - Top	96.6	80.4	0.0	0.0	627.4	-66.9	0.0	-6.0	-0.6	0.0	0.7	23.7	
HRSG Recirc Pump 1	93.0	93.0	0.0	0.0	711.2	-68.0	3.1	-26.3	-2.6	0.0	8.1	7.3	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG Recirc Pump 2	93.0	93.0	0.0	0.0	606.4	-66.6	2.8	-7.3	-3.6	0.0	2.2	20.6	
Isolation Transformer 1	80.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	-1.3	0.0	8.5	-3.9	
Isolation Transformer 2	80.0	80.0	0.0	0.0	601.3	-66.6	1.2	-2.9	-2.8	0.0	2.4	11.4	
Rooftop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	-4.4	-4.9	0.0	0.0	15.2	
Rooftop Vent Fan - Admin 2	87.8	87.8	0.0	0.0	612.2	-66.7	2.8	-7.5	-2.7	0.0	0.0	13.7	
Rooftop Vent Fan - Admin 3	87.8	87.8	0.0	0.0	589.4	-66.4	2.8	-7.5	-2.7	0.0	0.0	13.9	
Rooftop Vent Fan - Admin 4	87.8	87.8	0.0	0.0	614.6	-66.8	2.8	-7.6	-2.8	0.0	1.4	14.9	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	-2.0	-5.1	0.0	0.0	16.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	753.2	-68.5	3.0	-6.0	-2.7	0.0	0.0	13.6	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.8	0.0	0.0	735.3	-68.3	3.0	-6.8	-2.7	0.0	0.0	12.9	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.8	0.0	0.0	724.3	-68.2	2.9	-6.5	-2.7	0.0	0.0	13.3	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.8	0.0	0.0	728.3	-68.2	2.9	-3.1	-3.4	0.0	0.0	16.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.8	0.0	0.0	632.6	-67.0	2.7	-7.4	-2.9	0.0	0.0	13.2	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.8	0.0	0.0	627.4	-66.9	2.7	-0.7	-4.0	0.0	0.0	18.8	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	-0.8	-4.0	0.0	0.0	18.8	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.8	0.0	0.0	790.3	-68.9	3.1	-17.9	-1.3	0.0	0.0	2.7	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	3.1	-18.6	-1.5	0.0	0.0	1.9	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	3.1	-18.3	-1.5	0.0	0.0	2.2	
Rooftop Vent Fan - STG Bldg 1	87.8	87.8	0.0	0.0	658.3	-67.4	2.8	-7.5	-2.9	0.0	0.0	12.8	
Rooftop Vent Fan - STG Bldg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	-4.1	0.0	0.0	18.7	
Rooftop Vent Fan - STG Bldg 3	87.8	87.8	0.0	0.0	645.9	-67.2	2.7	-7.5	-2.9	0.0	0.0	12.9	
Rooftop Vent Fan - STG Bldg 4	87.8	87.8	0.0	0.0	735.2	-68.3	2.9	-7.2	-2.9	0.0	0.0	12.3	
Rooftop Vent Fan - STG Bldg 5	87.8	87.8	0.0	0.0	758.9	-68.6	3.0	-7.8	-3.1	0.0	0.0	11.3	
Rooftop Vent Fan - STG Bldg 6	87.8	87.8	0.0	0.0	746.0	-68.4	3.0	-7.1	-2.8	0.0	0.0	12.3	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.8	0.0	0.0	700.5	-67.9	3.0	-7.7	-3.0	0.0	0.0	12.1	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.8	0.0	0.0	680.5	-67.6	3.0	-7.1	-2.7	0.0	0.0	13.3	
Safety Vent	29.0	29.0	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	-51.9	
Scanner Cooling Air Blower 1	93.1	93.1	0.0	0.0	728.1	-68.2	3.2	-5.0	-3.8	0.0	0.0	19.2	
Scanner Cooling Air Blower 2	93.1	93.1	0.0	0.0	624.3	-66.9	2.9	-0.1	-4.5	0.0	0.0	24.5	
Service Water Pump	93.1	93.1	0.0	0.0	662.7	-67.4	3.0	-26.9	-2.9	0.0	0.3	-0.7	
Startup Vent - Aux Boiler Blowdown	114.2	114.2	0.0	0.0	680.1	-67.6	1.3	0.0	-8.4	-8.0	0.0	31.5	
Startup Vent - Aux Boiler Startup	114.2	114.2	0.0	0.0	683.5	-67.7	1.3	0.0	-8.4	-8.0	0.0	31.4	



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Clear River Energy Center - Mean Propagation Typical Rapid Startup Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
Startup Vent - HRSG Blowdown 1	114.2	114.2	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	33.2
Startup Vent - HRSG Blowdown 2	114.2	114.2	0.0	0.0	713.7	-68.1	1.3	0.0	-8.5	-7.8	0.6	31.7
Startup Vent - Steam Turbine Drains Tank	114.2	114.2	0.0	0.0	653.9	-67.3	2.6	-0.1	-8.6	-8.6	0.0	32.2
Steam Turbine Bldg 1 - East Facade	92.4	64.9	0.0	3.0	726.9	-68.2	1.2	-7.6	-0.3	0.0	0.0	20.5
Steam Turbine Bldg 1 - North Facade	90.7	64.9	0.0	3.0	757.1	-68.6	1.2	-14.8	-0.3	0.0	0.0	11.2
Steam Turbine Bldg 1 - Roof	88.8	59.9	0.0	0.0	746.8	-68.5	0.2	-6.2	-0.5	0.0	0.2	14.1
Steam Turbine Bldg 1 - South Facade	95.7	64.9	0.0	3.0	748.9	-68.5	1.2	-15.0	-0.2	0.0	0.0	16.3
Steam Turbine Bldg 1 - West Facade	92.4	64.9	0.0	3.0	765.7	-68.7	1.2	-18.3	-0.3	0.0	0.0	9.4
Steam Turbine Bldg 2 - East Facade	92.4	64.9	0.0	3.0	626.1	-66.9	0.9	-1.0	-0.4	0.0	0.0	28.0
Steam Turbine Bldg 2 - North Facade	90.7	64.9	0.0	3.0	655.2	-67.3	1.0	-10.1	-0.2	0.0	0.0	17.0
Steam Turbine Bldg 2 - Roof	88.8	59.9	0.0	0.0	645.7	-67.2	0.2	-4.9	-0.5	0.0	0.0	16.4
Steam Turbine Bldg 2 - South Facade 1	95.7	64.9	0.0	3.0	647.9	-67.2	0.9	-9.2	-0.2	0.0	0.1	23.0
Steam Turbine Bldg 2 - West Facade	92.4	64.9	0.0	3.0	664.1	-67.4	1.0	-16.7	-0.2	0.0	0.0	12.0
STG Building 1 Vent Louvers - East	89.3	76.8	0.0	3.0	726.6	-68.2	1.4	-14.1	-1.0	0.0	0.0	10.4
STG Building 1 Vent Louvers - South 1	89.3	76.8	0.0	3.0	758.9	-68.6	1.5	-21.6	-1.4	0.0	0.0	2.2
STG Building 1 Vent Louvers - South 2	89.3	76.8	0.0	3.0	737.1	-68.3	1.4	-20.4	-1.3	0.0	0.0	3.7
STG Building 1 Vent Louvers - West	89.3	76.8	0.0	3.0	765.8	-68.7	1.5	-24.0	-1.8	0.0	0.7	0.0
STG Building 2 Vent Louvers - East	89.3	76.8	0.0	3.0	625.6	-66.9	1.0	0.0	-3.0	0.0	0.0	23.5
STG Building 2 Vent Louvers - South 1	89.3	76.8	0.0	3.0	657.9	-67.4	1.1	-17.2	-1.1	0.0	0.0	7.8
STG Building 2 Vent Louvers - South 2	89.3	76.8	0.0	3.0	636.5	-67.1	1.1	-13.2	-1.2	0.0	0.0	12.0
STG Building 2 Vent Louvers - West	89.3	76.8	0.0	3.0	664.2	-67.4	1.2	-23.4	-1.5	0.0	0.0	1.1
STW Heat Exchanger 1	102.0	90.9	0.0	0.0	747.9	-68.5	3.1	-28.0	-4.2	0.0	0.0	4.5
STW Heat Exchanger 2	102.0	90.9	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	8.5
Waste Water Pump	93.1	93.1	0.0	0.0	669.7	-67.5	3.1	-25.8	-2.3	0.0	0.0	0.5
Water Treatment Building - East Side	78.9	56.7	0.0	3.0	660.8	-67.4	1.5	-6.1	-0.5	0.0	0.0	9.5
Water Treatment Building - North Side	83.3	56.7	0.0	3.0	684.3	-67.7	1.5	-4.5	-0.5	0.0	0.0	15.1
Water Treatment Building - Roof	86.4	56.7	0.0	0.0	685.7	-67.7	0.9	-5.6	-0.6	0.0	0.0	13.5
Water Treatment Building - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	1.5	-14.9	-0.3	0.0	0.0	4.8
Water Treatment Building - West Side	78.9	56.7	0.0	3.0	711.6	-68.0	1.6	-15.1	-0.3	0.0	0.0	0.0
WTB Ventilation Louvers - North Side	90.0	78.0	0.0	3.0	679.3	-67.6	2.6	-5.2	-3.1	0.0	0.0	19.6
WTB Ventilation Louvers - South Side	90.0	78.0	0.0	3.0	693.0	-67.8	2.6	-22.9	-2.1	0.0	0.0	2.9

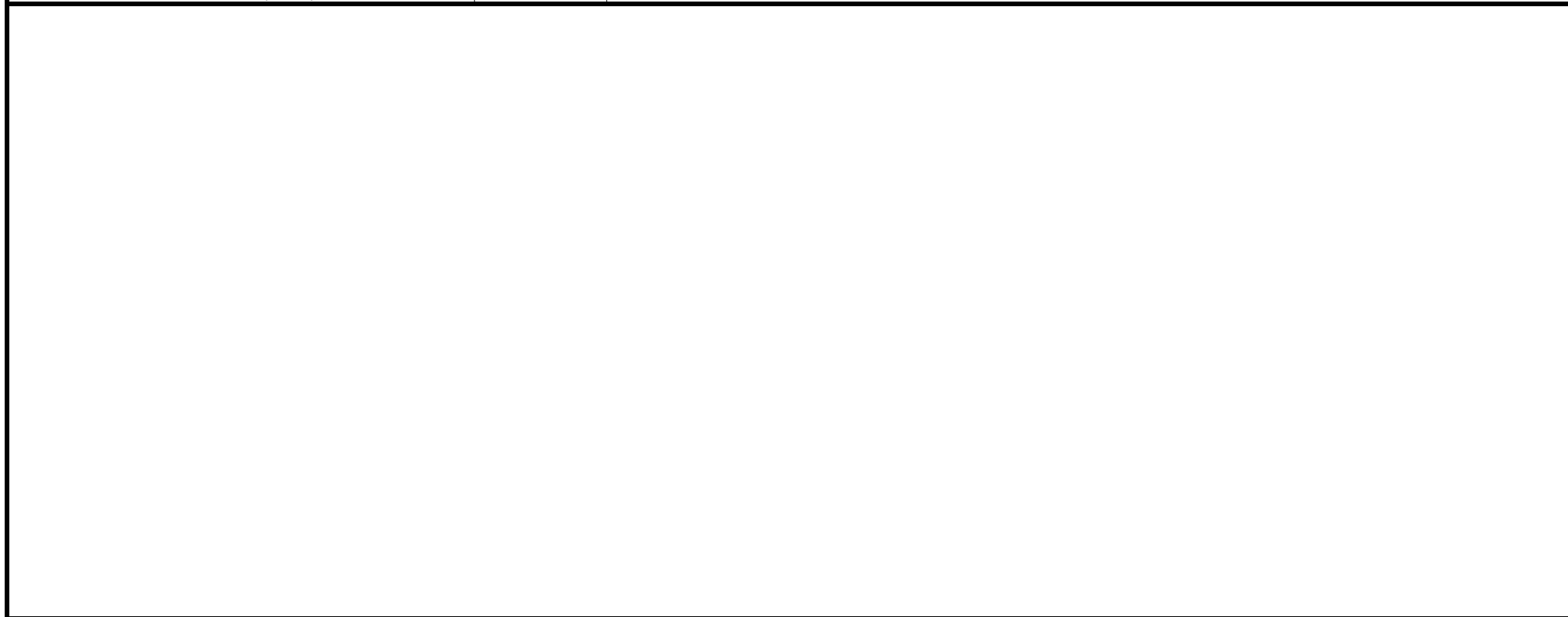


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Typical Shutdown

Clear River Energy Center - Receiver Sound Levels Typical Shutdown Analysis - A-Weight - ISO9613

Name	SPL dB(A)	
M1 - Wallum Lake Road	45.1	
M2 - Jackson Schoolhouse Road (East)	42.8	
M3 - Doe Crossing Drive	40.7	
M4 - Buck Hill Road	41.4	
M5 - Jackson Schoolhouse Road (South)	36.2	



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Clear River Energy Center - Receiver Spectra Typical Shutdown Analysis - A-Weight - ISO9613

31Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
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Receiver	M1 - Wallum Lake Road								
	63.3	62.7	56.0	47.3	39.2	35.8	33.0	17.5	-37.8
Receiver	M2 - Jackson Schoolhouse Road (East)								
	62.8	61.4	52.9	45.2	38.5	33.1	27.7	8.5	
Receiver	M3 - Doe Crossing Drive								
	58.8	58.5	51.1	44.1	35.5	30.8	24.3	-6.6	
Receiver	M4 - Buck Hill Road								
	59.8	59.9	51.5	44.4	36.3	32.3	23.7	-12.5	
Receiver	M5 - Jackson Schoolhouse Road (South)								
	56.7	56.0	46.8	39.6	30.6	23.4	14.1	-29.8	



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Clear River Energy Center - Source List

Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 1 Duct - Finger 1 A	75.9	52.00	Area	0	247.24	93.5	89.2	85.1	79.7	74.3	64.0	58.8	48.1	-29.9	
ACC 1 Duct - Finger 1 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 1 Duct - Finger 1 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 1 Duct - Finger 2 A	76.0	52.00	Area	0	249.06	93.5	89.3	85.2	79.7	74.3	64.1	58.9	48.1	-29.8	
ACC 1 Duct - Finger 2 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 1 Duct - Finger 2 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 1 Duct - Finger 3 A	76.0	52.00	Area	0	250.50	93.5	89.3	85.2	79.7	74.3	64.1	58.9	48.1	-29.8	
ACC 1 Duct - Finger 3 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 1 Duct - Finger 3 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 1 Duct - HRH Bypass Bell A	83.8	72.00	Area	0	15.17	101.3	97.1	93.0	87.5	82.1	71.9	66.7	55.9	-22.0	
ACC 1 Duct - HRH Bypass Bell B	83.8	72.00	Area	0	15.18	101.3	97.1	93.0	87.5	82.1	71.9	66.7	55.9	-22.0	
ACC 1 Duct - HRH Bypass Bell C	83.9	72.00	Area	0	15.37	101.4	97.2	93.1	87.6	82.2	72.0	66.8	56.0	-21.9	
ACC 1 Duct - HRH Bypass Bell D	83.6	72.00	Area	0	14.54	101.2	96.9	92.8	87.3	82.0	71.7	66.5	55.7	-22.2	
ACC 1 Duct - HRH Bypass Bell E	83.9	72.00	Area	0	15.34	101.4	97.1	93.1	87.6	82.2	72.0	66.8	56.0	-21.9	
ACC 1 Duct - HRH Bypass Tube A	72.6	69.00	Area	0	2.28	90.1	85.9	81.8	76.3	70.9	60.7	55.5	44.7	-33.2	
ACC 1 Duct - HRH Bypass Tube B	72.6	69.00	Area	0	2.29	90.1	85.9	81.8	76.3	70.9	60.7	55.5	44.7	-33.2	
ACC 1 Duct - HRH Bypass Tube C	72.6	69.00	Area	0	2.29	90.1	85.9	81.8	76.3	70.9	60.7	55.5	44.7	-33.2	
ACC 1 Duct - HRH Bypass Tube D	72.6	69.00	Area	0	2.28	90.1	85.9	81.8	76.3	70.9	60.7	55.5	44.7	-33.2	
ACC 1 Duct - LP Bypass Bell A	82.8	71.00	Area	0	15.17	100.3	96.1	92.0	86.5	81.1	70.9	65.7	54.9	-23.0	
ACC 1 Duct - LP Bypass Bell B	82.8	71.00	Area	0	15.18	100.3	96.1	92.0	86.5	81.1	70.9	65.7	54.9	-23.0	
ACC 1 Duct - LP Bypass Bell C	82.9	71.00	Area	0	15.37	100.4	96.2	92.1	86.6	81.2	71.0	65.8	55.0	-22.9	
ACC 1 Duct - LP Bypass Bell D	82.6	71.00	Area	0	14.54	100.2	95.9	91.8	86.3	81.0	70.7	65.5	54.7	-23.2	
ACC 1 Duct - LP Bypass Bell E	82.9	71.00	Area	0	15.34	100.4	96.1	92.1	86.6	81.2	71.0	65.8	55.0	-22.9	
ACC 1 Duct - LP Bypass Tube A	71.6	68.00	Area	0	2.30	89.2	84.9	80.8	75.3	69.9	59.7	54.5	43.7	-34.2	
ACC 1 Duct - LP Bypass Tube B	71.6	68.00	Area	0	2.30	89.2	84.9	80.8	75.3	70.0	59.7	54.5	43.7	-34.2	
ACC 1 Duct - LP Bypass Tube C	71.6	68.00	Area	0	2.30	89.2	84.9	80.8	75.4	70.0	59.7	54.5	43.7	-34.2	
ACC 1 Duct - LP Bypass Tube D	71.6	68.00	Area	0	2.30	89.2	84.9	80.8	75.3	69.9	59.7	54.5	43.7	-34.2	
ACC 1 Duct - Main A	93.4	72.00	Area	0	136.57	110.9	106.6	102.5	97.1	91.7	81.4	76.2	65.5	-12.4	
ACC 1 Duct - Main B	87.7	72.00	Area	0	37.17	105.2	101.0	96.9	91.4	86.0	75.8	70.6	59.8	-18.1	
ACC 1 Duct - Main C	91.1	72.00	Area	0	80.99	108.6	104.4	100.3	94.8	89.4	79.2	74.0	63.2	-14.7	
ACC 1 Duct - Main D	87.7	72.00	Area	0	37.41	105.3	101.0	96.9	91.5	86.1	75.8	70.6	59.9	-18.1	
ACC 1 Duct - Main E	85.0	72.00	Area	0	19.86	102.5	98.3	94.2	88.7	83.3	73.1	67.9	57.1	-20.8	



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Clear River Energy Center - Source List

Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Duct - Main F	84.6	72.00	Area	0	18.21	102.1	97.9	93.8	88.3	82.9	72.7	67.5	56.7	-21.2	
ACC 1 Duct - Main G	91.1	72.00	Area	0	81.62	108.7	104.4	100.3	94.8	89.4	79.2	74.0	63.2	-14.7	
ACC 1 Duct - Main H	93.4	72.00	Area	0	136.57	110.9	106.6	102.5	97.1	91.7	81.4	76.2	65.5	-12.4	
ACC 1 Duct - Main M	84.9	72.00	Area	0	19.41	102.4	98.2	94.1	88.6	83.2	73.0	67.8	57.0	-20.9	
ACC 1 Duct - Main N	93.5	72.00	Area	0	142.12	111.1	106.8	102.7	97.3	91.9	81.6	76.4	65.6	-12.3	
ACC 1 Duct - Main O	92.8	72.00	Area	0	120.75	110.4	106.1	102.0	96.5	91.1	80.9	75.7	64.9	-13.0	
ACC 1 Duct - Main P	92.8	72.00	Area	0	121.31	110.4	106.1	102.0	96.6	91.2	80.9	75.7	65.0	-13.0	
ACC 1 Duct - Main Q	92.9	72.00	Area	0	121.95	110.4	106.2	102.1	96.6	91.2	81.0	75.8	65.0	-12.9	
ACC 1 Duct - Main R	85.4	72.00	Area	0	21.64	102.9	98.6	94.5	89.1	83.7	73.4	68.2	57.5	-20.4	
ACC 1 Duct - Main S	85.2	72.00	Area	0	21.04	102.8	98.5	94.4	89.0	83.6	73.3	68.1	57.4	-20.6	
ACC 1 Duct - Riser 1 A	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 1 Duct - Riser 1 B	80.1	62.00	Area	0	64.21	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 1 Duct - Riser 1 C	80.0	62.00	Area	0	63.57	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 1 Duct - Riser 1 D	80.1	62.00	Area	0	64.39	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 1 Duct - Riser 2 A	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 1 Duct - Riser 2 B	80.1	62.00	Area	0	64.21	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 1 Duct - Riser 2 C	80.0	62.00	Area	0	63.56	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 1 Duct - Riser 2 D	80.1	62.00	Area	0	64.39	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 1 Duct - Riser 3 A	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 1 Duct - Riser 3 B	80.1	62.00	Area	0	64.20	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 1 Duct - Riser 3 C	80.0	62.00	Area	0	63.58	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 1 Duct - Riser 3 D	80.1	62.00	Area	0	64.39	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 1 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Duct - Finger 1 A	75.9	52.00	Area	0	247.24	93.5	89.2	85.1	79.7	74.3	64.0	58.8	48.1	-29.9	
ACC 2 Duct - Finger 1 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 2 Duct - Finger 1 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 2 Duct - Finger 2 A	76.0	52.00	Area	0	249.06	93.5	89.3	85.2	79.7	74.3	64.1	58.9	48.1	-29.8	
ACC 2 Duct - Finger 2 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 2 Duct - Finger 2 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 2 Duct - Finger 3 A	76.0	52.00	Area	0	250.50	93.5	89.3	85.2	79.7	74.3	64.1	58.9	48.1	-29.8	
ACC 2 Duct - Finger 3 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	
ACC 2 Duct - Finger 3 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	74.2	64.0	58.8	48.0	-29.9	



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Clear River Energy Center - Source List

Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 2 Duct - HRH Bypass Bell A	83.8	72.00	Area	0	15.18	101.3	97.1	93.0	87.5	82.1	71.9	66.7	55.9	-22.0	
ACC 2 Duct - HRH Bypass Bell B	83.8	72.00	Area	0	15.18	101.3	97.1	93.0	87.5	82.1	71.9	66.7	55.9	-22.0	
ACC 2 Duct - HRH Bypass Bell C	83.9	72.00	Area	0	15.37	101.4	97.2	93.1	87.6	82.2	72.0	66.8	56.0	-21.9	
ACC 2 Duct - HRH Bypass Bell D	83.6	72.00	Area	0	14.54	101.2	96.9	92.8	87.4	82.0	71.7	66.5	55.7	-22.2	
ACC 2 Duct - HRH Bypass Bell E	83.9	72.00	Area	0	15.34	101.4	97.1	93.1	87.6	82.2	72.0	66.8	56.0	-21.9	
ACC 2 Duct - HRH Bypass Tube A	72.6	69.00	Area	0	2.30	90.2	85.9	81.8	76.3	71.0	60.7	55.5	44.7	-33.2	
ACC 2 Duct - HRH Bypass Tube B	72.6	69.00	Area	0	2.30	90.1	85.9	81.8	76.3	70.9	60.7	55.5	44.7	-33.2	
ACC 2 Duct - HRH Bypass Tube C	72.6	69.00	Area	0	2.30	90.2	85.9	81.8	76.3	70.9	60.7	55.5	44.7	-33.2	
ACC 2 Duct - HRH Bypass Tube D	72.6	69.00	Area	0	2.30	90.2	85.9	81.8	76.3	71.0	60.7	55.5	44.7	-33.2	
ACC 2 Duct - LP Bypass Bell A	82.8	71.00	Area	0	15.18	100.3	96.1	92.0	86.5	81.1	70.9	65.7	54.9	-23.0	
ACC 2 Duct - LP Bypass Bell B	82.8	71.00	Area	0	15.18	100.3	96.1	92.0	86.5	81.1	70.9	65.7	54.9	-23.0	
ACC 2 Duct - LP Bypass Bell C	82.9	71.00	Area	0	15.37	100.4	96.2	92.1	86.6	81.2	71.0	65.8	55.0	-22.9	
ACC 2 Duct - LP Bypass Bell D	82.6	71.00	Area	0	14.54	100.2	95.9	91.8	86.4	81.0	70.7	65.5	54.7	-23.2	
ACC 2 Duct - LP Bypass Bell E	82.9	71.00	Area	0	15.34	100.4	96.1	92.1	86.6	81.2	71.0	65.8	55.0	-22.9	
ACC 2 Duct - LP Bypass Tube A	71.6	68.00	Area	0	2.31	89.2	84.9	80.8	75.4	70.0	59.7	54.5	43.8	-34.2	
ACC 2 Duct - LP Bypass Tube B	71.6	68.00	Area	0	2.31	89.2	84.9	80.8	75.4	70.0	59.7	54.5	43.8	-34.2	
ACC 2 Duct - LP Bypass Tube C	71.6	68.00	Area	0	2.31	89.2	84.9	80.8	75.4	70.0	59.7	54.5	43.8	-34.2	
ACC 2 Duct - LP Bypass Tube D	71.6	68.00	Area	0	2.31	89.2	84.9	80.8	75.4	70.0	59.7	54.5	43.8	-34.2	
ACC 2 Duct - Main A	89.2	72.00	Area	0	52.37	106.7	102.5	98.4	92.9	87.5	77.3	72.1	61.3	-16.6	
ACC 2 Duct - Main B	87.6	72.00	Area	0	36.49	105.2	100.9	96.8	91.3	85.9	75.7	70.5	59.7	-18.2	
ACC 2 Duct - Main D	87.8	72.00	Area	0	37.90	105.3	101.1	97.0	91.5	86.1	75.9	70.7	59.9	-18.0	
ACC 2 Duct - Main E	84.6	72.00	Area	0	18.33	102.2	97.9	93.8	88.4	83.0	72.7	67.5	56.8	-21.2	
ACC 2 Duct - Main F	84.2	72.00	Area	0	16.54	101.7	97.5	93.4	87.9	82.5	72.3	67.1	56.3	-21.6	
ACC 2 Duct - Main H	89.2	72.00	Area	0	52.36	106.7	102.5	98.4	92.9	87.5	77.3	72.1	61.3	-16.6	
ACC 2 Duct - Main M	84.9	72.00	Area	0	19.41	102.4	98.2	94.1	88.6	83.2	73.0	67.8	57.0	-20.9	
ACC 2 Duct - Main N	93.5	72.00	Area	0	142.12	111.1	106.8	102.7	97.3	91.9	81.6	76.4	65.6	-12.3	
ACC 2 Duct - Main O	92.8	72.00	Area	0	121.31	110.4	106.1	102.0	96.6	91.2	80.9	75.7	65.0	-13.0	
ACC 2 Duct - Main P	92.8	72.00	Area	0	120.75	110.4	106.1	102.0	96.5	91.1	80.9	75.7	64.9	-13.0	
ACC 2 Duct - Main Q	85.4	72.00	Area	0	21.64	102.9	98.6	94.5	89.1	83.7	73.4	68.2	57.5	-20.4	
ACC 2 Duct - Main R	85.2	72.00	Area	0	21.01	102.8	98.5	94.4	88.9	83.6	73.3	68.1	57.3	-20.6	
ACC 2 Duct - Main S	92.9	72.00	Area	0	121.95	110.4	106.2	102.1	96.6	91.2	81.0	75.8	65.0	-12.9	
ACC 2 Duct - Riser 1 A	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 2 Duct - Riser 1 B	80.1	62.00	Area	0	64.21	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	



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Clear River Energy Center - Source List

Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 2 Duct - Riser 1 C	80.0	62.00	Area	0	63.57	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 2 Duct - Riser 1 D	80.1	62.00	Area	0	64.39	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 2 Duct - Riser 2 A	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 2 Duct - Riser 2 B	80.1	62.00	Area	0	64.21	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 2 Duct - Riser 2 C	80.0	62.00	Area	0	63.56	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 2 Duct - Riser 2 D	80.1	62.00	Area	0	64.39	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 2 Duct - Riser 3 A	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 2 Duct - Riser 3 B	80.1	62.00	Area	0	64.20	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 2 Duct - Riser 3 C	80.0	62.00	Area	0	63.58	97.6	93.3	89.2	83.8	78.4	68.1	62.9	52.2	-25.8	
ACC 2 Duct - Riser 3 D	80.1	62.00	Area	0	64.39	97.6	93.4	89.3	83.8	78.4	68.2	63.0	52.2	-25.7	
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACHE 1	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
ACHE 2	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Ammonia Forwarding Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Ammonia Injection Skid 1	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Aux Boiler Building - East Side	88.0	64.26	Area	3	234.94	108.8	102.7	100.7	91.7	81.7	68.7	57.7	51.7	43.7	
Aux Boiler Building - North Side	88.5	64.26	Area	3	268.09	109.3	103.3	101.3	92.3	82.3	69.3	58.3	52.3	44.3	
Aux Boiler Building - Roof	91.9	64.26	Area	0	579.10	112.7	106.6	104.6	95.7	85.7	72.6	61.6	55.7	47.6	
Aux Boiler Building - South Side	88.5	64.26	Area	3	268.09	109.3	103.3	101.3	92.3	82.3	69.3	58.3	52.3	44.3	
Aux Boiler Building - West Side	88.0	64.26	Area	3	235.85	108.8	102.7	100.7	91.8	81.8	68.7	57.7	51.8	43.7	
Aux Boiler Building Vent Louvers - North	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler Building Vent Louvers - South	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler FD Fan Inlet	100.0	100.00	Point	0		102.3	102.8	101.7	101.7	98.8	94.8	87.8	80.8	75.7	
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2	102.2	100.2	99.2	97.2	93.2	90.2	87.2	94.2	
Aux Transformer 1 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	



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Clear River Energy Center - Source List

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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Aux Transformer 2 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
BFW Pump Enclosure 1-Side 1	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	3	107.28	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 1-Side 3	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9
BFW Pump Enclosure 1-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 1-Top	103.5	76.92	Area	0	452.03	119.5	116.9	113.9	108.9	96.9	90.9	86.9	78.9	72.9
BFW Pump Enclosure 2-Side 1	94.4	76.92	Area	3	55.67	110.4	107.8	104.8	99.8	87.8	81.8	77.8	69.8	63.8
BFW Pump Enclosure 2-Side 2	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 2-Side 3	94.4	76.92	Area	3	55.43	110.4	107.8	104.7	99.8	87.8	81.8	77.8	69.8	63.8
BFW Pump Enclosure 2-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 2-Top	103.4	76.92	Area	0	445.84	119.4	116.9	113.8	108.8	96.9	90.9	86.9	78.9	72.8
Condensate Equipment Bldg 1 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 1 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 1 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2
Condensate Equipment Bldg 1 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 1 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 2 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 2 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 2 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2
Condensate Equipment Bldg 2 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 2 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
CTG 1 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0
CTG 2 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0
CTG Air Inlet 1	106.2	82.90	Area	0	213.41	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0
CTG Air Inlet 2	106.2	82.93	Area	0	211.99	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0
CTG Air Inlet Duct 1 - North	99.9	84.40	Area	0	35.83	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 1 - South	99.9	84.44	Area	0	35.50	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 1 - Top	99.9	83.26	Area	0	46.57	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 2 - North	99.9	84.32	Area	0	36.52	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 2 - South	99.9	84.29	Area	0	36.74	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
CTG Air Inlet Duct 2 - Top	99.9	83.15	Area	0	47.70	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Building 1 - East Facade	95.1	64.70	Area	3	1101.55	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 1 - North Facade	94.0	64.70	Area	3	851.17	115.6	109.4	108.7	93.7	82.9	72.6	68.3	65.4	56.5
CTG Building 1 - Roof	89.9	59.70	Area	0	1047.08	111.5	105.3	104.6	89.6	78.8	68.5	64.2	61.3	52.4
CTG Building 1 - West Facade	95.1	64.70	Area	3	1100.83	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 1 Vent Louvers - East	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 1 Vent Louvers - North	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 1 Vent Louvers - West	70.1	57.55	Area	3	18.00	96.3	87.6	84.9	65.9	54.1	42.8	37.5	36.6	30.7
CTG Building 2 - East Facade	95.1	64.70	Area	3	1100.24	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 2 - North Facade	94.0	64.70	Area	3	852.46	115.6	109.4	108.7	93.7	82.9	72.6	68.3	65.4	56.5
CTG Building 2 - Roof	89.9	59.70	Area	0	1045.75	111.5	105.3	104.6	89.6	78.8	68.5	64.2	61.3	52.4
CTG Building 2 - West Facade	95.1	64.70	Area	3	1098.21	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 2 Vent Louvers - East	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 2 Vent Louvers - North	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 2 Vent Louvers - West	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
Demin Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0
Duct Burner Skid 1	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9
Duct Burner Skid 2	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9
Emergency Diesel Generator - Side 1	8.2	-7.75	Area	3	38.95	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Emergency Diesel Generator - Side 2	8.2	-7.76	Area	3	39.02	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Emergency Diesel Generator - Top	8.2	-8.56	Area	0	46.93	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Excitation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6
Excitation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6
Fire Pump Building - Roof	-4.1	-23.30	Area	0	82.33	10.1	13.1	7.1	1.1	-12.9	-21.9	-28.9	-34.9	-35.9
Fire Pump Building - Side 1	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5
Fire Pump Building - Side 2	-8.5	-23.30	Area	3	29.99	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3
Fire Pump Building - Side 3	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5
Fire Pump Building - Side 4	-8.5	-23.30	Area	3	30.11	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.02	97.9	95.7	83.8	81.7	76.0	77.8	85.5	83.9	103.1
Fuel Gas Metering and Regulating Station	93.0	93.00	Point	0		-15.6	-15.6	-15.6	72.4	74.4	79.4	89.4	87.4	79.4
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9
Gas Aftercooler 1	101.0	84.00	Area	0	50.09	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2



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Clear River Energy Center - Source List

Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Gas Aftercooler 2	101.0	83.86	Area	0	51.73	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	
Gas Compressor Bldg Louvers - E	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - N	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - S	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - W	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Building - East Side	99.1	76.70	Area	3	173.15	113.3	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
Gas Compressor Building - North Side	97.5	76.70	Area	3	119.51	111.7	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - Roof	101.0	76.70	Area	0	269.92	115.3	118.2	112.2	106.3	92.3	83.2	76.2	70.3	69.2	
Gas Compressor Building - South Side	97.5	76.70	Area	3	120.04	111.8	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - West Side	99.1	76.70	Area	3	173.41	113.4	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
GSU 1 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
HRSG 1 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 1 - Piping and Valves	98.5	80.00	Line	0	71.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 1 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
HRSG 1 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 2 - Piping and Valves	98.5	80.06	Line	0	70.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 2 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG Recirc Pump 1	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
HRSG Recirc Pump 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Isolation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Isolation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Rooftop Vent Fan - Admin 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Safety Vent	29.0	29.00	Point	0		13.4	20.9	27.0	28.0	18.0	10.8	21.9	23.0	24.0	
Scanner Cooling Air Blower 1	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Scanner Cooling Air Blower 2	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Service Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Startup Vent - Aux Boiler Blowdown	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - Aux Boiler Startup	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - HRSG Blowdown 1	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - HRSG Blowdown 2	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - Steam Turbine Drains Tank	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Steam Turbine Bldg 1 - East Facade	92.4	64.93	Area	3	554.75	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 1 - North Facade	90.7	64.93	Area	3	373.57	113.5	109.9	101.8	94.9	82.9	71.9	64.9	54.9	53.9	
Steam Turbine Bldg 1 - Roof	88.8	59.93	Area	0	764.72	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0	
Steam Turbine Bldg 1 - South Facade	95.7	64.93	Area	3	1206.17	118.6	115.0	106.9	100.0	88.0	77.0	70.0	60.0	59.0	
Steam Turbine Bldg 1 - West Facade	92.4	64.93	Area	3	552.09	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 2 - East Facade	92.4	64.93	Area	3	553.90	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 2 - North Facade	90.7	64.93	Area	3	374.51	113.5	109.9	101.8	94.9	82.9	71.9	64.9	54.9	53.9	



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Clear River Energy Center - Source List

Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Steam Turbine Bldg 2 - Roof	88.8	59.93	Area	0	764.05	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0
Steam Turbine Bldg 2 - South Facade 1	95.7	64.93	Area	3	1206.17	118.6	115.0	106.9	100.0	88.0	77.0	70.0	60.0	59.0
Steam Turbine Bldg 2 - West Facade	92.4	64.93	Area	3	552.09	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6
STG Building 1 Vent Louvers - East	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 1 Vent Louvers - South 1	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 1 Vent Louvers - South 2	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 1 Vent Louvers - West	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - East	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - South 1	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - South 2	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STG Building 2 Vent Louvers - West	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7
STW Heat Exchanger 1	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2
STW Heat Exchanger 2	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2
Waste Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0
Water Treatment Building - East Side	78.9	56.70	Area	3	167.69	93.2	96.2	90.2	84.2	70.2	61.2	54.2	48.2	47.2
Water Treatment Building - North Side	83.3	56.70	Area	3	452.35	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5
Water Treatment Building - Roof	86.4	56.70	Area	0	939.65	100.7	103.6	97.6	91.7	77.7	68.6	61.6	55.7	54.7
Water Treatment Building - South Side	83.3	56.70	Area	3	453.24	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5
Water Treatment Building - West Side	78.9	56.70	Area	3	167.20	93.2	96.1	90.2	84.2	70.2	61.2	54.2	48.2	47.2
WTB Ventilation Louvers - North Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0
WTB Ventilation Louvers - South Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0



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Clear River Energy Center - Mean Propagation Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Receiver M1 - Wallum Lake Road													
ACC 1 Bottom	109.0	72.7	0.0	0.0	789.6	-68.9	1.0	-2.9	-3.2	-8.3	0.0	26.7	
ACC 1 Duct - Finger 1 A	75.9	52.0	0.0	0.0	691.9	-67.8	-0.5	-4.2	-1.0	0.0	0.0	2.5	
ACC 1 Duct - Finger 1 B	75.9	52.0	0.0	0.0	690.7	-67.8	-0.5	-1.0	-1.2	0.0	2.6	8.0	
ACC 1 Duct - Finger 1 C	75.9	52.0	0.0	0.0	692.8	-67.8	-0.5	-7.2	-0.8	0.0	0.2	-0.2	
ACC 1 Duct - Finger 2 A	76.0	52.0	0.0	0.0	704.1	-67.9	-0.5	-4.3	-1.0	0.0	0.0	2.3	
ACC 1 Duct - Finger 2 B	75.9	52.0	0.0	0.0	702.9	-67.9	-0.5	-4.3	-0.9	0.0	2.4	4.6	
ACC 1 Duct - Finger 2 C	75.9	52.0	0.0	0.0	705.1	-68.0	-0.5	-11.0	-0.6	0.0	0.1	-4.0	
ACC 1 Duct - Finger 3 A	76.0	52.0	0.0	0.0	716.5	-68.1	-0.5	-4.3	-1.0	0.0	0.0	2.2	
ACC 1 Duct - Finger 3 B	75.9	52.0	0.0	0.0	715.4	-68.1	-0.5	-4.5	-0.9	0.0	2.1	4.0	
ACC 1 Duct - Finger 3 C	75.9	52.0	0.0	0.0	717.5	-68.1	-0.5	-9.0	-0.7	0.0	0.6	-1.8	
ACC 1 Duct - HRH Bypass Bell A	83.8	72.0	0.0	0.0	660.8	-67.4	0.6	-21.2	-0.5	0.0	0.0	-4.7	
ACC 1 Duct - HRH Bypass Bell B	83.8	72.0	0.0	0.0	660.7	-67.4	1.1	-19.4	-0.5	0.0	0.0	-2.3	
ACC 1 Duct - HRH Bypass Bell C	83.9	72.0	0.0	0.0	659.0	-67.4	0.8	-20.3	-0.5	0.0	1.3	-2.2	
ACC 1 Duct - HRH Bypass Bell D	83.6	72.0	0.0	0.0	660.0	-67.4	0.8	-13.1	-0.4	0.0	0.3	3.7	
ACC 1 Duct - HRH Bypass Bell E	83.9	72.0	0.0	0.0	662.6	-67.4	0.8	-20.3	-0.4	0.0	2.0	-1.5	
ACC 1 Duct - HRH Bypass Tube A	72.6	69.0	0.0	0.0	659.4	-67.4	0.7	-13.0	-0.5	0.0	0.0	-7.5	
ACC 1 Duct - HRH Bypass Tube B	72.6	69.0	0.0	0.0	659.1	-67.4	0.8	-13.0	-0.5	0.0	0.2	-7.3	
ACC 1 Duct - HRH Bypass Tube C	72.6	69.0	0.0	0.0	659.7	-67.4	0.8	-17.2	-0.4	0.0	0.0	-11.6	
ACC 1 Duct - HRH Bypass Tube D	72.6	69.0	0.0	0.0	659.4	-67.4	0.8	-13.1	-0.5	0.0	0.0	-7.5	
ACC 1 Duct - LP Bypass Bell A	82.8	71.0	0.0	0.0	665.1	-67.4	0.6	-21.4	-0.5	0.0	0.0	-5.8	
ACC 1 Duct - LP Bypass Bell B	82.8	71.0	0.0	0.0	665.0	-67.4	1.2	-16.4	-0.4	0.0	0.0	-0.3	
ACC 1 Duct - LP Bypass Bell C	82.9	71.0	0.0	0.0	663.3	-67.4	0.8	-18.8	-0.4	0.0	0.9	-2.1	
ACC 1 Duct - LP Bypass Bell D	82.6	71.0	0.0	0.0	664.4	-67.4	0.8	-14.9	-0.4	0.0	0.4	1.1	
ACC 1 Duct - LP Bypass Bell E	82.9	71.0	0.0	0.0	666.9	-67.5	0.8	-17.9	-0.4	0.0	0.2	-1.9	
ACC 1 Duct - LP Bypass Tube A	71.6	68.0	0.0	0.0	663.8	-67.4	0.8	-14.7	-0.4	0.0	0.0	-10.2	
ACC 1 Duct - LP Bypass Tube B	71.6	68.0	0.0	0.0	663.4	-67.4	0.8	-14.8	-0.4	0.0	0.3	-9.9	
ACC 1 Duct - LP Bypass Tube C	71.6	68.0	0.0	0.0	664.1	-67.4	0.8	-17.4	-0.4	0.0	0.0	-12.8	
ACC 1 Duct - LP Bypass Tube D	71.6	68.0	0.0	0.0	663.7	-67.4	0.8	-13.5	-0.4	0.0	0.0	-8.9	
ACC 1 Duct - Main A	93.4	72.0	0.0	0.0	655.1	-67.3	0.5	-10.4	-0.9	0.0	0.3	15.6	
ACC 1 Duct - Main B	87.7	72.0	0.0	0.0	649.9	-67.2	0.7	-23.3	-0.6	0.0	0.9	-1.8	
ACC 1 Duct - Main C	91.1	72.0	0.0	0.0	658.7	-67.4	0.7	-22.2	-0.5	0.0	2.7	4.5	



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Clear River Energy Center - Mean Propagation Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 1 Duct - Main D	87.7	72.0	0.0	0.0	645.2	-67.2	0.7	-7.1	-0.8	0.0	1.1	14.5	
ACC 1 Duct - Main E	85.0	72.0	0.0	0.0	648.0	-67.2	0.7	-3.3	-1.1	0.0	2.0	16.0	
ACC 1 Duct - Main F	84.6	72.0	0.0	0.0	651.2	-67.3	0.7	-4.9	-0.9	0.0	0.0	12.3	
ACC 1 Duct - Main G	91.1	72.0	0.0	0.0	660.5	-67.4	0.8	-9.8	-0.5	0.0	0.0	14.2	
ACC 1 Duct - Main H	93.4	72.0	0.0	0.0	655.0	-67.3	1.2	-8.8	-0.7	0.0	1.5	19.3	
ACC 1 Duct - Main M	84.9	72.0	0.0	0.0	697.2	-67.9	1.0	-17.2	-0.4	0.0	3.5	3.9	
ACC 1 Duct - Main N	93.5	72.0	0.0	0.0	682.0	-67.7	0.7	-22.1	-0.6	0.0	2.6	6.4	
ACC 1 Duct - Main O	92.8	72.0	0.0	0.0	684.2	-67.7	1.4	-13.9	-0.4	0.0	0.1	12.3	
ACC 1 Duct - Main P	92.8	72.0	0.0	0.0	685.0	-67.7	0.9	-18.0	-0.4	0.0	0.4	8.0	
ACC 1 Duct - Main Q	92.9	72.0	0.0	0.0	683.4	-67.7	0.9	-25.1	-0.8	0.0	2.1	2.3	
ACC 1 Duct - Main R	85.4	72.0	0.0	0.0	670.2	-67.5	0.8	-14.5	-0.4	0.0	0.2	4.0	
ACC 1 Duct - Main S	85.2	72.0	0.0	0.0	668.4	-67.5	0.8	-18.0	-0.4	0.0	1.1	1.3	
ACC 1 Duct - Riser 1 A	80.0	62.0	0.0	0.0	668.7	-67.5	-0.1	-7.3	-0.6	0.0	0.5	5.1	
ACC 1 Duct - Riser 1 B	80.1	62.0	0.0	0.0	670.7	-67.5	-0.1	-10.2	-0.5	0.0	0.1	1.8	
ACC 1 Duct - Riser 1 C	80.0	62.0	0.0	0.0	671.7	-67.5	-0.1	-15.4	-0.4	0.0	0.0	-3.5	
ACC 1 Duct - Riser 1 D	80.1	62.0	0.0	0.0	669.6	-67.5	-0.1	-8.7	-0.5	0.0	0.5	3.7	
ACC 1 Duct - Riser 2 A	80.0	62.0	0.0	0.0	681.2	-67.7	-0.1	-9.2	-0.5	0.0	0.7	3.2	
ACC 1 Duct - Riser 2 B	80.1	62.0	0.0	0.0	683.3	-67.7	-0.1	-13.1	-0.4	0.0	0.2	-1.1	
ACC 1 Duct - Riser 2 C	80.0	62.0	0.0	0.0	684.2	-67.7	-0.1	-15.8	-0.4	0.0	0.0	-4.0	
ACC 1 Duct - Riser 2 D	80.1	62.0	0.0	0.0	682.1	-67.7	-0.1	-10.1	-0.5	0.0	0.6	2.3	
ACC 1 Duct - Riser 3 A	80.0	62.0	0.0	0.0	694.0	-67.8	-0.1	-9.9	-0.5	0.0	2.8	4.5	
ACC 1 Duct - Riser 3 B	80.1	62.0	0.0	0.0	696.1	-67.8	-0.1	-14.7	-0.4	0.0	3.0	0.0	
ACC 1 Duct - Riser 3 C	80.0	62.0	0.0	0.0	697.0	-67.9	-0.1	-15.8	-0.4	0.0	7.0	2.9	
ACC 1 Duct - Riser 3 D	80.1	62.0	0.0	0.0	695.0	-67.8	-0.1	-10.1	-0.5	0.0	3.6	5.1	
ACC 1 Top	109.0	72.7	0.0	0.0	790.0	-68.9	0.4	-6.1	-2.2	-6.8	0.1	25.5	
ACC 2 Bottom	109.0	72.7	0.0	0.0	707.0	-68.0	0.7	-0.8	-2.9	-8.6	0.0	29.5	
ACC 2 Duct - Finger 1 A	75.9	52.0	0.0	0.0	774.4	-68.8	-0.4	-4.3	-1.1	0.0	0.0	1.4	
ACC 2 Duct - Finger 1 B	75.9	52.0	0.0	0.0	773.2	-68.8	-0.4	-4.1	-1.0	0.0	2.3	3.9	
ACC 2 Duct - Finger 1 C	75.9	52.0	0.0	0.0	775.4	-68.8	-0.4	-11.5	-0.7	0.0	0.1	-5.4	
ACC 2 Duct - Finger 2 A	76.0	52.0	0.0	0.0	786.9	-68.9	-0.4	-4.4	-1.1	0.0	0.0	1.2	
ACC 2 Duct - Finger 2 B	75.9	52.0	0.0	0.0	785.7	-68.9	-0.4	-6.2	-0.9	0.0	2.0	1.5	
ACC 2 Duct - Finger 2 C	75.9	52.0	0.0	0.0	787.9	-68.9	-0.4	-13.8	-0.6	0.0	0.1	-7.8	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 2 Duct - Finger 3 A	76.0	52.0	0.0	0.0	799.4	-69.0	-0.4	-4.7	-1.0	0.0	0.0	0.8	
ACC 2 Duct - Finger 3 B	75.9	52.0	0.0	0.0	798.3	-69.0	-0.4	-6.6	-0.9	0.0	2.1	1.0	
ACC 2 Duct - Finger 3 C	75.9	52.0	0.0	0.0	800.5	-69.1	-0.4	-12.3	-0.7	0.0	0.0	-6.6	
ACC 2 Duct - HRH Bypass Bell A	83.8	72.0	0.0	0.0	761.7	-68.6	1.1	-23.6	-0.7	0.0	0.0	-8.1	
ACC 2 Duct - HRH Bypass Bell B	83.8	72.0	0.0	0.0	761.6	-68.6	1.6	-25.7	-0.9	0.0	0.0	-9.9	
ACC 2 Duct - HRH Bypass Bell C	83.9	72.0	0.0	0.0	759.9	-68.6	1.3	-23.5	-0.7	0.0	2.7	-4.9	
ACC 2 Duct - HRH Bypass Bell D	83.6	72.0	0.0	0.0	761.1	-68.6	1.3	-17.7	-0.5	0.0	0.5	-1.4	
ACC 2 Duct - HRH Bypass Bell E	83.9	72.0	0.0	0.0	763.5	-68.6	1.3	-22.6	-0.7	0.0	2.3	-4.4	
ACC 2 Duct - HRH Bypass Tube A	72.6	69.0	0.0	0.0	760.5	-68.6	1.3	-18.2	-0.5	0.0	0.0	-13.4	
ACC 2 Duct - HRH Bypass Tube B	72.6	69.0	0.0	0.0	760.2	-68.6	1.3	-18.2	-0.5	0.0	0.6	-12.7	
ACC 2 Duct - HRH Bypass Tube C	72.6	69.0	0.0	0.0	760.8	-68.6	1.3	-19.6	-0.6	0.0	0.0	-14.9	
ACC 2 Duct - HRH Bypass Tube D	72.6	69.0	0.0	0.0	760.5	-68.6	1.4	-18.4	-0.5	0.0	0.0	-13.5	
ACC 2 Duct - LP Bypass Bell A	82.8	71.0	0.0	0.0	766.1	-68.7	1.1	-23.2	-0.7	0.0	0.0	-8.6	
ACC 2 Duct - LP Bypass Bell B	82.8	71.0	0.0	0.0	766.0	-68.7	1.6	-25.7	-0.9	0.0	0.0	-10.9	
ACC 2 Duct - LP Bypass Bell C	82.9	71.0	0.0	0.0	764.3	-68.7	1.3	-22.1	-0.6	0.0	1.3	-5.9	
ACC 2 Duct - LP Bypass Bell D	82.6	71.0	0.0	0.0	765.5	-68.7	1.3	-17.9	-0.5	0.0	0.5	-2.6	
ACC 2 Duct - LP Bypass Bell E	82.9	71.0	0.0	0.0	767.9	-68.7	1.4	-20.9	-0.6	0.0	0.0	-6.0	
ACC 2 Duct - LP Bypass Tube A	71.6	68.0	0.0	0.0	765.0	-68.7	1.3	-18.5	-0.5	0.0	0.0	-14.7	
ACC 2 Duct - LP Bypass Tube B	71.6	68.0	0.0	0.0	764.6	-68.7	1.3	-18.5	-0.5	0.0	0.7	-14.0	
ACC 2 Duct - LP Bypass Tube C	71.6	68.0	0.0	0.0	765.3	-68.7	1.3	-19.6	-0.6	0.0	0.0	-15.8	
ACC 2 Duct - LP Bypass Tube D	71.6	68.0	0.0	0.0	764.9	-68.7	1.4	-18.6	-0.5	0.0	0.0	-14.8	
ACC 2 Duct - Main A	89.2	72.0	0.0	0.0	748.9	-68.5	0.9	-15.6	-0.5	0.0	0.3	5.8	
ACC 2 Duct - Main B	87.6	72.0	0.0	0.0	750.4	-68.5	1.3	-24.4	-0.8	0.0	0.0	-4.8	
ACC 2 Duct - Main D	87.8	72.0	0.0	0.0	745.8	-68.4	1.3	-13.4	-0.5	0.0	0.5	7.2	
ACC 2 Duct - Main E	84.6	72.0	0.0	0.0	748.3	-68.5	1.3	-11.2	-0.5	0.0	0.7	6.4	
ACC 2 Duct - Main F	84.2	72.0	0.0	0.0	751.2	-68.5	1.3	-14.3	-0.5	0.0	1.2	3.4	
ACC 2 Duct - Main H	89.2	72.0	0.0	0.0	748.8	-68.5	1.6	-24.6	-0.8	0.0	0.4	-2.6	
ACC 2 Duct - Main M	84.9	72.0	0.0	0.0	782.8	-68.9	1.3	-19.2	-0.5	0.0	0.0	-2.4	
ACC 2 Duct - Main N	93.5	72.0	0.0	0.0	767.3	-68.7	1.0	-21.7	-0.6	0.0	0.6	4.1	
ACC 2 Duct - Main O	92.8	72.0	0.0	0.0	770.3	-68.7	1.3	-18.6	-0.5	0.0	0.3	6.6	
ACC 2 Duct - Main P	92.8	72.0	0.0	0.0	769.6	-68.7	1.6	-24.9	-0.8	0.0	0.9	0.9	
ACC 2 Duct - Main Q	85.4	72.0	0.0	0.0	755.2	-68.6	1.3	-16.5	-0.5	0.0	0.2	1.3	



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Clear River Energy Center - Mean Propagation Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 2 Duct - Main R	85.2	72.0	0.0	0.0	753.7	-68.5	1.3	-23.9	-0.7	0.0	2.0	-4.6	
ACC 2 Duct - Main S	92.9	72.0	0.0	0.0	768.9	-68.7	1.3	-24.0	-0.8	0.0	0.3	1.0	
ACC 2 Duct - Riser 1 A	80.0	62.0	0.0	0.0	753.3	-68.5	0.1	-7.0	-0.7	0.0	1.4	5.3	
ACC 2 Duct - Riser 1 B	80.1	62.0	0.0	0.0	755.4	-68.6	0.1	-14.0	-0.5	0.0	0.2	-2.7	
ACC 2 Duct - Riser 1 C	80.0	62.0	0.0	0.0	756.4	-68.6	0.1	-16.0	-0.5	0.0	0.0	-5.0	
ACC 2 Duct - Riser 1 D	80.1	62.0	0.0	0.0	754.3	-68.5	0.1	-7.1	-0.7	0.0	1.4	5.3	
ACC 2 Duct - Riser 2 A	80.0	62.0	0.0	0.0	766.2	-68.7	0.1	-10.8	-0.6	0.0	0.8	0.9	
ACC 2 Duct - Riser 2 B	80.1	62.0	0.0	0.0	768.2	-68.7	0.1	-15.4	-0.5	0.0	0.2	-4.2	
ACC 2 Duct - Riser 2 C	80.0	62.0	0.0	0.0	769.2	-68.7	0.1	-17.6	-0.5	0.0	0.0	-6.7	
ACC 2 Duct - Riser 2 D	80.1	62.0	0.0	0.0	767.2	-68.7	0.1	-11.4	-0.6	0.0	0.7	0.2	
ACC 2 Duct - Riser 3 A	80.0	62.0	0.0	0.0	779.1	-68.8	0.1	-11.2	-0.6	0.0	0.9	0.5	
ACC 2 Duct - Riser 3 B	80.1	62.0	0.0	0.0	781.1	-68.8	0.1	-16.1	-0.5	0.0	0.3	-5.0	
ACC 2 Duct - Riser 3 C	80.0	62.0	0.0	0.0	782.1	-68.9	0.1	-17.6	-0.6	0.0	0.0	-6.8	
ACC 2 Duct - Riser 3 D	80.1	62.0	0.0	0.0	780.1	-68.8	0.1	-13.3	-0.6	0.0	1.0	-1.5	
ACC 2 Top	109.0	72.7	0.0	0.0	707.5	-68.0	0.3	-5.2	-2.1	-7.2	0.4	27.3	
ACHE 1	99.0	72.9	0.0	0.0	751.3	-68.5	2.2	-7.4	-2.2	0.0	0.0	23.1	
ACHE 2	99.0	72.9	0.0	0.0	645.5	-67.2	1.8	-5.9	-2.2	0.0	0.8	26.2	
Air Process Skid 2	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	-4.1	0.0	0.0	-4.5	
Air Process Skid 2	93.0	93.0	0.0	0.0	660.2	-67.4	3.0	-26.3	-3.0	0.0	0.0	-0.7	
Ammonia Forwarding Pump	93.1	93.1	0.0	0.0	762.2	-68.6	3.1	-7.9	-4.2	0.0	0.1	15.6	
Ammonia Injection Skid 1	98.1	98.1	0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	5.6	
Ammonia Injection Skid 2	98.1	98.1	0.0	0.0	609.9	-66.7	2.5	-5.2	-5.2	0.0	3.4	26.8	
Aux Boiler Building - East Side	88.0	64.3	0.0	3.0	675.2	-67.6	1.2	-4.6	-0.5	0.0	0.0	19.5	
Aux Boiler Building - North Side	88.5	64.3	0.0	3.0	686.4	-67.7	1.3	-3.9	-0.5	0.0	0.0	20.6	
Aux Boiler Building - Roof	91.9	64.3	0.0	0.0	688.2	-67.7	0.6	-5.5	-0.5	0.0	0.6	19.3	
Aux Boiler Building - South Side	88.5	64.3	0.0	3.0	690.1	-67.8	1.2	-10.2	-0.3	0.0	0.3	14.9	
Aux Boiler Building - West Side	88.0	64.3	0.0	3.0	701.0	-67.9	1.3	-15.5	-0.3	0.0	3.3	11.9	
Aux Boiler Building Vent Louvers - North	86.0	75.2	0.0	3.0	681.9	-67.7	1.9	-2.6	-2.4	0.0	0.0	18.3	
Aux Boiler Building Vent Louvers - South	86.0	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	-0.9	0.0	0.3	6.7	
Aux Boiler FD Fan Inlet	100.0	100.0	0.0	0.0	674.3	-67.6	1.5	-5.1	-2.2	0.0	2.5	29.0	
Aux Boiler Stack Exhaust	100.0	100.0	0.0	0.0	695.0	-67.8	0.7	0.0	-4.3	-8.0	0.0	20.6	
Aux Transformer 1 - Side 1	82.0	69.2	0.0	3.0	717.7	-68.1	2.2	-26.8	-1.8	0.0	3.5	-5.9	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Aux Transformer 1 - Side 2	82.0	70.2	0.0	3.0	713.8	-68.1	2.2	-25.6	-1.4	0.0	1.9	-6.0	
Aux Transformer 1 - Side 3	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	-1.3	0.0	3.2	-4.1	
Aux Transformer 1 - Side 4	82.0	70.2	0.0	3.0	719.9	-68.1	2.2	-26.7	-1.7	0.0	4.6	-4.8	
Aux Transformer 1 - Top	82.0	66.9	0.0	0.0	716.9	-68.1	2.0	-24.8	-1.3	0.0	3.5	-6.7	
Aux Transformer 2 - Side 1	82.0	69.2	0.0	3.0	617.7	-66.8	1.7	-15.8	-1.0	0.0	8.6	11.7	
Aux Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	-9.1	-1.3	0.0	1.0	10.5	
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	-8.4	-1.4	0.0	3.5	13.6	
Aux Transformer 2 - Side 4	82.0	70.2	0.0	3.0	619.7	-66.8	1.8	-17.2	-1.0	0.0	9.3	11.0	
Aux Transformer 2 - Top	82.0	66.9	0.0	0.0	616.7	-66.8	1.3	-6.0	-1.7	0.0	2.9	11.7	
BFW Pump Enclosure 1-Side 1	94.4	76.9	0.0	3.0	758.0	-68.6	1.7	-25.4	-0.7	0.0	0.0	4.4	
BFW Pump Enclosure 1-Side 2	97.2	76.9	0.0	3.0	747.2	-68.5	1.7	-25.2	-0.7	0.0	0.3	7.8	
BFW Pump Enclosure 1-Side 3	94.4	76.9	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0	6.7	
BFW Pump Enclosure 1-Side 4	97.2	76.9	0.0	3.0	762.3	-68.6	1.7	-25.4	-0.7	0.0	0.0	7.2	
BFW Pump Enclosure 1-Top	103.5	76.9	0.0	0.0	754.8	-68.5	1.5	-24.1	-0.6	0.0	0.1	11.7	
BFW Pump Enclosure 2-Side 1	94.4	76.9	0.0	3.0	654.3	-67.3	1.5	-22.7	-0.5	0.0	0.0	8.4	
BFW Pump Enclosure 2-Side 2	97.2	76.9	0.0	3.0	643.1	-67.2	1.5	-22.3	-0.4	0.0	0.8	12.7	
BFW Pump Enclosure 2-Side 3	94.4	76.9	0.0	3.0	646.8	-67.2	1.5	-23.5	-0.5	0.0	9.1	16.9	
BFW Pump Enclosure 2-Side 4	97.2	76.9	0.0	3.0	657.8	-67.4	1.6	-25.3	-0.6	0.0	0.0	8.5	
BFW Pump Enclosure 2-Top	103.4	76.9	0.0	0.0	650.5	-67.3	1.1	-20.3	-0.4	0.0	0.8	17.4	
Condensate Equipment Bldg 1 - East Side	77.7	56.7	0.0	3.0	745.5	-68.4	1.9	-7.0	-0.6	0.0	0.0	6.7	
Condensate Equipment Bldg 1 - North Side	75.2	56.7	0.0	3.0	747.4	-68.5	1.9	-18.8	-0.3	0.0	0.7	-6.8	
Condensate Equipment Bldg 1 - Roof	78.0	51.7	0.0	0.0	752.7	-68.5	1.6	-7.8	-0.6	0.0	0.1	2.8	
Condensate Equipment Bldg 1 - South Side	75.2	56.7	0.0	3.0	758.0	-68.6	1.9	-15.2	-0.4	0.0	0.5	-3.6	
Condensate Equipment Bldg 1 - West Side	77.7	56.7	0.0	3.0	759.8	-68.6	1.9	-18.3	-0.4	0.0	1.1	-3.5	
Condensate Equipment Bldg 2 - East Side	77.7	56.7	0.0	3.0	662.8	-67.4	1.6	-6.0	-0.6	0.0	0.0	8.3	
Condensate Equipment Bldg 2 - North Side	75.2	56.7	0.0	3.0	664.0	-67.4	1.6	-6.1	-0.6	0.0	0.0	5.7	
Condensate Equipment Bldg 2 - Roof	78.0	51.7	0.0	0.0	669.8	-67.5	1.0	-5.6	-0.5	0.0	0.0	5.4	
Condensate Equipment Bldg 2 - South Side	75.2	56.7	0.0	3.0	675.9	-67.6	1.7	-10.2	-0.3	0.0	0.0	1.7	
Condensate Equipment Bldg 2 - West Side	77.7	56.7	0.0	3.0	676.8	-67.6	1.7	-13.0	-0.3	0.0	0.0	1.5	
CTG 1 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	739.2	-68.4	3.2	-6.7	-5.7	0.0	0.0	26.2	
CTG 2 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	637.2	-67.1	2.9	-7.5	-4.5	0.0	0.0	27.6	
CTG Air Inlet 1	106.2	82.9	0.0	0.0	769.2	-68.7	3.2	-26.9	-8.4	0.0	0.1	5.5	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
CTG Air Inlet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	0.0	0.2	8.4	
CTG Air Inlet Duct 1 - North	99.9	84.4	0.0	0.0	750.4	-68.5	2.7	-25.3	-2.8	0.0	1.3	7.3	
CTG Air Inlet Duct 1 - South	99.9	84.4	0.0	0.0	752.0	-68.5	2.7	-26.1	-3.3	0.0	1.0	5.7	
CTG Air Inlet Duct 1 - Top	99.9	83.3	0.0	0.0	751.3	-68.5	2.4	-26.6	-3.7	0.0	0.1	3.6	
CTG Air Inlet Duct 2 - North	99.9	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	1.0	10.3	
CTG Air Inlet Duct 2 - South	99.9	84.3	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	7.1	
CTG Air Inlet Duct 2 - Top	99.9	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	-3.6	0.0	0.9	5.3	
CTG Building 1 - East Facade	95.1	64.7	0.0	3.0	718.8	-68.1	0.8	-5.0	-0.3	0.0	0.0	25.4	
CTG Building 1 - North Facade	94.0	64.7	0.0	3.0	727.6	-68.2	0.8	-6.7	-0.3	0.0	0.0	22.6	
CTG Building 1 - Roof	89.9	59.7	0.0	0.0	733.1	-68.3	-0.1	-4.7	-0.4	0.0	0.2	16.6	
CTG Building 1 - West Facade	95.1	64.7	0.0	3.0	746.3	-68.5	0.8	-17.6	-0.3	0.0	0.0	12.6	
CTG Building 1 Vent Louvers - East	89.6	77.0	0.0	3.0	719.5	-68.1	1.8	-6.6	-2.6	0.0	0.0	17.0	
CTG Building 1 Vent Louvers - North	89.6	77.0	0.0	3.0	719.5	-68.1	1.8	-14.1	-1.1	0.0	0.2	11.2	
CTG Building 1 Vent Louvers - West	70.1	57.6	0.0	3.0	742.9	-68.4	1.3	-17.2	-0.2	0.0	0.0	-11.4	
CTG Building 2 - East Facade	95.1	64.7	0.0	3.0	616.4	-66.8	0.5	-1.3	-0.3	0.0	0.0	30.2	
CTG Building 2 - North Facade	94.0	64.7	0.0	3.0	624.3	-66.9	0.6	-1.9	-0.3	0.0	0.0	28.5	
CTG Building 2 - Roof	89.9	59.7	0.0	0.0	630.5	-67.0	0.0	-4.6	-0.3	0.0	0.0	17.9	
CTG Building 2 - West Facade	95.1	64.7	0.0	3.0	643.6	-67.2	0.5	-14.5	-0.2	0.0	0.0	16.7	
CTG Building 2 Vent Louvers - East	89.6	77.0	0.0	3.0	617.4	-66.8	1.5	-0.1	-5.4	0.0	0.0	21.8	
CTG Building 2 Vent Louvers - North	89.6	77.0	0.0	3.0	616.4	-66.8	1.5	-0.1	-5.4	0.0	1.4	23.2	
CTG Building 2 Vent Louvers - West	89.6	77.0	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	4.9	
Demin Water Pump	93.1	93.1	0.0	0.0	675.5	-67.6	3.1	-24.9	-2.0	0.0	0.5	2.2	
Duct Burner Skid 1	95.0	95.0	0.0	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	2.8	5.4	
Duct Burner Skid 2	95.0	95.0	0.0	0.0	613.7	-66.8	2.5	-3.6	-3.8	0.0	1.8	25.2	
Emergency Diesel Generator - Side 1	8.2	-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	-3.9	0.0	2.1	-83.3	
Emergency Diesel Generator - Side 2	8.2	-7.8	0.0	3.0	680.2	-67.6	3.3	-28.2	-3.8	0.0	1.2	-83.9	
Emergency Diesel Generator - Top	8.2	-8.6	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	-84.8	
Excitation Transformer 1	80.0	80.0	0.0	0.0	718.7	-68.1	2.2	-24.5	-1.3	0.0	2.8	-8.9	
Excitation Transformer 2	80.0	80.0	0.0	0.0	617.1	-66.8	1.6	-5.3	-2.2	0.0	2.4	9.6	
Fire Pump Building - Roof	-4.1	-23.3	0.0	0.0	630.7	-67.0	1.2	-5.5	-0.5	0.0	0.0	-76.0	
Fire Pump Building - Side 1	-5.7	-23.3	0.0	3.0	633.9	-67.0	1.8	-11.8	-0.3	0.0	0.0	-80.1	
Fire Pump Building - Side 2	-8.5	-23.3	0.0	3.0	631.3	-67.0	1.8	-6.6	-0.4	0.0	0.0	-77.7	



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Fire Pump Building - Side 3	-5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-6.4	-0.5	0.0	0.0	-74.9	
Fire Pump Building - Side 4	-8.5	-23.3	0.0	3.0	630.0	-67.0	1.8	-6.4	-0.5	0.0	0.0	-77.7	
Fuel Gas Dewpoint Heater	102.2	85.3	0.0	0.0	795.5	-69.0	3.9	-28.8	-15.5	0.0	0.0	-7.2	
Fuel Gas Metering and Regulating Station	93.0	93.0	0.0	0.0	798.2	-69.0	3.9	-28.7	-8.8	0.0	0.0	-9.7	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	645.0	-67.2	3.0	-26.6	-3.1	0.0	0.0	-1.0	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	748.2	-68.5	3.2	-28.0	-4.1	0.0	0.0	-4.4	
Gas Aftercooler 1	101.0	84.0	0.0	0.0	806.0	-69.1	3.2	-27.6	-3.9	0.0	0.0	3.6	
Gas Aftercooler 2	101.0	83.9	0.0	0.0	809.0	-69.2	3.2	-27.7	-4.0	0.0	0.0	3.4	
Gas Compressor Bldg Louvers - E	105.7	98.0	0.0	3.0	784.3	-68.9	2.9	-27.1	-3.1	0.0	0.0	12.6	
Gas Compressor Bldg Louvers - N	105.7	98.0	0.0	3.0	790.8	-69.0	2.9	-27.3	-3.3	0.0	0.0	12.0	
Gas Compressor Bldg Louvers - S	105.7	98.0	0.0	3.0	791.0	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.6	
Gas Compressor Bldg Louvers - W	105.7	98.0	0.0	3.0	797.4	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.5	
Gas Compressor Building - East Side	99.1	76.7	0.0	3.0	784.1	-68.9	1.7	-16.1	-0.3	0.0	0.0	18.5	
Gas Compressor Building - North Side	97.5	76.7	0.0	3.0	788.6	-68.9	1.7	-16.6	-0.3	0.0	0.0	16.4	
Gas Compressor Building - Roof	101.0	76.7	0.0	0.0	791.0	-69.0	1.2	-17.7	-0.4	0.0	0.0	15.1	
Gas Compressor Building - South Side	97.5	76.7	0.0	3.0	793.2	-69.0	1.7	-19.5	-0.3	0.0	0.0	13.4	
Gas Compressor Building - West Side	99.1	76.7	0.0	3.0	797.6	-69.0	1.7	-21.3	-0.4	0.0	0.0	13.1	
GSU 1 - Side 1	94.0	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	1.4	4.2	
GSU 1 - Side 2	94.0	78.0	0.0	3.0	714.6	-68.1	2.1	-25.1	-1.5	0.0	0.2	4.7	
GSU 1 - Side 3	94.0	75.7	0.0	3.0	720.1	-68.1	2.1	-26.3	-1.6	0.0	1.5	4.6	
GSU 1 - Side 4	94.0	78.0	0.0	3.0	728.5	-68.2	2.1	-26.5	-1.8	0.0	2.5	5.2	
GSU 1 - Top	94.0	72.9	0.0	0.0	721.4	-68.2	1.8	-23.9	-1.3	0.0	1.7	4.2	
GSU 2 - Side 1	94.0	75.7	0.0	3.0	623.4	-66.9	1.6	-13.1	-1.2	0.0	0.3	17.7	
GSU 2 - Side 2	94.0	78.0	0.0	3.0	615.0	-66.8	1.2	-1.9	-2.6	0.0	0.0	27.0	
GSU 2 - Side 3	94.0	75.7	0.0	3.0	620.1	-66.8	1.6	-6.8	-2.1	0.0	0.5	23.3	
GSU 2 - Side 4	94.0	78.0	0.0	3.0	628.6	-67.0	1.7	-18.3	-1.0	0.0	2.0	14.4	
GSU 2 - Top	94.0	72.9	0.0	0.0	621.5	-66.9	1.1	-6.3	-1.7	0.0	1.7	22.0	
HRSG 1 - Body - Side 1	97.0	66.6	0.0	3.0	730.9	-68.3	0.7	-16.6	-0.4	0.0	0.0	15.5	
HRSG 1 - Body - Side 2	97.0	66.6	0.0	3.0	720.4	-68.1	0.7	-4.2	-0.7	0.0	0.0	27.8	
HRSG 1 - Exhaust Stack	102.4	102.4	0.0	0.0	724.6	-68.2	2.0	0.0	-0.4	-3.6	0.0	32.3	
HRSG 1 - Piping and Valves	98.5	80.0	0.0	0.0	744.6	-68.4	0.5	-17.1	-0.5	0.0	0.2	13.1	
HRSG 1 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	721.3	-68.2	2.0	-0.8	-0.1	0.0	0.0	1.5	



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Clear River Energy Center - Mean Propagation Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG 1 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	719.5	-68.1	2.0	-1.5	-0.2	0.0	0.0	0.8	
HRSG 1 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	-0.2	0.0	0.0	-1.2	
HRSG 1 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	720.4	-68.1	2.0	-3.7	-0.2	0.0	0.0	-1.5	
HRSG 1 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	722.6	-68.2	2.0	-4.4	-0.2	0.0	0.0	-2.2	
HRSG 1 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	-6.2	-0.1	0.0	0.0	-3.9	
HRSG 1 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	724.7	-68.2	2.0	-6.9	-0.1	0.0	0.0	-4.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	-8.5	-0.2	0.0	0.0	-6.3	
HRSG 1 - T1 - Side 1	96.6	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	-0.4	0.0	0.5	15.1	
HRSG 1 - T1 - Side 2	96.6	81.2	0.0	3.0	727.2	-68.2	1.6	-11.1	-0.4	0.0	1.0	22.6	
HRSG 1 - T1 - Top	96.6	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	0.0	2.1	18.0	
HRSG 1 - T2 - Side 1	96.6	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	-0.4	0.0	0.1	14.5	
HRSG 1 - T2 - Side 2	96.6	76.2	0.0	3.0	725.7	-68.2	1.0	-8.3	-0.4	0.0	0.0	23.8	
HRSG 1 - T2 - Top	96.6	80.4	0.0	0.0	730.5	-68.3	-0.1	-7.5	-0.5	0.0	0.3	20.6	
HRSG 2 - Body - Side 1	97.0	66.6	0.0	3.0	626.6	-66.9	0.4	-15.8	-0.3	0.0	0.0	17.5	
HRSG 2 - Body - Side 2	97.0	66.6	0.0	3.0	616.2	-66.8	0.5	-1.3	-0.7	0.0	0.0	31.8	
HRSG 2 - Exhaust Stack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0.0	-0.3	-3.6	0.0	33.4	
HRSG 2 - Piping and Valves	98.5	80.1	0.0	0.0	640.8	-67.1	0.2	-13.2	-0.5	0.0	2.7	20.6	
HRSG 2 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	616.7	-66.8	1.9	-0.8	-0.1	0.0	0.0	2.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	614.9	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.3	
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	615.5	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	617.8	-66.8	1.9	-4.4	-0.1	0.0	0.0	-0.9	
HRSG 2 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	619.6	-66.8	1.9	-6.1	-0.1	0.0	0.0	-2.6	
HRSG 2 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	620.0	-66.8	1.9	-7.0	-0.1	0.0	0.0	-3.5	
HRSG 2 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	618.9	-66.8	1.9	-7.8	-0.1	0.0	0.0	-4.3	
HRSG 2 - T1 - Side 1	96.6	81.2	0.0	3.0	631.2	-67.0	1.0	-10.7	-0.2	0.0	0.5	23.2	
HRSG 2 - T1 - Side 2	96.6	81.2	0.0	3.0	624.0	-66.9	1.2	-3.9	-0.9	0.0	2.0	31.2	
HRSG 2 - T1 - Top	96.6	82.8	0.0	0.0	627.9	-66.9	0.7	-5.4	-0.4	0.0	2.4	27.0	
HRSG 2 - T2 - Side 1	96.6	76.2	0.0	3.0	631.1	-67.0	0.6	-12.3	-0.3	0.0	0.1	20.8	
HRSG 2 - T2 - Side 2	96.6	76.2	0.0	3.0	622.3	-66.9	0.7	-1.8	-0.7	0.0	0.7	31.6	
HRSG 2 - T2 - Top	96.6	80.4	0.0	0.0	627.4	-66.9	0.0	-6.0	-0.6	0.0	0.7	23.7	
HRSG Recirc Pump 1	93.0	93.0	0.0	0.0	711.2	-68.0	3.1	-26.3	-2.6	0.0	8.1	7.3	



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Clear River Energy Center - Mean Propagation Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG Recirc Pump 2	93.0	93.0	0.0	0.0	606.4	-66.6	2.8	-7.3	-3.6	0.0	2.2	20.6	
Isolation Transformer 1	80.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	-1.3	0.0	8.5	-3.9	
Isolation Transformer 2	80.0	80.0	0.0	0.0	601.3	-66.6	1.2	-2.9	-2.8	0.0	2.4	11.4	
Rooftop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	-4.4	-4.9	0.0	0.0	15.2	
Rooftop Vent Fan - Admin 2	87.8	87.8	0.0	0.0	612.2	-66.7	2.8	-7.5	-2.7	0.0	0.0	13.7	
Rooftop Vent Fan - Admin 3	87.8	87.8	0.0	0.0	589.4	-66.4	2.8	-7.5	-2.7	0.0	0.0	13.9	
Rooftop Vent Fan - Admin 4	87.8	87.8	0.0	0.0	614.6	-66.8	2.8	-7.6	-2.8	0.0	1.4	14.9	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	-2.0	-5.1	0.0	0.0	16.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	753.2	-68.5	3.0	-6.0	-2.7	0.0	0.0	13.6	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.8	0.0	0.0	735.3	-68.3	3.0	-6.8	-2.7	0.0	0.0	12.9	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.8	0.0	0.0	724.3	-68.2	2.9	-6.5	-2.7	0.0	0.0	13.3	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.8	0.0	0.0	728.3	-68.2	2.9	-3.1	-3.4	0.0	0.0	16.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.8	0.0	0.0	632.6	-67.0	2.7	-7.4	-2.9	0.0	0.0	13.2	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.8	0.0	0.0	627.4	-66.9	2.7	-0.7	-4.0	0.0	0.0	18.8	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	-0.8	-4.0	0.0	0.0	18.8	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.8	0.0	0.0	790.3	-68.9	3.1	-17.9	-1.3	0.0	0.0	2.7	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	3.1	-18.6	-1.5	0.0	0.0	1.9	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	3.1	-18.3	-1.5	0.0	0.0	2.2	
Rooftop Vent Fan - STG Bldg 1	87.8	87.8	0.0	0.0	658.3	-67.4	2.8	-7.5	-2.9	0.0	0.0	12.8	
Rooftop Vent Fan - STG Bldg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	-4.1	0.0	0.0	18.7	
Rooftop Vent Fan - STG Bldg 3	87.8	87.8	0.0	0.0	645.9	-67.2	2.7	-7.5	-2.9	0.0	0.0	12.9	
Rooftop Vent Fan - STG Bldg 4	87.8	87.8	0.0	0.0	735.2	-68.3	2.9	-7.2	-2.9	0.0	0.0	12.3	
Rooftop Vent Fan - STG Bldg 5	87.8	87.8	0.0	0.0	758.9	-68.6	3.0	-7.8	-3.1	0.0	0.0	11.3	
Rooftop Vent Fan - STG Bldg 6	87.8	87.8	0.0	0.0	746.0	-68.4	3.0	-7.1	-2.8	0.0	0.0	12.3	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.8	0.0	0.0	700.5	-67.9	3.0	-7.7	-3.0	0.0	0.0	12.1	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.8	0.0	0.0	680.5	-67.6	3.0	-7.1	-2.7	0.0	0.0	13.3	
Safety Vent	29.0	29.0	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	-51.9	
Scanner Cooling Air Blower 1	93.1	93.1	0.0	0.0	728.1	-68.2	3.2	-5.0	-3.8	0.0	0.0	19.2	
Scanner Cooling Air Blower 2	93.1	93.1	0.0	0.0	624.3	-66.9	2.9	-0.1	-4.5	0.0	0.0	24.5	
Service Water Pump	93.1	93.1	0.0	0.0	662.7	-67.4	3.0	-26.9	-2.9	0.0	0.3	-0.7	
Startup Vent - Aux Boiler Blowdown	114.2	114.2	0.0	0.0	680.1	-67.6	1.3	0.0	-8.4	-8.0	0.0	31.5	
Startup Vent - Aux Boiler Startup	114.2	114.2	0.0	0.0	683.5	-67.7	1.3	0.0	-8.4	-8.0	0.0	31.4	



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Clear River Energy Center - Mean Propagation Typical Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
Startup Vent - HRSG Blowdown 1	114.2	114.2	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	33.2
Startup Vent - HRSG Blowdown 2	114.2	114.2	0.0	0.0	713.7	-68.1	1.3	0.0	-8.5	-7.8	0.6	31.7
Startup Vent - Steam Turbine Drains Tank	114.2	114.2	0.0	0.0	653.9	-67.3	2.6	-0.1	-8.6	-8.6	0.0	32.2
Steam Turbine Bldg 1 - East Facade	92.4	64.9	0.0	3.0	726.9	-68.2	1.2	-7.6	-0.3	0.0	0.0	20.5
Steam Turbine Bldg 1 - North Facade	90.7	64.9	0.0	3.0	757.1	-68.6	1.2	-14.8	-0.3	0.0	0.0	11.2
Steam Turbine Bldg 1 - Roof	88.8	59.9	0.0	0.0	746.8	-68.5	0.2	-6.2	-0.5	0.0	0.2	14.1
Steam Turbine Bldg 1 - South Facade	95.7	64.9	0.0	3.0	748.9	-68.5	1.2	-15.0	-0.2	0.0	0.0	16.3
Steam Turbine Bldg 1 - West Facade	92.4	64.9	0.0	3.0	765.7	-68.7	1.2	-18.3	-0.3	0.0	0.0	9.4
Steam Turbine Bldg 2 - East Facade	92.4	64.9	0.0	3.0	626.1	-66.9	0.9	-1.0	-0.4	0.0	0.0	28.0
Steam Turbine Bldg 2 - North Facade	90.7	64.9	0.0	3.0	655.2	-67.3	1.0	-10.1	-0.2	0.0	0.0	17.0
Steam Turbine Bldg 2 - Roof	88.8	59.9	0.0	0.0	645.7	-67.2	0.2	-4.9	-0.5	0.0	0.0	16.4
Steam Turbine Bldg 2 - South Facade 1	95.7	64.9	0.0	3.0	647.9	-67.2	0.9	-9.2	-0.2	0.0	0.1	23.0
Steam Turbine Bldg 2 - West Facade	92.4	64.9	0.0	3.0	664.1	-67.4	1.0	-16.7	-0.2	0.0	0.0	12.0
STG Building 1 Vent Louvers - East	89.3	76.8	0.0	3.0	726.6	-68.2	1.4	-14.1	-1.0	0.0	0.0	10.4
STG Building 1 Vent Louvers - South 1	89.3	76.8	0.0	3.0	758.9	-68.6	1.5	-21.6	-1.4	0.0	0.0	2.2
STG Building 1 Vent Louvers - South 2	89.3	76.8	0.0	3.0	737.1	-68.3	1.4	-20.4	-1.3	0.0	0.0	3.7
STG Building 1 Vent Louvers - West	89.3	76.8	0.0	3.0	765.8	-68.7	1.5	-24.0	-1.8	0.0	0.7	0.0
STG Building 2 Vent Louvers - East	89.3	76.8	0.0	3.0	625.6	-66.9	1.0	0.0	-3.0	0.0	0.0	23.5
STG Building 2 Vent Louvers - South 1	89.3	76.8	0.0	3.0	657.9	-67.4	1.1	-17.2	-1.1	0.0	0.0	7.8
STG Building 2 Vent Louvers - South 2	89.3	76.8	0.0	3.0	636.5	-67.1	1.1	-13.2	-1.2	0.0	0.0	12.0
STG Building 2 Vent Louvers - West	89.3	76.8	0.0	3.0	664.2	-67.4	1.2	-23.4	-1.5	0.0	0.0	1.1
STW Heat Exchanger 1	102.0	90.9	0.0	0.0	747.9	-68.5	3.1	-28.0	-4.2	0.0	0.0	4.5
STW Heat Exchanger 2	102.0	90.9	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	8.5
Waste Water Pump	93.1	93.1	0.0	0.0	669.7	-67.5	3.1	-25.8	-2.3	0.0	0.0	0.5
Water Treatment Building - East Side	78.9	56.7	0.0	3.0	660.8	-67.4	1.5	-6.1	-0.5	0.0	0.0	9.5
Water Treatment Building - North Side	83.3	56.7	0.0	3.0	684.3	-67.7	1.5	-4.5	-0.5	0.0	0.0	15.1
Water Treatment Building - Roof	86.4	56.7	0.0	0.0	685.7	-67.7	0.9	-5.6	-0.6	0.0	0.0	13.5
Water Treatment Building - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	1.5	-14.9	-0.3	0.0	0.0	4.8
Water Treatment Building - West Side	78.9	56.7	0.0	3.0	711.6	-68.0	1.6	-15.1	-0.3	0.0	0.0	0.0
WTB Ventilation Louvers - North Side	90.0	78.0	0.0	3.0	679.3	-67.6	2.6	-5.2	-3.1	0.0	0.0	19.6
WTB Ventilation Louvers - South Side	90.0	78.0	0.0	3.0	693.0	-67.8	2.6	-22.9	-2.1	0.0	0.0	2.9



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Emergency Shutdown

Clear River Energy Center - Receiver Sound Levels Emergency Shutdown Analysis - A-Weight - ISO9613

Name	SPL dB(A)	
M1 - Wallum Lake Road	50.2	
M2 - Jackson Schoolhouse Road (East)	50.0	
M3 - Doe Crossing Drive	44.5	
M4 - Buck Hill Road	44.4	
M5 - Jackson Schoolhouse Road (South)	41.1	



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Clear River Energy Center - Receiver Spectra Emergency Shutdown Analysis - A-Weight - ISO9613

31Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
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Receiver M1 - Wallum Lake Road									
67.0	64.5	59.4	54.1	44.2	38.9	41.9	26.7	-26.1	
Receiver M2 - Jackson Schoolhouse Road (East)									
69.6	66.3	59.6	54.0	46.7	37.6	35.3	13.9		
Receiver M3 - Doe Crossing Drive									
62.6	60.0	53.8	49.4	39.8	32.6	29.2	-3.1		
Receiver M4 - Buck Hill Road									
62.7	61.2	54.0	48.9	39.3	33.3	28.2	-7.0		
Receiver M5 - Jackson Schoolhouse Road (South)									
61.8	58.6	51.4	45.6	36.6	25.8	17.4	-27.2		

Clear River Energy Center - Source List

Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 1 Duct - Finger 1 A	89.9	66.00	Area	0	247.24	107.5	103.2	99.1	93.7	88.3	78.0	72.8	62.1	-15.9	
ACC 1 Duct - Finger 1 B	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 1 Duct - Finger 1 C	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 1 Duct - Finger 2 A	90.0	66.00	Area	0	249.06	107.5	103.3	99.2	93.7	88.3	78.1	72.9	62.1	-15.8	
ACC 1 Duct - Finger 2 B	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 1 Duct - Finger 2 C	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 1 Duct - Finger 3 A	90.0	66.00	Area	0	250.50	107.5	103.3	99.2	93.7	88.3	78.1	72.9	62.1	-15.8	
ACC 1 Duct - Finger 3 B	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 1 Duct - Finger 3 C	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 1 Duct - HRH Bypass Bell A	99.8	88.00	Area	0	15.17	117.3	113.1	109.0	103.5	98.1	87.9	82.7	71.9	-6.0	
ACC 1 Duct - HRH Bypass Bell B	99.8	88.00	Area	0	15.18	117.3	113.1	109.0	103.5	98.1	87.9	82.7	71.9	-6.0	
ACC 1 Duct - HRH Bypass Bell C	99.9	88.00	Area	0	15.37	117.4	113.2	109.1	103.6	98.2	88.0	82.8	72.0	-5.9	
ACC 1 Duct - HRH Bypass Bell D	99.6	88.00	Area	0	14.54	117.2	112.9	108.8	103.3	98.0	87.7	82.5	71.7	-6.2	
ACC 1 Duct - HRH Bypass Bell E	99.9	88.00	Area	0	15.34	117.4	113.1	109.1	103.6	98.2	88.0	82.8	72.0	-5.9	
ACC 1 Duct - HRH Bypass Tube A	88.6	85.00	Area	0	2.28	106.1	101.9	97.8	92.3	86.9	76.7	71.5	60.7	-17.2	
ACC 1 Duct - HRH Bypass Tube B	88.6	85.00	Area	0	2.29	106.1	101.9	97.8	92.3	86.9	76.7	71.5	60.7	-17.2	
ACC 1 Duct - HRH Bypass Tube C	88.6	85.00	Area	0	2.29	106.1	101.9	97.8	92.3	86.9	76.7	71.5	60.7	-17.2	
ACC 1 Duct - HRH Bypass Tube D	88.6	85.00	Area	0	2.28	106.1	101.9	97.8	92.3	86.9	76.7	71.5	60.7	-17.2	
ACC 1 Duct - LP Bypass Bell A	94.8	83.00	Area	0	15.17	112.3	108.1	104.0	98.5	93.1	82.9	77.7	66.9	-11.0	
ACC 1 Duct - LP Bypass Bell B	94.8	83.00	Area	0	15.18	112.3	108.1	104.0	98.5	93.1	82.9	77.7	66.9	-11.0	
ACC 1 Duct - LP Bypass Bell C	94.9	83.00	Area	0	15.37	112.4	108.2	104.1	98.6	93.2	83.0	77.8	67.0	-10.9	
ACC 1 Duct - LP Bypass Bell D	94.6	83.00	Area	0	14.54	112.2	107.9	103.8	98.3	93.0	82.7	77.5	66.7	-11.2	
ACC 1 Duct - LP Bypass Bell E	94.9	83.00	Area	0	15.34	112.4	108.1	104.1	98.6	93.2	83.0	77.8	67.0	-10.9	
ACC 1 Duct - LP Bypass Tube A	83.6	80.00	Area	0	2.30	101.2	96.9	92.8	87.3	81.9	71.7	66.5	55.7	-22.2	
ACC 1 Duct - LP Bypass Tube B	83.6	80.00	Area	0	2.30	101.2	96.9	92.8	87.3	82.0	71.7	66.5	55.7	-22.2	
ACC 1 Duct - LP Bypass Tube C	83.6	80.00	Area	0	2.30	101.2	96.9	92.8	87.4	82.0	71.7	66.5	55.7	-22.2	
ACC 1 Duct - LP Bypass Tube D	83.6	80.00	Area	0	2.30	101.2	96.9	92.8	87.3	81.9	71.7	66.5	55.7	-22.2	
ACC 1 Duct - Main A	107.4	86.00	Area	0	136.57	124.9	120.6	116.5	111.1	105.7	95.4	90.2	79.5	1.6	
ACC 1 Duct - Main B	101.7	86.00	Area	0	37.17	119.2	115.0	110.9	105.4	100.0	89.8	84.6	73.8	-4.1	
ACC 1 Duct - Main C	105.1	86.00	Area	0	80.99	122.6	118.4	114.3	108.8	103.4	93.2	88.0	77.2	-0.7	
ACC 1 Duct - Main D	101.7	86.00	Area	0	37.41	119.3	115.0	110.9	105.5	100.1	89.8	84.6	73.9	-4.1	
ACC 1 Duct - Main E	99.0	86.00	Area	0	19.86	116.5	112.3	108.2	102.7	97.3	87.1	81.9	71.1	-6.8	



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Clear River Energy Center - Source List

Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Duct - Main F	98.6	86.00	Area	0	18.21	116.1	111.9	107.8	102.3	96.9	86.7	81.5	70.7	-7.2	
ACC 1 Duct - Main G	105.1	86.00	Area	0	81.62	122.7	118.4	114.3	108.8	103.4	93.2	88.0	77.2	-0.7	
ACC 1 Duct - Main H	107.4	86.00	Area	0	136.57	124.9	120.6	116.5	111.1	105.7	95.4	90.2	79.5	1.6	
ACC 1 Duct - Main M	98.9	86.00	Area	0	19.41	116.4	112.2	108.1	102.6	97.2	87.0	81.8	71.0	-6.9	
ACC 1 Duct - Main N	107.5	86.00	Area	0	142.12	125.1	120.8	116.7	111.3	105.9	95.6	90.4	79.6	1.7	
ACC 1 Duct - Main O	106.8	86.00	Area	0	120.75	124.4	120.1	116.0	110.5	105.1	94.9	89.7	78.9	1.0	
ACC 1 Duct - Main P	106.8	86.00	Area	0	121.31	124.4	120.1	116.0	110.6	105.2	94.9	89.7	79.0	1.0	
ACC 1 Duct - Main Q	106.9	86.00	Area	0	121.95	124.4	120.2	116.1	110.6	105.2	95.0	89.8	79.0	1.1	
ACC 1 Duct - Main R	99.4	86.00	Area	0	21.64	116.9	112.6	108.5	103.1	97.7	87.4	82.2	71.5	-6.4	
ACC 1 Duct - Main S	99.2	86.00	Area	0	21.04	116.8	112.5	108.4	103.0	97.6	87.3	82.1	71.4	-6.6	
ACC 1 Duct - Riser 1 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 1 Duct - Riser 1 B	94.1	76.00	Area	0	64.21	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 1 Duct - Riser 1 C	94.0	76.00	Area	0	63.57	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 1 Duct - Riser 1 D	94.1	76.00	Area	0	64.39	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 1 Duct - Riser 2 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 1 Duct - Riser 2 B	94.1	76.00	Area	0	64.21	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 1 Duct - Riser 2 C	94.0	76.00	Area	0	63.56	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 1 Duct - Riser 2 D	94.1	76.00	Area	0	64.39	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 1 Duct - Riser 3 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 1 Duct - Riser 3 B	94.1	76.00	Area	0	64.20	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 1 Duct - Riser 3 C	94.0	76.00	Area	0	63.58	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 1 Duct - Riser 3 D	94.1	76.00	Area	0	64.39	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 1 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Duct - Finger 1 A	89.9	66.00	Area	0	247.24	107.5	103.2	99.1	93.7	88.3	78.0	72.8	62.1	-15.9	
ACC 2 Duct - Finger 1 B	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 2 Duct - Finger 1 C	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 2 Duct - Finger 2 A	90.0	66.00	Area	0	249.06	107.5	103.3	99.2	93.7	88.3	78.1	72.9	62.1	-15.8	
ACC 2 Duct - Finger 2 B	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 2 Duct - Finger 2 C	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 2 Duct - Finger 3 A	90.0	66.00	Area	0	250.50	107.5	103.3	99.2	93.7	88.3	78.1	72.9	62.1	-15.8	
ACC 2 Duct - Finger 3 B	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	
ACC 2 Duct - Finger 3 C	89.9	66.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2	78.0	72.8	62.0	-15.9	



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Clear River Energy Center - Source List

Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 2 Duct - HRH Bypass Bell A	99.8	88.00	Area	0	15.18	117.3	113.1	109.0	103.5	98.1	87.9	82.7	71.9	-6.0	
ACC 2 Duct - HRH Bypass Bell B	99.8	88.00	Area	0	15.18	117.3	113.1	109.0	103.5	98.1	87.9	82.7	71.9	-6.0	
ACC 2 Duct - HRH Bypass Bell C	99.9	88.00	Area	0	15.37	117.4	113.2	109.1	103.6	98.2	88.0	82.8	72.0	-5.9	
ACC 2 Duct - HRH Bypass Bell D	99.6	88.00	Area	0	14.54	117.2	112.9	108.8	103.4	98.0	87.7	82.5	71.7	-6.2	
ACC 2 Duct - HRH Bypass Bell E	99.9	88.00	Area	0	15.34	117.4	113.1	109.1	103.6	98.2	88.0	82.8	72.0	-5.9	
ACC 2 Duct - HRH Bypass Tube A	88.6	85.00	Area	0	2.30	106.2	101.9	97.8	92.3	87.0	76.7	71.5	60.7	-17.2	
ACC 2 Duct - HRH Bypass Tube B	88.6	85.00	Area	0	2.30	106.1	101.9	97.8	92.3	86.9	76.7	71.5	60.7	-17.2	
ACC 2 Duct - HRH Bypass Tube C	88.6	85.00	Area	0	2.30	106.2	101.9	97.8	92.3	86.9	76.7	71.5	60.7	-17.2	
ACC 2 Duct - HRH Bypass Tube D	88.6	85.00	Area	0	2.30	106.2	101.9	97.8	92.3	87.0	76.7	71.5	60.7	-17.2	
ACC 2 Duct - LP Bypass Bell A	94.8	83.00	Area	0	15.18	112.3	108.1	104.0	98.5	93.1	82.9	77.7	66.9	-11.0	
ACC 2 Duct - LP Bypass Bell B	94.8	83.00	Area	0	15.18	112.3	108.1	104.0	98.5	93.1	82.9	77.7	66.9	-11.0	
ACC 2 Duct - LP Bypass Bell C	94.9	83.00	Area	0	15.37	112.4	108.2	104.1	98.6	93.2	83.0	77.8	67.0	-10.9	
ACC 2 Duct - LP Bypass Bell D	94.6	83.00	Area	0	14.54	112.2	107.9	103.8	98.4	93.0	82.7	77.5	66.7	-11.2	
ACC 2 Duct - LP Bypass Bell E	94.9	83.00	Area	0	15.34	112.4	108.1	104.1	98.6	93.2	83.0	77.8	67.0	-10.9	
ACC 2 Duct - LP Bypass Tube A	83.6	80.00	Area	0	2.31	101.2	96.9	92.8	87.4	82.0	71.7	66.5	55.8	-22.2	
ACC 2 Duct - LP Bypass Tube B	83.6	80.00	Area	0	2.31	101.2	96.9	92.8	87.4	82.0	71.7	66.5	55.8	-22.2	
ACC 2 Duct - LP Bypass Tube C	83.6	80.00	Area	0	2.31	101.2	96.9	92.8	87.4	82.0	71.7	66.5	55.8	-22.2	
ACC 2 Duct - LP Bypass Tube D	83.6	80.00	Area	0	2.31	101.2	96.9	92.8	87.4	82.0	71.7	66.5	55.8	-22.2	
ACC 2 Duct - Main A	103.2	86.00	Area	0	52.37	120.7	116.5	112.4	106.9	101.5	91.3	86.1	75.3	-2.6	
ACC 2 Duct - Main B	101.6	86.00	Area	0	36.49	119.2	114.9	110.8	105.3	99.9	89.7	84.5	73.7	-4.2	
ACC 2 Duct - Main D	101.8	86.00	Area	0	37.90	119.3	115.1	111.0	105.5	100.1	89.9	84.7	73.9	-4.0	
ACC 2 Duct - Main E	98.6	86.00	Area	0	18.33	116.2	111.9	107.8	102.4	97.0	86.7	81.5	70.8	-7.2	
ACC 2 Duct - Main F	98.2	86.00	Area	0	16.54	115.7	111.5	107.4	101.9	96.5	86.3	81.1	70.3	-7.6	
ACC 2 Duct - Main H	103.2	86.00	Area	0	52.36	120.7	116.5	112.4	106.9	101.5	91.3	86.1	75.3	-2.6	
ACC 2 Duct - Main M	98.9	86.00	Area	0	19.41	116.4	112.2	108.1	102.6	97.2	87.0	81.8	71.0	-6.9	
ACC 2 Duct - Main N	107.5	86.00	Area	0	142.12	125.1	120.8	116.7	111.3	105.9	95.6	90.4	79.6	1.7	
ACC 2 Duct - Main O	106.8	86.00	Area	0	121.31	124.4	120.1	116.0	110.6	105.2	94.9	89.7	79.0	1.0	
ACC 2 Duct - Main P	106.8	86.00	Area	0	120.75	124.4	120.1	116.0	110.5	105.1	94.9	89.7	78.9	1.0	
ACC 2 Duct - Main Q	99.4	86.00	Area	0	21.64	116.9	112.6	108.5	103.1	97.7	87.4	82.2	71.5	-6.4	
ACC 2 Duct - Main R	99.2	86.00	Area	0	21.01	116.8	112.5	108.4	102.9	97.6	87.3	82.1	71.3	-6.6	
ACC 2 Duct - Main S	106.9	86.00	Area	0	121.95	124.4	120.2	116.1	110.6	105.2	95.0	89.8	79.0	1.1	
ACC 2 Duct - Riser 1 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 2 Duct - Riser 1 B	94.1	76.00	Area	0	64.21	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 2 Duct - Riser 1 C	94.0	76.00	Area	0	63.57	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 2 Duct - Riser 1 D	94.1	76.00	Area	0	64.39	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 2 Duct - Riser 2 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 2 Duct - Riser 2 B	94.1	76.00	Area	0	64.21	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 2 Duct - Riser 2 C	94.0	76.00	Area	0	63.56	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 2 Duct - Riser 2 D	94.1	76.00	Area	0	64.39	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 2 Duct - Riser 3 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 2 Duct - Riser 3 B	94.1	76.00	Area	0	64.20	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 2 Duct - Riser 3 C	94.0	76.00	Area	0	63.58	111.6	107.3	103.2	97.8	92.4	82.1	76.9	66.2	-11.8	
ACC 2 Duct - Riser 3 D	94.1	76.00	Area	0	64.39	111.6	107.4	103.3	97.8	92.4	82.2	77.0	66.2	-11.7	
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACHE 1	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
ACHE 2	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Ammonia Forwarding Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Ammonia Injection Skid 1	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Aux Boiler Building - East Side	88.0	64.26	Area	3	234.94	108.8	102.7	100.7	91.7	81.7	68.7	57.7	51.7	43.7	
Aux Boiler Building - North Side	88.5	64.26	Area	3	268.09	109.3	103.3	101.3	92.3	82.3	69.3	58.3	52.3	44.3	
Aux Boiler Building - Roof	91.9	64.26	Area	0	579.10	112.7	106.6	104.6	95.7	85.7	72.6	61.6	55.7	47.6	
Aux Boiler Building - South Side	88.5	64.26	Area	3	268.09	109.3	103.3	101.3	92.3	82.3	69.3	58.3	52.3	44.3	
Aux Boiler Building - West Side	88.0	64.26	Area	3	235.85	108.8	102.7	100.7	91.8	81.8	68.7	57.7	51.8	43.7	
Aux Boiler Building Vent Louvers - North	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler Building Vent Louvers - South	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler FD Fan Inlet	100.0	100.00	Point	0		102.3	102.8	101.7	101.7	98.8	94.8	87.8	80.8	75.7	
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2	102.2	100.2	99.2	97.2	93.2	90.2	87.2	94.2	
Aux Transformer 1 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	



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Clear River Energy Center - Source List

Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Aux Transformer 2 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
Aux Transformer 2 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6
BFW Pump Enclosure 1-Side 1	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	3	107.28	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 1-Side 3	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9
BFW Pump Enclosure 1-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 1-Top	103.5	76.92	Area	0	452.03	119.5	116.9	113.9	108.9	96.9	90.9	86.9	78.9	72.9
BFW Pump Enclosure 2-Side 1	94.4	76.92	Area	3	55.67	110.4	107.8	104.8	99.8	87.8	81.8	77.8	69.8	63.8
BFW Pump Enclosure 2-Side 2	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 2-Side 3	94.4	76.92	Area	3	55.43	110.4	107.8	104.7	99.8	87.8	81.8	77.8	69.8	63.8
BFW Pump Enclosure 2-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7
BFW Pump Enclosure 2-Top	103.4	76.92	Area	0	445.84	119.4	116.9	113.8	108.8	96.9	90.9	86.9	78.9	72.8
Condensate Equipment Bldg 1 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 1 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 1 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2
Condensate Equipment Bldg 1 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 1 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 2 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
Condensate Equipment Bldg 2 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 2 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2
Condensate Equipment Bldg 2 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4
Condensate Equipment Bldg 2 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0
CTG 1 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0
CTG 2 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0
CTG Air Inlet 1	106.2	82.90	Area	0	213.41	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0
CTG Air Inlet 2	106.2	82.93	Area	0	211.99	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0
CTG Air Inlet Duct 1 - North	99.9	84.40	Area	0	35.83	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 1 - South	99.9	84.44	Area	0	35.50	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 1 - Top	99.9	83.26	Area	0	46.57	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 2 - North	99.9	84.32	Area	0	36.52	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Air Inlet Duct 2 - South	99.9	84.29	Area	0	36.74	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0



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Clear River Energy Center - Source List

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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
CTG Air Inlet Duct 2 - Top	99.9	83.15	Area	0	47.70	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0
CTG Building 1 - East Facade	95.1	64.70	Area	3	1101.55	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 1 - North Facade	94.0	64.70	Area	3	851.17	115.6	109.4	108.7	93.7	82.9	72.6	68.3	65.4	56.5
CTG Building 1 - Roof	89.9	59.70	Area	0	1047.08	111.5	105.3	104.6	89.6	78.8	68.5	64.2	61.3	52.4
CTG Building 1 - West Facade	95.1	64.70	Area	3	1100.83	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 1 Vent Louvers - East	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 1 Vent Louvers - North	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 1 Vent Louvers - West	70.1	57.55	Area	3	18.00	96.3	87.6	84.9	65.9	54.1	42.8	37.5	36.6	30.7
CTG Building 2 - East Facade	95.1	64.70	Area	3	1100.24	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 2 - North Facade	94.0	64.70	Area	3	852.46	115.6	109.4	108.7	93.7	82.9	72.6	68.3	65.4	56.5
CTG Building 2 - Roof	89.9	59.70	Area	0	1045.75	111.5	105.3	104.6	89.6	78.8	68.5	64.2	61.3	52.4
CTG Building 2 - West Facade	95.1	64.70	Area	3	1098.21	116.7	110.5	109.8	94.8	84.0	73.7	69.4	66.5	57.6
CTG Building 2 Vent Louvers - East	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 2 Vent Louvers - North	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
CTG Building 2 Vent Louvers - West	89.6	77.00	Area	3	18.00	100.3	95.6	96.9	83.9	83.1	79.8	80.5	84.6	75.7
Demin Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0
Duct Burner Skid 1	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9
Duct Burner Skid 2	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9
Emergency Diesel Generator - Side 1	8.2	-7.75	Area	3	38.95	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Emergency Diesel Generator - Side 2	8.2	-7.76	Area	3	39.02	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Emergency Diesel Generator - Top	8.2	-8.56	Area	0	46.93	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0
Excitation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6
Excitation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6
Fire Pump Building - Roof	-4.1	-23.30	Area	0	82.33	10.1	13.1	7.1	1.1	-12.9	-21.9	-28.9	-34.9	-35.9
Fire Pump Building - Side 1	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5
Fire Pump Building - Side 2	-8.5	-23.30	Area	3	29.99	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3
Fire Pump Building - Side 3	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5
Fire Pump Building - Side 4	-8.5	-23.30	Area	3	30.11	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.02	97.9	95.7	83.8	81.7	76.0	77.8	85.5	83.9	103.1
Fuel Gas Metering and Regulating Station	93.0	93.00	Point	0		-15.6	-15.6	-15.6	72.4	74.4	79.4	89.4	87.4	79.4
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9
Gas Aftercooler 1	101.0	84.00	Area	0	50.09	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2



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Clear River Energy Center - Source List

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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Gas Aftercooler 2	101.0	83.86	Area	0	51.73	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	
Gas Compressor Bldg Louvers - E	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - N	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - S	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - W	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Building - East Side	99.1	76.70	Area	3	173.15	113.3	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
Gas Compressor Building - North Side	97.5	76.70	Area	3	119.51	111.7	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - Roof	101.0	76.70	Area	0	269.92	115.3	118.2	112.2	106.3	92.3	83.2	76.2	70.3	69.2	
Gas Compressor Building - South Side	97.5	76.70	Area	3	120.04	111.8	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - West Side	99.1	76.70	Area	3	173.41	113.4	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
GSU 1 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
HRSG 1 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 1 - Piping and Valves	98.5	80.00	Line	0	71.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 1 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	



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HRSG 1 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 2 - Piping and Valves	98.5	80.06	Line	0	70.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 2 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG Recirc Pump 1	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
HRSG Recirc Pump 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Isolation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Isolation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Rooftop Vent Fan - Admin 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	



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Clear River Energy Center - Source List

Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Safety Vent	129.0	129.00	Point	0		113.4	120.9	127.0	128.0	118.0	110.8	121.9	123.0	124.0	
Scanner Cooling Air Blower 1	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Scanner Cooling Air Blower 2	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Service Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Startup Vent - Aux Boiler Blowdown	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - Aux Boiler Startup	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - HRSG Blowdown 1	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - HRSG Blowdown 2	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Startup Vent - Steam Turbine Drains Tank	114.2	114.17	Point	0		98.6	106.1	112.2	113.2	103.2	96.0	107.1	108.2	109.2	
Steam Turbine Bldg 1 - East Facade	92.4	64.93	Area	3	554.75	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 1 - North Facade	90.7	64.93	Area	3	373.57	113.5	109.9	101.8	94.9	82.9	71.9	64.9	54.9	53.9	
Steam Turbine Bldg 1 - Roof	88.8	59.93	Area	0	764.72	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0	
Steam Turbine Bldg 1 - South Facade	95.7	64.93	Area	3	1206.17	118.6	115.0	106.9	100.0	88.0	77.0	70.0	60.0	59.0	
Steam Turbine Bldg 1 - West Facade	92.4	64.93	Area	3	552.09	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 2 - East Facade	92.4	64.93	Area	3	553.90	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
Steam Turbine Bldg 2 - North Facade	90.7	64.93	Area	3	374.51	113.5	109.9	101.8	94.9	82.9	71.9	64.9	54.9	53.9	



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Clear River Energy Center - Source List

Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Steam Turbine Bldg 2 - Roof	88.8	59.93	Area	0	764.05	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0	
Steam Turbine Bldg 2 - South Facade 1	95.7	64.93	Area	3	1206.17	118.6	115.0	106.9	100.0	88.0	77.0	70.0	60.0	59.0	
Steam Turbine Bldg 2 - West Facade	92.4	64.93	Area	3	552.09	115.2	111.6	103.5	96.6	84.6	73.6	66.6	56.6	55.6	
STG Building 1 Vent Louvers - East	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 1 Vent Louvers - South 1	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 1 Vent Louvers - South 2	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 1 Vent Louvers - West	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 2 Vent Louvers - East	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 2 Vent Louvers - South 1	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 2 Vent Louvers - South 2	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STG Building 2 Vent Louvers - West	89.3	76.79	Area	3	18.00	101.8	99.7	93.6	88.7	86.7	82.7	80.7	77.7	76.7	
STW Heat Exchanger 1	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2	
STW Heat Exchanger 2	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2	
Waste Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Water Treatment Building - East Side	78.9	56.70	Area	3	167.69	93.2	96.2	90.2	84.2	70.2	61.2	54.2	48.2	47.2	
Water Treatment Building - North Side	83.3	56.70	Area	3	452.35	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5	
Water Treatment Building - Roof	86.4	56.70	Area	0	939.65	100.7	103.6	97.6	91.7	77.7	68.6	61.6	55.7	54.7	
Water Treatment Building - South Side	83.3	56.70	Area	3	453.24	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5	
Water Treatment Building - West Side	78.9	56.70	Area	3	167.20	93.2	96.1	90.2	84.2	70.2	61.2	54.2	48.2	47.2	
WTB Ventilation Louvers - North Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0	
WTB Ventilation Louvers - South Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0	



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Clear River Energy Center - Mean Propagation Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Receiver M1 - Wallum Lake Road													
ACC 1 Bottom	109.0	72.7	0.0	0.0	789.6	-68.9	1.0	-2.9	-3.2	-8.3	0.0	26.7	
ACC 1 Duct - Finger 1 A	89.9	66.0	0.0	0.0	691.9	-67.8	-0.5	-4.2	-1.0	0.0	0.0	16.5	
ACC 1 Duct - Finger 1 B	89.9	66.0	0.0	0.0	690.7	-67.8	-0.5	-1.0	-1.2	0.0	2.6	22.0	
ACC 1 Duct - Finger 1 C	89.9	66.0	0.0	0.0	692.8	-67.8	-0.5	-7.2	-0.8	0.0	0.2	13.8	
ACC 1 Duct - Finger 2 A	90.0	66.0	0.0	0.0	704.1	-67.9	-0.5	-4.3	-1.0	0.0	0.0	16.3	
ACC 1 Duct - Finger 2 B	89.9	66.0	0.0	0.0	702.9	-67.9	-0.5	-4.3	-0.9	0.0	2.4	18.6	
ACC 1 Duct - Finger 2 C	89.9	66.0	0.0	0.0	705.1	-68.0	-0.5	-11.0	-0.6	0.0	0.1	10.0	
ACC 1 Duct - Finger 3 A	90.0	66.0	0.0	0.0	716.5	-68.1	-0.5	-4.3	-1.0	0.0	0.0	16.2	
ACC 1 Duct - Finger 3 B	89.9	66.0	0.0	0.0	715.4	-68.1	-0.5	-4.5	-0.9	0.0	2.1	18.0	
ACC 1 Duct - Finger 3 C	89.9	66.0	0.0	0.0	717.5	-68.1	-0.5	-9.0	-0.7	0.0	0.6	12.2	
ACC 1 Duct - HRH Bypass Bell A	99.8	88.0	0.0	0.0	660.8	-67.4	0.6	-21.2	-0.5	0.0	0.0	11.3	
ACC 1 Duct - HRH Bypass Bell B	99.8	88.0	0.0	0.0	660.7	-67.4	1.1	-19.4	-0.5	0.0	0.0	13.7	
ACC 1 Duct - HRH Bypass Bell C	99.9	88.0	0.0	0.0	659.0	-67.4	0.8	-20.3	-0.5	0.0	1.3	13.8	
ACC 1 Duct - HRH Bypass Bell D	99.6	88.0	0.0	0.0	660.0	-67.4	0.8	-13.1	-0.4	0.0	0.3	19.7	
ACC 1 Duct - HRH Bypass Bell E	99.9	88.0	0.0	0.0	662.6	-67.4	0.8	-20.3	-0.4	0.0	2.0	14.5	
ACC 1 Duct - HRH Bypass Tube A	88.6	85.0	0.0	0.0	659.4	-67.4	0.7	-13.0	-0.5	0.0	0.0	8.5	
ACC 1 Duct - HRH Bypass Tube B	88.6	85.0	0.0	0.0	659.1	-67.4	0.8	-13.0	-0.5	0.0	0.2	8.7	
ACC 1 Duct - HRH Bypass Tube C	88.6	85.0	0.0	0.0	659.7	-67.4	0.8	-17.2	-0.4	0.0	0.0	4.4	
ACC 1 Duct - HRH Bypass Tube D	88.6	85.0	0.0	0.0	659.4	-67.4	0.8	-13.1	-0.5	0.0	0.0	8.5	
ACC 1 Duct - LP Bypass Bell A	94.8	83.0	0.0	0.0	665.1	-67.4	0.6	-21.4	-0.5	0.0	0.0	6.2	
ACC 1 Duct - LP Bypass Bell B	94.8	83.0	0.0	0.0	665.0	-67.4	1.2	-16.4	-0.4	0.0	0.0	11.7	
ACC 1 Duct - LP Bypass Bell C	94.9	83.0	0.0	0.0	663.3	-67.4	0.8	-18.8	-0.4	0.0	0.9	9.9	
ACC 1 Duct - LP Bypass Bell D	94.6	83.0	0.0	0.0	664.4	-67.4	0.8	-14.9	-0.4	0.0	0.4	13.1	
ACC 1 Duct - LP Bypass Bell E	94.9	83.0	0.0	0.0	666.9	-67.5	0.8	-17.9	-0.4	0.0	0.2	10.1	
ACC 1 Duct - LP Bypass Tube A	83.6	80.0	0.0	0.0	663.8	-67.4	0.8	-14.7	-0.4	0.0	0.0	1.8	
ACC 1 Duct - LP Bypass Tube B	83.6	80.0	0.0	0.0	663.4	-67.4	0.8	-14.8	-0.4	0.0	0.3	2.1	
ACC 1 Duct - LP Bypass Tube C	83.6	80.0	0.0	0.0	664.1	-67.4	0.8	-17.4	-0.4	0.0	0.0	-0.8	
ACC 1 Duct - LP Bypass Tube D	83.6	80.0	0.0	0.0	663.7	-67.4	0.8	-13.5	-0.4	0.0	0.0	3.1	
ACC 1 Duct - Main A	107.4	86.0	0.0	0.0	655.1	-67.3	0.5	-10.4	-0.9	0.0	0.3	29.6	
ACC 1 Duct - Main B	101.7	86.0	0.0	0.0	649.9	-67.2	0.7	-23.3	-0.6	0.0	0.9	12.2	
ACC 1 Duct - Main C	105.1	86.0	0.0	0.0	658.7	-67.4	0.7	-22.2	-0.5	0.0	2.7	18.5	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 1 Duct - Main D	101.7	86.0	0.0	0.0	645.2	-67.2	0.7	-7.1	-0.8	0.0	1.1	28.5	
ACC 1 Duct - Main E	99.0	86.0	0.0	0.0	648.0	-67.2	0.7	-3.3	-1.1	0.0	2.0	30.0	
ACC 1 Duct - Main F	98.6	86.0	0.0	0.0	651.2	-67.3	0.7	-4.9	-0.9	0.0	0.0	26.3	
ACC 1 Duct - Main G	105.1	86.0	0.0	0.0	660.5	-67.4	0.8	-9.8	-0.5	0.0	0.0	28.2	
ACC 1 Duct - Main H	107.4	86.0	0.0	0.0	655.0	-67.3	1.2	-8.8	-0.7	0.0	1.5	33.3	
ACC 1 Duct - Main M	98.9	86.0	0.0	0.0	697.2	-67.9	1.0	-17.2	-0.4	0.0	3.5	17.9	
ACC 1 Duct - Main N	107.5	86.0	0.0	0.0	682.0	-67.7	0.7	-22.1	-0.6	0.0	2.6	20.4	
ACC 1 Duct - Main O	106.8	86.0	0.0	0.0	684.2	-67.7	1.4	-13.9	-0.4	0.0	0.1	26.3	
ACC 1 Duct - Main P	106.8	86.0	0.0	0.0	685.0	-67.7	0.9	-18.0	-0.4	0.0	0.4	22.0	
ACC 1 Duct - Main Q	106.9	86.0	0.0	0.0	683.4	-67.7	0.9	-25.1	-0.8	0.0	2.1	16.3	
ACC 1 Duct - Main R	99.4	86.0	0.0	0.0	670.2	-67.5	0.8	-14.5	-0.4	0.0	0.2	18.0	
ACC 1 Duct - Main S	99.2	86.0	0.0	0.0	668.4	-67.5	0.8	-18.0	-0.4	0.0	1.1	15.3	
ACC 1 Duct - Riser 1 A	94.0	76.0	0.0	0.0	668.7	-67.5	-0.1	-7.3	-0.6	0.0	0.5	19.1	
ACC 1 Duct - Riser 1 B	94.1	76.0	0.0	0.0	670.7	-67.5	-0.1	-10.2	-0.5	0.0	0.1	15.8	
ACC 1 Duct - Riser 1 C	94.0	76.0	0.0	0.0	671.7	-67.5	-0.1	-15.4	-0.4	0.0	0.0	10.5	
ACC 1 Duct - Riser 1 D	94.1	76.0	0.0	0.0	669.6	-67.5	-0.1	-8.7	-0.5	0.0	0.5	17.7	
ACC 1 Duct - Riser 2 A	94.0	76.0	0.0	0.0	681.2	-67.7	-0.1	-9.2	-0.5	0.0	0.7	17.2	
ACC 1 Duct - Riser 2 B	94.1	76.0	0.0	0.0	683.3	-67.7	-0.1	-13.1	-0.4	0.0	0.2	12.9	
ACC 1 Duct - Riser 2 C	94.0	76.0	0.0	0.0	684.2	-67.7	-0.1	-15.8	-0.4	0.0	0.0	10.0	
ACC 1 Duct - Riser 2 D	94.1	76.0	0.0	0.0	682.1	-67.7	-0.1	-10.1	-0.5	0.0	0.6	16.3	
ACC 1 Duct - Riser 3 A	94.0	76.0	0.0	0.0	694.0	-67.8	-0.1	-9.9	-0.5	0.0	2.8	18.5	
ACC 1 Duct - Riser 3 B	94.1	76.0	0.0	0.0	696.1	-67.8	-0.1	-14.7	-0.4	0.0	3.0	14.0	
ACC 1 Duct - Riser 3 C	94.0	76.0	0.0	0.0	697.0	-67.9	-0.1	-15.8	-0.4	0.0	7.0	16.9	
ACC 1 Duct - Riser 3 D	94.1	76.0	0.0	0.0	695.0	-67.8	-0.1	-10.1	-0.5	0.0	3.6	19.1	
ACC 1 Top	109.0	72.7	0.0	0.0	790.0	-68.9	0.4	-6.1	-2.2	-6.8	0.1	25.5	
ACC 2 Bottom	109.0	72.7	0.0	0.0	707.0	-68.0	0.7	-0.8	-2.9	-8.6	0.0	29.5	
ACC 2 Duct - Finger 1 A	89.9	66.0	0.0	0.0	774.4	-68.8	-0.4	-4.3	-1.1	0.0	0.0	15.4	
ACC 2 Duct - Finger 1 B	89.9	66.0	0.0	0.0	773.2	-68.8	-0.4	-4.1	-1.0	0.0	2.3	17.9	
ACC 2 Duct - Finger 1 C	89.9	66.0	0.0	0.0	775.4	-68.8	-0.4	-11.5	-0.7	0.0	0.1	8.6	
ACC 2 Duct - Finger 2 A	90.0	66.0	0.0	0.0	786.9	-68.9	-0.4	-4.4	-1.1	0.0	0.0	15.2	
ACC 2 Duct - Finger 2 B	89.9	66.0	0.0	0.0	785.7	-68.9	-0.4	-6.2	-0.9	0.0	2.0	15.5	
ACC 2 Duct - Finger 2 C	89.9	66.0	0.0	0.0	787.9	-68.9	-0.4	-13.8	-0.6	0.0	0.1	6.2	



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Clear River Energy Center - Mean Propagation Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 2 Duct - Finger 3 A	90.0	66.0	0.0	0.0	799.4	-69.0	-0.4	-4.7	-1.0	0.0	0.0	14.8	
ACC 2 Duct - Finger 3 B	89.9	66.0	0.0	0.0	798.3	-69.0	-0.4	-6.6	-0.9	0.0	2.1	15.0	
ACC 2 Duct - Finger 3 C	89.9	66.0	0.0	0.0	800.5	-69.1	-0.4	-12.3	-0.7	0.0	0.0	7.4	
ACC 2 Duct - HRH Bypass Bell A	99.8	88.0	0.0	0.0	761.7	-68.6	1.1	-23.6	-0.7	0.0	0.0	7.9	
ACC 2 Duct - HRH Bypass Bell B	99.8	88.0	0.0	0.0	761.6	-68.6	1.6	-25.7	-0.9	0.0	0.0	6.1	
ACC 2 Duct - HRH Bypass Bell C	99.9	88.0	0.0	0.0	759.9	-68.6	1.3	-23.5	-0.7	0.0	2.7	11.1	
ACC 2 Duct - HRH Bypass Bell D	99.6	88.0	0.0	0.0	761.1	-68.6	1.3	-17.7	-0.5	0.0	0.5	14.6	
ACC 2 Duct - HRH Bypass Bell E	99.9	88.0	0.0	0.0	763.5	-68.6	1.3	-22.6	-0.7	0.0	2.3	11.6	
ACC 2 Duct - HRH Bypass Tube A	88.6	85.0	0.0	0.0	760.5	-68.6	1.3	-18.2	-0.5	0.0	0.0	2.6	
ACC 2 Duct - HRH Bypass Tube B	88.6	85.0	0.0	0.0	760.2	-68.6	1.3	-18.2	-0.5	0.0	0.6	3.3	
ACC 2 Duct - HRH Bypass Tube C	88.6	85.0	0.0	0.0	760.8	-68.6	1.3	-19.6	-0.6	0.0	0.0	1.1	
ACC 2 Duct - HRH Bypass Tube D	88.6	85.0	0.0	0.0	760.5	-68.6	1.4	-18.4	-0.5	0.0	0.0	2.5	
ACC 2 Duct - LP Bypass Bell A	94.8	83.0	0.0	0.0	766.1	-68.7	1.1	-23.2	-0.7	0.0	0.0	3.4	
ACC 2 Duct - LP Bypass Bell B	94.8	83.0	0.0	0.0	766.0	-68.7	1.6	-25.7	-0.9	0.0	0.0	1.1	
ACC 2 Duct - LP Bypass Bell C	94.9	83.0	0.0	0.0	764.3	-68.7	1.3	-22.1	-0.6	0.0	1.3	6.1	
ACC 2 Duct - LP Bypass Bell D	94.6	83.0	0.0	0.0	765.5	-68.7	1.3	-17.9	-0.5	0.0	0.5	9.4	
ACC 2 Duct - LP Bypass Bell E	94.9	83.0	0.0	0.0	767.9	-68.7	1.4	-20.9	-0.6	0.0	0.0	6.0	
ACC 2 Duct - LP Bypass Tube A	83.6	80.0	0.0	0.0	765.0	-68.7	1.3	-18.5	-0.5	0.0	0.0	-2.7	
ACC 2 Duct - LP Bypass Tube B	83.6	80.0	0.0	0.0	764.6	-68.7	1.3	-18.5	-0.5	0.0	0.7	-2.0	
ACC 2 Duct - LP Bypass Tube C	83.6	80.0	0.0	0.0	765.3	-68.7	1.3	-19.6	-0.6	0.0	0.0	-3.8	
ACC 2 Duct - LP Bypass Tube D	83.6	80.0	0.0	0.0	764.9	-68.7	1.4	-18.6	-0.5	0.0	0.0	-2.8	
ACC 2 Duct - Main A	103.2	86.0	0.0	0.0	748.9	-68.5	0.9	-15.6	-0.5	0.0	0.3	19.8	
ACC 2 Duct - Main B	101.6	86.0	0.0	0.0	750.4	-68.5	1.3	-24.4	-0.8	0.0	0.0	9.2	
ACC 2 Duct - Main D	101.8	86.0	0.0	0.0	745.8	-68.4	1.3	-13.4	-0.5	0.0	0.5	21.2	
ACC 2 Duct - Main E	98.6	86.0	0.0	0.0	748.3	-68.5	1.3	-11.2	-0.5	0.0	0.7	20.4	
ACC 2 Duct - Main F	98.2	86.0	0.0	0.0	751.2	-68.5	1.3	-14.3	-0.5	0.0	1.2	17.4	
ACC 2 Duct - Main H	103.2	86.0	0.0	0.0	748.8	-68.5	1.6	-24.6	-0.8	0.0	0.4	11.4	
ACC 2 Duct - Main M	98.9	86.0	0.0	0.0	782.8	-68.9	1.3	-19.2	-0.5	0.0	0.0	11.6	
ACC 2 Duct - Main N	107.5	86.0	0.0	0.0	767.3	-68.7	1.0	-21.7	-0.6	0.0	0.6	18.1	
ACC 2 Duct - Main O	106.8	86.0	0.0	0.0	770.3	-68.7	1.3	-18.6	-0.5	0.0	0.3	20.6	
ACC 2 Duct - Main P	106.8	86.0	0.0	0.0	769.6	-68.7	1.6	-24.9	-0.8	0.0	0.9	14.9	
ACC 2 Duct - Main Q	99.4	86.0	0.0	0.0	755.2	-68.6	1.3	-16.5	-0.5	0.0	0.2	15.3	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
ACC 2 Duct - Main R	99.2	86.0	0.0	0.0	753.7	-68.5	1.3	-23.9	-0.7	0.0	2.0	9.4	
ACC 2 Duct - Main S	106.9	86.0	0.0	0.0	768.9	-68.7	1.3	-24.0	-0.8	0.0	0.3	15.0	
ACC 2 Duct - Riser 1 A	94.0	76.0	0.0	0.0	753.3	-68.5	0.1	-7.0	-0.7	0.0	1.4	19.3	
ACC 2 Duct - Riser 1 B	94.1	76.0	0.0	0.0	755.4	-68.6	0.1	-14.0	-0.5	0.0	0.2	11.3	
ACC 2 Duct - Riser 1 C	94.0	76.0	0.0	0.0	756.4	-68.6	0.1	-16.0	-0.5	0.0	0.0	9.0	
ACC 2 Duct - Riser 1 D	94.1	76.0	0.0	0.0	754.3	-68.5	0.1	-7.1	-0.7	0.0	1.4	19.3	
ACC 2 Duct - Riser 2 A	94.0	76.0	0.0	0.0	766.2	-68.7	0.1	-10.8	-0.6	0.0	0.8	14.9	
ACC 2 Duct - Riser 2 B	94.1	76.0	0.0	0.0	768.2	-68.7	0.1	-15.4	-0.5	0.0	0.2	9.8	
ACC 2 Duct - Riser 2 C	94.0	76.0	0.0	0.0	769.2	-68.7	0.1	-17.6	-0.5	0.0	0.0	7.3	
ACC 2 Duct - Riser 2 D	94.1	76.0	0.0	0.0	767.2	-68.7	0.1	-11.4	-0.6	0.0	0.7	14.2	
ACC 2 Duct - Riser 3 A	94.0	76.0	0.0	0.0	779.1	-68.8	0.1	-11.2	-0.6	0.0	0.9	14.5	
ACC 2 Duct - Riser 3 B	94.1	76.0	0.0	0.0	781.1	-68.8	0.1	-16.1	-0.5	0.0	0.3	9.0	
ACC 2 Duct - Riser 3 C	94.0	76.0	0.0	0.0	782.1	-68.9	0.1	-17.6	-0.6	0.0	0.0	7.2	
ACC 2 Duct - Riser 3 D	94.1	76.0	0.0	0.0	780.1	-68.8	0.1	-13.3	-0.6	0.0	1.0	12.5	
ACC 2 Top	109.0	72.7	0.0	0.0	707.5	-68.0	0.3	-5.2	-2.1	-7.2	0.4	27.3	
ACHE 1	99.0	72.9	0.0	0.0	751.3	-68.5	2.2	-7.4	-2.2	0.0	0.0	23.1	
ACHE 2	99.0	72.9	0.0	0.0	645.5	-67.2	1.8	-5.9	-2.2	0.0	0.8	26.2	
Air Process Skid 2	93.0	93.0	0.0	0.0	660.2	-67.4	3.0	-26.3	-3.0	0.0	0.0	-0.7	
Air Process Skid 2	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	-4.1	0.0	0.0	-4.5	
Ammonia Forwarding Pump	93.1	93.1	0.0	0.0	762.2	-68.6	3.1	-7.9	-4.2	0.0	0.1	15.6	
Ammonia Injection Skid 1	98.1	98.1	0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	5.6	
Ammonia Injection Skid 2	98.1	98.1	0.0	0.0	609.9	-66.7	2.5	-5.2	-5.2	0.0	3.4	26.8	
Aux Boiler Building - East Side	88.0	64.3	0.0	3.0	675.2	-67.6	1.2	-4.6	-0.5	0.0	0.0	19.5	
Aux Boiler Building - North Side	88.5	64.3	0.0	3.0	686.4	-67.7	1.3	-3.9	-0.5	0.0	0.0	20.6	
Aux Boiler Building - Roof	91.9	64.3	0.0	0.0	688.2	-67.7	0.6	-5.5	-0.5	0.0	0.6	19.3	
Aux Boiler Building - South Side	88.5	64.3	0.0	3.0	690.1	-67.8	1.2	-10.2	-0.3	0.0	0.3	14.9	
Aux Boiler Building - West Side	88.0	64.3	0.0	3.0	701.0	-67.9	1.3	-15.5	-0.3	0.0	3.3	11.9	
Aux Boiler Building Vent Louvers - North	86.0	75.2	0.0	3.0	681.9	-67.7	1.9	-2.6	-2.4	0.0	0.0	18.3	
Aux Boiler Building Vent Louvers - South	86.0	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	-0.9	0.0	0.3	6.7	
Aux Boiler FD Fan Inlet	100.0	100.0	0.0	0.0	674.3	-67.6	1.5	-5.1	-2.2	0.0	2.5	29.0	
Aux Boiler Stack Exhaust	100.0	100.0	0.0	0.0	695.0	-67.8	0.7	0.0	-4.3	-8.0	0.0	20.6	
Aux Transformer 1 - Side 1	82.0	69.2	0.0	3.0	717.7	-68.1	2.2	-26.8	-1.8	0.0	3.5	-5.9	



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Aux Transformer 1 - Side 2	82.0	70.2	0.0	3.0	713.8	-68.1	2.2	-25.6	-1.4	0.0	1.9	-6.0	
Aux Transformer 1 - Side 3	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	-1.3	0.0	3.2	-4.1	
Aux Transformer 1 - Side 4	82.0	70.2	0.0	3.0	719.9	-68.1	2.2	-26.7	-1.7	0.0	4.6	-4.8	
Aux Transformer 1 - Top	82.0	66.9	0.0	0.0	716.9	-68.1	2.0	-24.8	-1.3	0.0	3.5	-6.7	
Aux Transformer 2 - Side 1	82.0	69.2	0.0	3.0	617.7	-66.8	1.7	-15.8	-1.0	0.0	8.6	11.7	
Aux Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	-9.1	-1.3	0.0	1.0	10.5	
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	-8.4	-1.4	0.0	3.5	13.6	
Aux Transformer 2 - Side 4	82.0	70.2	0.0	3.0	619.7	-66.8	1.8	-17.2	-1.0	0.0	9.3	11.0	
Aux Transformer 2 - Top	82.0	66.9	0.0	0.0	616.7	-66.8	1.3	-6.0	-1.7	0.0	2.9	11.7	
BFW Pump Enclosure 1-Side 1	94.4	76.9	0.0	3.0	758.0	-68.6	1.7	-25.4	-0.7	0.0	0.0	4.4	
BFW Pump Enclosure 1-Side 2	97.2	76.9	0.0	3.0	747.2	-68.5	1.7	-25.2	-0.7	0.0	0.3	7.8	
BFW Pump Enclosure 1-Side 3	94.4	76.9	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0	6.7	
BFW Pump Enclosure 1-Side 4	97.2	76.9	0.0	3.0	762.3	-68.6	1.7	-25.4	-0.7	0.0	0.0	7.2	
BFW Pump Enclosure 1-Top	103.5	76.9	0.0	0.0	754.8	-68.5	1.5	-24.1	-0.6	0.0	0.1	11.7	
BFW Pump Enclosure 2-Side 1	94.4	76.9	0.0	3.0	654.3	-67.3	1.5	-22.7	-0.5	0.0	0.0	8.4	
BFW Pump Enclosure 2-Side 2	97.2	76.9	0.0	3.0	643.1	-67.2	1.5	-22.3	-0.4	0.0	0.8	12.7	
BFW Pump Enclosure 2-Side 3	94.4	76.9	0.0	3.0	646.8	-67.2	1.5	-23.5	-0.5	0.0	9.1	16.9	
BFW Pump Enclosure 2-Side 4	97.2	76.9	0.0	3.0	657.8	-67.4	1.6	-25.3	-0.6	0.0	0.0	8.5	
BFW Pump Enclosure 2-Top	103.4	76.9	0.0	0.0	650.5	-67.3	1.1	-20.3	-0.4	0.0	0.8	17.4	
Condensate Equipment Bldg 1 - East Side	77.7	56.7	0.0	3.0	745.5	-68.4	1.9	-7.0	-0.6	0.0	0.0	6.7	
Condensate Equipment Bldg 1 - North Side	75.2	56.7	0.0	3.0	747.4	-68.5	1.9	-18.8	-0.3	0.0	0.7	-6.8	
Condensate Equipment Bldg 1 - Roof	78.0	51.7	0.0	0.0	752.7	-68.5	1.6	-7.8	-0.6	0.0	0.1	2.8	
Condensate Equipment Bldg 1 - South Side	75.2	56.7	0.0	3.0	758.0	-68.6	1.9	-15.2	-0.4	0.0	0.5	-3.6	
Condensate Equipment Bldg 1 - West Side	77.7	56.7	0.0	3.0	759.8	-68.6	1.9	-18.3	-0.4	0.0	1.1	-3.5	
Condensate Equipment Bldg 2 - East Side	77.7	56.7	0.0	3.0	662.8	-67.4	1.6	-6.0	-0.6	0.0	0.0	8.3	
Condensate Equipment Bldg 2 - North Side	75.2	56.7	0.0	3.0	664.0	-67.4	1.6	-6.1	-0.6	0.0	0.0	5.7	
Condensate Equipment Bldg 2 - Roof	78.0	51.7	0.0	0.0	669.8	-67.5	1.0	-5.6	-0.5	0.0	0.0	5.4	
Condensate Equipment Bldg 2 - South Side	75.2	56.7	0.0	3.0	675.9	-67.6	1.7	-10.2	-0.3	0.0	0.0	1.7	
Condensate Equipment Bldg 2 - West Side	77.7	56.7	0.0	3.0	676.8	-67.6	1.7	-13.0	-0.3	0.0	0.0	1.5	
CTG 1 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	739.2	-68.4	3.2	-6.7	-5.7	0.0	0.0	26.2	
CTG 2 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	637.2	-67.1	2.9	-7.5	-4.5	0.0	0.0	27.6	
CTG Air Inlet 1	106.2	82.9	0.0	0.0	769.2	-68.7	3.2	-26.9	-8.4	0.0	0.1	5.5	



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CTG Air Inlet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	0.0	0.2	8.4	
CTG Air Inlet Duct 1 - North	99.9	84.4	0.0	0.0	750.4	-68.5	2.7	-25.3	-2.8	0.0	1.3	7.3	
CTG Air Inlet Duct 1 - South	99.9	84.4	0.0	0.0	752.0	-68.5	2.7	-26.1	-3.3	0.0	1.0	5.7	
CTG Air Inlet Duct 1 - Top	99.9	83.3	0.0	0.0	751.3	-68.5	2.4	-26.6	-3.7	0.0	0.1	3.6	
CTG Air Inlet Duct 2 - North	99.9	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	1.0	10.3	
CTG Air Inlet Duct 2 - South	99.9	84.3	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	7.1	
CTG Air Inlet Duct 2 - Top	99.9	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	-3.6	0.0	0.9	5.3	
CTG Building 1 - East Facade	95.1	64.7	0.0	3.0	718.8	-68.1	0.8	-5.0	-0.3	0.0	0.0	25.4	
CTG Building 1 - North Facade	94.0	64.7	0.0	3.0	727.6	-68.2	0.8	-6.7	-0.3	0.0	0.0	22.6	
CTG Building 1 - Roof	89.9	59.7	0.0	0.0	733.1	-68.3	-0.1	-4.7	-0.4	0.0	0.2	16.6	
CTG Building 1 - West Facade	95.1	64.7	0.0	3.0	746.3	-68.5	0.8	-17.6	-0.3	0.0	0.0	12.6	
CTG Building 1 Vent Louvers - East	89.6	77.0	0.0	3.0	719.5	-68.1	1.8	-6.6	-2.6	0.0	0.0	17.0	
CTG Building 1 Vent Louvers - North	89.6	77.0	0.0	3.0	719.5	-68.1	1.8	-14.1	-1.1	0.0	0.2	11.2	
CTG Building 1 Vent Louvers - West	70.1	57.6	0.0	3.0	742.9	-68.4	1.3	-17.2	-0.2	0.0	0.0	-11.4	
CTG Building 2 - East Facade	95.1	64.7	0.0	3.0	616.4	-66.8	0.5	-1.3	-0.3	0.0	0.0	30.2	
CTG Building 2 - North Facade	94.0	64.7	0.0	3.0	624.3	-66.9	0.6	-1.9	-0.3	0.0	0.0	28.5	
CTG Building 2 - Roof	89.9	59.7	0.0	0.0	630.5	-67.0	0.0	-4.6	-0.3	0.0	0.0	17.9	
CTG Building 2 - West Facade	95.1	64.7	0.0	3.0	643.6	-67.2	0.5	-14.5	-0.2	0.0	0.0	16.7	
CTG Building 2 Vent Louvers - East	89.6	77.0	0.0	3.0	617.4	-66.8	1.5	-0.1	-5.4	0.0	0.0	21.8	
CTG Building 2 Vent Louvers - North	89.6	77.0	0.0	3.0	616.4	-66.8	1.5	-0.1	-5.4	0.0	1.4	23.2	
CTG Building 2 Vent Louvers - West	89.6	77.0	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	4.9	
Demin Water Pump	93.1	93.1	0.0	0.0	675.5	-67.6	3.1	-24.9	-2.0	0.0	0.5	2.2	
Duct Burner Skid 1	95.0	95.0	0.0	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	2.8	5.4	
Duct Burner Skid 2	95.0	95.0	0.0	0.0	613.7	-66.8	2.5	-3.6	-3.8	0.0	1.8	25.2	
Emergency Diesel Generator - Side 1	8.2	-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	-3.9	0.0	2.1	-83.3	
Emergency Diesel Generator - Side 2	8.2	-7.8	0.0	3.0	680.2	-67.6	3.3	-28.2	-3.8	0.0	1.2	-83.9	
Emergency Diesel Generator - Top	8.2	-8.6	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	-84.8	
Excitation Transformer 1	80.0	80.0	0.0	0.0	718.7	-68.1	2.2	-24.5	-1.3	0.0	2.8	-8.9	
Excitation Transformer 2	80.0	80.0	0.0	0.0	617.1	-66.8	1.6	-5.3	-2.2	0.0	2.4	9.6	
Fire Pump Building - Roof	-4.1	-23.3	0.0	0.0	630.7	-67.0	1.2	-5.5	-0.5	0.0	0.0	-76.0	
Fire Pump Building - Side 1	-5.7	-23.3	0.0	3.0	633.9	-67.0	1.8	-11.8	-0.3	0.0	0.0	-80.1	
Fire Pump Building - Side 2	-8.5	-23.3	0.0	3.0	631.3	-67.0	1.8	-6.6	-0.4	0.0	0.0	-77.7	



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Clear River Energy Center - Mean Propagation Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Fire Pump Building - Side 3	-5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-6.4	-0.5	0.0	0.0	-74.9	
Fire Pump Building - Side 4	-8.5	-23.3	0.0	3.0	630.0	-67.0	1.8	-6.4	-0.5	0.0	0.0	-77.7	
Fuel Gas Dewpoint Heater	102.2	85.3	0.0	0.0	795.5	-69.0	3.9	-28.8	-15.5	0.0	0.0	-7.2	
Fuel Gas Metering and Regulating Station	93.0	93.0	0.0	0.0	798.2	-69.0	3.9	-28.7	-8.8	0.0	0.0	-9.7	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	748.2	-68.5	3.2	-28.0	-4.1	0.0	0.0	-4.4	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	645.0	-67.2	3.0	-26.6	-3.1	0.0	0.0	-1.0	
Gas Aftercooler 1	101.0	84.0	0.0	0.0	806.0	-69.1	3.2	-27.6	-3.9	0.0	0.0	3.6	
Gas Aftercooler 2	101.0	83.9	0.0	0.0	809.0	-69.2	3.2	-27.7	-4.0	0.0	0.0	3.4	
Gas Compressor Bldg Louvers - E	105.7	98.0	0.0	3.0	784.3	-68.9	2.9	-27.1	-3.1	0.0	0.0	12.6	
Gas Compressor Bldg Louvers - N	105.7	98.0	0.0	3.0	790.8	-69.0	2.9	-27.3	-3.3	0.0	0.0	12.0	
Gas Compressor Bldg Louvers - S	105.7	98.0	0.0	3.0	791.0	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.6	
Gas Compressor Bldg Louvers - W	105.7	98.0	0.0	3.0	797.4	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.5	
Gas Compressor Building - East Side	99.1	76.7	0.0	3.0	784.1	-68.9	1.7	-16.1	-0.3	0.0	0.0	18.5	
Gas Compressor Building - North Side	97.5	76.7	0.0	3.0	788.6	-68.9	1.7	-16.6	-0.3	0.0	0.0	16.4	
Gas Compressor Building - Roof	101.0	76.7	0.0	0.0	791.0	-69.0	1.2	-17.7	-0.4	0.0	0.0	15.1	
Gas Compressor Building - South Side	97.5	76.7	0.0	3.0	793.2	-69.0	1.7	-19.5	-0.3	0.0	0.0	13.4	
Gas Compressor Building - West Side	99.1	76.7	0.0	3.0	797.6	-69.0	1.7	-21.3	-0.4	0.0	0.0	13.1	
GSU 1 - Side 1	94.0	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	1.4	4.2	
GSU 1 - Side 2	94.0	78.0	0.0	3.0	714.6	-68.1	2.1	-25.1	-1.5	0.0	0.2	4.7	
GSU 1 - Side 3	94.0	75.7	0.0	3.0	720.1	-68.1	2.1	-26.3	-1.6	0.0	1.5	4.6	
GSU 1 - Side 4	94.0	78.0	0.0	3.0	728.5	-68.2	2.1	-26.5	-1.8	0.0	2.5	5.2	
GSU 1 - Top	94.0	72.9	0.0	0.0	721.4	-68.2	1.8	-23.9	-1.3	0.0	1.7	4.2	
GSU 2 - Side 1	94.0	75.7	0.0	3.0	623.4	-66.9	1.6	-13.1	-1.2	0.0	0.3	17.7	
GSU 2 - Side 2	94.0	78.0	0.0	3.0	615.0	-66.8	1.2	-1.9	-2.6	0.0	0.0	27.0	
GSU 2 - Side 3	94.0	75.7	0.0	3.0	620.1	-66.8	1.6	-6.8	-2.1	0.0	0.5	23.3	
GSU 2 - Side 4	94.0	78.0	0.0	3.0	628.6	-67.0	1.7	-18.3	-1.0	0.0	2.0	14.4	
GSU 2 - Top	94.0	72.9	0.0	0.0	621.5	-66.9	1.1	-6.3	-1.7	0.0	1.7	22.0	
HRSG 1 - Body - Side 1	97.0	66.6	0.0	3.0	730.9	-68.3	0.7	-16.6	-0.4	0.0	0.0	15.5	
HRSG 1 - Body - Side 2	97.0	66.6	0.0	3.0	720.4	-68.1	0.7	-4.2	-0.7	0.0	0.0	27.8	
HRSG 1 - Exhaust Stack	102.4	102.4	0.0	0.0	724.6	-68.2	2.0	0.0	-0.4	-3.6	0.0	32.3	
HRSG 1 - Piping and Valves	98.5	80.0	0.0	0.0	744.6	-68.4	0.5	-17.1	-0.5	0.0	0.2	13.1	
HRSG 1 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	721.3	-68.2	2.0	-0.8	-0.1	0.0	0.0	1.5	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG 1 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	719.5	-68.1	2.0	-1.5	-0.2	0.0	0.0	0.8	
HRSG 1 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	-0.2	0.0	0.0	-1.2	
HRSG 1 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	720.4	-68.1	2.0	-3.7	-0.2	0.0	0.0	-1.5	
HRSG 1 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	722.6	-68.2	2.0	-4.4	-0.2	0.0	0.0	-2.2	
HRSG 1 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	-6.2	-0.1	0.0	0.0	-3.9	
HRSG 1 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	724.7	-68.2	2.0	-6.9	-0.1	0.0	0.0	-4.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	-8.5	-0.2	0.0	0.0	-6.3	
HRSG 1 - T1 - Side 1	96.6	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	-0.4	0.0	0.5	15.1	
HRSG 1 - T1 - Side 2	96.6	81.2	0.0	3.0	727.2	-68.2	1.6	-11.1	-0.4	0.0	1.0	22.6	
HRSG 1 - T1 - Top	96.6	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	0.0	2.1	18.0	
HRSG 1 - T2 - Side 1	96.6	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	-0.4	0.0	0.1	14.5	
HRSG 1 - T2 - Side 2	96.6	76.2	0.0	3.0	725.7	-68.2	1.0	-8.3	-0.4	0.0	0.0	23.8	
HRSG 1 - T2 - Top	96.6	80.4	0.0	0.0	730.5	-68.3	-0.1	-7.5	-0.5	0.0	0.3	20.6	
HRSG 2 - Body - Side 1	97.0	66.6	0.0	3.0	626.6	-66.9	0.4	-15.8	-0.3	0.0	0.0	17.5	
HRSG 2 - Body - Side 2	97.0	66.6	0.0	3.0	616.2	-66.8	0.5	-1.3	-0.7	0.0	0.0	31.8	
HRSG 2 - Exhaust Stack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0.0	-0.3	-3.6	0.0	33.4	
HRSG 2 - Piping and Valves	98.5	80.1	0.0	0.0	640.8	-67.1	0.2	-13.2	-0.5	0.0	2.7	20.6	
HRSG 2 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	616.7	-66.8	1.9	-0.8	-0.1	0.0	0.0	2.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	614.9	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.3	
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	615.5	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	617.8	-66.8	1.9	-4.4	-0.1	0.0	0.0	-0.9	
HRSG 2 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	619.6	-66.8	1.9	-6.1	-0.1	0.0	0.0	-2.6	
HRSG 2 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	620.0	-66.8	1.9	-7.0	-0.1	0.0	0.0	-3.5	
HRSG 2 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	618.9	-66.8	1.9	-7.8	-0.1	0.0	0.0	-4.3	
HRSG 2 - T1 - Side 1	96.6	81.2	0.0	3.0	631.2	-67.0	1.0	-10.7	-0.2	0.0	0.5	23.2	
HRSG 2 - T1 - Side 2	96.6	81.2	0.0	3.0	624.0	-66.9	1.2	-3.9	-0.9	0.0	2.0	31.2	
HRSG 2 - T1 - Top	96.6	82.8	0.0	0.0	627.9	-66.9	0.7	-5.4	-0.4	0.0	2.4	27.0	
HRSG 2 - T2 - Side 1	96.6	76.2	0.0	3.0	631.1	-67.0	0.6	-12.3	-0.3	0.0	0.1	20.8	
HRSG 2 - T2 - Side 2	96.6	76.2	0.0	3.0	622.3	-66.9	0.7	-1.8	-0.7	0.0	0.7	31.6	
HRSG 2 - T2 - Top	96.6	80.4	0.0	0.0	627.4	-66.9	0.0	-6.0	-0.6	0.0	0.7	23.7	
HRSG Recirc Pump 1	93.0	93.0	0.0	0.0	711.2	-68.0	3.1	-26.3	-2.6	0.0	8.1	7.3	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG Recirc Pump 2	93.0	93.0	0.0	0.0	606.4	-66.6	2.8	-7.3	-3.6	0.0	2.2	20.6	
Isolation Transformer 1	80.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	-1.3	0.0	8.5	-3.9	
Isolation Transformer 2	80.0	80.0	0.0	0.0	601.3	-66.6	1.2	-2.9	-2.8	0.0	2.4	11.4	
Rooftop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	-4.4	-4.9	0.0	0.0	15.2	
Rooftop Vent Fan - Admin 2	87.8	87.8	0.0	0.0	612.2	-66.7	2.8	-7.5	-2.7	0.0	0.0	13.7	
Rooftop Vent Fan - Admin 3	87.8	87.8	0.0	0.0	589.4	-66.4	2.8	-7.5	-2.7	0.0	0.0	13.9	
Rooftop Vent Fan - Admin 4	87.8	87.8	0.0	0.0	614.6	-66.8	2.8	-7.6	-2.8	0.0	1.4	14.9	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	-2.0	-5.1	0.0	0.0	16.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	753.2	-68.5	3.0	-6.0	-2.7	0.0	0.0	13.6	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.8	0.0	0.0	735.3	-68.3	3.0	-6.8	-2.7	0.0	0.0	12.9	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.8	0.0	0.0	724.3	-68.2	2.9	-6.5	-2.7	0.0	0.0	13.3	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.8	0.0	0.0	728.3	-68.2	2.9	-3.1	-3.4	0.0	0.0	16.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.8	0.0	0.0	632.6	-67.0	2.7	-7.4	-2.9	0.0	0.0	13.2	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.8	0.0	0.0	627.4	-66.9	2.7	-0.7	-4.0	0.0	0.0	18.8	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	-0.8	-4.0	0.0	0.0	18.8	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.8	0.0	0.0	790.3	-68.9	3.1	-17.9	-1.3	0.0	0.0	2.7	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	3.1	-18.6	-1.5	0.0	0.0	1.9	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	3.1	-18.3	-1.5	0.0	0.0	2.2	
Rooftop Vent Fan - STG Bldg 1	87.8	87.8	0.0	0.0	658.3	-67.4	2.8	-7.5	-2.9	0.0	0.0	12.8	
Rooftop Vent Fan - STG Bldg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	-4.1	0.0	0.0	18.7	
Rooftop Vent Fan - STG Bldg 3	87.8	87.8	0.0	0.0	645.9	-67.2	2.7	-7.5	-2.9	0.0	0.0	12.9	
Rooftop Vent Fan - STG Bldg 4	87.8	87.8	0.0	0.0	735.2	-68.3	2.9	-7.2	-2.9	0.0	0.0	12.3	
Rooftop Vent Fan - STG Bldg 5	87.8	87.8	0.0	0.0	758.9	-68.6	3.0	-7.8	-3.1	0.0	0.0	11.3	
Rooftop Vent Fan - STG Bldg 6	87.8	87.8	0.0	0.0	746.0	-68.4	3.0	-7.1	-2.8	0.0	0.0	12.3	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.8	0.0	0.0	700.5	-67.9	3.0	-7.7	-3.0	0.0	0.0	12.1	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.8	0.0	0.0	680.5	-67.6	3.0	-7.1	-2.7	0.0	0.0	13.3	
Safety Vent	129.0	129.0	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	48.1	
Scanner Cooling Air Blower 1	93.1	93.1	0.0	0.0	728.1	-68.2	3.2	-5.0	-3.8	0.0	0.0	19.2	
Scanner Cooling Air Blower 2	93.1	93.1	0.0	0.0	624.3	-66.9	2.9	-0.1	-4.5	0.0	0.0	24.5	
Service Water Pump	93.1	93.1	0.0	0.0	662.7	-67.4	3.0	-26.9	-2.9	0.0	0.3	-0.7	
Startup Vent - Aux Boiler Blowdown	114.2	114.2	0.0	0.0	680.1	-67.6	1.3	0.0	-8.4	-8.0	0.0	31.5	
Startup Vent - Aux Boiler Startup	114.2	114.2	0.0	0.0	683.5	-67.7	1.3	0.0	-8.4	-8.0	0.0	31.4	



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Clear River Energy Center - Mean Propagation Emergency Shutdown Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
Startup Vent - HRSG Blowdown 1	114.2	114.2	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	33.2
Startup Vent - HRSG Blowdown 2	114.2	114.2	0.0	0.0	713.7	-68.1	1.3	0.0	-8.5	-7.8	0.6	31.7
Startup Vent - Steam Turbine Drains Tank	114.2	114.2	0.0	0.0	653.9	-67.3	2.6	-0.1	-8.6	-8.6	0.0	32.2
Steam Turbine Bldg 1 - East Facade	92.4	64.9	0.0	3.0	726.9	-68.2	1.2	-7.6	-0.3	0.0	0.0	20.5
Steam Turbine Bldg 1 - North Facade	90.7	64.9	0.0	3.0	757.1	-68.6	1.2	-14.8	-0.3	0.0	0.0	11.2
Steam Turbine Bldg 1 - Roof	88.8	59.9	0.0	0.0	746.8	-68.5	0.2	-6.2	-0.5	0.0	0.2	14.1
Steam Turbine Bldg 1 - South Facade	95.7	64.9	0.0	3.0	748.9	-68.5	1.2	-15.0	-0.2	0.0	0.0	16.3
Steam Turbine Bldg 1 - West Facade	92.4	64.9	0.0	3.0	765.7	-68.7	1.2	-18.3	-0.3	0.0	0.0	9.4
Steam Turbine Bldg 2 - East Facade	92.4	64.9	0.0	3.0	626.1	-66.9	0.9	-1.0	-0.4	0.0	0.0	28.0
Steam Turbine Bldg 2 - North Facade	90.7	64.9	0.0	3.0	655.2	-67.3	1.0	-10.1	-0.2	0.0	0.0	17.0
Steam Turbine Bldg 2 - Roof	88.8	59.9	0.0	0.0	645.7	-67.2	0.2	-4.9	-0.5	0.0	0.0	16.4
Steam Turbine Bldg 2 - South Facade 1	95.7	64.9	0.0	3.0	647.9	-67.2	0.9	-9.2	-0.2	0.0	0.1	23.0
Steam Turbine Bldg 2 - West Facade	92.4	64.9	0.0	3.0	664.1	-67.4	1.0	-16.7	-0.2	0.0	0.0	12.0
STG Building 1 Vent Louvers - East	89.3	76.8	0.0	3.0	726.6	-68.2	1.4	-14.1	-1.0	0.0	0.0	10.4
STG Building 1 Vent Louvers - South 1	89.3	76.8	0.0	3.0	758.9	-68.6	1.5	-21.6	-1.4	0.0	0.0	2.2
STG Building 1 Vent Louvers - South 2	89.3	76.8	0.0	3.0	737.1	-68.3	1.4	-20.4	-1.3	0.0	0.0	3.7
STG Building 1 Vent Louvers - West	89.3	76.8	0.0	3.0	765.8	-68.7	1.5	-24.0	-1.8	0.0	0.7	0.0
STG Building 2 Vent Louvers - East	89.3	76.8	0.0	3.0	625.6	-66.9	1.0	0.0	-3.0	0.0	0.0	23.5
STG Building 2 Vent Louvers - South 1	89.3	76.8	0.0	3.0	657.9	-67.4	1.1	-17.2	-1.1	0.0	0.0	7.8
STG Building 2 Vent Louvers - South 2	89.3	76.8	0.0	3.0	636.5	-67.1	1.1	-13.2	-1.2	0.0	0.0	12.0
STG Building 2 Vent Louvers - West	89.3	76.8	0.0	3.0	664.2	-67.4	1.2	-23.4	-1.5	0.0	0.0	1.1
STW Heat Exchanger 1	102.0	90.9	0.0	0.0	747.9	-68.5	3.1	-28.0	-4.2	0.0	0.0	4.5
STW Heat Exchanger 2	102.0	90.9	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	8.5
Waste Water Pump	93.1	93.1	0.0	0.0	669.7	-67.5	3.1	-25.8	-2.3	0.0	0.0	0.5
Water Treatment Building - East Side	78.9	56.7	0.0	3.0	660.8	-67.4	1.5	-6.1	-0.5	0.0	0.0	9.5
Water Treatment Building - North Side	83.3	56.7	0.0	3.0	684.3	-67.7	1.5	-4.5	-0.5	0.0	0.0	15.1
Water Treatment Building - Roof	86.4	56.7	0.0	0.0	685.7	-67.7	0.9	-5.6	-0.6	0.0	0.0	13.5
Water Treatment Building - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	1.5	-14.9	-0.3	0.0	0.0	4.8
Water Treatment Building - West Side	78.9	56.7	0.0	3.0	711.6	-68.0	1.6	-15.1	-0.3	0.0	0.0	0.0
WTB Ventilation Louvers - North Side	90.0	78.0	0.0	3.0	679.3	-67.6	2.6	-5.2	-3.1	0.0	0.0	19.6
WTB Ventilation Louvers - South Side	90.0	78.0	0.0	3.0	693.0	-67.8	2.6	-22.9	-2.1	0.0	0.0	2.9



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Emergency Steam Release

Clear River Energy Center - Receiver Sound Levels Emergency Steam Release Analysis - A-Weight - ISO9613

Name	SPL dB(A)	
M1 - Wallum Lake Road	49.2	
M2 - Jackson Schoolhouse Road (East)	45.6	
M3 - Doe Crossing Drive	43.1	
M4 - Buck Hill Road	43.3	
M5 - Jackson Schoolhouse Road (South)	38.0	



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Clear River Energy Center - Receiver Spectra Emergency Steam Release Analysis - A-Weight - ISO9613

31Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
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Receiver M1 - Wallum Lake Road									
59.9	62.5	58.1	53.2	42.6	38.2	41.5	26.4	-26.3	
Receiver M2 - Jackson Schoolhouse Road (East)									
58.6	60.3	54.5	50.4	40.4	34.1	34.4	13.3		
Receiver M3 - Doe Crossing Drive									
56.8	58.1	52.1	48.3	37.9	31.8	28.6	-3.7		
Receiver M4 - Buck Hill Road									
58.3	59.8	52.7	48.0	38.1	32.9	27.7	-7.5		
Receiver M5 - Jackson Schoolhouse Road (South)									
53.9	55.3	47.3	43.0	32.5	25.6	20.6	-25.3		

Clear River Energy Center - Source List

Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
ACC 1 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 1 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9	104.3	98.5	93.0	86.9	
ACHE 1	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
ACHE 2	99.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9	94.3	88.5	83.0	76.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Air Process Skid 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Ammonia Forwarding Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Ammonia Injection Skid 1	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	102.0	96.0	96.0	93.0	92.0	91.0	90.0	86.0	
Aux Boiler Building - East Side	-6.6	-30.27	Area	3	234.94	14.8	10.7	5.7	-2.3	-15.3	-27.3	-36.3	-44.3	-44.3	
Aux Boiler Building - North Side	-6.0	-30.27	Area	3	268.09	15.3	11.3	6.3	-1.7	-14.7	-26.7	-35.7	-43.7	-43.7	
Aux Boiler Building - Roof	-2.6	-30.27	Area	0	579.10	18.7	14.6	9.6	1.7	-11.3	-23.4	-32.4	-40.3	-40.4	
Aux Boiler Building - South Side	-6.0	-30.27	Area	3	268.09	15.3	11.3	6.3	-1.7	-14.7	-26.7	-35.7	-43.7	-43.7	
Aux Boiler Building - West Side	-6.5	-30.27	Area	3	235.85	14.8	10.7	5.7	-2.2	-15.2	-27.3	-36.3	-44.2	-44.3	
Aux Boiler Building Vent Louvers - North	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler Building Vent Louvers - South	86.0	75.22	Area	3	12.00	98.3	95.8	92.8	86.8	83.8	78.8	74.8	73.8	73.8	
Aux Boiler FD Fan Inlet	0.0	0.00	Point	0		2.3	2.8	1.7	1.7	-1.2	-5.2	-12.2	-19.2	-24.3	
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2	102.2	100.2	99.2	97.2	93.2	90.2	87.2	94.2	
Aux Transformer 1 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 1 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 1	82.0	69.16	Area	3	19.21	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 2	82.0	70.16	Area	3	15.27	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 3	82.0	69.18	Area	3	19.13	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 4	82.0	70.20	Area	3	15.15	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	70.6	65.7	58.6	
BFW Pump Enclosure 1-Side 1	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9	
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	3	107.28	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7	
BFW Pump Enclosure 1-Side 3	94.4	76.92	Area	3	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	69.9	63.9	



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Clear River Energy Center - Source List

Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
BFW Pump Enclosure 1-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7	
BFW Pump Enclosure 1-Top	103.5	76.92	Area	0	452.03	119.5	116.9	113.9	108.9	96.9	90.9	86.9	78.9	72.9	
BFW Pump Enclosure 2-Side 1	94.4	76.92	Area	3	55.67	110.4	107.8	104.8	99.8	87.8	81.8	77.8	69.8	63.8	
BFW Pump Enclosure 2-Side 2	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7	
BFW Pump Enclosure 2-Side 3	94.4	76.92	Area	3	55.43	110.4	107.8	104.7	99.8	87.8	81.8	77.8	69.8	63.8	
BFW Pump Enclosure 2-Side 4	97.2	76.92	Area	3	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7	
BFW Pump Enclosure 2-Top	103.4	76.92	Area	0	445.84	119.4	116.9	113.8	108.8	96.9	90.9	86.9	78.9	72.8	
Condensate Equipment Bldg 1 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0	
Condensate Equipment Bldg 1 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bldg 1 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2	
Condensate Equipment Bldg 1 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bldg 1 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0	
Condensate Equipment Bldg 2 - East Side	77.7	56.70	Area	3	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0	
Condensate Equipment Bldg 2 - North Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bldg 2 - Roof	78.0	51.70	Area	0	425.27	92.2	95.2	89.2	83.2	69.2	60.2	53.2	47.2	46.2	
Condensate Equipment Bldg 2 - South Side	75.2	56.70	Area	3	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bldg 2 - West Side	77.7	56.70	Area	3	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0	
CTG 1 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0	
CTG 2 - Turbine Compartment Vent Fan	103.8	103.79	Point	0		101.6	102.0	109.9	101.0	98.0	95.0	94.0	98.0	95.0	
CTG Air Inlet 1	106.2	82.90	Area	0	213.41	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0	
CTG Air Inlet 2	106.2	82.93	Area	0	211.99	112.0	105.0	101.0	94.0	90.0	91.0	96.0	104.0	95.0	
CTG Air Inlet Duct 1 - North	99.9	84.40	Area	0	35.83	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0	
CTG Air Inlet Duct 1 - South	99.9	84.44	Area	0	35.50	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0	
CTG Air Inlet Duct 1 - Top	99.9	83.26	Area	0	46.57	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0	
CTG Air Inlet Duct 2 - North	99.9	84.32	Area	0	36.52	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0	
CTG Air Inlet Duct 2 - South	99.9	84.29	Area	0	36.74	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0	
CTG Air Inlet Duct 2 - Top	99.9	83.15	Area	0	47.70	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	59.0	
CTG Building 1 - East Facade	88.1	57.70	Area	3	1101.55	109.7	103.5	102.8	87.8	77.0	66.7	62.4	59.5	50.6	
CTG Building 1 - North Facade	87.0	57.70	Area	3	851.17	108.6	102.4	101.7	86.7	75.9	65.6	61.3	58.4	49.5	
CTG Building 1 - Roof	82.9	52.70	Area	0	1047.08	104.5	98.3	97.6	82.6	71.8	61.5	57.2	54.3	45.4	
CTG Building 1 - West Facade	88.1	57.70	Area	3	1100.83	109.7	103.5	102.8	87.8	77.0	66.7	62.4	59.5	50.6	
CTG Building 1 Vent Louvers - East	82.6	70.00	Area	3	18.00	93.3	88.6	89.9	76.9	76.1	72.8	73.5	77.6	68.7	
CTG Building 1 Vent Louvers - North	82.6	70.00	Area	3	18.00	93.3	88.6	89.9	76.9	76.1	72.8	73.5	77.6	68.7	



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Clear River Energy Center - Source List

Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
CTG Building 1 Vent Louvers - West	63.1	50.55	Area	3	18.00	89.3	80.6	77.9	58.9	47.1	35.8	30.5	29.6	23.7	
CTG Building 2 - East Facade	88.1	57.70	Area	3	1100.24	109.7	103.5	102.8	87.8	77.0	66.7	62.4	59.5	50.6	
CTG Building 2 - North Facade	87.0	57.70	Area	3	852.46	108.6	102.4	101.7	86.7	75.9	65.6	61.3	58.4	49.5	
CTG Building 2 - Roof	82.9	52.70	Area	0	1045.75	104.5	98.3	97.6	82.6	71.8	61.5	57.2	54.3	45.4	
CTG Building 2 - West Facade	88.1	57.70	Area	3	1098.21	109.7	103.5	102.8	87.8	77.0	66.7	62.4	59.5	50.6	
CTG Building 2 Vent Louvers - East	82.6	70.00	Area	3	18.00	93.3	88.6	89.9	76.9	76.1	72.8	73.5	77.6	68.7	
CTG Building 2 Vent Louvers - North	82.6	70.00	Area	3	18.00	93.3	88.6	89.9	76.9	76.1	72.8	73.5	77.6	68.7	
CTG Building 2 Vent Louvers - West	82.6	70.00	Area	3	18.00	93.3	88.6	89.9	76.9	76.1	72.8	73.5	77.6	68.7	
Demin Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Duct Burner Skid 1	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9	
Duct Burner Skid 2	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	89.9	88.9	87.9	86.9	82.9	
Emergency Diesel Generator - Side 1	8.2	-7.75	Area	3	38.95	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0	
Emergency Diesel Generator - Side 2	8.2	-7.76	Area	3	39.02	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0	
Emergency Diesel Generator - Top	8.2	-8.56	Area	0	46.93	-25.0	-25.0	-12.0	-1.0	2.0	4.0	3.0	-4.0	-13.0	
Excitation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Excitation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Fire Pump Building - Roof	-4.1	-23.30	Area	0	82.33	10.1	13.1	7.1	1.1	-12.9	-21.9	-28.9	-34.9	-35.9	
Fire Pump Building - Side 1	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5	
Fire Pump Building - Side 2	-8.5	-23.30	Area	3	29.99	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3	
Fire Pump Building - Side 3	-5.7	-23.30	Area	3	57.22	8.5	11.5	5.5	-0.5	-14.5	-23.5	-30.5	-36.5	-37.5	
Fire Pump Building - Side 4	-8.5	-23.30	Area	3	30.11	5.7	8.7	2.7	-3.3	-17.3	-26.3	-33.3	-39.3	-40.3	
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.02	97.9	95.7	83.8	81.7	76.0	77.8	85.5	83.9	103.1	
Fuel Gas Metering and Regulating Station	93.0	93.00	Point	0		-15.6	-15.6	-15.6	72.4	74.4	79.4	89.4	87.4	79.4	
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Gas Aftercooler 1	101.0	84.00	Area	0	50.09	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	
Gas Aftercooler 2	101.0	83.86	Area	0	51.73	99.8	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	
Gas Compressor Bldg Louvers - E	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - N	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - S	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - W	105.7	97.96	Area	3	6.00	102.2	108.7	105.7	104.7	101.7	99.7	97.7	96.7	94.7	
Gas Compressor Building - East Side	99.1	76.70	Area	3	173.15	113.3	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
Gas Compressor Building - North Side	97.5	76.70	Area	3	119.51	111.7	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	



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Clear River Energy Center - Source List

Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Gas Compressor Building - Roof	101.0	76.70	Area	0	269.92	115.3	118.2	112.2	106.3	92.3	83.2	76.2	70.3	69.2	
Gas Compressor Building - South Side	97.5	76.70	Area	3	120.04	111.8	114.7	108.7	102.7	88.7	79.7	72.7	66.7	65.7	
Gas Compressor Building - West Side	99.1	76.70	Area	3	173.41	113.4	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
GSU 1 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 1	94.0	75.71	Area	3	67.39	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 2	94.0	78.04	Area	3	39.49	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 3	94.0	75.71	Area	3	67.51	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 4	94.0	78.02	Area	3	39.63	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Top	94.0	72.94	Area	0	127.76	90.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
HRSG 1 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 1 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 1 - Piping and Valves	98.5	80.00	Line	0	71.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 1 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 1 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 1 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - Body - Side 1	97.0	66.65	Area	3	1092.60	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	
HRSG 2 - Body - Side 2	97.0	66.65	Area	3	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	41.4	



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
HRSG 2 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0	84.0	81.0	85.1	77.0	47.0	
HRSG 2 - Piping and Valves	98.5	80.06	Line	0	70.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0	
HRSG 2 - Stack Walls - Side 1	65.6	44.81	Area	3	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.90	Area	3	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 3	65.6	44.70	Area	3	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 4	65.6	44.55	Area	3	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 5	65.6	44.74	Area	3	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	3	117.59	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 7	65.6	44.78	Area	3	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 8	65.6	44.84	Area	3	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - T1 - Side 1	96.6	81.17	Area	3	35.17	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Side 2	96.6	81.15	Area	3	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 1	96.6	76.25	Area	3	109.34	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 2	96.6	76.25	Area	3	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	41.0	
HRSG Recirc Pump 1	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
HRSG Recirc Pump 2	93.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	84.9	80.9	
Isolation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Isolation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	68.6	63.7	56.6	
Rooftop Vent Fan - Admin 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Admin 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - CTG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	



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Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 5	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - STG Bldg 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Safety Vent	129.0	129.00	Point	0		113.4	120.9	127.0	128.0	118.0	110.8	121.9	123.0	124.0	
Scanner Cooling Air Blower 1	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Scanner Cooling Air Blower 2	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Service Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Steam Turbine Bldg 1 - East Facade	85.4	57.93	Area	3	554.75	108.2	104.6	96.5	89.6	77.6	66.6	59.6	49.6	48.6	
Steam Turbine Bldg 1 - North Facade	83.7	57.93	Area	3	373.57	106.5	102.9	94.8	87.9	75.9	64.9	57.9	47.9	46.9	
Steam Turbine Bldg 1 - Roof	81.8	52.93	Area	0	764.72	104.6	101.0	92.9	86.0	74.0	63.0	56.0	46.0	45.0	
Steam Turbine Bldg 1 - South Facade	88.7	57.93	Area	3	1206.17	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0	
Steam Turbine Bldg 1 - West Facade	85.4	57.93	Area	3	552.09	108.2	104.6	96.5	89.6	77.6	66.6	59.6	49.6	48.6	
Steam Turbine Bldg 2 - East Facade	85.4	57.93	Area	3	553.90	108.2	104.6	96.5	89.6	77.6	66.6	59.6	49.6	48.6	
Steam Turbine Bldg 2 - North Facade	83.7	57.93	Area	3	374.51	106.5	102.9	94.8	87.9	75.9	64.9	57.9	47.9	46.9	
Steam Turbine Bldg 2 - Roof	81.8	52.93	Area	0	764.05	104.6	101.0	92.9	86.0	74.0	63.0	56.0	46.0	45.0	
Steam Turbine Bldg 2 - South Facade 1	88.7	57.93	Area	3	1206.17	111.6	108.0	99.9	93.0	81.0	70.0	63.0	53.0	52.0	
Steam Turbine Bldg 2 - West Facade	85.4	57.93	Area	3	552.09	108.2	104.6	96.5	89.6	77.6	66.6	59.6	49.6	48.6	
STG Building 1 Vent Louvers - East	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 1 Vent Louvers - South 1	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 1 Vent Louvers - South 2	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 1 Vent Louvers - West	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 2 Vent Louvers - East	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 2 Vent Louvers - South 1	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 2 Vent Louvers - South 2	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STG Building 2 Vent Louvers - West	82.3	69.79	Area	3	18.00	94.8	92.7	86.6	81.7	79.7	75.7	73.7	70.7	69.7	
STW Heat Exchanger 1	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2	



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Clear River Energy Center - Source List

Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	Lw'	SrcType	KO-Wall	Size m,m ²	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
STW Heat Exchanger 2	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	95.2	94.2	86.2	
Waste Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0	88.0	87.0	86.0	85.0	81.0	
Water Treatment Building - East Side	78.9	56.70	Area	3	167.69	93.2	96.2	90.2	84.2	70.2	61.2	54.2	48.2	47.2	
Water Treatment Building - North Side	83.3	56.70	Area	3	452.35	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5	
Water Treatment Building - Roof	86.4	56.70	Area	0	939.65	100.7	103.6	97.6	91.7	77.7	68.6	61.6	55.7	54.7	
Water Treatment Building - South Side	83.3	56.70	Area	3	453.24	97.5	100.5	94.5	88.5	74.5	65.5	58.5	52.5	51.5	
Water Treatment Building - West Side	78.9	56.70	Area	3	167.20	93.2	96.1	90.2	84.2	70.2	61.2	54.2	48.2	47.2	
WTB Ventilation Louvers - North Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0	
WTB Ventilation Louvers - South Side	90.0	77.96	Area	3	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0	

Clear River Energy Center - Mean Propagation Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Receiver M1 - Wallum Lake Road													
ACC 1 Bottom	109.0	72.7	0.0	0.0	789.5	-68.9	1.0	-2.9	-3.2	-8.3	0.0	26.7	
ACC 1 Top	109.0	72.7	0.0	0.0	790.0	-68.9	0.4	-5.5	-2.2	-6.8	0.0	25.9	
ACC 2 Bottom	109.0	72.7	0.0	0.0	706.8	-68.0	0.7	-0.8	-2.9	-8.6	0.0	29.5	
ACC 2 Top	109.0	72.7	0.0	0.0	707.4	-68.0	0.3	-5.1	-2.1	-7.2	0.0	27.0	
ACHE 1	99.0	72.9	0.0	0.0	751.3	-68.5	2.2	-7.4	-2.2	0.0	0.0	23.1	
ACHE 2	99.0	72.9	0.0	0.0	645.5	-67.2	1.8	-5.9	-2.2	0.0	0.8	26.2	
Air Process Skid 2	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	-4.1	0.0	0.0	-4.5	
Air Process Skid 2	93.0	93.0	0.0	0.0	660.2	-67.4	3.0	-26.3	-3.0	0.0	0.0	-0.7	
Ammonia Forwarding Pump	93.1	93.1	0.0	0.0	762.2	-68.6	3.1	-7.9	-4.2	0.0	0.1	15.6	
Ammonia Injection Skid 1	98.1	98.1	0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	5.6	
Ammonia Injection Skid 2	98.1	98.1	0.0	0.0	609.9	-66.7	2.5	-5.2	-5.2	0.0	3.4	26.8	
Aux Boiler Building - East Side	-6.6	-30.3	0.0	3.0	675.2	-67.6	1.5	-4.8	-0.4	0.0	0.0	-74.8	
Aux Boiler Building - North Side	-6.0	-30.3	0.0	3.0	686.4	-67.7	1.6	-4.1	-0.5	0.0	0.0	-73.7	
Aux Boiler Building - Roof	-2.6	-30.3	0.0	0.0	688.2	-67.7	0.9	-5.8	-0.5	0.0	0.6	-75.1	
Aux Boiler Building - South Side	-6.0	-30.3	0.0	3.0	690.1	-67.8	1.6	-9.8	-0.3	0.0	0.3	-78.9	
Aux Boiler Building - West Side	-6.5	-30.3	0.0	3.0	701.0	-67.9	1.6	-15.2	-0.3	0.0	3.1	-82.2	
Aux Boiler Building Vent Louvers - North	86.0	75.2	0.0	3.0	681.9	-67.7	1.9	-3.4	-2.6	0.0	0.0	17.3	
Aux Boiler Building Vent Louvers - South	86.0	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	-0.9	0.0	0.3	6.7	
Aux Boiler FD Fan Inlet	0.0	0.0	0.0	0.0	674.3	-67.6	1.5	-5.1	-2.2	0.0	2.5	-71.0	
Aux Boiler Stack Exhaust	100.0	100.0	0.0	0.0	695.0	-67.8	0.7	0.0	-4.3	-8.0	0.0	20.6	
Aux Transformer 1 - Side 1	82.0	69.2	0.0	3.0	717.7	-68.1	2.2	-26.8	-1.8	0.0	3.5	-5.9	
Aux Transformer 1 - Side 2	82.0	70.2	0.0	3.0	713.8	-68.1	2.2	-25.6	-1.4	0.0	1.9	-6.0	
Aux Transformer 1 - Side 3	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	-1.3	0.0	3.2	-4.1	
Aux Transformer 1 - Side 4	82.0	70.2	0.0	3.0	719.9	-68.1	2.2	-26.7	-1.7	0.0	4.4	-4.9	
Aux Transformer 1 - Top	82.0	66.9	0.0	0.0	716.9	-68.1	2.0	-24.8	-1.3	0.0	3.5	-6.7	
Aux Transformer 2 - Side 1	82.0	69.2	0.0	3.0	617.7	-66.8	1.7	-15.8	-1.0	0.0	8.6	11.7	
Aux Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	-9.1	-1.3	0.0	1.0	10.5	
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	-8.4	-1.4	0.0	3.5	13.6	
Aux Transformer 2 - Side 4	82.0	70.2	0.0	3.0	619.7	-66.8	1.8	-17.2	-1.0	0.0	9.3	11.0	
Aux Transformer 2 - Top	82.0	66.9	0.0	0.0	616.7	-66.8	1.3	-6.0	-1.7	0.0	2.9	11.7	
BFW Pump Enclosure 1-Side 1	94.4	76.9	0.0	3.0	758.0	-68.6	1.7	-25.4	-0.7	0.0	0.0	4.4	



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Clear River Energy Center - Mean Propagation Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
BFW Pump Enclosure 1-Side 2	97.2	76.9	0.0	3.0	747.2	-68.5	1.7	-25.2	-0.7	0.0	0.3	7.8	
BFW Pump Enclosure 1-Side 3	94.4	76.9	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0	6.7	
BFW Pump Enclosure 1-Side 4	97.2	76.9	0.0	3.0	762.3	-68.6	1.7	-25.4	-0.7	0.0	0.0	7.2	
BFW Pump Enclosure 1-Top	103.5	76.9	0.0	0.0	754.8	-68.5	1.5	-24.1	-0.6	0.0	0.1	11.7	
BFW Pump Enclosure 2-Side 1	94.4	76.9	0.0	3.0	654.3	-67.3	1.5	-22.7	-0.5	0.0	0.0	8.4	
BFW Pump Enclosure 2-Side 2	97.2	76.9	0.0	3.0	643.1	-67.2	1.5	-22.3	-0.4	0.0	0.8	12.7	
BFW Pump Enclosure 2-Side 3	94.4	76.9	0.0	3.0	646.8	-67.2	1.5	-23.5	-0.5	0.0	9.1	16.9	
BFW Pump Enclosure 2-Side 4	97.2	76.9	0.0	3.0	657.8	-67.4	1.6	-25.3	-0.6	0.0	0.0	8.5	
BFW Pump Enclosure 2-Top	103.4	76.9	0.0	0.0	650.5	-67.3	1.1	-20.3	-0.4	0.0	0.8	17.4	
Condensate Equipment Bldg 1 - East Side	77.7	56.7	0.0	3.0	745.5	-68.4	1.9	-7.0	-0.6	0.0	0.0	6.7	
Condensate Equipment Bldg 1 - North Side	75.2	56.7	0.0	3.0	747.4	-68.5	1.9	-17.5	-0.3	0.0	0.5	-5.7	
Condensate Equipment Bldg 1 - Roof	78.0	51.7	0.0	0.0	752.7	-68.5	1.6	-7.8	-0.6	0.0	0.2	2.8	
Condensate Equipment Bldg 1 - South Side	75.2	56.7	0.0	3.0	758.0	-68.6	1.9	-15.2	-0.4	0.0	0.5	-3.6	
Condensate Equipment Bldg 1 - West Side	77.7	56.7	0.0	3.0	759.8	-68.6	1.9	-18.2	-0.4	0.0	1.1	-3.5	
Condensate Equipment Bldg 2 - East Side	77.7	56.7	0.0	3.0	662.8	-67.4	1.6	-6.0	-0.6	0.0	0.0	8.3	
Condensate Equipment Bldg 2 - North Side	75.2	56.7	0.0	3.0	664.0	-67.4	1.6	-6.1	-0.6	0.0	0.0	5.7	
Condensate Equipment Bldg 2 - Roof	78.0	51.7	0.0	0.0	669.8	-67.5	1.0	-5.6	-0.5	0.0	0.0	5.4	
Condensate Equipment Bldg 2 - South Side	75.2	56.7	0.0	3.0	675.9	-67.6	1.7	-10.2	-0.3	0.0	0.0	1.7	
Condensate Equipment Bldg 2 - West Side	77.7	56.7	0.0	3.0	676.8	-67.6	1.7	-13.0	-0.3	0.0	0.0	1.5	
CTG 1 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	739.2	-68.4	3.2	-6.7	-5.7	0.0	0.0	26.2	
CTG 2 - Turbine Compartment Vent Fan	103.8	103.8	0.0	0.0	637.2	-67.1	2.9	-7.5	-4.5	0.0	0.0	27.6	
CTG Air Inlet 1	106.2	82.9	0.0	0.0	769.2	-68.7	3.2	-26.9	-8.4	0.0	0.1	5.5	
CTG Air Inlet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	0.0	0.2	8.4	
CTG Air Inlet Duct 1 - North	99.9	84.4	0.0	0.0	750.4	-68.5	2.7	-25.3	-2.8	0.0	1.3	7.3	
CTG Air Inlet Duct 1 - South	99.9	84.4	0.0	0.0	752.0	-68.5	2.7	-26.1	-3.3	0.0	1.0	5.7	
CTG Air Inlet Duct 1 - Top	99.9	83.3	0.0	0.0	751.3	-68.5	2.4	-26.6	-3.7	0.0	0.1	3.6	
CTG Air Inlet Duct 2 - North	99.9	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	1.0	10.3	
CTG Air Inlet Duct 2 - South	99.9	84.3	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	7.1	
CTG Air Inlet Duct 2 - Top	99.9	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	-3.6	0.0	0.9	5.3	
CTG Building 1 - East Facade	88.1	57.7	0.0	3.0	718.8	-68.1	0.8	-5.0	-0.3	0.0	0.0	18.4	
CTG Building 1 - North Facade	87.0	57.7	0.0	3.0	727.6	-68.2	0.8	-6.7	-0.3	0.0	0.0	15.6	
CTG Building 1 - Roof	82.9	52.7	0.0	0.0	733.1	-68.3	-0.1	-4.7	-0.4	0.0	0.2	9.6	



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Clear River Energy Center - Mean Propagation Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
CTG Building 1 - West Facade	88.1	57.7	0.0	3.0	746.3	-68.5	0.8	-17.6	-0.3	0.0	0.0	5.6
CTG Building 1 Vent Louvers - East	82.6	70.0	0.0	3.0	719.5	-68.1	1.8	-6.6	-2.6	0.0	0.0	10.0
CTG Building 1 Vent Louvers - North	82.6	70.0	0.0	3.0	719.5	-68.1	1.8	-14.1	-1.1	0.0	0.2	4.2
CTG Building 1 Vent Louvers - West	63.1	50.6	0.0	3.0	742.9	-68.4	1.3	-17.2	-0.2	0.0	0.0	-18.4
CTG Building 2 - East Facade	88.1	57.7	0.0	3.0	616.4	-66.8	0.5	-1.3	-0.3	0.0	0.0	23.2
CTG Building 2 - North Facade	87.0	57.7	0.0	3.0	624.3	-66.9	0.6	-1.9	-0.3	0.0	0.0	21.5
CTG Building 2 - Roof	82.9	52.7	0.0	0.0	630.5	-67.0	0.0	-4.6	-0.3	0.0	0.0	10.9
CTG Building 2 - West Facade	88.1	57.7	0.0	3.0	643.6	-67.2	0.5	-14.5	-0.2	0.0	0.0	9.7
CTG Building 2 Vent Louvers - East	82.6	70.0	0.0	3.0	617.4	-66.8	1.5	-0.1	-5.4	0.0	0.0	14.8
CTG Building 2 Vent Louvers - North	82.6	70.0	0.0	3.0	616.4	-66.8	1.5	-0.1	-5.4	0.0	1.4	16.2
CTG Building 2 Vent Louvers - West	82.6	70.0	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	-2.1
Demin Water Pump	93.1	93.1	0.0	0.0	675.5	-67.6	3.1	-24.9	-2.0	0.0	0.5	2.2
Duct Burner Skid 1	95.0	95.0	0.0	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	2.8	5.4
Duct Burner Skid 2	95.0	95.0	0.0	0.0	613.7	-66.8	2.5	-3.6	-3.8	0.0	1.8	25.2
Emergency Diesel Generator - Side 1	8.2	-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	-3.9	0.0	2.1	-83.3
Emergency Diesel Generator - Side 2	8.2	-7.8	0.0	3.0	680.2	-67.6	3.3	-28.2	-3.8	0.0	1.2	-83.9
Emergency Diesel Generator - Top	8.2	-8.6	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	-84.8
Excitation Transformer 1	80.0	80.0	0.0	0.0	718.7	-68.1	2.2	-24.5	-1.3	0.0	2.8	-8.9
Excitation Transformer 2	80.0	80.0	0.0	0.0	617.1	-66.8	1.6	-5.3	-2.2	0.0	2.4	9.6
Fire Pump Building - Roof	-4.1	-23.3	0.0	0.0	630.7	-67.0	1.2	-5.5	-0.5	0.0	0.0	-76.0
Fire Pump Building - Side 1	-5.7	-23.3	0.0	3.0	633.9	-67.0	1.8	-11.8	-0.3	0.0	0.0	-80.1
Fire Pump Building - Side 2	-8.5	-23.3	0.0	3.0	631.3	-67.0	1.8	-6.6	-0.4	0.0	0.0	-77.7
Fire Pump Building - Side 3	-5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-6.4	-0.5	0.0	0.0	-74.9
Fire Pump Building - Side 4	-8.5	-23.3	0.0	3.0	630.0	-67.0	1.8	-6.4	-0.5	0.0	0.0	-77.7
Fuel Gas Dewpoint Heater	102.2	85.3	0.0	0.0	795.5	-69.0	3.9	-28.8	-15.5	0.0	0.0	-7.2
Fuel Gas Metering and Regulating Station	93.0	93.0	0.0	0.0	798.2	-69.0	3.9	-28.7	-8.8	0.0	0.0	-9.7
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	645.0	-67.2	3.0	-26.6	-3.1	0.0	0.0	-1.0
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	748.2	-68.5	3.2	-28.0	-4.1	0.0	0.0	-4.4
Gas Aftercooler 1	101.0	84.0	0.0	0.0	806.0	-69.1	3.2	-27.6	-3.9	0.0	0.0	3.6
Gas Aftercooler 2	101.0	83.9	0.0	0.0	809.0	-69.2	3.2	-27.7	-4.0	0.0	0.0	3.4
Gas Compressor Bldg Louvers - E	105.7	98.0	0.0	3.0	784.3	-68.9	2.9	-27.1	-3.1	0.0	0.0	12.6
Gas Compressor Bldg Louvers - N	105.7	98.0	0.0	3.0	790.8	-69.0	2.9	-27.3	-3.3	0.0	0.0	12.0



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
Gas Compressor Bldg Louvers - S	105.7	98.0	0.0	3.0	791.0	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.6	
Gas Compressor Bldg Louvers - W	105.7	98.0	0.0	3.0	797.4	-69.0	2.9	-27.6	-3.6	0.0	0.0	11.5	
Gas Compressor Building - East Side	99.1	76.7	0.0	3.0	784.1	-68.9	1.7	-16.1	-0.3	0.0	0.0	18.5	
Gas Compressor Building - North Side	97.5	76.7	0.0	3.0	788.5	-68.9	1.7	-16.6	-0.3	0.0	0.0	16.4	
Gas Compressor Building - Roof	101.0	76.7	0.0	0.0	791.0	-69.0	1.2	-17.7	-0.4	0.0	0.0	15.1	
Gas Compressor Building - South Side	97.5	76.7	0.0	3.0	793.2	-69.0	1.7	-19.5	-0.3	0.0	0.0	13.4	
Gas Compressor Building - West Side	99.1	76.7	0.0	3.0	797.6	-69.0	1.7	-21.3	-0.4	0.0	0.0	13.1	
GSU 1 - Side 1	94.0	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	1.4	4.2	
GSU 1 - Side 2	94.0	78.0	0.0	3.0	714.6	-68.1	2.1	-25.1	-1.5	0.0	0.2	4.6	
GSU 1 - Side 3	94.0	75.7	0.0	3.0	720.1	-68.1	2.1	-26.3	-1.6	0.0	1.4	4.5	
GSU 1 - Side 4	94.0	78.0	0.0	3.0	728.5	-68.2	2.1	-26.5	-1.8	0.0	2.5	5.2	
GSU 1 - Top	94.0	72.9	0.0	0.0	721.4	-68.2	1.8	-23.9	-1.3	0.0	1.9	4.3	
GSU 2 - Side 1	94.0	75.7	0.0	3.0	623.4	-66.9	1.6	-13.1	-1.2	0.0	0.3	17.7	
GSU 2 - Side 2	94.0	78.0	0.0	3.0	615.0	-66.8	1.2	-1.9	-2.6	0.0	0.0	27.0	
GSU 2 - Side 3	94.0	75.7	0.0	3.0	620.1	-66.8	1.6	-6.8	-2.1	0.0	0.5	23.3	
GSU 2 - Side 4	94.0	78.0	0.0	3.0	628.6	-67.0	1.7	-18.3	-1.0	0.0	2.0	14.4	
GSU 2 - Top	94.0	72.9	0.0	0.0	621.5	-66.9	1.1	-6.3	-1.7	0.0	1.7	22.0	
HRSG 1 - Body - Side 1	97.0	66.6	0.0	3.0	730.9	-68.3	0.7	-16.6	-0.4	0.0	0.0	15.5	
HRSG 1 - Body - Side 2	97.0	66.6	0.0	3.0	720.4	-68.1	0.7	-4.2	-0.7	0.0	0.0	27.8	
HRSG 1 - Exhaust Stack	102.4	102.4	0.0	0.0	724.6	-68.2	2.0	0.0	-0.4	-3.6	0.0	32.3	
HRSG 1 - Piping and Valves	98.5	80.0	0.0	0.0	744.6	-68.4	0.5	-17.1	-0.5	0.0	0.2	13.1	
HRSG 1 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	721.3	-68.2	2.0	-0.8	-0.1	0.0	0.0	1.5	
HRSG 1 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	719.5	-68.1	2.0	-1.5	-0.2	0.0	0.0	0.8	
HRSG 1 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	-0.2	0.0	0.0	-1.2	
HRSG 1 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	720.4	-68.1	2.0	-3.7	-0.2	0.0	0.0	-1.5	
HRSG 1 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	722.6	-68.2	2.0	-4.4	-0.2	0.0	0.0	-2.2	
HRSG 1 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	-6.2	-0.1	0.0	0.0	-3.9	
HRSG 1 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	724.7	-68.2	2.0	-6.9	-0.1	0.0	0.0	-4.7	
HRSG 1 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	-8.4	-0.2	0.0	0.0	-6.2	
HRSG 1 - T1 - Side 1	96.6	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	-0.4	0.0	0.5	15.1	
HRSG 1 - T1 - Side 2	96.6	81.2	0.0	3.0	727.2	-68.2	1.6	-11.1	-0.4	0.0	1.0	22.6	
HRSG 1 - T1 - Top	96.6	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	0.0	2.1	18.0	



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Clear River Energy Center - Mean Propagation Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
HRSG 1 - T2 - Side 1	96.6	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	-0.4	0.0	0.1	14.5	
HRSG 1 - T2 - Side 2	96.6	76.2	0.0	3.0	725.7	-68.2	1.0	-8.3	-0.4	0.0	0.0	23.8	
HRSG 1 - T2 - Top	96.6	80.4	0.0	0.0	730.5	-68.3	-0.1	-7.5	-0.5	0.0	0.3	20.6	
HRSG 2 - Body - Side 1	97.0	66.6	0.0	3.0	626.6	-66.9	0.4	-15.8	-0.3	0.0	0.0	17.5	
HRSG 2 - Body - Side 2	97.0	66.6	0.0	3.0	616.2	-66.8	0.5	-1.3	-0.7	0.0	0.0	31.8	
HRSG 2 - Exhaust Stack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0.0	-0.3	-3.6	0.0	33.4	
HRSG 2 - Piping and Valves	98.5	80.1	0.0	0.0	640.8	-67.1	0.2	-13.2	-0.5	0.0	2.7	20.6	
HRSG 2 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	616.7	-66.8	1.9	-0.8	-0.1	0.0	0.0	2.7	
HRSG 2 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	614.9	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.3	
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 4	65.6	44.6	0.0	3.0	615.5	-66.8	1.9	-1.3	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	617.8	-66.8	1.9	-4.4	-0.1	0.0	0.0	-0.9	
HRSG 2 - Stack Walls - Side 6	65.6	44.9	0.0	3.0	619.6	-66.8	1.9	-6.1	-0.1	0.0	0.0	-2.6	
HRSG 2 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	620.0	-66.8	1.9	-7.0	-0.1	0.0	0.0	-3.5	
HRSG 2 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	618.9	-66.8	1.9	-7.8	-0.1	0.0	0.0	-4.3	
HRSG 2 - T1 - Side 1	96.6	81.2	0.0	3.0	631.2	-67.0	1.0	-10.7	-0.2	0.0	0.5	23.2	
HRSG 2 - T1 - Side 2	96.6	81.2	0.0	3.0	624.0	-66.9	1.2	-3.9	-0.9	0.0	2.0	31.2	
HRSG 2 - T1 - Top	96.6	82.8	0.0	0.0	627.9	-66.9	0.7	-5.4	-0.4	0.0	2.4	27.0	
HRSG 2 - T2 - Side 1	96.6	76.2	0.0	3.0	631.1	-67.0	0.6	-12.3	-0.3	0.0	0.1	20.8	
HRSG 2 - T2 - Side 2	96.6	76.2	0.0	3.0	622.3	-66.9	0.7	-1.8	-0.7	0.0	0.7	31.6	
HRSG 2 - T2 - Top	96.6	80.4	0.0	0.0	627.4	-66.9	0.0	-6.0	-0.6	0.0	0.7	23.7	
HRSG Recirc Pump 1	93.0	93.0	0.0	0.0	711.2	-68.0	3.1	-26.3	-2.6	0.0	8.1	7.3	
HRSG Recirc Pump 2	93.0	93.0	0.0	0.0	606.4	-66.6	2.8	-7.3	-3.6	0.0	2.2	20.6	
Isolation Transformer 1	80.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	-1.3	0.0	8.5	-3.9	
Isolation Transformer 2	80.0	80.0	0.0	0.0	601.3	-66.6	1.2	-2.9	-2.8	0.0	2.4	11.4	
Rooftop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	-4.4	-4.9	0.0	0.0	15.2	
Rooftop Vent Fan - Admin 2	87.8	87.8	0.0	0.0	612.2	-66.7	2.8	-7.5	-2.7	0.0	0.0	13.7	
Rooftop Vent Fan - Admin 3	87.8	87.8	0.0	0.0	589.4	-66.4	2.8	-7.5	-2.7	0.0	0.0	13.9	
Rooftop Vent Fan - Admin 4	87.8	87.8	0.0	0.0	614.6	-66.8	2.8	-7.6	-2.8	0.0	1.4	14.9	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	-2.0	-5.1	0.0	0.0	16.0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	753.2	-68.5	3.0	-6.0	-2.7	0.0	0.0	13.6	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.8	0.0	0.0	735.3	-68.3	3.0	-6.8	-2.7	0.0	0.0	12.9	



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)
Rooftop Vent Fan - CTG Bldg 2	87.8	87.8	0.0	0.0	724.3	-68.2	2.9	-6.5	-2.7	0.0	0.0	13.3
Rooftop Vent Fan - CTG Bldg 3	87.8	87.8	0.0	0.0	728.3	-68.2	2.9	-3.1	-3.4	0.0	0.0	16.0
Rooftop Vent Fan - CTG Bldg 4	87.8	87.8	0.0	0.0	632.6	-67.0	2.7	-7.4	-2.9	0.0	0.0	13.2
Rooftop Vent Fan - CTG Bldg 5	87.8	87.8	0.0	0.0	627.4	-66.9	2.7	-0.7	-4.0	0.0	0.0	18.8
Rooftop Vent Fan - CTG Bldg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	-0.8	-4.0	0.0	0.0	18.8
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.8	0.0	0.0	790.3	-68.9	3.1	-17.9	-1.3	0.0	0.0	2.7
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	3.1	-18.6	-1.5	0.0	0.0	1.9
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	3.1	-18.3	-1.5	0.0	0.0	2.2
Rooftop Vent Fan - STG Bldg 1	87.8	87.8	0.0	0.0	658.3	-67.4	2.8	-7.5	-2.9	0.0	0.0	12.8
Rooftop Vent Fan - STG Bldg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	-4.1	0.0	0.0	18.7
Rooftop Vent Fan - STG Bldg 3	87.8	87.8	0.0	0.0	645.9	-67.2	2.7	-7.5	-2.9	0.0	0.0	12.9
Rooftop Vent Fan - STG Bldg 4	87.8	87.8	0.0	0.0	735.2	-68.3	2.9	-7.2	-2.9	0.0	0.0	12.3
Rooftop Vent Fan - STG Bldg 5	87.8	87.8	0.0	0.0	758.9	-68.6	3.0	-7.8	-3.1	0.0	0.0	11.3
Rooftop Vent Fan - STG Bldg 6	87.8	87.8	0.0	0.0	746.0	-68.4	3.0	-7.1	-2.8	0.0	0.0	12.3
Rooftop Vent Fan - Water Treatment Bldg1	87.8	87.8	0.0	0.0	700.5	-67.9	3.0	-7.7	-3.0	0.0	0.0	12.1
Rooftop Vent Fan - Water Treatment Bldg2	87.8	87.8	0.0	0.0	680.5	-67.6	3.0	-7.1	-2.7	0.0	0.0	13.3
Safety Vent	129.0	129.0	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	48.1
Scanner Cooling Air Blower 1	93.1	93.1	0.0	0.0	728.1	-68.2	3.2	-5.0	-3.8	0.0	0.0	19.2
Scanner Cooling Air Blower 2	93.1	93.1	0.0	0.0	624.3	-66.9	2.9	-0.1	-4.5	0.0	0.0	24.5
Service Water Pump	93.1	93.1	0.0	0.0	662.7	-67.4	3.0	-26.9	-2.9	0.0	0.3	-0.7
Steam Turbine Bldg 1 - East Facade	85.4	57.9	0.0	3.0	726.9	-68.2	1.2	-7.6	-0.3	0.0	0.0	13.5
Steam Turbine Bldg 1 - North Facade	83.7	57.9	0.0	3.0	757.1	-68.6	1.2	-14.8	-0.3	0.0	0.0	4.2
Steam Turbine Bldg 1 - Roof	81.8	52.9	0.0	0.0	746.8	-68.5	0.2	-6.2	-0.5	0.0	0.2	7.1
Steam Turbine Bldg 1 - South Facade	88.7	57.9	0.0	3.0	749.0	-68.5	1.2	-15.0	-0.2	0.0	0.0	9.3
Steam Turbine Bldg 1 - West Facade	85.4	57.9	0.0	3.0	765.7	-68.7	1.2	-18.3	-0.3	0.0	0.0	2.4
Steam Turbine Bldg 2 - East Facade	85.4	57.9	0.0	3.0	626.1	-66.9	0.9	-1.0	-0.4	0.0	0.0	21.0
Steam Turbine Bldg 2 - North Facade	83.7	57.9	0.0	3.0	655.2	-67.3	1.0	-10.1	-0.2	0.0	0.0	10.0
Steam Turbine Bldg 2 - Roof	81.8	52.9	0.0	0.0	645.7	-67.2	0.2	-4.9	-0.5	0.0	0.0	9.4
Steam Turbine Bldg 2 - South Facade 1	88.7	57.9	0.0	3.0	648.0	-67.2	0.9	-9.3	-0.2	0.0	0.1	16.0
Steam Turbine Bldg 2 - West Facade	85.4	57.9	0.0	3.0	664.1	-67.4	1.0	-16.7	-0.2	0.0	0.0	5.0
STG Building 1 Vent Louvers - East	82.3	69.8	0.0	3.0	726.6	-68.2	1.4	-14.1	-1.0	0.0	0.0	3.4
STG Building 1 Vent Louvers - South 1	82.3	69.8	0.0	3.0	758.9	-68.6	1.5	-21.6	-1.4	0.0	0.0	-4.8



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Source	PWL dB(A)	PWL/unit dB(A)	Tone dB	Non-Sphere dB	Distance m	Spreading dB	Ground Effect dB	Ins. Loss dB	Air dB	Directivity dB	Reflection dB	SPL dB(A)	
STG Building 1 Vent Louvers - South 2	82.3	69.8	0.0	3.0	737.1	-68.3	1.4	-20.4	-1.3	0.0	0.0	-3.3	
STG Building 1 Vent Louvers - West	82.3	69.8	0.0	3.0	765.8	-68.7	1.5	-24.0	-1.8	0.0	0.7	-7.0	
STG Building 2 Vent Louvers - East	82.3	69.8	0.0	3.0	625.6	-66.9	1.0	0.0	-3.0	0.0	0.0	16.5	
STG Building 2 Vent Louvers - South 1	82.3	69.8	0.0	3.0	657.9	-67.4	1.1	-17.2	-1.1	0.0	0.0	0.8	
STG Building 2 Vent Louvers - South 2	82.3	69.8	0.0	3.0	636.5	-67.1	1.1	-13.2	-1.2	0.0	0.0	5.0	
STG Building 2 Vent Louvers - West	82.3	69.8	0.0	3.0	664.2	-67.4	1.2	-23.4	-1.5	0.0	0.0	-5.9	
STW Heat Exchanger 1	102.0	90.9	0.0	0.0	747.9	-68.5	3.1	-28.0	-4.2	0.0	0.0	4.5	
STW Heat Exchanger 2	102.0	90.9	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	8.5	
Waste Water Pump	93.1	93.1	0.0	0.0	669.7	-67.5	3.1	-25.8	-2.3	0.0	0.0	0.5	
Water Treatment Building - East Side	78.9	56.7	0.0	3.0	660.8	-67.4	1.5	-6.1	-0.5	0.0	0.0	9.5	
Water Treatment Building - North Side	83.3	56.7	0.0	3.0	684.3	-67.7	1.5	-4.5	-0.5	0.0	0.0	15.1	
Water Treatment Building - Roof	86.4	56.7	0.0	0.0	685.7	-67.7	0.9	-5.6	-0.6	0.0	0.0	13.5	
Water Treatment Building - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	1.5	-14.9	-0.3	0.0	0.0	4.8	
Water Treatment Building - West Side	78.9	56.7	0.0	3.0	711.6	-68.0	1.6	-15.1	-0.3	0.0	0.0	0.0	
WTB Ventilation Louvers - North Side	90.0	78.0	0.0	3.0	679.3	-67.6	2.6	-5.2	-3.1	0.0	0.0	19.6	
WTB Ventilation Louvers - South Side	90.0	78.0	0.0	3.0	693.0	-67.8	2.6	-22.9	-2.1	0.0	0.0	2.9	

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