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March 31, 2016

Via Hand Delivery/Electronic Mail

Todd Anthony Bianco, EFSB Coordinator RI Energy Facilities Siting Board 89 Jefferson Blvd. Warwick, RI 02888

Re: Invenergy Thermal Development LLC's Application to Construct The Clear River

Energy Center In Burrillville, Rhode Island

Docket No.: SB-2015-06

Dear Mr. Bianco:

On behalf of Invenergy Thermal Development LLC and the Clean River Energy Center Project, I enclose an original and (10) copies for filing with the Board the following in the above docket:

1. Invenergy Thermal Development LLC's Responses to the Town of Burrillville's First Set of Data Requests.

Please let me know if you have any questions.

Very truly yours,

ALAN M. SHÖER ashoer@apslaw.com

Enclosures

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS ENERGY FACILITY SITING BOARD

IN RE: Application of Docket No.: SB – 2015-06

Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.1: Please explain in detail whether the proposed facility will fully

comply with the Town's noise ordinance.

RESPONSE:

As explained in Section 6.9 of our Energy Facility Siting Board Application, noise produced during normal operation of the CREC facility will comply with the A weighted limits in the Town of Burrillville noise Code of Ordinances. CREC must also conform to levels approved by the Rhode Island Energy Facilities Siting Board, ("EFSB"). The Project performed an evaluation of the Town of Burrillville's Code of Ordinances, as it relates to the noise performance standard in an effort to arrive at a noise level design goal that was both respectful of the Code's intent to protect the community from excessive noise, yet commercially feasible to achieve and consistent with previous EFSB approvals. The Town of Burrillville noise Code of Ordinances, which generally limits both broadband (A-weighted) to an equivalent level of 43 dBA and specific octave-band Facility noise levels at nearby residences, (see Table 1 below). The Town of Burrillville's Code, however, also states that is not applicable in instances where "[t]he 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". The CREC Project proposes to comply with the same stringent noise limit imposed by the EFSB on Burrillville's Ocean State Power Project (and other EFSB approved projects), namely the broadband A – weighted limit of 43 dBA at the closest residence.

The Burrillville noise limits, specifically in the low-frequency octave-bands (31.5 Hz, 63 Hz, and 125 Hz), are among the most stringent that we have seen in the United States. Compared to octave band noise limits used in other US jurisdictions (see Table 1), the Burrillville Ordinance is significantly more restrictive. This is particularly relevant since low-frequency emissions are generally more difficult to mitigate than are high-frequency noise emissions. Invenergy Thermal Development, LLC ("Invenergy") examined the design approaches needed to comply with the Town's octave band ordinance. Achieving the broadband portion of the code (43 dBA) is feasible for normal operation modes, by using extensive controls as shown on Table 9, including placing the combustion turbines within buildings. Achieving the octave band limits was not feasible for all octave bands during normal or transient operating modes. Attaining the unusually restrictive octave-band limits was found to require extraordinary mitigation measures that were determined to be technically infeasible. Invenergy performed an evaluation of the noise produced during transient operating modes and the type of controls that would be needed to meet the broad band requirements. The Transient Noise Level Evaluation Report is included as **Exhibit A**. For normal operations, the expected octave band noise is shown on Table 1, which shows the Clear River Energy Center ("CREC" or the "Project") expected octave band and A weighted noise levels.

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS ENERGY FACILITY SITING BOARD

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

Table 1: Octav	e-Band	Noise	e Level	Limits	by O	ther Re	gulatii	ng Bod	ies (dB)
	Octave-Band Center Frequency (Hz)						Α-			
Frequency	31.5	63	125	250	500	1000	2000	4000	8000	Weight
Appleton, WI ¹	74	73	68	63	57	51	46	42	39	60
Fairfax County, VA ²	70	69	64	59	53	47	42	38	35	55
Illinois State ³	69	67	62	54	47	41	36	32	32	51
New Jersey State ⁴	86	71	61	53	48	45	42	40	38	50
Portland, OR⁵	68	65	61	55	52	49	46	43	40	55
Seminole County, FL ⁶	68	67	66	59	52	46	37	26	17	55
CREC	60.1	61.8	54.4	43.7	37.6	35.1	27.7	12.7	0	43
Burrillville, RI	53	52	48	44	40	37	33	29	28	43

^{1 -} Appleton Municipal Code, Chapter 12, Article IV; 2001. Limit for industrial emitter onto residential zone between 10 p.m. and 7 a.m.

^{2 -} Fairfax County Code, Chapter 108, Article 4; 1976. Limit for any noise source at residential receiver.

^{3 -} Illinois Administrative Code, Title 35, Part 901; 2007. Limit for industrial (Class C) emitter to residential (Class A) receiver between 10 p.m. and 7 a.m.

^{4 -} New Jersey Administrative Code, Title 7, Chapter 29; 2012. Limit for industrial emitter to residential receiver between 10 p.m. and 7 a.m.

^{5 -} Portland City Code, Title 18; 2010. Limit for continuous industrial emitter to residential receiver between 10 p.m. and 7 a.m. Octave bands are enforced at the discretion of the Noise Control Officer.

^{6 -} Seminole County Land Development Code, Chapter 30, Part 68; 2014. Limit at industrial property lines abutting residential districts.

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS ENERGY FACILITY SITING BOARD

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Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

As shown on Table 1, which is a summary of the data included in Appendix E, the CREC expected octave band limits are below the limits stated in the Town Code for all but three of the levels corresponding to the lower octave bands. The octave band noise limits listed for other US jurisdictions (*Table 1*), where found based on a search of similar ordinances that included octave band limits. The list is not presented as a complete list but rather as a representative list of ordinances that have such stipulations. The noise expected for transient modes of operation are discussed in the response to question 1.5.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael

Theriault Acoustics, Inc. and John Niland, Director,

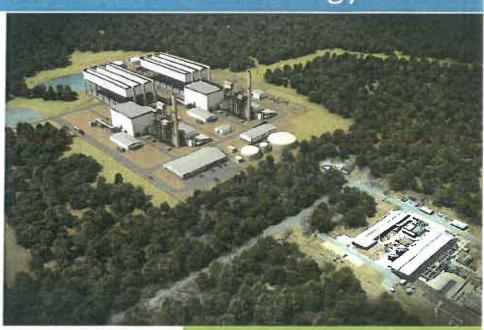
Business Development, Invenergy

DATE: March 31, 2016

EXHIBIT A

2016

Transient Operation Noise Level Evaluation for the Clear River Energy Center



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401 Cumberland Avenue

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Report No. 1956

March 2016

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N1 Transient Operation Noise Level Modeling Calculations and Results

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
EEI 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

LAEQ Equivalent Energy Level, A-Weighted

Lp Sound Pressure Level Lw 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 Burriville 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 Burriville 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 Burriville 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, Invenergy 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 Burriliville 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. 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).

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 \pm 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

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.

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	
HRSG 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	
HRSG 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	

Table 4: Component Noise Levels as Modeled During	Emergency St	eam 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.

Location	Direction from Site/Description	CREC Noise
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	

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.

Location	Direction from Site/Description	CREC Noise Level*
М1	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

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:		
Location	Direction from Site/Description	CREC Noise
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} , rounde	ed 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.

Transient Operation Noise Level Evaluation for the Clear River Energy Center

	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

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 lownoise valves and steam discharge stack resistors (disk stack); silencers on startup vents, blowdown and drains tank vents; and silencers on safety release vents.

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.

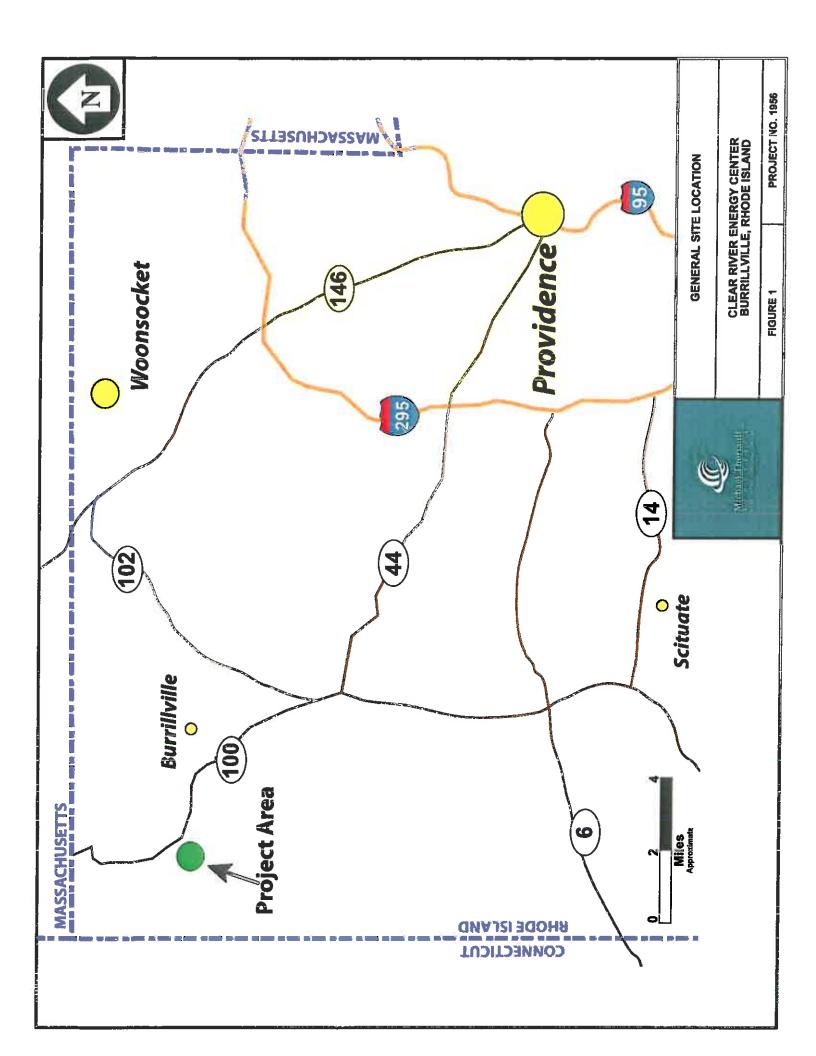
EEI - Edison Electric Institute, 1978, Electric Power Plant Environmental Noise Guide.

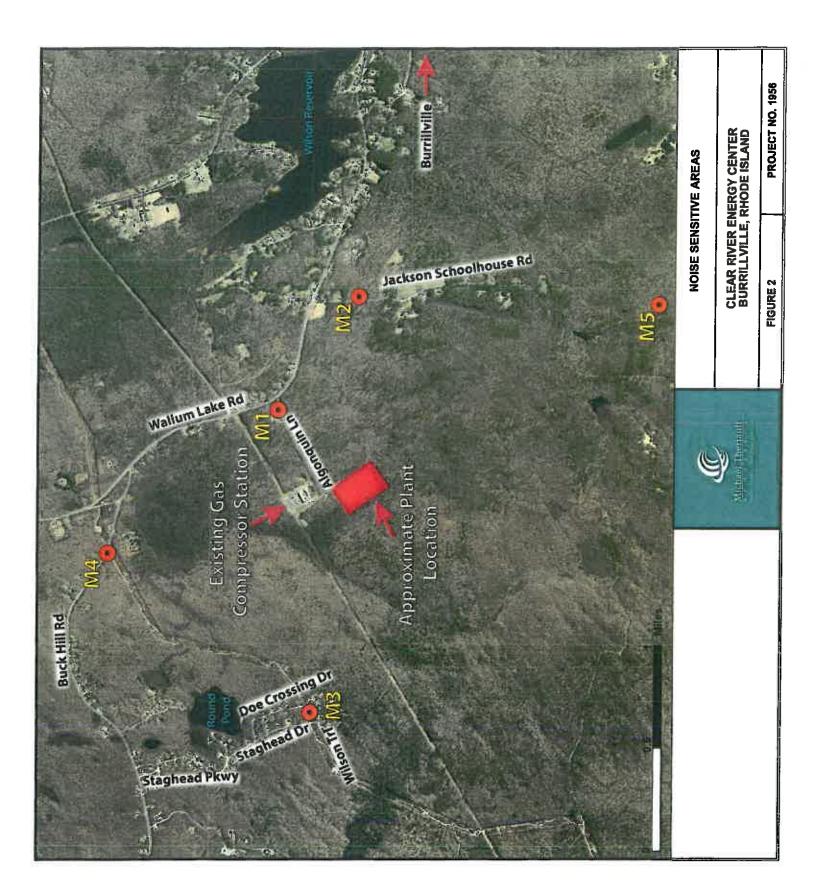
Hoover and Keith Report No. 2976, H&K Job No. 4664, February 2014.

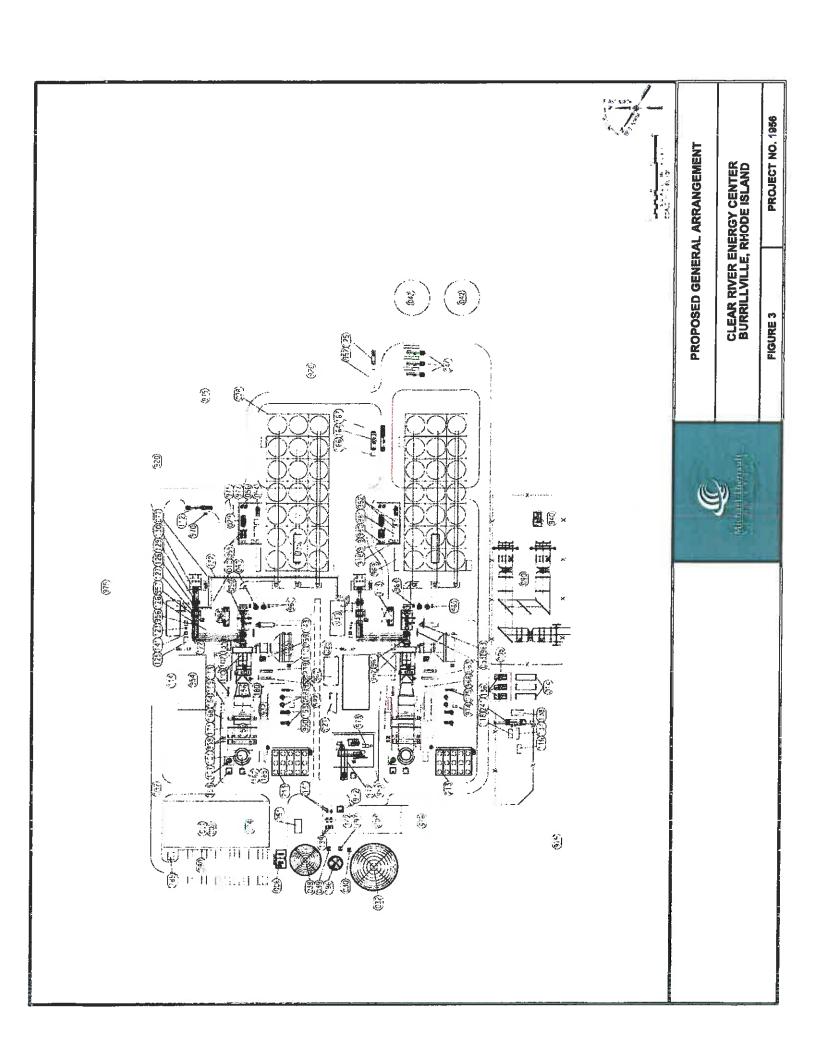
Noise Level Evaluation for the Clear River Energy Center, MTA, October 2015 (Report No. 1955).

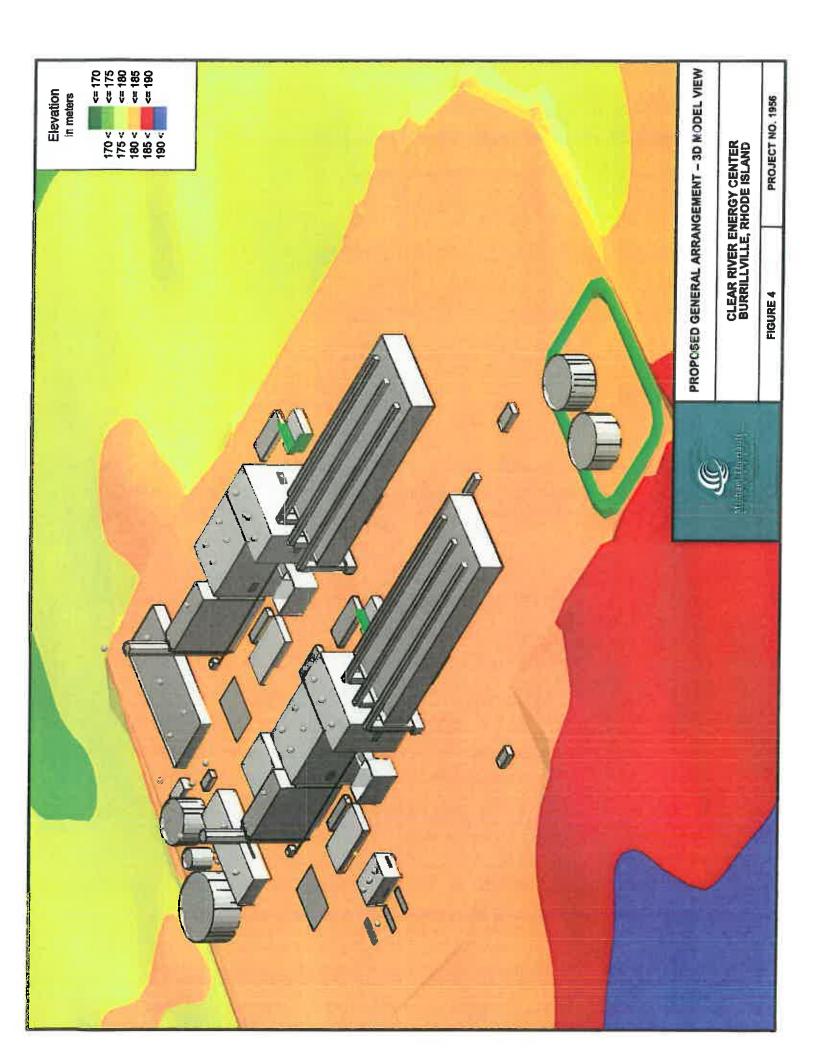
SoundPLAN® – Braunstein + Berndt GmbH, Acoustical Modeling Software, Version 7.4, (1986-2016).

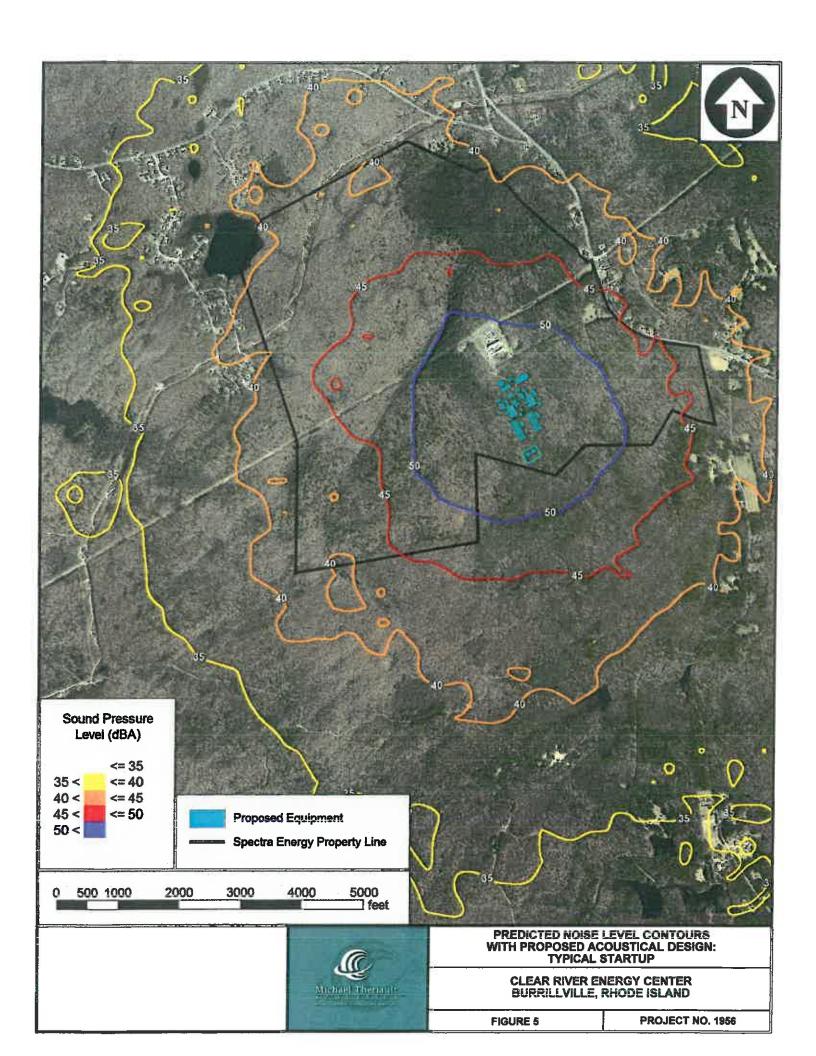
WHO - World Health Organization (WHO) 1999. Guidelines for Community Noise. World Health Organization, Geneva, Switzerland.

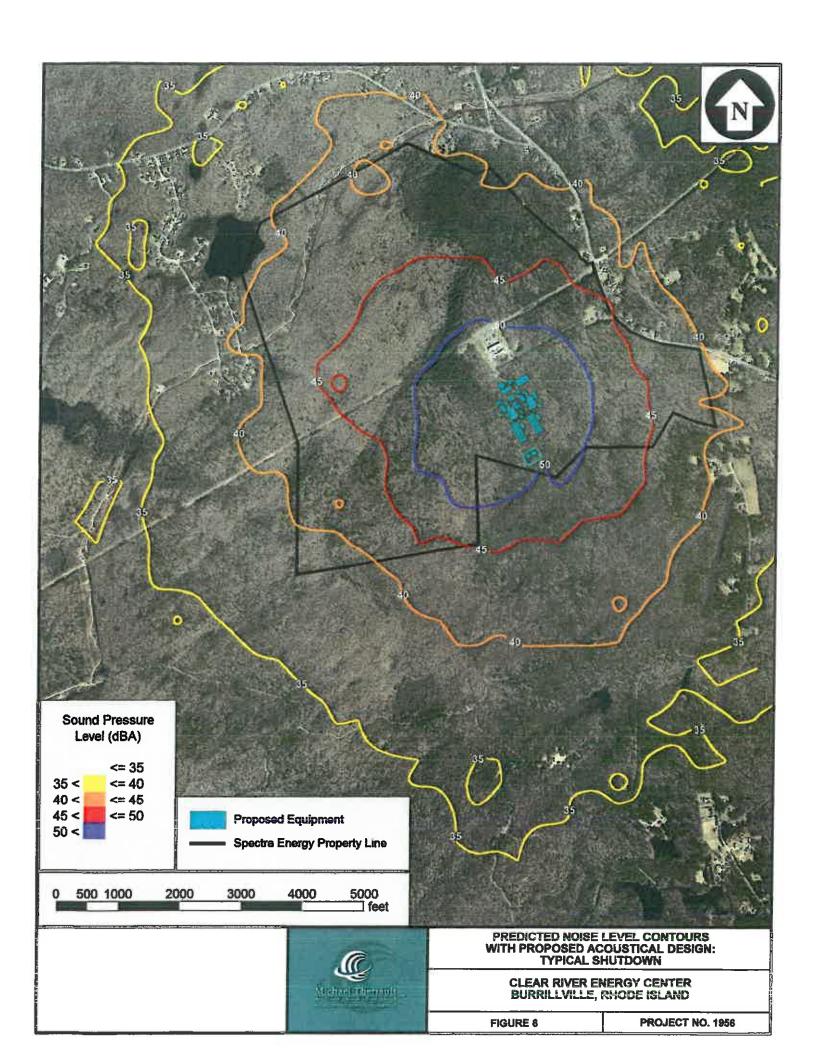


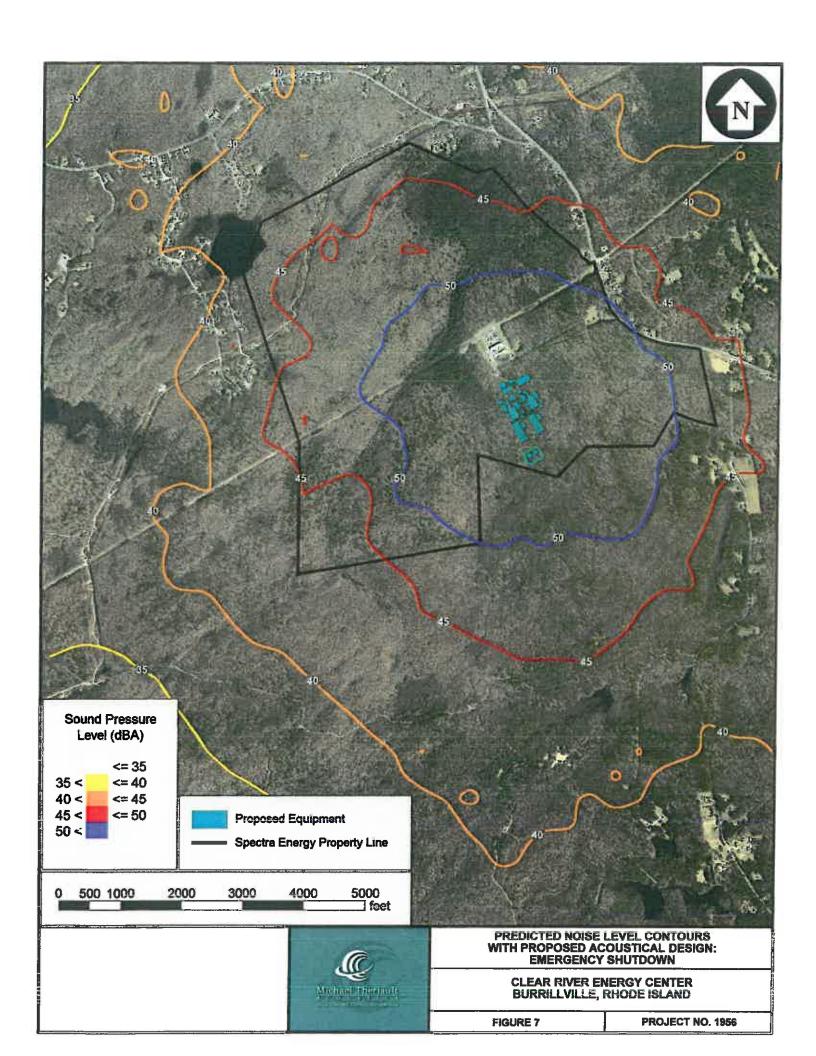


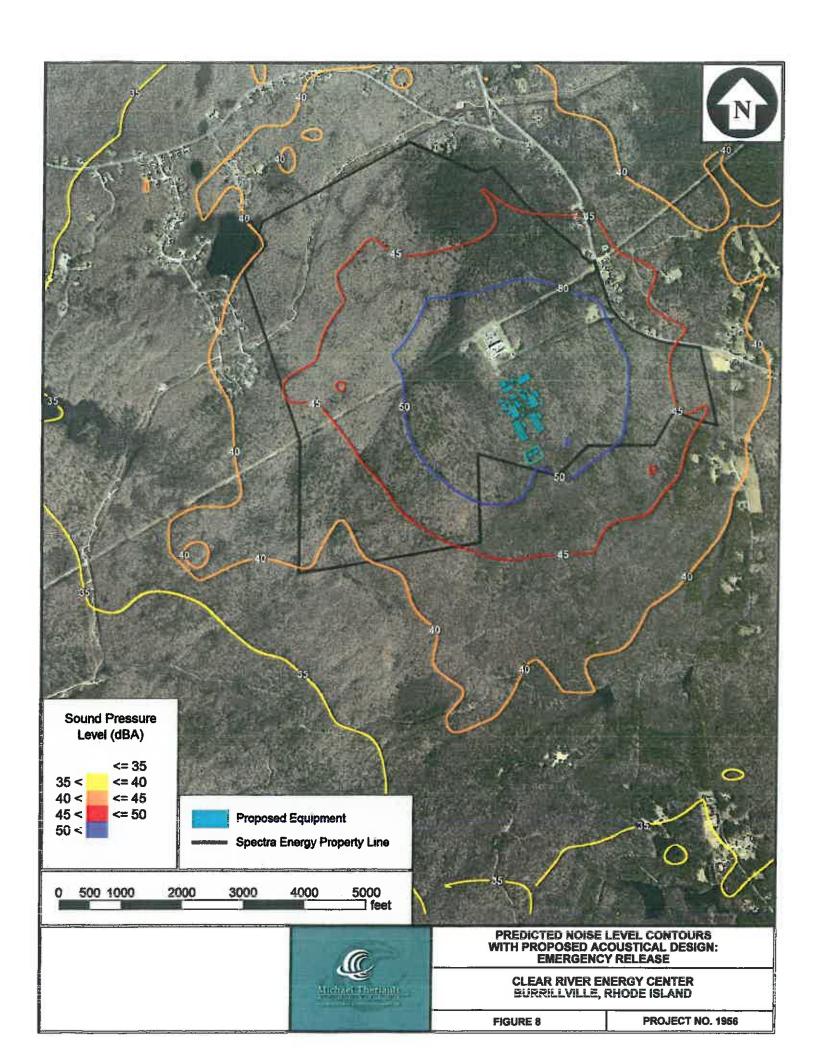












Appendix

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

amb	ds	
THE WAS INCOME.	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

	-	8					T.			
8kHz		-37.8						L		
4kHz		17.5		8.6		9.9		-12.5		-29.8
2kHz		33.1		28.4		24.4		23.7		14.2
1kHz		36.0		94.9		31.0		32.4		24.2
500Hz		40.0		42.8		36.6		36.7		33.4
250Hz		47.8	oad (East)	48.9		44.8		44.7	oad (South)	41.6
125Hz	te Road	56.3	shoothouse Ro	55.9	ing Drive	51.7		51.9	Hoofhouse Rc	48.7
63Hz	- Wallum Lak	63.3	- Jackson Sc	63.8	- Doe Crossi	59.1	- Buck Hill R	60.3	- Jackson Sc	57.1
31Hz	Receiver M1 - Wallum Lake Road	65.0	Receiver M2 - Jackson Schoolhouse Road (East)	9.99	Receiver M3 - Doe Crossing Drive	9.09	Receiver M4 - Buck Hill Road	61.1	Receiver M5 - Jackson Schoolhouse Road (South)	59.3

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SoundPLAN 7.4

	-	Ì													
Source	PWL	<u>*</u>	SrcType	KO-Wall	Size	8	8	125	250	200	-	2	4	80	
	dB(A)		i i		m,m²	HZ.	꾸	Hz	포	HZ X	KHZ KA	KH2 K	KHZ K	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	6 98	
ACC 1 Duct - Finger 1 A	35.9	62.00	Area	0	247.24	103.5	99.2							19.9	
ACC 1 Duct - Finger 1 B	35.9	62.00	Area	0	245.91	103.4	99.2	95.1	89.6					-19.9	-
ACC 1 Duct - Finger 1 C	35.9	62.00	Area	0	245.91	103.4	99.2	95.1	_				_	19.9	
ACC 1 Duct - Finger 2 A	36.0	62.00	Araa	0	249.06	103.5	99.3	95.2	89.7					19.8	
ACC 1 Duct - Finger 2 B	85.9	62.00	Arsa	0	245.91	103.4	99.2	95.1	_		_			-199	
ACC 1 Duct - Finger 2 C	35.9	62.00	Arsa	0	245.91	103.4	99.2	95.1					_	9 01-	
ACC 1 Duct - Finger 3 A	36.0	62.00	Araa	0	250.50	103.5	99.3	95.2						200	
ACC 1 Duct - Finger 3 B	35.9	62.00	Araa	0	245.91	103.4	99.2	95.1						961-	
ACC 1 Duct - Finger 3 C	35.9	62.00	Arsa	0	245.91	103.4	99.2	95.1						0.01-	
ACC 1 Duct - HRH Bypass Bell A	93.8	82.00	Arsa	0	15.17	111.3	107.1	103.0						-120	
ACC 1 Duct - HRH Bypass Bell B	93.8	82.00	Araa	0	15.18	111.3	107.1	103.0						-120	
ACC 1 Duct - HRH Bypass Bell C	93.9	82.00	Area	0	15.37	111.4	107.2	103.1						911	
ACC 1 Duct - HRH Bypass Bell D	93.6	82.00	Area	0	14.54	111.2	106.9	102.8						425	
ACC 1 Duct - HRH Bypass Bell E	93.9	82.00	Area	0	15,34	111.4	107.1	103.1					_	110	
ACC 1 Duct - HRH Bypass Tube A	32.6	79.00	Arsa	0	2.28	100.1	95.9	8,18						23.2	
ACC 1 Duct - HRH Bypass Tube B	82.6	79.00	Area	0	2.29	100.1	95.9	91.8						23.2	
ACC 1 Duct - HRH Bypass Tube C	32.6	79.00	Area	0	2.29	100.1	95.9	91.8						23.2	
ACC 1 Duct - HRH Bypass Tube D	82.6	79.00	Arsa	0	2.28	100.1	95.9	91.8						23.2	
ACC 1 Duct - LP Bypass Bell A	92.8	81.00	Area	0	15.17	110.3	106.1	102.0						-130	
ACC 1 Duct - LP Bypass Bell B	92.8	81.00	Area	0	15.18	110.3		102.0						13.0	
ACC 1 Duct - LP Bypass Bell C	92.9	81.00	Area	0	15.37	110.4	_	102.1						-12.9	
ACC 1 Duct - LP Bypass Bell D	92.6	81.00	Arse	0	14.54	110.2	105.9	101.8	96.3	91.0				-13.2	
ACC 1 Duct - LP Bypass Bell E	92.9	81.00	Arsa	0	15.34	110.4	106.1	102.1	9.96	91.2				-12.9	
ACC 1 Duct - LF Bypass Tube A	31.6	78.00	Area	0	2.30	99.2	94.9	90.8	85.3					-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					-24.2	
ACC 1 Duct - LF Bypass Tube C	31.6	78.00	Area	0	2.30	99.2	94.9	8.06	85.4	80.0				-24.2	
ACC 1 Duct - LP Bypass Tube D	81.6	78.00	Area	0	2.30	99.2	94.9	8.06	85.3	79.9				-24.2	
ACC 1 Duct - Main A	103.4	82.00	Area	0	136.57	120.9	116.6	112.5	_					-24	
ACC 1 Duct - Main B	97.7	82.00	Area	0	37.17	115.2	111.0	106.9	4.101					4	
ACC 1 Duct - Main C	101.1	82.00	Area	0	80.99	118.6	114.4	110.3	104.8	99.4		_		4.7	
ACC 1 Duct - Main D	2.76	82.00	Area	0	37.41	115.3	111.0	106.9			85.8 8(_		-8.1	
ACC 1 Duct - Main E	92.0	82.00	Area	0	19.86	112.5	108.3	104.2	98.7	93.3 B		_		-10.8	



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Sounds and a second sec	PWL	<u>ب</u>	SroType	KO-Wall	Size	જ	63	125	250	200	-	N	4	80
	dE(A)				m,m²	보 보	HZ	Hz	HZ.	¥	주 보고	쟢	ᅶ	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		7.4
ACC 1 Duct - Main H	103.4	82.00	Area	0	136.57	120.9	116.6	112.5	_	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	101.8	91.6	86.4	75.6	6.5
ACC 1 Duct - Main O	102.8	82.00	Area	0	120.75	120.4	116.1			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		101.2	6.06	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		101.2	91.0	85.8	75.0	-2.9
	95.4	82.00	Area	0	21.64	112.9	108.6			93.7	83.4	78.2		101-
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		12.8
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		-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		20.00
ACC 1 Duct - Riser 1 D	90.1	72.00	Area	0	64.39	9.701	103.4	99.3	93.8	88.4	78.2	73.0		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		
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		-15.7
ACC 1 Duct - Riser 2 C	90.0	72.00	Area	0	63.56	107.6	103.3	89.2	93.8	88.4	78.1	72.9		80.
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	_	-15.7
ACC 1 Duct - Riser 3 A	90.0	72.00	Area	0	63.74	9.701	103.3	99.2	93.8	88.4	78.1	72.9		, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
ACC 1 Duct - Riser 3 B	90.1	72.00	Area	0	64.20	9.701	103.4	99.3	93.8	88.4	78.2	73.0		-15.7
ACC 1 Duct - Riser 3 C	90.0	72.00	Area	٥	63.58	9.701	103.3	99.2	93.8	88.4	78.1	72.9		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
ACC 1 Duct - Riser 3 D	90.1	72.00	Area	0	64.39	9.701	103.4	99.3	93.8	88.4	78.2	73.0		-15.7
ACC 1 Top	109.0	72,74	Area	0	4228.07	110.0	113.0				104.3	98.5		86.9
ACC 2 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	_			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	7.68		74.0	68.8		-19.9
ACC 2 Duct - Finger 1 B	85.9	62.00	Area	0	245.91	103.4	89.2	95.1	89.6	84.2	74.0	68.8		6,61
ACC 2 Duct - Finger 1 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	9.68	84.2	74.0	68.8		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		19.0
ACC 2 Duct - Finger 2 B	82.9	62.00	Area	0	245.91	103.4	99.2	95.1	9.68	84.2	74.0	68.8		-19.9
ACC 2 Duct - Finger 2 C	85.9	62.00	Area	0	245.91	103.4	99.2	95.1	9.68	84.2	74.0	68.8		19.9
ACC 2 Duct - Finger 3 A	96.0	62.00	Area	0	250.50	103.5	99.3	95.2	89.7	84.3	74.1	68.9		80,00
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		-19.9
ACC 2 Duct - Finger 3 C	82.9	62.00	Area	0	245.91	103.4	99.2	95.1	9.68	84.2	74.0	68.8		-19.9



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	PWL	N.	SrcType	KO-Wall	Size	31	8	125		200	2		00	
	dE(A)		1 de 1		m,m²	Ŧ	꾸	갶	Hz	Hz KI	KHZ KHZ		KHZ KHZ	, Z
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	76.7	65.9 -12.0	0.5
ACC 2 Duct - HRH Bypass Bell B	93.8	82.00	Area	0	15.18	111.3	107.1	103.0				_		-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 8				6.11-
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	•			-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	_	_	_		9.11-
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 7	_			-23.2
ACC 2 Duct - HRH Bypass Tube B	82.6	79.00	Area	0	2.30	1001	95.9	91.8	86.3	80.9	_			23.2
ACC 2 Duct - HRH Bypass Tube C	82.6	79.00	Area	0	2.30	100.2	95.9				_			23
ACC 2 Duct - HRH Bypass Tube D	82.6	79.00	Area	0	2.30	100.2	95.9				_			
ACC 2 Duct - LP Bypass Bell A	92.8	81.00	Area	0	15.18	110.3	106.1	102.0						0.8
ACC 2 Duct - LP Bypass Bell B	92.8	81.00	Area	0	15.18	110.3	106.1	102.0		91.1		_		0.5
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				6
ACC 2 Duct - LP Bypass Bell D	92.6	81.00	Area	0	14.54	110.2	105.9	101.8	96.4			_		
ACC 2 Duct - LP Bypass Bell E	92.9	81.00	Area	0	15.34	110.4	106.1							
ACC 2 Duct - LP Bypass Tube A	81.6	78.00	Area	0	2.31	99.2	94.9	80.8						
ACC 2 Duct - LP Bypass Tube B	81.6	78.00	Area	0	2.31	99.2	94.9				_			
ACC 2 Duct - LP Bypass Tube C	81.6	78.00	Area	0	2.31	99.2	94.9	80.8						
ACC 2 Duct - LP Bypass Tube D	81.6	78.00	Area	0	2.31	99.2	94.9	8.06						
ACC 2 Duct - Main A	99.2	82.00	Area	0	52.37	116.7	112.5	108.4		97.5 8	87.3 82			9.7
ACC 2 Duct - Main B	97.6	82.00	Area	0	36.49	115.2	110.9	106.8				_		-8.2
ACC 2 Duct - Main D	87.8	82.00	Area	0	37.90	115.3	111.1	107.0		96.1 8	85.9 80			Co
ACC 2 Duct - Main E	94.6	82.00	Area	0	18.33	112.2	107.9	103.8					•	
AGC 2 Duck - Main F	94.2	82.00	Area	0	16.54	111.7	107.5	103.4		92.5	82.3	_		9:
ACC Z Duct - Main H	99.2	82.00	Area	0	52.36	116.7	112.5	108.4		97.5 8	87.3 82	_		99-
ACC 2 Duct - Main M	94.9	82.00	Area	0	19.41	112.4	108.2	104.1			_	_	1	60
ACC Z Duck - Main N	103.5	82.00	Area	0	142.12	121.1	146.8	112.7		101.9	91.6			-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		-3.0
ACC 2 Duct - Main P	102.8	82.00	Area	0	120.75	120.4	116.1	112.0 1			90.9	_		-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 8:				7.
ACC 2 Duct - Main R	95.2	82.00	Area	0	21.01	112.8	108.5	104.4		_	83.3 78			9.0
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	85.8 78		-2.9
ACC 2 Duct - Riser 1 A	0.06	72.00	Area	0	63.74	9.701	103.3	99.2	93.8	88.4 71	78.1 72			8:9
ACC 2 Duct - Riser 1 B	90.1	72.00	Area	0	64.21	9'201	103.4	99.3			78.2 73	73.0 62	62.2 -15.7	7:5
				7		-								



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	80	kHz	-15.8	-15.7	-15.8	-15.7	-15.8	-15.7	, r.	7 2	-1.58	-15.7	86.9	76.9	76.9	80.9	80.9	81.0	86.0	86.0	43.7	44.3	47.6	44.3	43.7	73.8	73.8	75.7	94.2	58.6	58.6	58.6	58.6	58.6	58.6
	4	KHZ	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	93.0	83.0	83.0	84.9	84.9	85.0	90.0	0.06	51.7	52.3	55.7	52.3	51.8	73.8	73.8	80.8	87.2	65.7	65.7	65.7	65.7	65.7	65.7
	2	艾	72.9	73.0	72.9	73.0	72.9	73.0	72.9	73.0	72.9	73.0	98.5	88.5	88.5	85.9	85.9	86.0	91.0	91.0	57.7	58.3	61.6	58.3	57.7	74.8	74.8	87.8	90.2	70.6	70.6	70,6	70.6	70.6	70.6
	-	축	78.1	78.2	78.1	78.2	78.1	78.2	78.1	78.2	78.1	78.2	104.3	94.3	94.3	86.9	6.98	87.0	92.0	92.0	68.7	69.3	72.6	69.3	68.7	78.8	78.8	94.8	93.2	75.6	75.6	75.6	75.6	75.6	75.6
	200	포	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	106.9	96.9	96.9	87.9	87.9	88.0	93.0	93.0	81.7	82.3	85.7	82.3	81.8	83.8	83.8	98.8	97.2	81.7	81.7	81.7	81.7	81.7	81.7
	250	구 모	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	83.8	109.3	99.3	99.3	6.06	6.06	91.0	96.0	96.0	91.7	92.3	95.7	92.3	91.8	86.8	86.8	101.7	99.2	81.7	81.7	81.7	81.7	81.7	81.7
	125	FZ	99.2	99.3	99.2	99.3	99.2	99.3	99.2	99.3	99.2	99.3	113.0	103.0	103.0	90.9	90.9	91.0	96.0	96.0	100.7	101.3	104.6	101.3	100.7	92.8	92.8	101.7	100.2	86.6	86.6	86.6	86.6	86.6	86.6
	63	Hz	103.3	103.4	103.3	103,4	_	103.4	_			103.4	_		103.0	96.9						103.3			_			102.8	102.2	84.6	84.6	84.6	84.6		84.6
	34	HZ	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	110.0	100.0	100.0	85.9	85.9	86.0	91.0	91.0	108.8	109.3	112.7	109.3	108.8	98.3	98.3	102.3	102.2	78.7	78.7	78.7	78.7	78.7	78.7
	Size	m,m²	63.57	64.39	63.74	64.21	63.56	64.39	63.74	64.20	63.58	64.39	4228.07	405.93	405.93						234.94	268.09	579.10	268.09	235.85	12.00	12.00			19.21	15.27	19.13	15.15	32.39	19.21
	KO-Wall		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	က	ო	0	က	ო	က	က	0	0	က	m	ന	က	0	ന
*	SrcType		Area	Area	Area	Area	Point	Point	Point	Point	Point	Area	Area	Area	Area	Area	Area	Area	Point	Point	Area	Area	Area	Area	Area	Area									
	ž	•.	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.74	72.92	72.92	93.00	93.00	93.10	98.10	98.10	64.26	64.26	64.26	64.26	64.26	75.22	75.22	100.00	100.00	69.16	70.16	69.18	70.20	96.90	69.16
	PWL	dE(∕€)	90.0	8	90.0	90.1	0.06	90.1	0.08	8	80.0	90.1	109.0	0.66	086	93.0	93.0	93.1	98.1	98.1	88.0	88.5	91.9	88.5	88.0	86.0	86.0	100.0	100.0	82.0	82.0	82.0	82.0	82.0	82.0
4.8 . A.4																					•	de		ide	ep	vers - North	vers - South								
The state of the s	Source		ACC 2 Duct - Riser 1 C	ACC 2 Duct - Riser 1 D	ACC 2 Duct - Riser 2 A	ACC 2 Duct - Riser 2 B	ACC 2 Duct - Riser 2 C	ACC 2 Duct - Riser 2 D	ACC 2 Duct - Riser 3 A	ACC 2 Duct - Riser 3 B	ACC 2 Duct - Riser 3 C	ACC 2 Duct - Riser 3 D	ACC 2 Top	ACHE 1	ACHE 2	Air Process Skic 2	Air Process Skic 2	Ammonia Forwarding Pump	Ammonia Injection Skid 1	Ammonia Injection Skid 2	Aux Boiler Building - East Side	Aux Boiler Building - North Side	Aux Boiler Building - Roof	Aux Boiler Bullding - South Side	Aux Boiler Building - West Side	Aux Boiler Building Vent Louvers - North	Aux Boiler Building Vent Louvers - South	Aux Boiler FD Fan Injet	Aux Boiler Stack Exhaust	Aux Transformer 1 - Side 1	Aux Transformer 1 - Side 2	Aux Transformer 1 - Side 3	Aux Transformer 1 - Side 4	Aux Transformer 1 - Top	Aux Transformer 2 - Side 1



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Aux Transformer 2 - Side 2 Aux Transformer 2 - Side 3 Aux Transformer 2 - Side 4 Aux Transformer 2 - Top BFW Pump Enclosure 1-Side 1	45.0 82.0 82.0 82.0 82.0	70.16 69.18 70.20 66.30 76.92 76.92	2	e e e e e e	Size m,m² 15.27 19.13 15.15 32.39 56.38	78.7 78.7 78.7 78.7 78.7 110.5			250 Hz 81.7 81.7 81.7 81.7 81.7	81.7 81.7 81.7 81.7 81.7 87.9	1 75.6 75.6 75.6 81.9 84.7	2 kHz 70.6 70.6 70.6 77.9	4 kHz 65.7 65.7 65.7 65.7 65.7 72.7	8 KHz 58.6 58.6 58.6 58.6 63.9	
BFW Pump Enclosure 1-Side 4 BFW Pump Enclosure 1-Side 4 BFW Pump Enclosure 2-Side 1 BFW Pump Enclosure 2-Side 2 BFW Pump Enclosure 2-Side 3 BFW Pump Enclosure 2-Side 3 BFW Pump Enclosure 2-Side 4 BFW Pump Enclosure 2-Top Condensate Equipment Bidg 1 - East Side Condensate Equipment Bidg 1 - North Side Condensate Equipment Bidg 1 - South Side Condensate Equipment Bidg 2 - South Side	94.4 97.2 103.5 94.4 97.2 103.4 17.7 77.7 77.7 76.0 76.0 76.0	76.92 76.92 76.92 76.92 76.92 76.92 76.92 56.70 56.70 56.70 56.70	Area Area Area Area Area Area Area Area	m m o m m m m o m m o m m n o m	56.38 107.52 452.03 55.67 107.52 445.84 126.65 70.14 425.27 70.14 425.27 70.14	110.5 113.3 110.4 1113.3 110.4 1113.3 119.4 92.0 89.4 89.4 89.6 89.6	107.9 110.7 110.7 110.7 110.7 110.7 116.9 92.4 92.4 92.4 92.4 94.9 94.9	104.8 107.6 107.6 107.6 107.6 113.8 88.9 88.9 88.9 88.9 88.9 88.9 88.9 8	102.7 102.7 102.7 102.7 108.8 102.7 108.8 102.7 108.8 103.0	87.9 90.7 90.7 87.8 87.8 87.8 87.8 87.8 86.9 69.0 69.0 69.0 69.0 69.0 69.0 69.0 6			69.9 72.7 78.9 69.8 69.8 72.7 78.9 78.9 74.4 74.4 74.0 74.0 74.0 74.0 74.0 74.0	63.9 66.7 72.9 63.8 63.8 68.7 72.8 68.7 72.8 72.8 72.8 72.8 74.6 60.0 74.3 74.6 74.6 74.6 74.6 74.6 74.6 74.6 74.6	
Condensate Equipment Bidg 2 - West Side CTG 1 - Turbins Compartment Vent Fan CTG 2 - Turbins Compartment Vent Fan CTG Air Inlet 1 CTG Air Inlet 2 CTG Air Inlet Duct 1 - North CTG Air Inlet Duct 1 - South CTG Air Inlet Duct 2 - North CTG Air Inlet Duct 2 - North CTG Air Inlet Duct 2 - South	103.8 103.8 106.2 106.2 106.2 99.9 99.9 99.9	56.70 103.79 103.79 82.90 82.90 84.40 84.44 83.26 84.32	Area Point Point Area Area Area Area Area	m 0 0 0 0 0 0 0 0	126.59 213.41 211.39 35.83 35.50 46.57 36.52	92.0 101.6 101.6 112.0 111.6 111.6 111.6	94.9 102.0 102.0 105.0 107.0 107.0 107.0	88.8 109.9 100.0 100.0 100.9 100.9 100.9	83.0 0.10 0.10 0.00 0.00 0.00 0.00 0.00 0	98.0 98.0 98.0 90.0 93.0 93.0			288 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55.0 55.0 55.0 55.0 55.0 55.0 55.0	



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	M 11													
Source	PWL	ě	SrcType	KO-Wall	Size	રુ	S	125	250	200	-	2	4	80
1	dE(A)				m,m²	ᅻ	Ž	보	보	구 도	KHZ	KHZ	뷮	kHz
CTG Air Inlet Duct 2 - Top	6.66	83.15	Area	0	47.70	111.6	107.0	100.9	100.0	93.0	83.0	0.76	0 48	59.0
CTG Building 1 - East Facade	95.1	64.70	Area	m	1101.55	116.7	110.5		8.8	_			36.5	57.6
CTG Building 1 - North Facade	94.0	64.70	Area	ო	851.17	115.6	109.4	108.7	93.7		_	68.3	65.4	56.5
CTG Building 1 - Roof	89.9	59.70	Area	0	1047.08	111.5	105.3	104.6	9.68	_	58.5		61.3	52.4
CTG Building 1 West Facade	95.1	64.70	Area	က	1100.83	116,7	110.5	109.8	84.8	_	_	_		57.6
CTG Building 1 Vent Louvers - East	89.6	77.00	Area	m	18.00	100.3	926	6.96	83.9	_	_			75.7
CTG Building 1 Vent Louvers - North	89.6	77.00	Area	60	18.00	100.3	95.6	6.96	83.9	_				75.7
CTG Building 1 Vent Louvers - West	70.1	57.55	Area	ന	18.00	96.3	87.6	84.9			42.8			30.7
CTG Building 2 - East Facade	95.1	64.70	Area	က	1100.24	116.7	110.5	109.8						57.6
CTG Building 2 - North Facade	94.0	64.70	Area	က	852.46	115.6	109.4	108.7						56.5
CTG Building 2 - Roof	89.9	59.70	Area	0	1045.75	111.5	105.3	104.6	89.6	_				52.4
CTG Building 2 - West Facade	95.1	64.70	Area	က	1098.21	116.7	110.5	109.8	8.8					57.6
CTG Building 2 Vent Louvers - East	89.6	77.00	Area	က	18.00	100.3	92.6	6.96	83.9	83.1	_			75.7
CTG Building 2 Vent Louvers - North	89.6	77.00	Area	က	18.00	100.3	92.6	86.9		_				75.7
CTG Building 2 Vent Louvers - West	93.6	77.00	Area	က	18.00	100.3	92.6	96.9	83.9					75.7
Demin Water Pump	93.1	93.10	Point	0		96.0	97.0	91.0	91.0	_				81.0
Duct Burner Skid 1	95.0	95.00	Point	0		87.9	98.9	92.9	92.9	_	_			82.9
Duct Burner Skid 2	95.0	95.00	Point	0		87.9	98.9	92.9	92.9		_			82,9
Ernergency Diesel Generator - Side 1	8.2	-7.75	Area	ო	38.95	-25.0	-25.0	-12.0	-1.0					-13.0
Emergency Diesel Generator - Side 2	8.2	-7.76	Area	က	39.02	-25.0	-25.0	-12.0	-1.0	2.0		3.0		13.0
Ernergency Diesel Generator - Top	8.2	-8.56	Area	0	46.93	-25.0	-25.0	-12.0	-1.0	2.0				-13.0
Excitation Transformer 1	80.0	80.00	Point	0		7.97	82.6	84.6	79.7	_	73.6		63.7	56.6
Excitation Transformer 2	80.0	80.00	Point	0		7.97	82.6	84.6	79.7	79.7	_			56.6
Fire Pump Building - Roof	Ť	-23.30	Area	0	82.33	10.1	13.1	7.1	-	-12.9				-35.9
Fire Pump Building - Side 1	-5.7	-23.30	Area	ო	57.22	8.5	11.5	5.5	-0.5	-14.5	_	-30.5	-36.5	-37.5
Fire Pump Building - Side 2	ф	-23.30	Area	က	29.99	5.7	8.7	2.7	-3.3	-17.3	_	33.3	-39.3	40.3
Fire Pump Building - Side 3	-5.7	-23.30	Area	က	57.22	8.5	11.5	5.5	-0.5					-37.5
Fire Pump Building - Side 4	ф 5.5	-23.30	Area	က	30.11	5.7	8.7	2.7	3.3	-17.3	_			40.3
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.02	97.9	95.7	83.8	81.7		_			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
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	96.9	90.9	6.06	87.9		_		80.9
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	6.96	6.06	6.06	_				80.9
Gas Affeccoler 1	101.0	94.00	Area	0	20.09	8.88	102.2	98.1	97.2		_			85.2



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80	K-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z-Z	85.2	94.7	94.7	94.7	94.7	67.3	65.7	69.2	65.7	67.3	70.6	70.6	70.6	70.6	20.6	20.6	20.6	70.6	70.6	70.6	414	41.4	47.0	62.0	7.7	7.7	-7.7	7.7-	7.7	-7.7	7.7-	7.7	
4	캎	93.2	96.7	96.7	96.7	96.7	68.3	68.7	70.3	66.7	68.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	58.4	58.4	77.0	69.0	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	
~	쟢	94.2	97.7	7.78	97.7	97.7	74.3	727	76.2	72.7	74.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	75.4	75.4	85.1	78.0	30.3	30.3	30.3	30.3	30.3	30,3	30.3	30.3	1
-	kh/z		7.66		99.7			79.7					87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	88.4												_
200	Hz	⊢	101.7		101.7	101.7		_										_	_					84.0								46.3	46.3	
250	HZ	97.2	104.7	104.7	104.7	104.7	104.3	102.7	106.3	102.7	104.3	93.7	93.7							_		_	99.4	102.0	103.0			63.3	63.3	63.3	63.3	63.3	_	
125	HZ	98.1	_	105.7	<u>`</u>	105.7	_	_	_	-	-		98.6	98.6				98.6	98.6	98.6	98.6				108.9			78.3				_	_	_
8	HZ	102.2	_	_	_		_				_	96.6				96.6									110.0									_
<u>ج</u>	포	9.66	102.2	102.2	102.2	102.2	113.3	111.7	115.3	111.8	113.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	106.0	106.0	117.6	105.6	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	105.6
Size	m,m²	51.73	6.00	6.00	6.00	00.9	173.15	119.51	269.92	120.04	173.41	62.39	39.49	67.51	39.63	127.76	67.39	39.49	67.51	39.63	127.76	1092.60	1092.93		71.44	118.98	116.55	122.00	126,11	120.89	117.59	119.83	118.04	35 17
KO-Wall		0	ന	က	က	က	က	က	0	ဇ	က	က	က	က	6	0	က	က	က	က	0	3	60	0	0	က	က	8	en	က	က	6	က	er.
SrcType	1	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Arsa	Area	Point	Line	Area	Area	Arsa	Area	Area	Area	Area	Araa	Area
*		83.86	94.76	92.76	92.36	95'28	76.70	76.70	76.70	78.70	76.70	75.71	78.04	75.71	78.02	72.94	75.71	78.04	75.71	78.02	72.94	66.65	66.65	102.42	80.00	44.81	44.90	44.70	44.55	44.74	44.86	44.78	44.84	81.17
PWL	dB(A)	101.0	105.7	105.7	105.7	105.7	99.1	97.5	101.0	97.5	99.1	94.0	94.0	94.0	94.0	94.0	0.76	94.0	94.0	94.0	20.0	97.0	97.0	102.4	98.5	929	65.6	65.6	65.6	929	92.6	65.6	65.6	96.6
Source Carlot and Carl		Gas Affeccoler 2	Gas Compressor Bidg Louvers - E	Gas Compressor Bidg Louvers - N	Gas Compressor Bidg Louvers - S	Gas Compressor Bidg Louvers - W	Gas Compressor Building - East Side	Gas Compressor Building - North Side	Gas Compressor Building - Roof	Gas Compressor Building - South Side	Gas Compressor Building - West Side	GSU 1 - Side 1	GSU 1 - Side 2	GSU 1 - Side 3	GSU 1 - Side 4	GSU 1 - Top	GSU 2 - Side 1	GSU 2 - Side 2	GSU 2 - Side 3	GSU 2 - Side 4	GSU 2 - Top	HRSG 1 - Body - Side 1	HRSG 1 - Body - Side 2	HRSG 1 - Exhaust Stack	HRSG 1 - Piping and Valves	HRSG 1 - Stack Walls - Side 1	HRSG 1 - Stack Walls - Side 2	HRSG 1 - Stack Walls - Side 3	HRSG 1 - Stack Walls - Side 4	HRSG 1 - Stack Walls - Side 5	HRSG 1 - Stack Walls - Side 6	HRSG 1 - Stack Walls - Side 7	HRSG 1 - Stack Walls - Side 8	HRSG 1 - T1 - Side 1



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Source	NA	78	SerTime	KO Well	Cino	25	8	4.0 k	020	-		6	,	
	dB(A)	1			m,m	, 1	3 12	7 7	T Z	TZ ZH	- 꿏	v 芝	4 1 7	æ Ž
HRSG 1 - T1 - Side 2	96.6	81.15	Area	8	35.32	105.6	11.0	109.9	0.00	85.0	- B8	25.0	28.0	440
HRSG 1 - T1 - Tap	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0	88.0	75.0	58.0	410
HRSG 1 - T2 - Side 1	96.6	76.25	Area	m	109.34	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0
HRSG 1 - T2 - Side 2	96.6	76.25	Area	ന	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	0.66	85.0	88.0	75.0	58.0	41.0
HRSG 2 - Body - Side 1	97.0	66.65	Area	г	1092.60	106.0	1114	110.3	99.4	85.4	88.4	75.4	58.4	414
HRSG 2 - Body - Side 2	97.0	66.65	Area	E)	1092.93	106.0	111.4	110.3	99.4	85.4	88.4	75.4	58.4	414
HRSG 2 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	_	102.0	84.0	81.0	85.1	77.0	47.0
HRSG 2 - Piping and Valves	98.5	80.08	Line	0	70.44	105.6	110.0	108.9	103.0	94.0	90.0	78.0	69.0	62.0
HFSG 2 - Stack Walls - Side 1	65.6	44.81	Area	m	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	ю	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	n	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7
HFSG 2 - Stack Walls - Side 4	65.6	44.55	Area	r)	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	က	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	ന	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	က	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	က	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	ന	35.17	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0
HRSG 2 - T1 - Side 2	9.96	81.15	Area	ო	35.32	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0
HRSG 2 - T1 - Top	9.96	82.78	Area	0	24.38	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	410
HRSG 2 - T2 - Side 1	9.96	76.25	Area	m	109.34	105.6	111.0	109.9	98.0	85.0	88.0	75.0	58.0	410
HRSG 2 - T2 - Side 2	9.96	76.25	Area	m	109.36	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0
HRSG 2 - T2 - Top	999	80.37	Area	0	42.32	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0
HRSG Recirc Pump 1	93.0	93.00	Point	0		85.9	6.96	6.06	6.06	87.9	86.9	85.9	84.9	80.9
HRSG Redirc Pump 2	93.0	93.00	Point	0		85.9	6.96	90.9	6.06	87.9	86.9	85.9	84.9	6.00
Isolation Transformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	78.7	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	04.0	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
Rcoftop 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 ?	87.8	87.78	Point	0		95.0	95.0	91.0	0.78	84.0	82.0	80.0	0.97	76.0



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	80	KHz	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	24.0	81.0	81.0	81.0	109.2	109.2	109.2	109.2	109.2	55.6	53.9	52.0	59.0	55.6	
	4	끂	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	23.0	85.0	85.0	85.0				_	_	58.6	64.9	53.0	0.09	56.6	000
Ì	2	KHZ	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	21.9	86.0	86.0	86.0	107.1						64.9	63.0	70.0	9.99	000
	-	kHz	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	10.8	87.0	87.0	87.0	96.0	96.0	96.0	96.0	96.0	73.6	71.9	70.0	77.0	73.6	1
	200	HZ H	84.0	84.0	84.0	84.0	84.0	84.0	84.0	0.48	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	18.0	98.0	88.0	88.0	103.2	103.2	103.2	103.2	103.2	84.6	82.9	81.0	88.0	84.6	0 7 0
İ	250	ΗŽ	0.78	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	0.78	28.0	91.0	91.0	91.0	113.2	113.2	113.2	113.2	113.2	9.96	94.9	93.0	100.0	96.6	0
Ī	125	보	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	0.10	91.0	91.0	91.0	91.0	91.0	91.0	27.0	91.0	91.0	91.0	112.2	112.2	112.2	112.2	112.2	103.5	101.8	99.9	106.9	103.5	100
I	63	72	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	20.9	97.0	97.0	97.0	106.1	106.1	106.1	106.1	106.1	111.6	109.9	108.0	115.0	111.6	9 7 7 7
	રુ	Ή	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	13.4	86.0	96.0	96.0	98.6	98.6	98.6	98.6	98.6	115.2	113.5	111.6	118.6	115.2	440.0
	Size	m,m²																											554.75	373.57	764.72	1206.17	552.09	200
100000000000000000000000000000000000000	KO-Waif		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ന	က	0	ო	es	c
	SrcType		Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Area	Area	Area	Area	Area	Area						
	}		87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	29.00	93.10	93.10	93.10	114.17	114.17	114.17	114.17	114.17	64.93	64.93	59.93	64.93	64.93	64 03
	PM	9B(A)	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	29.0	93.1	93.1	93.1			114.2	114.2	114.2	92.4	90.7	88.8	95.7	92.4	A CO
		A STATE OF THE STA	Rooftop Vent Fan - CTG Bldg 1	Rooftop Vent Fan - CTG Bldg 2	Rooftop Vent Fan - CTG Bldg 3	Rooftop Vent Fan - CTG Bldg 4	Rooftop Vent Fan - CTG Bldg 5	Rooftop Vent Fan - CTG Bldg 6	Rooftop Vent Fan - Gas Compressor Bidg 1	Rooftop Vent Fan - Gas Compressor Bldg 2	Rooftop Vent Fan - Gas Compressor Bldg 3	Rooftop Vent Fan - STG Bidg 1	Rooftop Vent Fan - STG Bldg 2	Rooftop Vent Fan - STG Bldg 3	Rooftop Vent Fan - STG Bldg 4	Rooftop Vent Fan - STG Bldg 5	Rooftop Vent Fan - STG Bidg 6	Rcoftop Vent Fan - Water Treatment Bildg1	Rooftop Vent Fan - Water Treament Bildg2	Safety Vent	Scanner Cooling Air Blower 1	Scanner Cooling Air Blower 2	Service Water Pump	Startup Vent - Aux Boiler Blowdown	Startup Vent - Aux Boiler Startup	Startup Vent - HRSG Blowdown 1	Startup Vent - HRSG Blowdown 2	Startup Vent - Steam Turbine Drains Tank	Steam Turbine Bidg 1 - East Facade	Steam Turbine Eldg 1 - North Facade	Steam Turbine Bidg 1 - Roof	Staam Turbine Bidg 1 - South Facade	Stream Turbine Bidg 1 - West Facade	Steam Turbine Bilda 2 - East Facade



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	PWI.	LW	0	KO-Well	Size	31	63	125	250	200	-	2	4	80		
20 20 20 20 20 20 20 20 20 20 20 20 20 2	de(A)				m,m	꾸	Hz	HZ	7	Hz	샤	ZHX	ᄷ	kHz		
Steam Turbine Bidg 2 - Roof	88.8	59.93	Area	0	764.05	111.6	108.0	6.66	93.0	81.0	70.0	63.0	53.0	52.0		
Steam Turbine Bldg 2 - South Facade 1	95.7	64.83	Area	က	1206.17	118.6	115.0	106.9	100.0	88.0		70.0	60.0	59.0		
Stram Turbine Bldg 2 - West Facade	92.4	64.93	Area	က	552.09	115.2	111.6	103.5	9.96	84.6		66.6	56.6	55.6		
STG Building 1 Yent Louvers - East	89.3	62.92	Area	ო	18.00	101.8	7.66	93.6	88.7	86.7		80.7	777	76.7		
STG Building 1 Vent Louvers - South 1	89.3	78.79	Area	63	18.00	101.8	2.66	93.6	88.7	86.7	82.7	80.7	77.7	76.7		
STG Building 1 Yent Louvers - South 2	89.3	76.79	Area	ന	18.00	101.8	2.66	93.6	88.7	86.7		80.7	77.7	76.7		
STG Building 1 Vent Louvers - West	89.3	76.79	Area	ო	18.00	101.8	7.66	93.6	88.7	86.7		80.7	77.7	76.7		
STG Building 2 Vent Louvers - East	89.3	76.79	Area	ო	18.00	101.8	99.7	93.6	88.7	86.7		80.7	77.7	76.7		
STG Building 2 Vent Louvers - South 1	89.3	76.79	Area	es	18.00	101,8	7.66	93.6	88.7	86.7		80.7	77.7	76.7		
STG Building 2 //ent Louvers - South 2	89.3	76.79	Area	ო	18.00	101.8	7.66	93.6	88.7	86.7		80.7	7.77	76.7		
STG Building 2 Vent Louvers - West	89.3	62.92	Area	m	18.00	101.8	7.66	93.6	88.7	86.7		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		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		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		86.0	85.0	81.0		
Water Treatment Building - East Side	78.9	56.70	Area	ဗ	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	က	452.35	97.5	100.5	94.5	88.5	74.5		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		61.6	55.7	54.7		
Water Treatment Building - South Side	83.3	56.70	Area	က	453.24	97.5	100.5	94.5	88.5	74.5		58.5	52.5	51.5		
Water Treatment Building - West Side	78.9	56.70	Area	က	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	96'72	Area	က	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	77.98	Area	က	16.00	86.5	93.0	90.0	89.0	86.0	84.0	82.0	81.0	79.0		
															-	

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													1
Scuroe	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	fns. Loss	Air	Directivity	Reflection	SP.	
	dB(A)	dB(A)	88	9	E	쁑	9	8	쁑	뜅	dВ	dB(A)	
Receiver M1 - Wallum Lake Road													П
ACC 1 Bottom	109.0	7.27	9	90	780 6	0 83	6	000		0			T
ACC 1 Duct - Finger 1 A	85.9	62.0	0.0	0.0	691.9	-67.8	5 0	4.2	7 7	9 C	9 6	12.6	
ACC 1 Duct - Finger 1 B	85.9	62.0	0:0	0.0	690.7	67.8	5.5	0.	1.	2 0	2.6	(80	
ACC 1 Duct - Finger 1 C	85.9	62.0	0.0	0.0	692.8	-67.8	-0.5	-7.2	8.0-	0.0	0 0	2 0	
ACC 1 Duct - Finger 2 A	96.0	62.0	0.0	0.0	704.1	67.9	-0.5	4.	0,	0.0	0.0	5.5	
ACC 1 Duct - Finger 2 B	82.9	62.0	0.0	0.0	702.9	-67.9	-0.5	4.3	6.0-	0.0	2.4	6.4	
ACC 1 Duct - Finger 2 C	85.9	62.0	0.0	0.0	705.1	-68.0	-0.5	-11.0	9.0-	0.0	1.0	0.9	
ACC 1 Duct - Finger 3 A	96.0	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	6.0	0.0	2,1	14.0	
ACC 1 Duct - Finger 3 C	න වා ව	62.0	0.0	0.0	717.5	-68.1	-0.5	0.9-	-0.7	0.0	0.6	8.2	
ACC 1 Duct - HitH Bypass Bell A	83.8	82.0	0.0	0.0	8.099	-67.4	9.0	-21.2	-0.5	0.0	0.0	120	
ACC 1 Duct - HitH Bypass Bell B	83.8	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	669.0	-67.4	9.0	-20.3	5.5	0.0	, <u>-</u>	7.8	
ACC 1 Duct - HitH Bypass Bell D	93.6	82.0	0.0	0.0	0.099	-67.4	9.0	-13.1	4.0	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	9.0	-20.3	-0.4	0.0	2.0	ος υς	
ACC 1 Duct - HRH Bypass Tube A	82.6	79.0	0.0	0.0	659.4	-67.4	0.7	-13.0	5.5	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	9.0	-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	4.0.	0.0	0.0	9	
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	9.0	-21.4	5.5	0.0	0.0	42	
ACC 1 Duct - LP Bypass Bell B	92.8	81.0	0.0	0.0	665.0	-67.4	1.2	-15.4	4.0-	0.0	0.0	7.6	
ACC 1 Duct - LP Bypass Bell C	92.9	81.0	0.0	0.0	663.3	-67.4	0.8	-18.8	6 .4	0.0	6.0	4	
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	6.999	-67.5	0.8	-17.9	4.0	0.0	0.2		
ACC 1 Duct - LF Bypass Tube A	91.6	78.0	0.0	0.0	663.8	-67.4	9.0	-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	4.0	0.0	0.3	0.1	
ACC 1 Duct - LP Bypass Tube C	9. 9. 9.	78.0	0.0	0.0	664.1	-67.4	8.0	-17.4	-0.4	0.0	0.0	.58	
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	6.0	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	9.0-	0.0	6.0	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	
	40.45		-									-	



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School	1410	Charle Assets		Mar. O. L.	1								
	dB(A)	dB(A)	# # # # # # # # # # # # # # # # # # #	dB dB	E E	Spreading	Ground Effect dB	Ins. Loss	₩ ₩	Directivity	Reflection	SPL dR(A)	
										~		(1)	7
ACC 1 Duct - Main D	97.7	82.0	0.0	0.0	645.2	-67.2	0.7	-7.1	9.0	00	7	245	
ACC 1 Duct - Main E	95.0	82.0	0.0	0.0	648.0	-67.2	0.7	က္	\ \frac{1}{7}	0.0	2.0	2 2 2	
ACC 1 Duct - Main F	9. 8.	82.0	0.0	0.0	651.2	-67.3	0.7	<u>4</u> 9.	6	0.0	00	223	
	101.1	82.0	0.0	0.0	660.5	-67.4	0.8	8.6-	0.5	0.0	0.0	24.2	
	103.4	82.0	0.0	0.0	655.0	-67.3	1.2	8.8	-0.7	0.0	r.	20.3	•
ACC 1 Duct - Main M	<u>9</u>	82.0	0.0	0.0	697.2	-67.9	1.0	-17.2	-0.4	0.0	e, rci	13.9	
	103.5	82.0	0.0	0.0	682.0	-67.7	0.7	-22.1	9.0	0.0	2.6	16.4	-
	102.8	82.0	0.0	0.0	684.2	-67.7	1.4	-13.9	-0.4	0.0	0.1	22.3	
	102.8	82.0	0.0	0.0	685.0	-67.7	6.0	-18.0	4.0	0.0	0,4	18.0	
	102.9	82.0	0.0	0.0	683.4	-67.7	6.0	-25.1	9.0	0.0	2.1	12.3	
	95.4	82.0	0.0	0.0	870.2	-67.5	8.0	-14.5	-0.4	0.0	0.2	14.0	
	95.2	82.0	0.0	0.0	668.4	-67.5	0.8	-18.0	-0.4	0.0	1	113	
-	0.0	72.0	0.0	0.0	668.7	-67.5	-0.1	-7.3	9.0	0.0	0.5	15.1	
	90.1	72.0	0.0	0.0	670.7	-67.5	6.1	-10.2	9	0,0	1.0	. 8.	
ACC 1 Duct - Riser 1 C	90.0	72.0	0.0	0.0	671.7	-67.5	0.1	-15.4	4.0	0.0	0.0	, r.	
ACC 1 Duct - Riser 1 D	90.1	72.0	0.0	0.0	669.6	-67.5	, ,	-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,	-9.2	-0.5	0.0	0.7	13.2	
	90.1	72.0	0.0	0.0	683.3	-67.7	Ó.	-13.1	-0.4	0.0	0.2	6	•
_	90.0	72.0	0:0	0.0	684.2	-67.7	0,	-15.8	4.0	0.0	0.0	8.0	
_	90.1	72.0	0.0	0.0	682.1	-67.7	0.1	-10.1	-0.5	0.0	9.0	12.3	
	0.08	72.0	0.0	0.0	694.0	-67.8	0.1	6.6-	-0.5	0.0	2.8	14.5	
	% 	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	86 +-	72.0	0.0	0.0	695.0	-67.8	-0.1	-10.1	-0.5	0.0	9.6	15.1	
ACC 1 180	109.0	72.7	0.0	0.0	790.0	-68.9	0.4	φ. 1.9	-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	8.0	-2.9	-8.6	0:0	29.5	
ACC Z Duct - Finger 1 A	85.9	62.0	0.0	0.0	774.4	-68.8	-0.4	4.3		0.0	0.0	4.11	
ACC 2 Duct - Finger 1 B	82.9	62.0	0.0	0.0	773.2	-68.8	-0.4	4.	-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	9.4	
ACC 2 Duct - Finger 2 A	86.0	62.0	0.0	0.0	786.9	-68.9	4.0	4.4	7	0.0	0.0	1.0	
ACC 2 Duct - Finger 2 B	85.9	62.0	0:0	0.0	785.7	-68.9	4.0-	-6.2	6.0-	0.0	20	7.	
ACC 2 Duct - Finger 2 C	85.9	62.0	0.0	0.0	6.787	-689	-0.4	-13.8	9.0-	0.0	0.1	22	
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Solice	DAA!	DIA/I 6 Lak		- N-1-0									
	d8(A)	dB(A)	8	alaudo-lioni dB	Distance	Spreading	Ground Effect	Ins. Loss	- =	Directivity	Reflection	SPL	
			-1					3	3	9	g	ab(A)	7
ACC 2 Duct - Finger 3 A	86.0	62.0	0:0	0.0	799.4	-69.0	-0.4	4.7	-10	0.0	00	40.8	Γ
ACC 2 Duct - Finger 3 B	85.9	62.0	0.0	0.0	798.3	-69.0	-0.4	9.9	6.0-	0.0	2.1	2 5	
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	7.197	-68.6	7:	-23.6	-0.7	0:0	90	. 0	
ACC 2 Duct - HRH Bypass Bell B	93.8	82.0	0.0	0.0	761.6	-68.6	1.6	-25.7	6.0	0.0	00	5 -	
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	, rc	
ACC 2 Duct - HRH Bypass Bell D	93.6	82.0	0.0	0.0	761.1	-68.6	1.3	-17.7	50.5	0.0	50	- «	
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 6) W	
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		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	5.0-	0.0	90		
ACC 2 Duct - HRH Bypass Tube C	82.6	79.0	0.0	0.0	760.8	-68.6	1.3	-19.6	90-	0.0	0.0	9	
ACC Z Duct - HRH Bypass Tube D	82.6	0.62	0.0	0.0	760.5	-68.6	4.1	-18.4	-0.5	0.0	00	, ed	
ACC 2 Duct - LP Bypass Bell A	95.8	81.0	0.0	0.0	766.1	-68.7	1.1	-23.2	-0.7	0.0	9 0	3 7	
ACC 2 Duct - LF Bypass Bell B	92.8	91.0	0.0	0.0	766.0	-68.7	1.6	-25.7	60	0.0	9 0	. 0	
ACC 2 Duct - LF Bypass Bell C	92.9	81.0	0.0	0.0	764.3	-68.7	1.3	-22.1	9.0	0:0	6	-	
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	5.0	7.4	
ACC Z Duct - LP Bypass Bell E	82.8	81.0	0:0	0.0	6.797	-68.7	4.1	-20.9	9.0	0.0	0.0	4.0	
ACC 2 Duct - LF Bypass Tube A	9.1.6	78.0	0:0	0.0	765.0	-68.7	1.3	-18.5	0.55	0:0	0.0	7	
ACC 2 Duct - LP Bypass Tube B	9.	78.0	0.0	0.0	764.6	-68.7	1.3	-18.5	0.55	0.0	20	. 4	
ACC 2 Duct - LP Bypass Tube C	9.16	78.0	0.0	0.0	765.3	-68.7	1.3	-19.6	9.0	0.0	0.0	, rů	
ACC 2 Duct - LP Bypass Tube D	8 9	78.0	0.0	0.0	764.9	-68.7	1.4	-18.6	-0.5	0.0	0.0	4	
ACC 2 Duct - Main A	99.5	82.0	0.0	0.0	748.9	-68.5	6.0	-15.6	-0.5	0.0	0.3	15.8	
ACC 2 Duck - 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 Z Duct - Main D	97.8 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	<u>අ</u>	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	12	13.4	
ACC 2 Duct - Main H	39.5	82.0	0.0	0.0	748.8	-68.5	1.6	-24.6	8.0	0.0	4.0	7.4	
ACC 2 Duct - Main M	න න	82.0	0.0	0.0	782.8	-68.9	1.3	-19.2	-0.5	0.0	0.0		
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	90	14.1	
ACC 2 Duct - Main O	102.8	82.0	0,0	0.0	770.3	-68.7	1.3	-18.6	5.5	0.0	, c	. 4	
N	102.8	82.0	0.0	0.0	9.697	-68.7	1.6	-24.9	8	0.0	9 0	2 0	
ACC 2 Duct - Main Q	95.4	82.0	0.0	0.0	755.2	-68.6	1.3	-16.5	50		200	5 5	
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Source	20	Divisit Aveilt		Man Onke						1			
	dB(A)	dB(A)	8	and Spilere dB	Urstande m	Spreading	Ground Effect dB	Ins. Loss	¥ 8	Directivity	Reflection	SPL dB(A)	
											3	(C)	
ACC 2 Duot - Main R	95.2	82.0	0.0	0.0	753.7	-68.5	1.3	-23.9	5 2	c	000		
ACC 2 Duct - Main S	102.9	82.0	0.0	0.0	768.9	-68.7	£.	-24.0	8	9 0	0 6	, <u>.</u>	
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	4	5 5	
ACC 2 Duct - Riser 1 B	90.1	72.0	0.0	0.0	755.4	-68.6	0.1	-14.0		0.0	20	7.3	
ACC 2 Duct - Riser 1 C	0.06	72.0	0.0	0.0	756.4	-68.6	0.1	-16.0	5.5	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	4	, ri	
ACC 2 Duct - Riser 2 A	0.06	72.0	0.0	0.0	766.1	-68.7	0.1	-10.8	9.0	0.0	8.0	6.0	
ACC 2 Duct - Riser 2 B	1.06	72.0	0.0	0.0	768.2	-68.7	0.1	-15.4	-0.5	0.0	0.2	, r.	
ACC 2 Duct - Riser 2 C	0.06	72.0	0.0	0.0	769.2	-68.7	0.1	-17.6	Ġ iSi	0.0	0	2 67	
ACC 2 Duck - Riser 2 D	S: 3	72.0	0.0	0:0	767.2	-68.7	0.1	-11.4	9.0-	0.0	0.7	10.2	
ACC & Duck - Kisser o A	0.00	72.0	0.0	0.0	779.1	-68.8	0.1	-11.2	9.0	0.0	0.9	10.5	
ACC Z Duct - Kiser 3 B	90.	72.0	0.0	0.0	781.1	-68.8	0.1	-16.1	-0,5	0.0	0,3	5.0	
ACC Z Duck - Kiser 3 C	0.0	72.0	0.0	0.0	782.1	6.89-	0.1	-17.6	9.0-	0.0	0.0	3.2	
ACC Z Duck - Riser 3 D	2.	72.0	0.0	0.0	780.1	-68.8	0.1	-13.3	9.0-	0.0	1,0	10	
ACC Z 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	0.08	72.9	0.0	0.0	751.3	-68.5	2.2	-7.4	-2.2	0.0	0.0	23.1	
ACHE Z	0.0	72.9	0.0	0.0	645.5	-67.2	8.	-5.9	-2.2	0.0	0.8	26.2	
All Process Skiciz	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	4	0.0	0.0	4.00	
All Process Skic 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	
Arimonia Fowarding Pump	93.1	93.1	0.0	0.0	762.2	-68.6	3.1	9.7-	4.2	0.0	0.1	15.6	
Ammonia Injection Skid 1	28.1	23.	0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	92	
Arimonia injection Skid Z	86	1.08	0.0	0.0	6.609	-66.7	2.5	5.2	-5.2	0.0	3.4	26.8	
ALX Boiler Building - East Side	88.0	26	0.0	3.0	675.2	-67.6	1.2	9.7	-0.5	0.0	0.0	19.5	
ALX boller building - North Side	88.5	2 6	0.0	3.0	686.4	-67.7	1.3	6.5.	0.5	0.0	0.0	20.6	
Aux Boller Building - Root	6.	64.3	0.0	0.0	688.2	-67.7	9.0	5.5	-0.5	0.0	9.0	6,0	
ALX Borier building - South Side	88.5	2	0.0	3.0	690.1	-67.8	1.2	-10.2	0.3	0.0	0.3	9,4	
Aux Boiler Building - West Side	88.0	64.3	0.0	3.0	701.0	-67.9	£.T	-15.5	-0.3	0.0	3.3	9.1	
Aux Boller Building Vent Louvers - North	86.0	75.2	0.0	3.0	681.9	-67.7	6.	-2.6	-2.4	0.0	0.0	(8) (3)	
Aux Boller Building Vent Louvers - South	0.98	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	6,0-	0.0	0.3	6.7	
Aux Boiler ru Fan Iniet	100.0	100.0	0.0	0.0	674.3	-67.6	7.5	-5.1 T	-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	7.17.7	-68.1	2.2	-26.8	-1.8	0.0	3.5	გ. დ.	



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	- IMIG	DIAM Aspite	1	Man Oakan								
	dB(A)	dB(A)	<u>8</u> 8	application applic	BOLESIO E	Spreading dB	Ground Effect dB	Ins. Loss dB	₹ 8	Directivity	Reflection	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	6.	0.0	3 6	, 4 -
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	9.4	- 00
Aux Transformer 1 - Top	82.0	66.9	0.0	0.0	716.9	-68.1	2.0	-24.8	£.	0.0	, E.	7.87
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	11.7
Atx Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	ф Т.	-1.3	0.0	0.1	30.5
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	4.8-	-1.4	0.0	(n)	13.6
Aux Transformer 2 - Side 4	82.0	70.2	0.0	3.0	619.7	9.99-	1.8	-17.2	-1.0	0.0	, e	110
Aux Transformer 2 - Top	82.0	6.99	0.0	0.0	616.7	-66.8	1.3	6.0	-1.7	0.0	2.9	7.13
BFW Pump Enclosure 1-Side 1	8	76.9	0.0	3.0	758.0	-68.6	1.7	-25.4	-0.7	0.0	00	44
BFW Pump Enclosure 1-Side 2	97.2	6.9	0.0	3.0	747.2	-68.5	1.7	-25.2	-0.7	0.0	0,3	7.8
Brw Pump Enclosure 1-Side 3	장 작:	76.9	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0	6.7
8FW Pump Enclosure 1-Side 4	97.2	6.9	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	6.9	0.0	0.0	754.8	-68.5	1.5	-24.1	9.0-	0.0	0.7	11.7
BFW Pump Enclosure 2-Side 1	왕 4.	6.9	0.0	3.0	654.3	-67.3	7,5	-22.7	-0.5	0.0	0.0	4.8
BFW Pump Enclosure 2-Side 2	97.2	6.9	0.0	3.0	643.1	-67.2	3.5	-22.3	-0.4	0.0	9.0	12.7
BFW Pump Enclosure 2-Side 3	9 .4	76.9	0.0	3.0	646.8	-67.2	1.5	-23.5	-0.5	0.0	9.1	6,9
BFW Pump Enclosure 2-Side 4	97.2	76.9	0.0	3.0	657.8	-67.4	1.6	-25.3	9.0	0.0	0.0	5.5
BFW Pump Enclosure 2-Top	103.4	76.9	0.0	0.0	650.5	-67.3	Ţ	-20.3	-0.4	0.0	8.0	17.4
Condensate Equipment Bldg 1 - East Side	77.7	26.7	0.0	3.0	745.5	-68.4	1.9	-7.0	9.0-	0.0	0.0	6.7
Condensate Equipment Bldg 1 - North Side	75.2	26.7	0.0	3.0	747.4	-68.5	1.9	-13.8	-0.3	0.0	0.7	ဆု
Condensate Equipment Bidg 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 Blog 1 - South Side	75.2	26.7	0.0	3.0	758.0	-68.6	1.9	-15.2	-0.4	0.0	0.5	9,6
Condensate Equipment Bidg 1 - West Side	77.7	26.7	0.0	3.0	759.8	-68.6	1.9	-13.3	-0.4	0.0	1.1	3.5
Condensate Equipment Blog 2 - East Side	7.7	26.7	0.0	3.0	662.8	-67.4	1.6	6.0	9.0-	0.0	0.0	8.3
Condensate Equipment Bidg 2 - North Side	75.2	26.7	0.0	3.0	664.0	-67.4	1.6	-G.1	9.0	0.0	0.0	5.7
Condensate Equipment Bldg 2 - Roof	78.0	51.7	0.0	0.0	8,699	-67.5	1.0	-5.6	0.55	0.0	0.0	5.4
Condensate Equipment Bldg 2 - South Side	75.2	56.7	0.0	3.0	672.9	-67.6	1.7	-10.2	-0.3	0.0	0.0	1.7
Condensate Equipment Bidg 2 - West Side	7.7	56.7	0.0	3.0	676.8	9.79-	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,	0.0	0.0	27.6
CIG ALT MET	106.2	82.9	0.0	0.0	769.2	-68.7	3.2	-26.9	4.8-	0.0	0.1	5.5



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Source	PWI	PWI Annit	Tone	Non-Suhere	Dietange	Corneding	1 2 2 7 1 1 1 2 2						
	dB(A)	dB(A)	g B	8	§ E	Spieduling dB	Ground Errect	INS. LOSS	¥ 8	Directivity	Reflection dB	SPL dB(A)	
												(2)	Ī
CTG Air Inlet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	00	0.2	78	Γ
CTG Air inlet Duct 1 - North	6.66	84.4	0.0	0.0	750.4	-68.5	2.7	-25.3	2		 i u	t 6	
CTG Air Inlet Duct 1 - South	6.66	84.4	0.0	0.0	752.0	-68.5	2.7	-26.1	-3.3	0.0	5 5	, r.	
CTG Air Inlet Duct 1 - Top	6.06	83.3	0.0	0.0	751.3	-68.5	2.4	-26.6	3.7	0.0	0.1	. 6	
CTG Air Inlet Duct 2 - North	6.66	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	10	300	
CTG Air Inlet Duct 2 - South	6.66 6.66	84.3	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	2.7	
CTG Air Inlet Duct 2 - Top	6.00	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	3.6	0.0	6.0	· 60	
CIG Building 1 - East Facade	95.1	64.7	0.0	3.0	718.8	-68.1	9.0	-5.0	-0.3	0.0	0.0	25.4	
CTG Building 1 - North Facade	90.0	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	6.0	59.7	0.0	0.0	733.1	-68.3	-0.1	4.7	-0.4	0.0	0.2	16.6	
CTG Suliding 1 - West Facade	 	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	9.08	77.0	0.0	3.0	719.5	-68.1	8.	-9.6	-2.6	0.0	0.0	0.24	
CTG Building 1 Vent Louvers - North	9.08	77.0	0.0	3.0	719.5	-68.1	6.1	-14.1	1.1	0.0	0.2	11.2	
CTG Building 1 Vent Louvers - West	5.	57.6	0:0	3.0	742.9	-68.4	1,3	-17.2	-0.2	0.0	0.0	-11.4	
C.G. Bullding Z.: East Facade	95.1	64.7	0.0	3.0	616.4	-66.8	0.5	5.	0,3	0.0	0.0	30.2	
CTG Building 2 - North Facade	<u>8</u>	64.7	0.0	3.0	624.3	6.99-	9.0	4.9	-0.3	0.0	0.0	28.5	
CTG Building 2 Roof	80.9	59.7	0.0	0.0	630.5	0.79-	0.0	9.	-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	
CIG Building 2 Vent Louvers - East	9.68	77.0	0.0	3.0	617.4	-96.8	1.5	-0.1	-5.4	0.0	0.0	21.8	
C. G Building Z Vent Louvers - North	93.6	77.0	0.0	3.0	616.4	-66.8	1.5	-0.1	-5.4	0.0	4.1	23.2	
C. G Building Z Vent Louvers - West	98.6	77.0	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	6,4	_ ``
Denim 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	
Dust Burner Okla 1	20.0	95.0	0.0	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	2.8	5.4	
Emorate Saluk	5.0	0.08	0.0	0.0	613.7	-66.8	2.5	-3.6	-3.8	0.0	1.8	25.2	
Circipency Diesel Generator - Side 1	27 (-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	-3.9	0.0	2.1	-83.3	
Cinargericy Diesel Generator - Side Z	20 I	87-	0.0	3.0	680.2	-67.6	3.3	-28.2	بن 9	0.0	1.2	83.9	
Emergency Dieser Generator - Lop	8.2	တ် တ	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	94.8	
Excusion Transformer 1	0.0	80.0	0.0	0.0	718.7	-68.1	2.2	-24.5	-1.3	0.0	2.8	o,	
Excitation I rangiormer 2	80.0	0.0	0.0	0.0	617.1	-66.8	1.6	5.3	-2.2	0.0	2.4	9.6	
Fire Pump Building - Koot	4.1	-23.3	0.0	0.0	630.7	-67.0	1.2	ئ. ئ	0.5	0.0	0.0	-76.0	
The Pump Building - Side 1	-6.7	-23.3	0.0	3.0	633.9	-67.0	8.1	-11.8	-0.3	0.0	0.0	-30.1	
Fire Fump Building - Side 2	φ rύ	-23.3	0.0	3.0	631.3	-67.0	4,8	9.9-	4.0	0.0	0.0	7.77-	



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Page 6

Source	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Ā	Directivity	Reflection	SPL	Г
	dB(A)	dB(A)	쁑	qB	ε	g B	qp	쮺	쁑	8	8	dB(A)	
													1
Fire Pump Building - Side 3	5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-6.4	50.55	90	c	74.0	Γ
Fire Pump Building - Side 4	-8.5	-23.3	0.0	3.0	630.0	-67.0	8,	-6.4	5.5			7.77	
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	.7.2	
Fuel Gas Metering and Regulating Station	93.0	93.0	0.0	0.0	798.2	-69.0	3.9	-28.7	89	0.0	000	i 0	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	645.0	-67.2	3.0	-26.6	67	0	200		
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	748.2	-68.5	3.2	-28.0	4	0.0	2 6	5 4	
Gas Afteccoler 1	101.0	84.0	0.0	0.0	806.0	-69.1	3.2	-27.6	9.5	0.0	200	t u	
Gas Afteccoler 2	101.0	83.9	0.0	0.0	809.0	-69.2	3.2	-27.7	4.0	0.0	200	0 %	
Gas Compressor Bidg Louvers - E	105.7	98.0	0.0	3.0	784.3	-68.9	2.9	-27.1	6	0.0		, c	
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	120	
Gias Compressor Bidg 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	
Gias Compressor Bidg Louvers - W	105.7	98.0	0.0	3.0	797.4	-69.0	2.9	-27.8	-3.6	0.0	00	5.15	
Gas Compressor Building - East Side	96	76.7	0.0	3.0	784.1	-68.9	1.7	-15.1	-0.3	0.0	00	7 2	
Gas Compressor Building - North Side	97.5	76.7	0.0	3.0	788.6	-68.9	1.7	-16.6	6.3	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	ñ	
Gas Compressor Building - South Side	97.5	7.92	0.0	3.0	793.2	-69.0	1.7	-19.5	0.3	0.0	0.0	46	
Gas Compressor Building - West Side	99.1	76.7	0.0	3.0	797.6	-69.0	1.7	-21.3	4.0	0.0	0.0	13.1	
650 1 - Side 1	9 0.	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	4.	4.2	
GSU 1 - Side 2	94.0	78.0	0.0	3.0	714.6	-68.1	2.1	-25.1	75,	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	- FC	4.6	
GSU 1 - Side 4	8	78.0	0.0	3.0	728.5	-68.2	2.1	-25.5	6,1	0.0	2.5	5.2	
GSO 1 - 10p	2	72.9	0.0	0.0	721.4	-68.2	4°.8	-23.9	-1.3	0.0	1.7	5 4	
GOO Z - Side 1	0.0	75.7	0.0	3.0	623.4	-66.9	1.6	-13.1	-1.2	0.0	0.3	17.7	
GSU 2 - SIGE 2	9 0.	78.0	0.0	3.0	615.0	-66.8	1.2	6.1-	-2.6	0.0	0.0	27.0	
GSO Z - Side 3	9 0	75.7	0.0	3.0	620.1	-66.8	1.6	8.6	-2.1	0.0	0.5	23.3	
G30 Z - 300 4	0.5	78.0	0.0	3.0	628.6	-67.0	1.7	-18.3	0.1-	0.0	2.0	14.4	
G20.2 - 10p	9	72.9	0.0	0.0	621.5	6.99-	1.1	-6.3	-1.7	0.0	1.7	22.0	
HKSG 1 - Sody - Side 1	97.0	9.99	0.0	3.0	730.9	-68.3	0.7	-16.6	-0.4	0,0	0.0	r.	
HKSG 1 - Body - Side 2	97.0	9.99	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	6	3.6	00	30.3	
HKSG 1 - Piping and Valves	98.5	80.0	0.0	0.0	744.6	-68.4	0.5	-17.1	5,5	0.0	20	13.1	
HRSG 1 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	721.3	-68.2	2.0	9.0	ó.	0.0	9	. 55	
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Source	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	₹	Directivity	Reflection	īds	Γ
0,1	dB(A)	dB(A)	왕	dB	ε	8	99	쁑	8	dB GB	8	dB(A)	
~											-	7.3	7
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	00	80	Γ
HRSG 1 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	-0.2		200	2 6	
- Stack Walls - Side	65.6	44.6	0.0	3.0	720.4	-68.1	2.0	3.7	-0.	0	2 6	i r	
HRSG 1 - Stack Walls - Side 5	65.6	44.7	0.0	3.0	722.6	-68.2	2.0	4	-0.2	0.0	2 6		
	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	-6.2	0.	0.0	0.0	1 6	
- Stack Walls - Side	65.6	44.8	0.0	3.0	724.7	-68.2	2.0	6.9	6	0.0		5 4	
HRSG 1 - Stack Walls - Side 8	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	တို	0,2	0.0	9 6	ř 4	
HRSG 1 - T1 - Side 1	99.6	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	4,0	0.0	5.0	5.5	
HRSG 1 - T1 - Side 2	98.6	81.2	0.0	3.0	727.2	-68.2	1.6	11.1	4.0	0.0	0.1	22.5	
HKSG 1 - 11 - 10p	99.9	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	00	2.2	0 00	
HRSG 1 - T2 - Side 1	95.6	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	-0.4	0.0		5 4 5 4	
HKSG 1 - T2 - Side 2	98.6	76.2	0.0	3.0	725.7	-68.2	1.0	-8.3	4.0-	0.0	00	23.50	
HKSG 1 - 72 - Top	98.6	80.4	0.0	0.0	730.5	-68.3	0.1	-7.5	-0.5	0.0	, e	20.00	
HRSG 2 - Body - Side 1	97.0	9.99	0.0	3.0	626.6	-66.9	0.4	-15.8	6,0	0.0	9 6	17.5	
HRSG 2 - Body - Side 2	97.0	9.99	0.0	3.0	616.2	-66.8	0.5	6,1	-0.7	0.0	000	. t.	
HRSG 2 - Exhaust Stack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0.0	6.0	99	00	73.4	
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	00	2.7	
HISS Z - Stack Walls - Side 2	65.6	6.44	0.0	3.0	614.9	-66.8	1.9	-1.3	50.2	0.0	0.0	. e	
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-86.8	1.9	1,3	-0.2	0.0	0.0	2.5	
HKSG Z - Stack Walls - Side 4	65.6	44.6	0.0	3.0	615.5	-66.8	1.9	ا. ن	-0.2	0.0	0.0	2.2	
HKSG Z - Stack Walls - Side 5	65.6	44.7	0.0	3.0	617.8	-66.8	1.9	4	0.	0.0	0.0	60	
HKSG 2 - Stack Walls - Side 6	95.6	44.9	0.0	3.0	619.6	-66.8	1.9	-6.1	-0.1	0.0	0.0	-26	
Little 2 - Gradk Walls - Glde /	65.6	8.4	0.0	3.0	620.0	8.99-	1.9	-7.0	-0.1	0.0	0.0	3.5	-
TITOG Z - Clack Walls - Cide 8	92.6	8.44.8	0.0	3.0	618.9	-66.8	6.1	-7.8	6.1	0.0	0.0	4.3	
HR862-11-840-1	90.0	81,2	0.0	3.0	631.2	-67.0	1.0	-10.7	-0.2	0.0	0.5	23.2	
	9	84.2 2i	0.0	3.0	624.0	6.99-	1.2	3.9	6.0	0.0	2.0	31.2	-
113062-11-10p	93.6	82.8	0.0	0.0	627.9	6.99-	0.7	4.5.	4.0	0.0	2.4	27.0	-
FIRSG Z - 1Z - Side 1	98.6	76.2	0.0	3.0	631.1	-67.0	0.6	-12.3	6.0	0.0	0.1	20.8	
HK56 2 - Z - 5 0e 2	99.6	76.2	0.0	3.0	622.3	-66.9	0.7	6.1.	-0.7	0.0	0.7	31.6	
MKSG Z - 1Z - 10p	96.6	80.4	0.0	0.0	627.4	-66.9	0.0	-6.0	9.0-	0.0	7.0	23.7	
HKSG Kedra 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	IVIG	DiAtt from		Man Only	i								
	7 A	TWO THE	e i	Non-Sphere	Distance	Spreading	Ground Effect	ns. Loss	Ąį	Directivity	Reflection	SPL	
0.13.0	db(A)	QB(A)	8	dB dB	E	99	dB dB	æ	8	8	8	dB(A)	
													1
TWO RECITO FUMP 2	83.0	93.0	0.0	0.0	606.4	9.99-	2.8	-7.3	-3.6	0.0	22	20 B	Γ
Isolation Transformer 1	80.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	7		, «	2 0	
Isolation Transformer 2	80.0	0.08	0.0	0.0	601.3	-66.6	1.2	-2.9	28	2	5 6		
Rooftop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	4.4	4	200	1 0	÷ .	
Rooftop Vent Fan - Admin 2	87.8	87.8	0.0	0.0	612.2	-66.7	2.8	7.5	-2.7	9 6	9 6	 	
Rooftop Vent Fan - Admin 3	87.8	87.8	0.0	0.0	589.4	-66.4	28	-7.5		9 6	9 6	13.7	
Rooftop Vent Fan - Admin 4	87.8	87.8	0.0	0.0	614.6	-66.8	88	9 2	i c	0 0	0.0	D 0	
Rooftop Vent Fan - Condensate Bldg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	0 0	, r,	9 6	+	4. 6 y c	
Rooftop Vent Fan - Condensate Bldg 2.	87.8	87.8	0.0	0.0	753.2	-68.5	3.0	0 4		9 6	9 9	0.01	
Rooftop Vent Fan - CTG Bidg 1	87.8	87.8	0.0	0.0	735.3	-68.3	30	000		9 6	9 6	5.0	
Rooftop Vent Fan - CTG Bidg 2	87.8	87.8	00	0	7.24 B	600	9 6	9 6	, i.	0.0	0.0	12.9	
Rooftop Vent Fan - CTG Bido 3	87.8	878		3 5	0 002	7.00	, d	o i	-7.7	0.0	0.0	13.3	
Roofing Vest Esp. CTC Bids 4	9 6	9 6	2 6	2 ((20.3	-08.2	6.7	ري 1.	4.6-	0.0	0.0	16.0	
Discourse and Cloudy 4	0.70	87.78		0.0	632.6	-67.0	2.7	-7.4	-2.9	0.0	0:0	13.2	
Notice Vent rain - Cite Bing 5	87.8	87.8	0:	0.0	627.4	-96.9	2.7	-0.7	0.4	0.0	0.0	88	
Noticop Vent Fan - C G Bldg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	-0.8	0.4	0.0	0.0	4	
Roomop Vent Fan - Gas Compressor Eilog 1	87.8	87.8	0.0	0.0	790.3	-68.9	3.1	-17.9	6,	0.0	000	2.2	
Rooftop Vent Fan - Gas Compressor Eldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	3.1	-18.6	100	0.0		- 1	
Rooftop Vent Fan - Gas Compressor Eldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	6	183		2 6	9 6	ņ c	
Rooftop Vent Fan - STG Bidg 1	87.8	87.8	0.0	0.0	658.3	-67.4	80	7.5	2 0	3 6	0.0	7. 6	
Rooftop Vent Fan - STG Bidg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	2 4	, Y	9 6	0.0	1Z.8	
Rooftop Vent Fan - STG Bidg 3	87.8	87.8	0.0	0.0	645.9	-67.2	2.7	.7.5	0	0.0	2 6	20 6	
Rooftop Vent Fan - STG Bidg 4	87.8	878	0.0	0.0	735.2	-68.3	6	67.	9 0	9 6	2 0	8.5	
Rooftop Vent Fan - STG Bldg 5	87.8	87.8	0.0	0.0	758.9	-68.6	0.6	400	9	9 6	9 6	5.7	
Rooftop Vent Fan - STG Bldg 6	87.8	87.8	0.0	0.0	746.0	-68.4	30	.7.1	- a	9 6	9 6	2 4	
Rooftop Vent Fan - Water Treatment Eldg1	87.8	87.8	0.0	0.0	700.5	6.79-	0	. 7.	9 6	9 6	0. 6	12.3	
Rooftop Vent Fan - Water Treatment Bidg2	87.8	87.8	0.0	0.0	680.5	-67.6	08		2 6	9 6	0.0	12.1	
Sariety Vent	28.0	29.0	00	0	4 000	, a	9 0		. i	0.0	0.0	13.3	
Scanner Cooling Air Blower 1	2 20	2 6	3 6	2 6	100.0	-00.4	7.7	0.0	-7.9	9.5	0.7	51.9	
Scannor Cooling Air Disease	3 8	93.1		0.0	7.58.1	-68.2	3.2	-5.0	 9.0	0.0	0:0	19.2	
Sando Mater Dimer 2	3 8	20.0	0.0	0.0	624.3	-96.9	2.9	-0.1	4.5	0.0	0.0	24.5	
Start in Vest - Are Delice Disserting	5.7.7	23.7	0.0	0.0	662.7	-67.4	3.0	-26.9	-2.9	0.0	0.3	-0.7	
Status Ven - Aux Boller Blowdown	114.2	114.2	0.0	0.0	680.1	9.79-	1.3	0.0	-8.4	-8.0	0.0	10.	
desirup vera - Aux boller startup	114.2	114.2	0:0	0.0	683.5	-67.7	1.3	0.0	-8.4	-8.0	0.0	3.4	
										•	-	-	



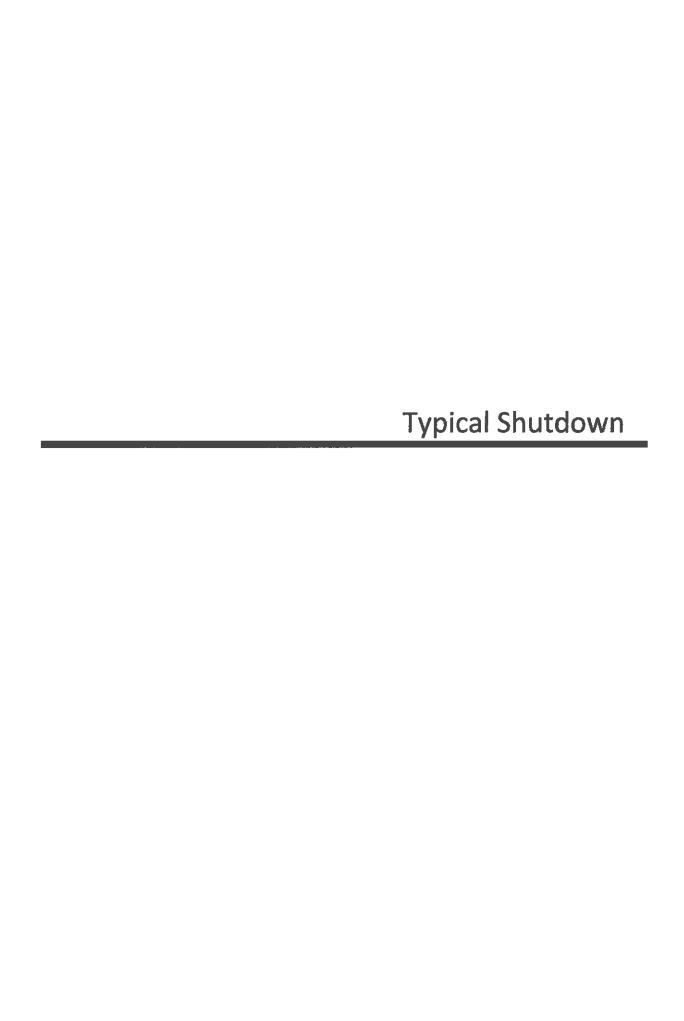
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Source	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	₹	Directivity	Reflection	<u>a</u>	Γ
	dB(≱)	dB(A)	뜅	дB	Ε	g B	dB	쁑	æ	留	쁑	¢B(A)	
													1
Startup Vent - HRSG Blowdown 1	114.2	114.2	0.0	0.0	608.5	-66.7	1.2	0.0	-7.9	-8.2	0.7	33.7	Γ
Startup Vent - HRSG Blowdown 2	114.2	114.2	0.0	0.0	713.7	-68.1	6,	0.0	νς. φ	2,72		317	
Startup Vent - Steam Turbine Drains Tank	114.2	114.2	0.0	0.0	653.9	-67.3	2.6	0.7	9 00	, e¢	200	300	
Steam Turbine Bidg 1 - East Facade	92.4	64.9	0.0	3.0	726.9	-68.2	1.2	-7,6	0.3	0.0	200	2 2	e i e
Steam Turbine Bidg 1 - North Facade	20.7	64.9	0.0	3.0	757.1	-68.6	1.2	-14.8	ç	2 0	200	44.0	
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	200		
Steam Turbine Bldg 1 - South Facade	95.7	64.9	0.0	3.0	748.9	-68.5	1.2	-15.0	-0.2	00	100		
Steam Turbine Bldg 1 - West Facade	92.4	64.9	0.0	3.0	7.697	-68.7	1.2	-18.3	. e	0.0	200	0. P	
Steam Turbine Bidg 2 - East Facade	92.4	64.9	0.0	3.0	626.1	-66.9	6.0	-1.0	4.0	0.0	000	280	
Steam Turbine Bldg 2 - North Facade	20.7	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 9	0.0	0.0	645.7	-67.2	0.2	6.4	-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	6.0	-9.2	0.2	0.0	0.1	23.0	
Steam Turbine Bidg 2 - West Facade	92.4	6.49	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	4.	-14.1	-1.0	0.0	0.0	10.4	
ST3 Building 1 Vent Louvers - South 1	89.3	76.8	0.0	3.0	758.9	-68.6	ri.	-21.6	4.	0.0	0.0	22	
STG Building 1 Vent Louvers - South 2	89.3	76.8	0.0	3.0	737.1	-68.3	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	.t.	-24.0	89	0.0	0.7	0	
STG Building 2 Vent Louvers - East	89.3	76.8	0.0	3.0	625.6	6'99-	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	627.9	-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	7	-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	£.	0.0	0.0	ļ ,	
STW Heat Exchanger 1	102.0	6.06	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	80.9	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	22	
waste water Fump	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 Ireathert Building - East Side	78.9	56.7	0.0	3.0	8.099	-67.4	7.5	-6.1	-0.5	0.0	0.0	8.0	
Water Treatment Building - North Side	83.3	56.7	0.0	3.0	684.3	-67.7	75,	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	6.0	-5.6	9.0-	0.0	0,0	13.5	
Water Treatment Building - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	£.	-14.9	-0.3	0.0	0.0	80	
Water I reatment Building - West Side	78.9	56.7	0.0	3.0	711.6	-68.0	9,1	-15.1	6.0	0.0	0.0	0.0	
WIB Ventilation Louvers - North Side	0.0	78.0	0.0	3.0	679.3	9'29-	2.6	-5.2	ئى 1.5	0.0	0.0	19.6	
WIE Ventifation 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	
											-		I



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

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

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

8kHz		-37.8								
4kHz		17.5		8.5		9.9		-12.5		-29.8
2kHz		33.0		7.12		24.3		23.7		14.1
1kHz		35.8		33.1		30.8		32.3		23.4
500Hz		39.5		38.5		35.5		36.3		30.6
250Hz		47.3	Road (East)	45.2		44.1		44.4	Road (South)	39.6
125Hz	ake Road	56.0	Receiver M2 - Jackson Schoolhouse Road (East)	52.9	sing Drive	51.1		51.5	Receiver M5 - Jackson Schoolhouse Road (South)	46.8
63Hz	M1 - Wallum Lake Road	62.7	2 - Jackson S	61.4	Receiver M3 - Doe Crossing Drive	58.5	4 - B.	59.9	5 - Jackson S	56.0
31Hz	Receiver M	63.3	Receiver M.	62.8	Receiver M	58.8	Receiver M	59.8	Receiver M	56.7



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

Source Transfer of	PWL		SrcTyne	KO-Wall	Size	8	63	125	250	500	,				
	dB(A)			7	m'm	±	¥ 8	3 4	_		KHZ KA	KHZ KI	kH2	KH 0	
	109.0	72.74	Area	0	4226.63	110.0	1130	130	100 3	1			٠,		
ACC 1 Duct - Finger 1 A	75.9	52.00	Area	0	247.24	93.5								000	
ACC 1 Duct - Finger 1 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1						566	
ACC 1 Duct - Finger 1 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6					29.9	
ACC 1 Duct - Finger 2 A	76.0	52.00	Area	0	249.06	93.5	89.3	85.2	79.7	_				20 B	
ACC 1 Duct - Finger 2 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6					20.00	
ACC 1 Duct - Finger 2 C	75.9	52.00	Area	0	245,91	93,4	89.2	85.1	79.6					000	
ACC 1 Duct - Finger 3 A	76.0	52.00	Area	0	250.50	93.5	89.3	85.2	79.7					8 62-	
ACC 1 Duct - Finger 3 B	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6				_	-29.9	
ACC 1 Duct - Finger 3 C	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	9.67					-29.9	
ACC 1 Duct - HRH Bypass Bell A	83.8	72.00	Area	0	15.17	101.3	97.1	93.0		82.1				-22.0	
ACC 1 Duct - HRH Bypass Bell B	83.8	72.00	Area	0	15.18	101.3	97.1	93.0						-22.0	
ACC 1 Duct - HRH Bypass Bell C	83.9	72.00	Area	0	15.37	101.4	97.2	93.1		-				219	
ACC 1 Duct - HRH Bypass Bell D	83.6	72.00	Area	0	14.54	101.2	96.9	92.8		_				-22.2	
ACC 1 Duct - HRH Bypass Bell E	83.9	72.00	Area	0	15.34	101.4	97.1	93.1					_	-21.9	
ACC 1 Duct - HRH Bypass Tube A	72.6	69.00	Area	0	2.28	90.1	85.9	81.8						3.2	
ACC 1 Duct - HRH Bypass Tube B	72.6	69.00	Area	0	2.29	90.1	85.9	81.8	76.3		60.7 54			-33.2	
ACC 1 Duct - HRH Bypass Tube C	72.6	69.00	Area	0	2.29	1.06	85.9	81.8	76.3				_	-33.2	
ACC 1 Duct - HRH Bypass Tube D	72.6	69.00	Area	0	2.28	90.1	85.9	81.8						3.2	
ACC 1 Duct - LP Bypass Bell A	82.8	71.00	Area	0	15.17	100.3	96.1	92.0						3.0	
ACC 1 Duct - LP Bypass Bell B	82.8	71.00	Area	0	15.18	100.3	96.1	92.0					_	-23.0	
ACC 1 Duct - LP Bypass Bell C	82.9	71.00	Area	0	15.37	100.4	96.2	92.1						-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	_				3.2	
ACC 1 Duct - LP Bypass Bell E	82.9	71.00	Area	0	15.34	100.4	96.1	92.1	9.98	81.2				60	
ACC 1 Duct - LP Bypass Tube A	71.6	68.00	Area	0	2.30	89.2	84.9	80.8			59.7			1.2	
ACC 1 Duct - LP Bypass Tube B	71.6	68.00	Area	0	2.30	89.2	84.9	80.8				_	_	12	
ACC 1 Duct - LP Bypass Tube C	71.6	68.00	Area	0	2.30	89.2	84.9	80.8	75.4				_	2	
ACC 1 Duct - LP Bypass Tube D	71.6	68.00	Area	0	2.30	89.2	84.9	80.8					_		
ACC 1 Duct - Main A	93.4	72.00	Area	0	136.57	110.9	106.6	102.5	_		_			4	
ACC 1 Duct - Main B	87.7	72.00	Area	0	37.17	105.2	101.0	6.98	_	_				<u> </u>	
ACC 1 Duct - Main C	91.1	72.00	Area	0	80.99	108.6		100.3			_	_		7.1	
ACC 1 Duct - Main D	87.7	72.00	Area	0	37.41	105.3	101.0	86.9			_		_		
ACC 1 Duct - Main E	85.0	72.00	Area	0	19.86	102.5	98.3	94.2	88.7	-				9.0	



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

	PWL	LW.	SrcType	KO-Wall	Size	34	63	125	250	5		c	,		
1	dB(A)				m m	1	î	ì	4 5		- 3	,	+ =	ه ا	
-	84.6	73.00	Acres		40.04	1 2	1 6	2 2	1 2	- -	-			Z	
	t a	20.00		> 0	19.61	102.1	6.76	50.0	200	_	_		_	-21.2	
	03.4	72.00	Area 0	> 0	136 57	9 6	4. 6	200.3	50 Y				_	14.7	
	840	72.00	Area	, ,	40.44	2 5	0.00	0.20	- 26				5.7	12.4	
	93.5	72.00	Area	, c	142.12	1111	300.Z	103.4	0.00	2.50	0.50			20.9	
	92.8	72.00	Area	. 0	120.75	110.4	106.1	102.0	5 6				0.00	12.0	
	92.8	72.00	Area	0	121.31	110.4	106.1	102.0	998	_				2 6	
	92.9	72.00	Area	0	121.95	110.4	106.2	102.1	96.6		_			10.0	
	85.4	72.00	Area	0	21.64	102.9	98.6	34.5	89.1			68.2		-20.4	
	85.2	72.00	Area	0	21.04	102.8	98.5	94.4						-20.6	
	80.0	62.00	Area	0	63.74	97.6	93.3	89.2	83.8	78.4	68.1			-25.8	
	80.1	62.00	Area	0	64.21	97.6	93.4		83.8	78.4				-25.7	
	80.0	62.00	Area	0	63.57	97.6	93.3	89.2	83.8	78.4				-25.8	
	80.1	62.00	Area	0	64.39	97.6	93.4	89.3						-25.7	
	80.0	62.00	Area	0	63.74	97.6	93.3	89.2						25.8	
	80.1	62.00	Area	0	64.21	97.6	93.4	89.3						-25.7	
	00.0	62.00	Area	0	63.56	97.6	93.3					62.9		-25.8	
	80.1	62.00	Area	0	64.39	97.6	93.4		_					-25.7	
	80.0	62.00	Area	0	63.74	97.6	93.3			_				25.8	
	80.1	62.00	Area	0	64.20	97.6	93.4				_			25.7	
	80.0	62.00	Area	0	63.58	97.6	93.3							-25.8	
	80.1	62.00	Area	0	64.39	97.6	93.4					63.0		-25.7	
	109.0	72.74	Area	0	4228.07	110.0	113.0			_		98.5		698	
	109.0	72.74	Area	0	4226.63	110.0	113.0			_		98.5		86.9	
	75.9	52.00	Area	0	247.24	93.5	89.2					8 8 8		29.9	
	75.9	52.00	Area	0	245.91	93.4	89.2					8 8		29.9	
	75.9	52.00	Area	0	245.91	93.4	89.2	85.1				80		29.0	
	76.0	52.00	Area	0	249.06	93.5	89.3	85.2	79.7			6.85		20.5	
	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6	_		80		200	
	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6			58.8		-29.9	
	76.0	52.00	Area	0	250.50	93.5	89.3	85.2	79.7	-		58.9		29.8	
	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6			58.8		28.9	
	75.9	52.00	Area	0	245.91	93.4	89.2	85.1	79.6		64.0	58.8		-29.9	



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

Source	PINI	*	SrcType	KO-Wall	Size	रू	63	125	250	200	-	~	4	60
	dB(A)				m,m²	Hz	캎	·	보 기	보	Z Z	KHZ KHZ	캎	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	21.9	66.7	650	22.01
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		66.7		-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		8.99		-21.9
ACC 2 Duct - HRH Bypass Bell D	83.6	72.00	Area	0	14.54	101.2	6.98	92.8	87.4	82.0	71.7	66.5		-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		8.99	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		55.5		-33.2
ACC 2 Duct - HRH Bypass Tube B	72.6	69.00	Area	0	2.30	1.06	85.9	81.8	76.3		60.7	55.5		-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			55.5		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			55.5		-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			65.7		-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		65.7		-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		65.8		-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		65.5		-03.0
ACC 2 Duct - LP Bypass Bell E	62.9	71.00	Area	0	15.34	100.4	96.1	92.1	86.6	81.2	_	65.8		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			54.5		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			54.5		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			54.5		-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			54.5		-34.2
ACC 2 Duct - Main A	89.2	72.00	Area	0	52.37	106.7	102.5	98,4	92.9			72.1		99
ACC 2 Duct - Main B	87.8	72.00	Area	0	36.49	105.2	100.9	8.96	91.3	85.9		70.5		000
ACC 2 Duct - Main D	87.8	72.00	Area	0	37.90	105.3	101.1	0.76	91.5	96.1		70.7		1001
ACC 2 Duct - Main E	84.6	72.00	Area	0	18.33	102.2	97.9	93.8	88.4	83.0		57.5		212
ACC 2 Duct - Main F	84.2	72.00	Area	0	16.54	101.7	97.5	93.4	87.9	82.5	_	67.1		21.6
ACC 2 Duct - Main H	263	72.00	Area	0	52.36	106.7	102.5	98.4	92.9	87.5	_	72.1		16.6
ACC 2 Duct - Main M	84.0	72.00	Area	0	19.41	102.4	98.2	25.1	88.6	83.2				-20.9
ACC 2 Duct - Main N	පුලි	72.00	Area	0	142.12	111.1	106.8	102.7	97.3	91.9				-12.3
ACC 2 Duct - Main O	822	72.00	Area	0	121.31	110.4	106.1	102.0	96.6	91.2	6.08	75.7		-13.0
ACC 2 Duct - Main P	52.8	72.00	Area	0	120.75	110.4	106.1	102.0	96.5	_	80.9	75.7		-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			-20.4
ACC 2 Duct - Main R	85.2	72.00	Area	٥	21.01	102.8	98.5	94.4	88.9	83.6	73.3			-20.6
ACC 2 Duct - Main S	95.9	72.00	Area	0	121.95	110.4	106.2	102.1	9.96	91.2	81.0	_		-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				-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				-25.7
	9		-				٠	-	-	-		_	-1	



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

								ŀ	ŀ		-			
Bolmos	JA K	<u>}</u>	SrcType	KO-Wall	Size	ર્જ	63		250 5	500	+	4	00	
	dB(A)				m,m	Hz	¥	포	<u>+</u>	HZ KHZ	z Kłż	z KHz	z khz	
ACC 2 Duct - Riser 1 C	80.0	62.00	Area	0	63,57	97.6	93.3		83.8	78.4 68.1	1 62.9	L	Н	
ACC 2 Duct - Riser 1 D	80.1	62.00	Area	0	64.39	97.6	93.4		83.8		_		2 -25.7	
ACC 2 Duct - Riser 2 A	80.0	62.00	Area	0	63.74	97.6	93.3		83.8	78.4 68.1	.1 62.9	.9 52.2		
ACC 2 Duct - Riser 2 B	80.1	62.00	Area	0	64.21	97.6	93.4		83.8	78.4 68.2				
ACC 2 Duct - Riser 2 C	0.08	62.00	Area	0	63.56	97.6	93.3		83.8	78.4 68.		.9 52.2		
ACC 2 Duct - Riser 2 D	80.1	62.00	Area	0	64.39	97.6	93.4			78.4 68.2				
ACC 2 Duct - Riser 3 A	80.0	62.00	Area	0	63.74	97.6	93.3		83.8	_	_			
ACC 2 Duct - Riser 3 B	80.1	62.00	Area	0	64.20	97.6	93.4			_				
ACC 2 Duct - Riser 3 C	80.0	62.00	Area	0	63.58	97.6	93.3	89.2	83.8	_				
ACC 2 Duct - Riser 3 D	80.1	62.00	Area	0	64.39	97.6								
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0			109.3 10	_				
ACHE	0.60	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	96.9 94.3	_			
ACHE 2	99.0	72.92	Area	0	405.93	100.0			99.3	96.9 94.3	.3 88.5			
Air Process Skid 2	93.0	93.00	Point	0		85.9								
Air Process Skid 2	93.0	93.00	Point	0		85.9	6.96							
Ammonia Forwarding Pump	83.1	93.10	Point	0		96.0	0.76							
Animonia Injection Skid 1	98.1	98.10	Point	0		91.0		0.96			_			
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	_		6 0.96	93.0 92.0		0.06 0.		
Aux Boiler Building - East Side	88.0	64.26	Area	က	234.94	108.8			91.7	81.7 68.7	_			
Aux Boller Building - North Side	88.5	64.26	Area	m	268.09	109.3			92.3	82.3 69.3				
Aux Boiler Building - Roof	න න:	64.26	Area	0	579.10	112.7			96.7	85.7 72.6				10
Aux Boiler Building - South Side	58.5	64.26	Area	ന	268.09	109.3	_		92.3	82.3 69.3		_		
Aux Boller Building - West Side	88.0	64.26	Area	ო	235.85	108.8	`				_			
Aux Boller Building Vent Louvers - North	28.0	75.22	Area	ო	12.00	98.3	95.8	92.8	86.8	83.8 78.8	_			
Aux Boiler Building Vent Louvers - South	0.08	75.22	Area	ಣ	12.00	98.3				83.8 78.8			8 73.8	
Aux Boiler FU Fan infet	0.0	100.00	Point	0		102.3	_							
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2	_			97.2 \$3.				~
Aux Transformer 1 - Side 1	82.0	69.16	Area	ო	19.21	78.7	84.6		81.7 8	81.7 75.6			7 58.6	
Aux Iranstomer 1 - Side 2	82.0	70.16	Area	က	15.27	78.7	84.6	9.98	81.7 8	81.7 75.6		.6 65.7		
Aux Transformer 1 - Side 3	82.0	69.18	Area	ო	19.13	78.7	84.6	9.98	81.7 8	81.7 75.6	9.07 9.			
Aux Iransformer 1 - Side 4	62.0	70.20	Area	ო	15.15	78.7	84.6	9.98	81.7 8					
Aux Iransformer 1 - Top	82.0	86.90	Area	0	32.39	78.7	84.6	96.6	81.7 8	81.7 75.6			_	40
Aux Iransformer 2 - Side 1	82.0	99.16	Area	က	19.21	78.7	84.6	9.98	81.7 8	1.7 75.	_	.6 65.7		



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

	P. F.	J.	SrcType	KO-Wall	Size	હ	63	125	250	200	-	2	4		
The section of the se	dB(A)				m,m²	캎	ž	포	Hz	Hz	KHZ	Kłż	꿏	kHz	
Aux Transformer 2 - Side 2	82.0	70.16	Area	m	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	m	19.13	78.7	84.6	86.6	81.7	81.7	75.6	9.02	65.7	58.6	
Aux Transformer 2 - Side 4	82.0	70.20	Area	က	15.15	78.7	84.6	86.6	81.7	81.7	75.6	9.02	65.7	58.6	
Aux Transformer 2 - Top	82.0	90.99	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6	9.07	65.7	58.6	
BFW Pump Enclosure 1-Side 1	94.4	76.92	Area	က	56.38	110.5	107.9	104.8	6.66	87.9	81.9	77.9	669	63.9	
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	e	107.28	113.3	110.7	107.6	102.7	7.06	84.7	80.7	72.7	66.7	
BFW Pump Enclosure 1-Side 3	94.4	76.92	Area	က	56.38	110.5	107.9	104.8	99.9	87.9	81.9	6,77	669	63.9	
BFW Pump Enclosure 1-Side 4	97.2	76.92	Area	က	107,52	113.3	110.7	107.6	102.7	7.06	24.7	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	ო	55.67	110.4	107.8	104.8	8.66	87.8	81.8	77.8	8.69	63.8	
BFW Pump Enclosure 2-Side 2	97.2	76.92	Area	ო	107.52	113.3	110.7	9.701	102.7	2.06	84.7	80.7	72.7	66.7	
BFW Pump Enclosure 2-Side 3	94.4	76.92	Area	က	55.43	110.4	107.8	104.7	8.66	87.8	81.8	77.8	8.69	63.8	
BFW Pump Enclosure 2-Side 4	97.2	76.92	Area	ю	107.52	113.3	110.7	107.6	102.7	7.06	7.78	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	6.96	90.9	86.9	78.9	72.8	
Condensate Equipment Bldg 1 - East Side	7.77	26.70	Area	m	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	က	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	4.44	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	6 0	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bidg 1 - West Side	77.7	26.70	Area	က	126.59	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0	
Condensate Equipment Bidg 2 - East Side	77.7	56.70	Area	ന	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	26.70	Area	n	70,14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44,4	43.4	
Condensate Equipment Bidg 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 Bidg 2 - South Side	75.2	26.70	Area	ო	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	26.70	Area	m	126.59	92.0	94.9	88.9	83.0	0.69	59.9	52.9	47.0	46.0	
C1G 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		104.0	95.0	
CTG Air Inlet Duct 1 - North	6.66	84.40	Area	0	35.83	111.6	107.0	100.9	100.0	93.0	83.0		6.40	59.0	
CTG Air Inlet Duct 1 - South	666	84.44	Area	0	35.50	111.6	107.0	100.9	100.0	93.0	83.0	97.0	64.0	59.0	
CTG Air Inlet Duct 1 - Top	666	83.26	Area	0	46.57	111.6	107.0	100.9	100.0	93.0	83.0	0.76	0.48	59.0	
CTG Air inlet Duct 2 - North	6.66	84.32	Area	0	36.52	111.6	107.0	100.9	100.0	93.0	83.0	0.76	84.0	29.0	
C1G Air Inlat 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	29.0	



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

	PWL	LW.	SrcType	KO-Wall	Size	31	8	125	250	200	-	2	4	60
	dB(A)				m,m	보	¥	Ŧ	보	I.	Z X	- 2	KHZ KI	KHZ
CTG Air Inlet Duct 2 - Top	6.65	83.15	Area	0	47.70	11.6	107.0	100.9	0.00	93.0	83.0	0.26	84.0	290
CTG Building 1 - East Facade	95.1	64.70	Area	m	1101.55	116.7	110.5		94.8	04.0				9.2
CTG Building 1 - North Facade	94.0	64.70	Area	ო	851.17	115.6	109.4	108.7	93.7	82.9			65.4 5	5.0
CTG Bulkling 1 - Roof	89.9	59.70	Area	0	1047.08	111.5	105.3	104.6	9.68					52.4
CTG Building 1 - West Facade	95.1	64.70	Area	ო	1100.83	116.7	110.5	109.8	8.8					17.6
CTG Building 1 Vent Louvers - East	9.68	77.00	Area	ო	18.00	100.3	92.6	6.96	83.9	83.1				75.7
CTG Building 1 Vent Louvers - North	89.6	7.8	Area	က	18.00	100.3	92.6	6.96	83.9					22,4
CTG Building 1 Vent Louvers - West	70.1	57.55	Area	က	18.00	96.3	87.6	84.9		_				30.7
CTG Building 2 - East Facade	95.1	64.70	Area	က	1100.24	118.7	110.5	109.8	94.8	84.0				57.6
CTG Building 2 - North Facade	94.0	64.70	Area	က	852.46	115.6	109.4	108.7	93.7	82.9				56.5
CTG Building 2 - Roof	89.9	59.70	Area	0	1045.75	111.5	105.3	104.6	968	78.8				52.4
CTG Building 2 - West Facade	95.1	64.70	Area	ო	1098.21	116.7	110.5	109.8	85.48	84.0				57.6
CTG Building 2 Vent Louvers - East	9.68	77.00	Area	က	18.00	100.3	95.6	96.9	83.9	83.1				75.7
CTG Building 2 Vent Louvers - North	9.68	77.00	Area	က	18.00	100.3	92.6	96.9						75.7
CTG Building 2 Vent Louvers - West	89.6	77.00	Area	က	18.00	100.3	95.6	6.96						75.7
Demin Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0		_				81.0
Duct Burner Skid 1	95.0	95.00	Point	0		87.9	98.9	92.9		6.68				82.9
Dust Burner Skid 2	95.0	95.00	Point	0		87.9	98.9	92.9						0,200
Errergency Diesel Generator - Side 1	8.2	-7.75	Area	က	38.95	-25.0	-25.0	-12.0						13.0
Emergency Diesel Generator - Side 2	8.2	-7.76	Area	60	39.02	-25.0	-25.0	-12.0	1.0	2.0	4.0	3.0		-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		4.0	-13.0
Existation fransformer 1	80.0	80.00	Point	0		76.7	82.6	84.6	79.7	79.7	73.6	_		56.6
Excitation Transformer 2	90.0	80.00	Point	0		76.7	82.6	84.6		7.67	73.6	9.89	63.7 54	56.6
Title Fump Bullding - Koor	4	-23.30	Area	0	82.33	10.1	13.1	7.1	1.	-12.9	-21.9	-28.9	-34.9	5.9
Fire Pump Building - Side 1	-5.7	-23.30	Area	က	57.22	60.	11.5	5.5	-0.5	-14.5	-23.5 -:			-37.5
Fire Pump Building - Side 2	ထု် လ	-23.30	Area	ო	29.99	5.7	8.7	2.7	-3.3	-17.3	-28.3			40.3
Fire Pump Building - Side 3	-5.7	-23.30	Area	ന	57.22	8.5	11.5	5.5	-0.5		-23.5			-37.5
Fire Pump Building - Side 4	<u>ထုံ</u> လ	-23.30	Area	က	30.11	5.7	8.7	2.7	-3.3	-17.3	-26.3			40.3
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.05	6.76	95.7	83.8	81.7	76.0	8 77		_	103.1
Fuel Gas Metening and Regulating Station	93.0	93.00	Point	0		-15.6	-15.6	-15.6	72.4	74.4	79.4			79.4
Fuel Gas Performance Heater 2	0.0	93.00	Point	0		85.9	6'96	6.06	6.08	87.9	86.9	85.9	84.9 8(80.9
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	6.96	6.06	6.06	87.9				80.9
Gas Arteccoler 1	101.0	8.	Area	0	50.09	98.8	102.2	1.86	97.2	96.2			93.2 8	85.2



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PWL	۱۸ ا	SrcType	KO-Wall	Size	34	63	125	250	500	-	-	-	-	
	dB(A)	r			m,m	T	¥	보	보		KTZ X	N	· Ž	Z Z	*
	101.0	83.86	Area	0	51.73	89.8	102.2	88	97.2	96.2		200	23.2	5,2	
Gas Compressor Bidg Louvers - E	105.7	95.96	Area	က	6.00	102.2	108.7	105.7	_		99.7			7.4	
Gas Compressor Bidg Louvers - N	105.7	95.36	Area	ო	6.00	102.2	108.7	_	104.7	_				94.7	
Gas Compressor Bidg Louvers - S	105.7	92.36	Area	ო	00.9	102.2	108.7	_	104.7	101.7				7.78	
Gas Compressor Bidg Louvers - W	105.7	97.96	Area	m	00.9	102.2	108.7	105.7	104.7	_				7.76	
Gas Compressor Building - East Side	99.1	76.70	Area	ന	173.15	113.3	116.3	110.3	104.3	90.3				67.3	
Gas Compressor Building - North Side	87.5	76.70	Area	en	119.51	111.7	114.7		102.7					65.7	
Gas Compressor Building - Roof	101.0	76.70	Area	0	269.92	115.3	118.2				83.2			69.2	
Gas Compressor Building - South Side	97.5	76.70	Area	ო	120.04	111.8	114.7	108.7	102.7			_		65.7	
Gas Compressor Building - West Side	99.4	76.70	Area	ო	173.41	113.4	116.3	110.3	104.3			_		67.3	
	94.0	75.71	Area	m	67.39	200	96.6	98.6	93.7					20.6	
	94.0	78.04	Area	ო	39.49	200.7	96.6	98.6	93.7	_				9.0	
	84.0	75.71	Area	m	67.51	200.7	96.6	98.6	93.7			_		20.6	
	94.0	78.02	Area	ო	39.63	90.7	9.96	98.6	93.7				_	70.6	
	0.40	72.94	Area	0	127.76	90.7	96.6	98.6	93.7				_	9.0	
	94.0	75.71	Area	m	67.39	20.7	996	98.6	93.7				_	9.0	
	0.40	78.04	Area	ო	39.49	200.7	96.6	98.6	93.7	_				9.0	
	0.40	75.71	Area	ო	67.51	90.7	9.96	98.6	93.7	93.7	87.6			70.6	
	94.0	78.02	Area	က	39.63	90.7	96.6	98.6	93.7	93.7				9.07	
	94.0	72.94	Area	0	127.76	7.06	9.96	98.6	93.7	93.7				70.6	
	0.79	66.65	Area	m	1092.60	106.0	111,4	110.3	4.66					414	
HRSG 1 - Body - Side 2	97.0	66.65	Area	en	1092.93	106.0	111.4	110.3						4.1	
HRSG 1 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	116.0	102.0		81.0 E			17.0	
HRSG 1 - Piping and Valves	98.5	80.00	Line	0	71.44	105.6	110.0	108.9	103.0			_		12.0	
HRSG 1 - Stack Walls - Side 1	65.6	44.81	Area	69	118.98	85.3	88.2	78.3	63.3					7.7	
HFSG 1 - Stack Walls - Side 2	65.6	44.90	Area	rò	116.55	85.3	88.2	78.3	63.3		33.3			77	
HRSG 1 - Stack Walls - Side 3	65.6	44.70	Area	r")	122.00	85.3	88.2	78.3	63.3					77	
HRSG 1 - Stack Walls - Side 4	65.6	44.55	Area	m	126.11	85.3	88.2	78.3	63.3		33.3		22.3	7.7	
HRSG 1 - Stack Walls - Side 5	65.6	44.74	Area	en	120.89	85.3	88.2	78.3	83.3					-7.7	
HRSG 1 - Stack Walls - Side 6	65.6	44.86	Area	ო	117.59	85.3	88.2	78.3	63.3	46.3				-7.7	
HRSG 1 - Stack Walls - Side 7	65.6	44.78	Area	m	119.83	85.3	88.2	78.3	63.3	46.3		30.3		7.7-	
HRSG 1 - Stack Walls - Side 8	65.6	44.84	Area	ო	118.04	85.3	88.2	78.3	63.3	46.3			22.3	7.7-	
	98.6	81.17	Area	m	35.17	105.6	111.0	109.9	99.0	85.0				41.0	



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

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821700	¥ :	3	SrcType	KO-Wall	Size	3	63			200	~	H	00		
	dB(A)		3		m'm	Ŧ	ž	Hz	Hz	Hz KHZ	tz KHz	Z KHZ	Z KHZ	N	,
HRSG 1 - T1 - Side 2	96.6	81.15	Area	က	35.32	105.6	111.0	109.9	99.0	85.0 88	88.0 75	75.0 5	58.0 41	١	
HRSG 1 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0	6.601			_		58.0 41.0	. 0	
HRSG 1 - T2 - Side 1	96.6	76.25	Area	က	109.34	105.6	111.0	6.601	99.0	85.0 88	88.0 75		_	0	
HRSG 1 - 72 - Side 2	96.6	76.25	Area	ო	109.36	105.6	111.0	6.601		85.0 88	_		_	0	
HRSG 1 - T2 - Top	96.6	80.37	Area	0	42.32	105.6	111.0	6.601	8 0.66	85.0 88				0	
HRSG 2 - Body - Side 1	97.0	66.65	Area	ო	1092.60	106.0	111.4	110.3	99.4	_	1.~			4	
HRSG 2 - Body - Side 2	97.0	66.65	Area	က	1092.93	106.0	111.4	110.3						4	
HRSG 2 - Exhaust Stack	102.4	102.42	Point	0	•	117.6	123.0	116.0		_	_			. 0	
MRSG 2 - Piping and Valves	98.5	80.08	Line	0	70.44	105.6	110.0	108.9		_		_			
HRSG 2 - Stack Walls - Side 1	65.6	44.81	Area	ю	118.98	85.3	88.2	78.3	_	_					
HRSG 2 - Stack Walls - Side 2	65.6	44.90	Area	က	116.55	85.3	88.2		63.3				223 -77		
HRSG 2 - Stack Walls - Side 3	65.6	44.70	Area	ო	122.00	85.3	88.2							7	
HRSG 2 - Stack Walls - Side 4	65.6	44.55	Area	ო	126.11	85.3	88.2								
HRSG 2 - Stack Walls - Side 5	65.6	44.74	Area	က	120.89	85.3	88.2		67						
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	ო	117.59	85.3	88.2		63.3						
HRSG 2 - Stack Walls - Side 7	65.6	44.78	Area	m	119.83	85.3	88.2				_				
HRSG 2 - Stack Walls - Side 8	65.6	44.84	Area	eo	118.04	85.3	88.2						223 -77		
HRSG 2 - T1 - Sida 1	96.6	81.17	Area	၉	35.17	105.6	111.0	6.601						. 0	
HRSG 2 - T1 - Side 2	96.6	81.15	Area	က	35.32	105.6	111.0	109.9	99.0	_					
HRSG 2 - T1 - Top	96.6	82.76	Area	0	24.38	105.6	111.0			_					
HRSG 2 - T2 - Sida 1	86.6	76.25	Area	m	109.34	105.6	111.0							0	
HRSG 2 - T2 - Side 2	96.6	76.25	Area	m	109.36	105.6	111.0								
HRSG 2 - T2 - Top	56.6	80.37	Area	0	42.32	105.6	111.0		99.0					. 0	
HKSG Redirc Pump 1	93.0	93.00	Point	0		85.9	8.98	6.06	90.9 B	_	86.9			0.	
HRSG Recirc Pump 2	93.0	93.00	Point	0		85.9	6.96	6.06	90.9 E						
Isolation Transformer 1	80.0	80.00	Point	0	·	7.97	82.6	84.6	79.7	_	_	_			
Isolation Transformer 2	80.0	80.00	Point	0		7.97	82.6	9.4.6	79.7	79.7	73.6 68			9	
Rooftop Vent Fan - Admin 1	87.8	87.78	Point	0	_	95.0	95.0	91.0	87.0 8	84.0 82				0	
Rooftop Vent Fan - Admin 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0 8	84.0 82				0	
Rooftop Vent Fan - Admin 3	87.8	87.78	Point	0		95.0	95.0	0.10	87.0	84.0 82				0	
Rooftop Vent Fan - Admin 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0 8					0	
Rooftop Vent Fan - Condensate Bidg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0 82	82.0 80			0	
Rooftop Vent Fan - Condensate Bidg 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0 82		_		0	



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Clear River Energy Center - Source List Typical Shutdown Analysis - A-Weight - ISO9613

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	ØĎ.	kHz	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	24.0	81.0	81.0	81.0	109.2	109.2	109.2	109.2	109.2	55.6	53.9	52.0	59.0	55.6	55.6	53.9
İ	4	KŁŻ	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	23.0	85.0	85.0	85.0	108.2	108.2	108.2	108.2	108.2	56.6	2,0	53.0	0.09	56.6	56.6	54.9
	8	kHz	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	21.9	86.0	86.0	86.0	107.1	107.1	107.1	107.1	107.1	9.99	64.9	63.0	70.0	9.99	9.99	6,49
	-	kHz	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	10.8	87.0	87.0	87.0	98.0	0.96	0'96	96.0	96.0	73.6	71.9	70.0	77.0	73.6	73.6	71.9
	200	포	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	18.0	88.0	88.0	98.0	103.2	103.2	103.2	103.2	103.2	84.6	82.9	81.0	88.0	84.6	84.6	82.9
	250	캎	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	28.0	91.0	91.0	91.0	113.2	113.2	113.2	113.2	113.2	96.6	94.9	93.0	100.0	9.96	96.6	94.9
	125	HZ	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	27.0	91.0	91.0	91.0	112.2	112.2	112.2	112.2	112.2	103.5	101.8	99.9	106.9	103.5	103.5	101.8
	8	Ŧ		95.0	95.0	95.0	95.0	95.0		95.0	95.0	95.0	95.0	95.0	95.0		95.0			20.9			97.0	106.1	106.1	106.1	106.1	106.1	111.6	109.9	108.0	115.0	111.6	111.6	109.9
	<u>ਲ</u>	보	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	13.4	86.0	86.0	86.0	98.6	98.6	98.6	98.6	98.6	115.2	113.5	111.6	118.6	115.2	115.2	113.5
	Size	m,m																											554.75	373.57	764.72	1206.17	552.09	553.90	374.51
	KO-Wall		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ო	က	0	က	60	ო	ന
	SrcType	1 1 de 1 de 1	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Area	Area	Area	Area	Area	Area	Area
	ž		87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	29.00	93.10	93.10	93.10	114.17	114.17	114.17	114.17	114.17	64.93	64.93	59.93	64.93	64.93	64.93	64.93
	M	dB(A)	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	29.0	93.1	93.1	93.1	114.2				114.2	92.4	20.7	88.8	95.7	62.4	92.4	50.7
	S. Carrier	* 1					•		dg 1	dg 2	dg 3							dg1	dg2					•				ark F					_		
			_	N.	m	₹	IG.	ш	ressor E	ressor E	ressor E	_	CI.	m	+	ın	60	atment El	atment El					down	ᅀ	£	⊒ 2	Orains Ta	acade	Facada		Facade	acade	acade	Facada
		2,400	C Bldg	G Bldg	G Bidg	G Bldg	C Bidg	G Bldg	as Comp	as Comp	as Comp	G Bldg	G Bidg	G Bidg	G Bldg	G Bldg	G Bldg (ater Tres	ater Tres		lower 1	lower 2		Her Blow	ller Start	Blowdow	Blowdow	Turbine I	- East F	- North	-Roof	- South	- West F	- East F	- North
		Year with	Fan - C	Fan - C	Fan - C	Fan . C	Fan - C	Fan - C	Fan - G	Fan - G	Fan - G	Fan - Si	Fan - W	Fan - W		Ing Air B	Ing Air B	r Pump	- Aux Bo	- Aux Bo	HRSG	- HRSG	- Steam	e Bicg 1	e Bldg 1	e Bidg 1	e Bldg 1	e Eldg 1	e Bldg 2	e Eldg 2					
1	8	*	Rooftop Vent Fan - CTG Bldg	Rooftop Vent Fan - CTG Bldg 2	Rooftop Vent Fan - CTG Bidg 3	Rooftop Vent Fan - CTG Bldg 4	Rooftop Vent Fan - CTG Bidg 5	Rooftop Vent Fan - CTG Bldg 6	Rooftop Vent Fan - Gas Compressor Eildg	Rooftop Vent Fan - Gas Compressor Eldg	Rooftop Vent Fan - Gas Compressor Eildg 3	Rooftop Vent Fan - STG Bldg 1	Rooftop Vent Fan - STG Bidg 2	Rooftop Vent Fan - STG Bidg 3	Rooftop Vent Fan - STG Bldg 4	Rooftop Vent Fan - STG Bldg 5	Rooftop Vent Fan - STG Bldg 6	Rooftop Vent Fan - Water Treatment Eldg1	Rooftop Vent Fan - Water Treatment Eldg2	Safety Vent	Scanner Cooling Air Blower 1	Scanner Cooling Air Blower 2	Service Water Pump	Startup Vent - Aux Boller Blowdown	Startup Vent - Aux Boiler Startup	Startup Vent - HRSG Blowdown 1	Startup Vent - HRSG Blowdown 2	Startup Vent - Steam Turbine Drains Tank	Steam Turbine Bldg 1 - East Facade	Steam Turbine Bldg 1 - North Facads	Steam Turbine Bidg 1 - Roof	Steam Turbine Bldg 1 - South Facade	Steam Turbine Eldg 1 - West Facade	Steam Turbine Bidg 2 - East Facade	Steam Turbine Eldg 2 - North Facade
	Source	1	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roaf	Roof	Roof	Safet	Scan	Scan	Sev	Start	Start	Start	Stert	Start	Stea	Stea	Steal	Strai	Stera	Stea	Stea



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2	52.0	0	9	2	76.7		-		7					1 0		- rci	· 1-	ró	2	1 0	0.07
4 8 KHz KHz					77.77														_		
kHz KI					7 7													3.5	4.2	2.0	82.0
kHz k	L				82.7 8			_	_							65.5	_	65.5	81.2	84.0	84.0
200 분	Ĺ	98.0			86.7									88.0	70.2	74.5	77.7	74.5	70.2	86.0	86.0
250 Hz	93.0	100.0	96.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	7.88	98.2	98.2	91.0	84.2	88.5	91.7	88.5	84.2	0.68	89.0
125 Hz	99.9	106.9	103.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	99.1	1.66	91.0	90.2	94.5	97.6	94.5	90.2	90.0	0.06
89 포	108.0	115.0	111.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	103.2	103.2	97.0	96.2	100.5	103.6	100.5	96.1	93.0	93.0
두	111.6	118.6	115.2	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	100.8	100.8	86.0	93.2	97.5	1001	97.5	93.2	86.5	86.5
Size m,m²	764.05	1206.17	552.09	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	12.97	12.97		167.69	452.35	939.65	453.24	167.20	16.00	16.00
KO-Wall	0	m	m	က	က	ო	က	m	m	m	m	0	0	0	m	က	0	က	က	es	n
SrcType	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Point	Area	Area	Area	Area	Area	Area	Area
Lw	59.93	64.93	64.93	76.79	76.79	76.79	76.79	76.79	76.79	76.79	76.79	90.87	90.87	93.10	56.70	56.70	56.70	56.70	56.70	77.96	77.96
PWL dB(A)	88.8	95.7	92.4	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	102.0	102.0	93.1	78.9	83.3	86.4	83.3	78.9	80.0	90.0
Source Control of the	Steam Turbine Eldg 2 - Roof	Steam Turbine Bldg 2 - South Facade 1	Steam Turbine Eldg 2 - West Facade	STG Building 1 Vent Louvers - East	STG Building 1 Vent Louvers - South 1	STG Building 1 Vent Louvers - South 2	STG Building 1 Vent Louvers - West	STG Building 2 Vent Louvers - East	STG Building 2 Vent Louvers - South 1	STG Building 2 Vent Louvers - South 2	STG Building 2 Vent Louvers - West	STW Heat Exchanger 1	STW Heat Exchanger 2	Waste Water Pump	Water Treatment Building - East Side	Water Treatment Building - North Side	Water Treatment Building - Roof	Water Treatment Building - South Side	Water Treatment Building - West Side	WTB Ventilation Louvers - North Side	WTB Ventilation Louvers - South Side



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			-		3								
Source	P\ML dB(A)	PWL/unit dB(A)	Tone	Non-Sphere dB	Distance	Spreading dB	Ground Effect dB	Ins. Loss dB	Ar dB	Directivity	Reflection	SPL dB(A)	
	-											- (-)	7
Receiver M1 - Wallum Lake Road													
ACC 1 Bottom	108.0	72.7	0.0	0.0	789.6	6.89-	1.0	-2.9	-3.2	-8.3	0.0	26.7	Γ
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	
_	75.9	52.0	0.0	0.0	692.8	-67.8	-0.5	-7.2	-Q.8	0.0	0.2	0.0	-
_	76.0	52.0	0.0	0.0	704.1	-67.9	-0.5	4.3	-1.0	0.0	0.0	23	-
-	75.9	52.0	0.0	0.0	702.9	-67.9	-0.5	6.4	6.0	0.0	2,4	4.6	
- 1	75.9	52.0	0.0	0.0	705.1	-68.0	-0.5	-11.0	9.0-	0.0	0.1	0,	
	76.0	52.0	0.0	0.0	716.5	-68.1	-0.5	4.3	-1.0	0.0	0.0	2.2	
	75.9	52.0	0.0	0.0	715.4	-68.1	-0.5	4.5	6.0	0.0	2.1	0.4	
	75.9	52.0	0.0	0.0	717.5	-68.1	-0.5	-9.0	-0.7	0.0	9'0	, ,	
	83.8	72.0	0.0	0.0	8.099	-67.4	9.0	-21.2	-0.5	0:0	0:0	7.4-	
	83.8	72.0	0.0	0.0	660.7	-67.4	1.	-19.4	.55 5.55	0.0	0:0	2.3	
	83 6.0	72.0	0.0	0.0	659.0	-67.4	9.0	-20.3	-0.5	0.0	£.	-2.2	<u></u>
	83.6	72.0	0,0	0.0	0.099	-67.4	0.8	-13.1	4.0-	0.0	0.3	3.7	
	න ල:	72.0	0.0	0.0	662.6	-67.4	0.8	-20.3	4.0-	0.0	2.0	7.	
	72.6	0.69	0.0	0.0	659.4	-67.4	0.7	-13.0	-0.5	0.0	0.0	-7.5	
	72.6	0.69	0.0	0.0	659.1	-67.4	0.8	-13.0	9.5	0.0	0.2	-7.3	
	72.6	0.69	0.0	0.0	659.7	-67.4	0.8	-17.2	4.0	0:0	0.0	11.6	
	72.6	0.69	0.0	0.0	659.4	-67.4	0.8	-13.1	-0.5	0.0	0:0	7.5	
- 1	82.8	71.0	0.0	0.0	665.1	-67.4	9.0	-21.4	0.5	0.0	0.0	بن م	
_ ,	82.8	71.0	0.0	0.0	665.0	-67.4	1.2	-16.4	4.0	0.0	0.0	-0.3	-
	82	71.0	0.0	0.0	663.3	-67.4	0.8	-18.8	4.0	0.0	6.0	1.2.1	
	82.6	71.0	0.0	0.0	664.4	-67.4	0.8	-14.9	-0.4	0:0	0.4	1.1	-
- 1	82.9	71.0	0.0	0.0	6.999	-67.5	0.8	-17.9	4.0.	0.0	0.2	-1.9	
ACC 1 Dud - LF Bypass 1 ube A	71.6	0.89	0.0	0.0	663.8	-67.4	0.8	-14.7	4.0-	0.0	0.0	-10.2	
	9. L	68.0	0.0	0.0	663.4	-67.4	0.8	-14.8	4.0-	0.0	0.3	6.6-	
	9.17	68.0	0.0	0.0	664.1	-67.4	0.8	-17.4	4.0	0.0	0.0	-12.8	_
ACC 1 Dud - LP Bypass Tube D	71.6	68.0	0.0	0.0	663.7	-67.4	0.8	-13.5	4.0	0.0	0:0	-8.9	
ACC 1 Dug - Main A	93.4	72.0	0.0	0.0	655.1	-67.3	0.5	-10.4	6.0-	0.0	0.3	15.6	
ACC 1 Dug - Main B	87.7	72.0	0.0	0.0	649.9	-67.2	0.7	-23.3	9.0-	0.0	6.0	£.	
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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			İ		-	j							
Source	B(A)	PWL/unit dB(A)	AB B	Non-Sphere dB	Distance	Spreading	Ground Effect dB	Ins. Loss	₹ #	Directivity	Reflection	SPL	
							}	}	3	3	9	(V)qn	7
ACC 1 Duct - Main D	87.7	72.0	0.0	0.0	645.2	-67.2	0.7	-7.1	8 9	C	**	4.4 E	
ACC 1 Duct - Main E	85.0	72.0	0.0	0.0	648.0	-67.2	0.7	. e.	3 7	200		, å	
	84.6	72.0	0.0	0.0	651.2	-67.3	0.7	6.4	6.0	0.0	00	123	
	9	72.0	0.0	0.0	660.5	-67.4	0.8	8.8-	-0.5	0.0	0.0	14.2	
	93.4	72.0	0.0	0.0	655.0	-67.3	1.2	-8.8	-0.7	0.0	1.5	19.3	
	න න	72.0	0.0	0.0	697.2	67.9	1.0	-17.2	-0.4 4:0	0.0	e, ro	0.00	
	93.5	72.0	0.0	0.0	682.0	-67.7	0.7	-22.1	9.0	0.0	2.6	4	
	92.8	72.0	0.0	0.0	684.2	-67.7	1.4	-13.9	6. 4.	0.0	0.1	123	
	92.8	72.0	0.0	0.0	685.0	-67.7	0.9	-18.0	4.0	0.0	4.0	2	
	92.9	72.0	0.0	0.0	683.4	-67.7	0.0	-25.1	8.0	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	4.0	0.0	0.2	0.4	
ACC 1 Duct - Main S	85.2	72.0	0.0	0.0	668.4	-67.5	0.8	-18.0	4.0	0:0	ļ Į	6	
ACC 1 Duct - Riser 1 A	80.0	62.0	0.0	0.0	668.7	-67.5	-0.1	-7.3	9.0	0.0	5.0		
ACC 1 Duct - Riser 1 B	80.1	62.0	0.0	0.0	670.7	-67.5	-0.1	-10.2	9	0,0	1.0	. cc	
ACC 1 Duct - Riser 1 C	80.0	62.0	0.0	0.0	671.7	-67.5	-0.1	-15.4	4.0	0.0	0.0	10.	
ACC 1 Duct - Riser 1 D	80.1	62.0	0.0	0.0	9.699	-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 Duck - Kiser 2 B	80 1.	62.0	0.0	0.0	683.3	-67.7	-0.1	-13.1	-0.4	0.0	0.2	7.	
ACC 1 Duct - Riser 2 C	80.0	62.0	0.0	0.0	684.2	-67.7	-0.1	-15.8	4.0-	0.0	0.0	0.4	
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	9.0	2.3	
ACC 1 Duct - Riser 3 A	80.0	62.0	0:0	0.0	694.0	-67.8	-0.1	6.6-	0.5	0.0	2.8	5.5	
ACC 1 Duct - Kiser 3 B	80.1	62.0	0.0	0.0	696.1	-67.8	-0.1	-14.7	40,4	0.0	3.0	0.0	
ACC 1 Duct - Riser 3 C	80.0	62.0	0.0	0.0	0.769	-67.9	-0.1	-15.8	4.0	0:0	7.0	2.9	
ACC 1 Duck - 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 lop	109.0	72.7	0.0	0.0	0.067	-689	0.4	-6.1	-2.2	8.9	0.1	25.5	
ACC 2 Bottom	109.0	72.7	0.0	0.0	0.707	-68.0	0.7	-0.8	-2.9	-8.6	0.0	29.5	
ACC 2 Dud - 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	4.	
	75.9	52.0	0.0	0.0	773.2	-68.8	-0.4	4	-1.0	0.0	2.3	6,6	
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	4.5	
ACC 2 Duct - Finger 2 A	76.0	52.0	0:0	0.0	786.9	-68.9	4.0-	4.4	7	0.0	0.0	12	
ACC 2 Duct - Finger 2 B	75.9	52.0	0.0	0.0	785.7	-68.9	4.0-	-6.2	6.0	0.0	2.0	, r.	
ACC 2 Duct - Finger 2 C	75.9	97.0	0.0	0:0	6.787	-68.9	-0.4	-13.8	9.0	0.0	0.1	-7	
										-	-	-	



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

Scurce	IWG	DiA/I Amit	L Sup P	Non Cathorn									Γ
	dB(A)	dB(A)	9 9	dB dB	E E	Spreading	Ground Errect dB	Ins. Loss	₹ #	Directivity	Reflection	SPL	
											3	(2)	٦
ACC 2 Duct - Finger 3 A	76.0	25.0	0.0	0.0	799.4	-69.0	-0.4	4.7	-1.0	0.0	0.0	80	Γ
ACC 2 Duct - Finger 3 B	75.9	52.0	0.0	0.0	798.3	-69.0	4.0-	-6.6	6,0	0.0	2.1	2	
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	. eç	
ACC 2 Duct - HRH Bypass Bell A	83.8	72.0	0.0	0.0	7.197	-68.6	1.1	-23.6	-0.7	0.0	00	, ac	
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	6	
ACC 2 Duct - HRIH 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	9	
ACC 2 Duct - HRH Bypass Bell D	83.6	72.0	0.0	0.0	761.1	-68.6	6.1	17.7	-0.5	0.0	0.5	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	53	4.4	
ACC 2 Dud - HRH Bypass Tube A	72.6	0.69	0.0	0.0	760.5	-68.6	1.3	-18.2	-0.5	0.0	0.0	-13.4	-
ACC Z Duck - HKH Bypass Tube B	72.6	0.69	0.0	0.0	760.2	-68.6	1.3	-18.2	-0.5	0.0	9.0	-12.7	
ACC Z Duct - HRH Bypass Tube C	72.6	0.69	0.0	0.0	760.8	-68.6	1.3	-19.6	9.0	0.0	0.0	-14.9	
ACC Z Duck - MKH Bypass Tube D	72.6	0.69	0.0	0.0	760.5	9.89-	1.4	-18.4	-0.5	0.0	0.0	-13.5	-
ACC Z 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	9	
ACC 2 Duct - LF Bypass Bell B	82.8	71.0	0.0	0.0	766.0	-68.7	1.6	-25.7	6.0	0.0	0.0	-10.9	
ACC Z Duct - LP Bypass Bell C	82.9	71.0	0.0	0.0	764.3	-68.7	1,3	-22.1	9.0	0.0	1.3	5.9	
ACC Z Duct - LF 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 & Duct - LP Bypass Bell E	82.5 62.5	Z-0.	0.0	0.0	6'292	-68.7	1,4	-20.9	9.0	0.0	0.0	-6.0	_
ACC 2 Duck - 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 Z Duct - LP Bypass Tube B	71.6	089	0.0	0.0	764.6	-68.7	1.3	-18.5	-0.5	0.0	0.7	-14.0	
ACC Z Duct - LP Bypass Tube C	71.6	0.89	0.0	0.0	765.3	-68.7	6.7	-19.6	9.0	0.0	0.0	15.8	
ACC 2 Duct - LP Bypass Tube D	71.6	0.89	0.0	0.0	764.9	-68.7	1.4	-18.6	-0.5	0.0	0.0	-14.8	
Acc 2 Duct - Mail A	89.2	72.0	0.0	0.0	748.9	-68.5	6.0	-15.6	-0.5	0.0	0.3	8,0	
ACC Z 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	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	
TO CONTRACT OF THE PARTY OF THE	90 0.	72.0	0.0	0.0	748.3	-68.5	1.3	-11.2	-0.5	0.0	0.7	5.4	
ACC 2 Duct - Main F	84.2 2.2	72.0	0:0	0.0	751.2	-68.5	1.3	-14.3	-0.5	0.0	5,	3.4	
ACC Z Dugt - Main H	89.2	72.0	0.0	0.0	748.8	-68.5	1.6	-24.6	-0.8	0.0	9.0	-2.6	
ACC 2 Duct - Main M	98 9.	72.0	0.0	0.0	782.8	-68.9	1.3	-19.2	0.5	0.0	0.0	2.5	
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	. 14	
ACC 2 Duct - Main O	87.8	72.0	0.0	0.0	770.3	-68.7	1.3	-18.6	5.5	0.0	0.3	. E	
ACC 2 Duct - Main P	92.8	72.0	0.0	0.0	769.6	-68.7	1.6	-24.9	8,0	0.0	6.0		
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	9 6	
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													1
Saure	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Ą	Directivity	Reflection	SPL	Г
	dB(A)	dB(A)	쁑	g G	E	dB	8	ę	8	8	뜅	dB(A)	_
													1
ACC 2 Duct - Main R	85.2	72.0	0.0	0.0	753.7	-68.5	1.3	-23.9	20.7	0	20	4.8	Γ
ACC 2 Duct - Main S	92.9	72.0	0.0	0.0	768.9	-68.7	6.	-24.0	9	2 5	2.0	2 5	
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	14	- K	
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	2.6	
ACC 2 Duct - Riser 1 C	80.0	62.0	0.0	0.0	756.4	-68.6	0.1	-16.0	Ö.	0.0	00	. K	
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	2 7	2 00	
ACC 2 Duct - Riser 2 A	80.0	62.0	0.0	0.0	766.2	-68.7	0.1	-10.8	9,0	0.0	80	9 6	
ACC 2 Duct - Riser 2 B	80.1	62.0	0.0	0.0	768.2	-68.7	0.1	-15.4	Ć Ü	0.0	0.2	5 4	
ACC 2 Duct - Riser 2 C	80.0	62.0	0.0	0.0	769.2	-68.7	0.1	-17.6	Ď	0.0	00	1 2	
ACC 2 Duct - Riser 2 D	80.1	62.0	0.0	0.0	767.2	-68.7	0.1	-11.4	9.0	0.0	0.7	0.5	
ACC 2 Duct - Riser 3 A	80.0	62.0	0.0	0.0	779.1	-68.8	0.1	-11.2	9.0-	0.0	6.0	3,5	
ACC 2 Duct - Riser 3 B	60.1	62.0	0.0	0.0	781.1	-68.8	0.1	-16.1	0.5	0.0	6.0	0.15	
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	
ACC 2 Duct - Riser 3 D	20.	62.0	0.0	0.0	780.1	-68.8	0.1	-13.3	9.0	0.0	0.5	. ru	
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	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	0.0	72.9	0.0	0.0	645.5	-67.2	1.8	9.5	-2.2	0.0	8.0	26.2	
All Process Sign 2	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	4	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	7.0-	
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 Skip 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	
Animonia injection Skig 2	86 -	98.1	0.0	0.0	6.609	-66.7	2.5	-5.2	-5.2	0.0	3.4	26.8	
Aux Boller Building - East Side	0.88	6 4.3	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 Baller Bullaing - Roof	91.9	64.3	0.0	0.0	688.2	-67.7	9.0	-5.5	-0.5	0.0	9.0	19.3	
Aux Boller Building - South Side	28.5	64.3	0.0	3.0	690.1	-67.8	1.2	-10.2	-0.3	0.0	0.3	14.9	
Aux Boller Building - West Side	88.0	2 2	0.0	3.0	701.0	-67.9	1.3	-15.5	6.3	0.0	3.3	11.9	
Aux coller 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 Boller Building Vent Louvers - South	86.0	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	6.0	0.0	0.3	5.7	
Aux Boller FD Fan Injet	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 Boller 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	7.17.7	-68.1	2.2	-26.8	4.0	0.0	3,5	တ	
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Source	W.d	DVA! Amit	Tone	Mon-Suhara	Separation C		i i					-	
	dB(A)	dB(A)	8	8	B E	dB	Ground Enect	dB	¥ 8	Directivity	Reflection dB	SPL dB(A)	
												-	7
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	9	Γ
Aux Transformer 1 - Side 3	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	5.3	0.0	3	2. 4	
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	9.4	- 00	
Aux Transformer 1 - Top	82.0	6.99	0.0	0.0	716.9	-68.1	2.0	-24.8	-1.3	0.0	, c,	2.5	
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	9 60	117	
Aux Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	-6.1	6.	0.0	0,1	, Ç	
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	4.8-	4.1-	0.0	, eq	5 6	
Aux Transformer 2 - Side 4	87.0	70.2	0.0	3.0	619.7	-66.8	1,8	-17.2	0.1.	0.0) e	5 5	
Aux Transformer 2 - Top	82.0	6.9	0.0	0.0	616.7	-66.8	1.3	0.9-	-1.7	0.0	2.8	1 2	
8FW Pump Enclosure 1-Side 1	<u>9</u>	76.9	0.0	3.0	758.0	-68.6	1.7	-25.4	-0.7	0.0	0.0	44	
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	00	
BFW Pump Enclosure 1-Side 3	<u>왕</u>	6.97	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0) I	
BFW Pump Enclosure 1-Side 4	97.2	6.92	0.0	3.0	762.3	-68.6	1.7	-25.4	-0.7	0.0	0.0	22	
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	5	11.7	
BFW Pump Enclosure 2-Side 1	9 4.4	76.9	0.0	3.0	654.3	-67.3	rč,	-22.7	-0.5	0.0	0.0	4	
Brw Pump Enclosure 2-Side 2	97.2	76.9	0.0	3.0	643.1	-67.2	1.5	-22.3	-D.4	0.0	0.8	12.7	
Brw Pump Encosure 2-Side 3	9 4.4	6.92	0.0	3.0	646.8	-67.2	1.5	-23.5	-0.5	0.0	6	16.9	
Brw Pump Enclosure 2-Side 4	97.2	6.9	0.0	3.0	8.759	-67.4	1.6	-25.3	9.0	0.0	0.0	55	
BFW Pump Encosure 2-Top	103.4	6.9	0.0	0.0	650.5	-67.3	1.	-20.3	4.0	0.0	0.8	17.4	
Condensate Equipment Bidg 1 - East Side	7.7.	56.7	0.0	3.0	745.5	-68.4	1.9	-7.0	9.0-	0.0	0.0	5.7	
Condensate Equipment Bldg 1 - North Side	75.2	26.7	0.0	3.0	747.4	-68.5	1.9	-18.8	-0.3	0.0	0.7	80,	
Condensate Equipment Bldg 1 - Roof	78.0	51.7	0.0	0.0	752.7	-68.5	1.6	-7.8	9.0	0.0	0.1	2.8	
Condensate Equipment Bidg 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 Bidg 1 - West Side	17.7	26.7	0.0	3.0	759.8	9.89-	1.9	-18.3	4.0	0.0	1.1	-3.5	
Condensate Equipment Bidg 2 - East Side	77.7	26.7	0.0	3.0	662.8	-67.4	1.6	0.9-	9.0-	0.0	0.0	60	
Condensate Equipment Bidg 2 - North Side	75.2	26.7	0.0	3.0	664.0	-67.4	1.6	- 6 .1	9.0-	0.0	0.0	5.7	
Condensate Equipment Bidg 2 - Roof	78.0	21.7	0.0	0.0	669.8	-67.5	1.0	-5.6	-0.5	0.0	0.0	5.4	
Condensate Equipment Bidg 2 - South Side	75.2	26.7	0.0	3.0	675.9	-67.6	1.7	-10.2	-0.3	0.0	0.0	1.7	
Condensate Equipment Bidg 2 - West Side	7.77	26.7	0.0	3.0	676.8	-67.6	1.7	-13.0	-0.3	0.0	0.0	r.	
CIG 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	
CIG 2 - 1 urbine 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	
CIG 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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Course	3	7											
90,000	dB(A)	dB(A)	<u>8</u> 8	Non-Sphere dB	Distance	Spreading	Ground Effect dB	Ins. Loss	₹ 8	Directivity	Reflection	SPL	
											3	(v)	٦
CTS Air Inlet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	00	0.0	V 0	Γ
CTG Air Inlet Duct 1 - North	99.9	84.4	0.0	0.0	750.4	-68.5	2.7	-25.3	2.8	2 0	, t-	t 6	
CTG Air Inlet Duct 1 - South	99.6	84.4	0.0	0.0	752.0	-68.5	2.7	-26.1	33	00	5 6	5 70	
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	. w	
CTG Air Inlet Duct 2 - North	6.06	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	0	100	
CTG Air Inlet Duct 2 - South	6. 6. 6. 6.	84.3	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	7.4	
CTG Air Inlet Duct 2 - Top	6.06	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	-3.6	0.0	6.0		
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	9 0.	64.7	0.0	3.0	727.6	-68.2	0.8	-6.7	-0.3	0.0	0.0	2	
CTG Building 1 - Roof	88.8	29.7	0.0	0.0	733.1	-68.3	-0.1	4.7	-0.4	0.0	0.5	16.6	
C.G. Bulloing 1 - West Facade	5.7	64.7	0.0	3.0	746.3	-68.5	0.8	-17.6	6.3	0.0	0.0	12.6	
Ci & Building 1 Vent Louvers - East	9.6	77.0	0.0	3.0	719.5	-68.1	<u>~</u>	-6.6	-2.6	0.0	0.0	17.0	
CTG Building 1 Vent Louvers - North	9.68	77.0	0.0	3.0	719.5	-68.1	6.1	-14.1	-1:1	0.0	0.5	11.2	
C1G 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 Z - 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	
C.C. Building 2 - North Facade	96.0	64.7	0.0	3.0	624.3	-66.9	9.0	9.1-	-0.3	0.0	0.0	28.5	
CTG Building 2 - Roof	O; O; O;	59.7	0.0	0.0	630.5	-67.0	0.0	9.7	-0.3	0.0	0.0	17.9	
C.C. Building 2 - West Facade	95.1	7.	0.0	3.0	643.6	-67.2	0.5	-14.5	-0.2	0.0	0.0	16.7	
CIG Building 2 Vent Louvers - East	99. 19 99. 19	7.0	0.0	3.0	617.4	-66.8	1.5	-0.1	-5.4	0.0	0.0	87.	
C. G. Building Z Vent Louvers - North	90.6	77.0	0.0	3.0	616.4	-86.8	1,5 1,5	6.1	-5,4	0.0	1.4	23.2	
CIG Building 2 Vent Louvers - West	9.08	0.77	0.0	3.0	639.7	-67.1	7.5	-20.4	-1.6	0.0	0.0	6.0	
Cernin water Pump	5.0	- CO	0.0	0.0	675.5	-67.6	3.1	-24.9	-5.0	0.0	0.5	2.2	
	95.0	92.0	00	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	2.8	5.4	
Duct burner skip 2	95.0	95.0	0.0	0.0	613.7	-66.8	2.5	-3.6	-3.8	0.0	د هن	25.2	
cinergency Diesal Generator - Side 1	2.5	-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	-3.9	0.0	2.1	ري ش ش	
Emergency Diesal Generator - Side 2	65	9.7-	0.0	3.0	680.2	-67.6	3.3	-28.2	8.0	0.0	5.	63.0	
criterior Dieser Generator - Lop	8.7	ထု	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	8.48	
Extragalon Transformer 1	80.0	80.0	O.	0.0	718.7	-68.1	2.2	-24.5	-1,3	0.0	2.8	6	
Excusion iransiomer 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	
rite Pump Building - Koot	4	-23.3	0.0	0.0	630.7	-67.0	1.2	-5.5	-0.5	0.0	0.0	-76.0	
rice Pump Building - Side 1	-5.7	-23.3	0.0	3.0	633.9	-67.0	89.	11.8	-0.3	0.0	0.0	-80.1	
rire Pump Building - Side Z	φ. rύ.	-23.3	0.0	3.0	631.3	-67.0	1.8	9.6	4.0	0.0	0.0	7.77-	



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Source	Md	DWI Annii	Tone	Non-Suhere	Dietana	Campadia	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						Γ
	dB(A)	dB(A)	8	8	B E	G AB	de de de de de de de de de de de de de d	dB	₹ 8	dB dB	Ketlection	SPL dB(A)	
												/ / /	٦
Fire Pump Building - Side 3	-5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-8.4	-0.5	0.0	00	-74.9	Γ
Fire Pump Building - Side 4	6.5	-23.3	0.0	3.0	630.0	-67.0	8.1	-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	9.8	0.0	0.0	7.6	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	645.0	-67.2	3.0	-26.6	جن 1.	0.0	0.0	0.	
Fuel Gas Performance Heater 2	93.0	93.0	0.0	0.0	748.2	-68.5	3.2	-28.0	4	0.0	0.0	4	
Gas Afteccoler 1	101.0	84.0	0.0	0.0	806.0	-69.1	3.2	-27.6	6,5	0.0	0.0	3.6	
Gas Affeccoler 2	101.0	83.9	0.0	0.0	809.0	-69.2	3,2	-27.7	0.4	0.0	0.0	3.4	
Gas Compressor Bidg 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 Bidg Louvers - N	105.7	98.0	0.0	3.0	790.8	0.69-	2.9	-27.3	3.3	0,0	0.0	12.0	
Gas Compressor Bidg Louvers - S	105.7	98.0	0.0	3.0	791.0	0.69-	2.9	-27.6	-3.6	0.0	0.0	1.6	
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	T.	
Gas Compressor Building - East Side	96	7.92	0.0	3.0	784.1	6.89-	1.7	-16.1	6.3	0.0	0.0	18.5	
Gas Compressor Building - North Side	97.5	7.97	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	7.92	0.0	0.0	791.0	-69.0	1.2	-17.7	-0.4	0.0	0.0	12.1	
Gais Compressor Building - South Side	97.5	7.97	0.0	3.0	793.2	0.69-	1.7	-19.5	-0.3	0.0	0.0	13.4	
Gais Compressor Building - West Side	99.1	7.97	0.0	3.0	97.6	-69.0	1.7	-21.3	-0.4	0.0	0.0	13.1	
GSU 1 - Side 1	0.46	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	4.	4.2	
GSU 1 - Side 2	9,0	78.0	0.0	3.0	714.6	-68.1	2.1	-25.1	-1.5	0.0	0.5	4.7	
GSU1 - Side 3	94.0	7:57	0.0	3.0	720.1	-68.1	2.1	-26.3	1.6	0.0	1 10	. 4	
GSU 1 - Side 4	94.0	78.0	0.0	3.0	728.5	-68.2	2.1	-26.5	6.	0.0	2.5	5.2	
GSU 1 - Top	94.0	72.9	0.0	0.0	721.4	-68.2	89:	-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	8	78.0	0.0	3.0	615.0	-66.8	1.2	-1.9	-2.6	0.0	0.0	27.0	
GSU Z - Side 3	%	7.5.7	0.0	3.0	620.1	-66.8	ქ.6	-6.8	-2.1	0.0	0.5	23.3	
GSU 2 - Side 4	8	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	9.99	0:0 0:0	3.0	730.9	-68.3	0.7	-16.6	-0.4	0.0	0.0	5.55	
	0.76	9.99	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	
HKSG 1 - Piping and Valves	98 2.5	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	89.0	- 0.1	0.0	0.0	1.5	



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Science	TW CO	DAAM Assets		New Section									Γ
	dB(A)	dB(A)	9 9	Non-Spreie dB	DE GENCE	Spreading dB	Ground Effect dB	Ins. Loss dB	₩ ₩	Directivity	Reflection dB	SPL dB(A)	
												7.3	
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	90	Г
	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	0.5	0.0	0.0	- 25	
	92.6	44.6	0.0	3.0	720.4	-68.1	2.0	-3.7	0.2	0.0	0.0	1.00	
	65.6	44.7	0.0	3.0	722.6	-68.2	2.0	4.4	0.2	0.0	0.0	-2.2	
	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	-6.2	0.	0.0	0.0	9.0	
4-	65.6	8.4	0.0	3.0	724.7	-68.2	2.0	-6.9	6.7	0:0	0.0	7.4	
_	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	δ. rü	-0.2	0.0	0.0	رث دن	
_	90.0	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	-0.4	0.0	0,5	15.1	
	9.96	81.2	0.0	3.0	727.2	-68.2	1.6	-11.1	-0.4	0.0	0.1	22.6	
	9.96	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	0.0	2.1	18.0	
HRSG 1 - 72 - Side 1	99.0	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	98.6	76.2	0.0	3.0	725.7	-68.2	1.0	6.3	4.0-	0.0	0.0	23.8	
HRSG 1 - T2 - Top	99.6	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	9.99	0.0	3.0	626.6	-66.9	0.4	-15.8	6.3	0.0	0.0	17.5	
HRSG 2 - Body - Side 2	97.0	9.99	0.0	3.0	616.2	-66.8	0.5	5,1	-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	6.3	-3.6	0.0	33.4	
HRSG 2 - Piping and Valves	98.5	90.1	0.0	0.0	640.8	-67.1	0.2	-13.2	-0.5	0.0	2.7	50.6	
HRSG 2 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	616.7	-66.8	1.9	9.0	Ġ.	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	23	
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	82.6	44.6	0.0	3.0	615.5	-66.8	1.9	5.1-	-0.2	0.0	0.0	2.2	
HRSG 2 - Stack Walls - Side 5	65.6	7.74	0.0	3.0	617.8	-66.8	1.9	4.	٠ <u>.</u>	0.0	0.0	o,	
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	-2.0	-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	
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	99.0	81.2	0.0	3.0	624.0	-66.9	1.2	-3.9	-0.9	0.0	2.0	31.2	
HRSG2 - T1 - Top	98.6	82.8	0.0	0.0	627.9	6.99-	0.7	-5.4	-0.4	0.0	2.4	27.0	
HRSG 2 - T2 - Side 1	9.96	76.2	0.0	3.0	631.1	-67.0	9.0	-12.3	.O.3	0.0	0.1	20.8	
KRSG 2 - T2 - Side 2	9.96	76.2	0.0	3.0	622.3	6.99-	0.7	6,1-	-0.7	0.0	7.0	31.6	
HRSG 2 - 12 - Top	99.	80.4	0.0	0.0	627.4	-86.9	0.0	0.9	9.0-	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	PWI	PWL/unit	Tone	Non-Sphere	Dietance	Spreading	Consind Effort	and and	1	Polar of the			
	dB(A)	dB(A)	g B	8	ε	gp GB	dB B	CB CB	₹ 8	dB dB	renection dB	dB(A)	
									-				7
HRSG Redric Pump 2	0.8 0.0	93.0	0.0	0.0	606.4	-66.6	2.8	-7.3	-3.6	0,0	2.2	20.6	Γ
Isolation Transformer 1	80.0	80.0	0.0	0.0	7.03.7	67.9	2.1	-25.4	65,	0,0	10	6	
solation 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	
Roottop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	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	13.0	
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	4	0.7	
Rooftop Vent Fan - Condensate Bldg 2.	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	2.0	rç.	0.0	0.0	5 5	
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	
Roottop 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	18.0	
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	00	13.0	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.8	0.0	0.0	627.4	69.9	2.7	-0.7	9	0.0		1 8	
Rooftop Vent Fan - CTG Bidg 6	87.8	87.8	0.0	0.0	622.8	6.99-	2.7	9.0	0.	0.0	0.0	18.8	
Rooftop Vent Fan - Gas Compressor Eldg 1	87.8	87.8	0.0	0.0	790.3	68.9	3.1	-17.9	ا	0.0	0.0	2.7	
Rooftop Vent Fan - Gas Compressor Eldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	3.1	-18.6	-1.5	0.0	0.0	6	
Rooftop Vent Fan · Gas Compressor Eldg 3	87.8	87.8	0.0	0.0	793.1	0.69-	3.1	-18.3	-1.5	0.0	0.0	2.2	
Roottop 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	
Roottop Vent Fan - STG Bldg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	4	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	
Roomop Vent Fan - STG Bidg 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	
Roottop Vent Fan - STG Bidg 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	
Roomop Vent Fan - STG Bidg 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	
Moontop Vent Fan - Water Treatment Eldg1	87.8	87.8	0.0	0.0	700.5	67.9	3.0	-7.7	-3.0	0.0	0.0	12.1	
Roompy 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	
Salety vent	20	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	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	
Steirtup Vent - Aux Boller Blowdown	114.2	114.2	0.0	0.0	680.1	9'29-	1.3	0.0	-8.4	-8.0	0.0	31.51	
Startup Vent - Aux Boiler Startup	114.2	114.2	0.0	0.0	683.5	-67.7	1.3	0:0	4.8-	8.0	0.0	31,4	
										-	-	-	



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Source	dB(A)	PWC/unit dB(A)	Tone dB	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	¥ 4	Directivity	Reflection	SPL 456	
			-			}		3	3	9	9	(A)an	
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	20	22.0	ſ
Startup Vent - HRSG Blowdown 2	114.2	114.2	0.0	0.0	713.7	-68.1	£.	0.0	: eç	1,70	90	3.4.7	
Startup Vent - Steam Turbine Drains Tank	114.2	114.2	0.0	0.0	653.9	-67.3	2.6	0,1	9	9.8	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 Bidg 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 Facada	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	4	-18.3	6.	0.0	0.0	4.0	
Steam Turbine Bldg 2 - East Facede	92.4	64.9	0.0	3.0	626.1	-66.9	6.0	-1.0	4.0-	0.0	0.0	28.0	
Steam Turbine Bldg 2 - North Facade	20.7	64.9	0.0	3.0	655.2	-67.3	1.0	-10.1	-0.2	0.0	0.0	17.0	
Steam Turbine Bidg 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 Bidg 2 - South Facade 1	95.7	64.9	0.0	3.0	647.9	-67.2	6.0	-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	4.1-	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	7.0	0.0	
ST3 Building 2 Vent Louvers - East	89.3	76.8	0.0	3.0	625.6	6.99-	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	622.9	-67.4	÷	-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	Į.	-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	Ę	
STW Heat Exchanger 1	102.0	6.06	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	80.8	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	3.5	
Weste Water Pump	83.1 T	93.1	0.0	0.0	669.7	-67.5	3.1	-25.8	-2.3	0.0	0.0	0.5	
Water I reatment Building - East Side	78.9	56.7	0.0	3.0	8.099	-67.4	7.5	-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	 	4. 15.	-0.5	0.0	0.0	15.1	
Water Treatment Building - Roof	86.4	56.7	0.0	0.0	685.7	-67.7	6.0	-5.6	9.0-	0.0	0.0	13.5	
Water Treatment Building - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	1 .	-14.9	-0,3	0.0	0.0	8.4	
Water Treatment Building - West Side	9.0	56.7	0.0	3.0	711.6	-68.0	9.1	-18.1	-0.3	0.0	0.0	0.0	
WTB Ventilation Louvers - North Side	0.08	78.0	0.0	3.0	679.3	-67.6	2.6	di Si	ئة. 1.	0.0	0.0	19.6	
WTB Ventilation Louvers - South Side	0.06	78.0	0.0	3.0	693.0	-67.8	2.6	-22.9	-2.1	0.0	0.0	2.9	
													Ī



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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

1	50.2	50.0	44.5	44.4	41.1
Name of the second seco	Vallum Lake Road	M2 - Jackson Schoolhouse Road (East)	M3 - Doe Crossing Drive	M4 - Buck Hill Road	M5 - Jackson Schoolhouse Road (South)



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

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ħ		-26.1		L		L		L		L
8kHz										
4kHz		26.7		13.9		-3.1		-7.0		-27.2
2kHz		41.9		35.3		29.5		28.2		47.4
1kHz		38.9		37.6		32.6		33.3		25.8
200Hz		44.2		46.7		39.8		39.3		36.6
250Hz		54.1	ed (East)	54.0		49.4		48.9	(South)	45.6
125Hz	re Road	59.4	hoolhouse Ro	59.6	ng Drive	53.8		54.0	Receiver M5 - Jackson Schoolhouse Road (South)	51.4
63Hz	- Wallum Lak	64.5	- Jackson Sc	66.3	- Doe Crossii	60.0	- Buck Hill Re	61.2	- Jackson Sc	58.6
31Hz	Receiver M1 - Wallum Lake Road	67.0	Receiver M2 - Jackson Schoolhouse Road (East)	9.69	Receiver M3 - Doe Crossing Drive	62.6	Receiver M4 - Buck Hill Road	62.7	Receiver ME	61.8



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. ,	PRACE					7		H	H	-		_		
	¥	ž	arc. lype	KO-Wall	929	<u>.</u>	83		250 5	200	~	4	Φ	
3 3 4 4 4 4 4 4 7	dB(A)				m,m²	걒	ΗZ	۲z	Hz F	Hz KHz	ZHX 2	컆	KHZ	
ACC 1 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3 10	106.9 104.3	L	93.0	86.9	
ACC 1 Duct - Finger 1 A	89 6 6	99.00	Area	0	247.24	107.5	103.2	99.1	93.7	88.3 78.0	0 72.8	_		
ACC 1 Duct - Finger 1 B	89.9	66.00	Area	0	245.91	107.4	103.2	1.66	93.6	88.2 78.0			_	
ACC 1 Duct - Finger 1 C	6.68	00.99	Area	0	245.91	107.4	103.2	99.1	93.6	88.2 78.0				
ACC 1 Duct - Finger 2 A	90.0	66.00	Area	0	249.06	107.5	103.3	296.2	93.7	88.3 78.1	_			
ACC 1 Duct - Finger 2 B	89.9	66.00	Area	0	245.91	107.4	103.2	1.66		88.2 78.0	•			
ACC 1 Duct - Finger 2 C	89.8	66.00	Area	0	245.91	107.4	103.2	1.66		88.2 78.0	_			
ACC 1 Duct - Finger 3 A	90.0	66.00	Area	0	250.50	107.5	103.3	99.2		88.3 78.1	_			
ACC 1 Duct - Finger 3 B	89.9	99.00	Area	0	245.91	107.4	103.2	99.1	93.6	88.2 78.0	_	_		
ACC 1 Duct - Finger 3 C	69.9	66.00	Area	0	245.91	107.4	103.2			88.2 78.0				
ACC 1 Duct - HRH Bypass Bell A	89.8	88.00	Area	0	15.17	117.3	113.1	_		98.1 87.9		_		
ACC 1 Duct - HRH Bypass Bell B	89.8	88.00	Area	0	15.18	117.3	113.1	100.00	103.5	98.1 87.9				
ACC 1 Duct - HRH Bypass Bell C	863	88.00	Area	0	15.37	117.4	113.2	109.1	103.6	98.2 88.0				
ACC 1 Duct - HRH Bypass Bell D	9 0 .6	88.00	Area	0	14.54	117.2	112.9	108.8	103.3	98.0 87.7				
ACC 1 Duct - HRH Bypass Bell E	89.0 80.0	88.00	Area	0	15.34	117.4	113.1	109.1	103.6	98.2 88.0		3 72.0	-5.9	
ACC 1 Duct - HRH Bypass Tube A	88.6	85.00	Area	0	2.28	106.1	101.9	87.8	92.3	86.9 76.7			'	
ACC 1 Duct - HRH Bypass Tube B	88.6	85.00	Area	0	2.29	106.1	101.9	97.8		86.9 76.7	_			
ACC 1 Duct - HRH Bypass Tube C	99 99 99	85.00	Area	0	2.29	106.1	101.9	97.8	92.3	86.9 76.7		5 60.7		
	88.6	85.00	Area	0	2.28	106.1	101.9	87.8	92.3	86.9 76.7	_	5 60.7		
	94.8	83.00	Area	0	15.17	112.3	108.1	104.0	98.5	93.1 82.9	_			
ACC 1 Duct - LP Bypass Beil B	87.8	83.00	Area	0	15.18	112.3	108.1	104.0	98.5	93.1 82.9	9 77.7	6.99		
	94.9	83.00	Area	0	15.37	112.4	_	104.1	98.6	93.2 83.0	0 77.8	9 67.0	-10.9	
	9.0	83.00	Area	0	14.54	112.2				93.0 82.7	7 77.5	5 66.7	-11.2	
	94.9	83.00	Area	0	15.34	112.4	_	104.1		93.2 83.0	0 77.8	9 67.0	-10.9	
ACC 1 Duct - LP Bypass Tube A	83.6	80.00	Area	0	2.30	101.2	6.96			81.9 71.7		55.7	-22.2	
ACC 1 Duct - LP Bypass Tube B	83.6	80.00	Area	0	2.30	101.2	6.96		87.3 8.	82.0 71.7		5 55.7		
ACC 1 Duct - LP Bypass Tube C	83.6	80.00	Area	0	2.30	101.2	6.96	92.8	87.4 8	82.0 71.7		55.7		
ACC 1 Duct - LP Bypass Tube D	83.6	80.00	Area	0	2.30	101.2	6.96	92.8	87.3 8	81.9 71.7	7 66.5	55.7		
ACC 1 Duct - Main A	107.4	86.00	Area	0	136.57	124.9	120.6	116.5 1	111.1 10	105.7 95.4	4 90.2	79.5	1.6	
ACC 1 Duct - Main B	101.7	96.00	Area	0	37.17	119.2	115.0	110.9	105.4 10	100.0		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 10	103.4 93.2	2 88.0			
ACC 1 Duct - Main D	101.7	86.00	Area	0	37.41	119.3	115.0	110.9	105.5 10	100.1 89.8	8 84.6		4	
ACC 1 Duct - Main E	99.0	86.00	Area	0	19.86	116.5	112.3	108.2	102.7 9	97.3 87.1	1 81.9		8.9	



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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Source Source ABO	<u>}</u>	SrcTybe	KO-Wall	Size	ल	83	125	250	900		~	4	
		1 1 1 1 1 1							-				
	. 0	,		m,m²	¥	Ž	보	Ŧ	캎	KHZ	N	艾	kHz
	6 86.00	Area		18.21	116.1	111.9	107.8	102.3	6.96	86.7	21.5	24	2.7.2
	1 86.00	Area	0	81.62	122.7		_		103.4			77.2	7.0
	4 86.00) Area	0	136.57	124.9	120.6	_	<u> </u>				79.5	
_		Area	0	19.41	116.4							71.0	0.00
		Area	0	142.12	125.1	120.8	116.7		105.9			9.62	1.7
	8 86.00	Area	0	120.75	124.4	120.1	116.0	110.5	105.1		_	78.9	100
ACC 1 Duct - Main P 106.8	86.00	Area	0	121.31	124.4	_			-			0.62	, C
ACC 1 Duct - Main Q 106.9	86.00	Area	0	121.95	124.4		_					0.62	; -
ACC 1 Duct - Main R 99.4	4 86.00	Area	0	21.64	116.9						_		- 4
ACC 1 Duct - Main S 99.2	2 86.00	Area	0	21.04	116.8								; w
ACC 1 Duck - Riser 1 A S4.0	0 76.00	Area	0	63.74	111.6								, t.
ACC 1 Duct - Riser 1 B 94.1	1 76.00	Area	0	64.21	111.6		103.3						-11.7
ACC 1 Duct - Riser 1 C 94.0	0 200	Area	0	63.57	111.6	_	103.2						000
	1 76.00	Area	0	64.39	111.6		103.3			_			-11.7
	0 26.00	Area (0	63.74	111.6		103.2						Z +
ACC 1 Duct - Riser 2 B 94.1		Area	0	64.21	111.6		103.3						-11.7
		Area	0	63.56	111.6	107.3	103.2		_				-
2D		Area	0	64.39	111.6	107.4	103.3		_				-11.7
	0 16.00	Area	0	63.74	111.6	107.3	103.2		_				11.8
	1 76.00	Area	0	64.20	111.6		103.3						-11.7
ACC 1 Duct - Riser 3 C 94.0	0 76.00	Area	0	63.58	111.6		103.2						
t - Riser 3 D	1 76.00	Area	0	64.39	111.6		103.3						11.7
ACC 1 Top 109.0		Area	0	4228.07	110.0				_		_		0
ACC 2 Bottom 109.0	0 72.74	Area	0	4226.63	110.0				_				5.00
ACC 2 Duct - Finger 1 A 89.9			0	247.24	107.5								25.5
ACC 2 Duct - Finger 1 B 89.9	8 66.00	Area	0	245.91	107.4	103.2	99.1					_	15.0
ACC 2 Duct - Finger 1 C 89.9			0	245.91	107.4	103.2	99.1			_			0.51
	0 66.00	Area	0	249.06	107.5	103.3	99.2						2. c. c. c. c. c. c. c. c. c. c. c. c. c.
ACC 2 Duct - Finger 2 B 89.9	9 66.00	Area	0	245.91	107.4	103.2	99.1			_			25.5
ACC 2 Duct - Finger 2 C 89.9	9 66.00	Area	0	245.91	107.4	103.2	99.1		_	_			20.00
ACC 2 Duct - Finger 3 A 90.0	0 66.00	Area	0	250.50	107.5	103.3	99.2						, r.
		Area	0	245.91	107.4	103.2	99.1		_	_			0 00
ACC 2 Duct - Finger 3 C 89.9	9 66.00	Area	0	245.91	107.4	103.2	99.1		_	_	72 B		0 45



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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	PWL	3	SrcType	KO-Waff	Size	34	83	125	250	200	-	-	4	ox
· · · · · · · · · · · · · · · · · · ·	dB(A)				m,m²	Hz	Ź	보	_		· 사	N	Z Ł Ł	XHX
ACC 2 Duct - HRH Bypass Bell A	99.8	88.00	Area	0	15.18	117.3	113.1	108.0	103.5	98.1 8	87.9	L	6.1	-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 8		82.7	71.9	-6.0
ACC 2 Duct - HRH Bypass Bell C	666	88.00	Area	0	15.37	117.4	113.2	109.1	103.6	98.2 8	88.0 8			-5.9
ACC 2 Duct - HRH Bypass Bell D	93.6	88.00	Area	0	14.54	117.2	112,9	108.8	103.4	98.0	87.7			-6.2
ACC 2 Duct - HRH Bypass Bell E	6.66	88.00	Area	0	15.34	117.4	113.1	109.1	9.501	98.2 8	88.0 8			-5.9
ACC 2 Duct - HRH Bypass Tube A	83.6	85.00	Area	0	2.30	106.2	101.9	8.76	92.3	87.0 7				-17.2
ACC 2 Duct - HRH Bypass Tube B	88.6	85.00	Area	0	2.30	106.1	101.9	8.76		86.9				-17.2
ACC 2 Duct - HRH Bypass Tube C	83.6	85.00	Area	0	2.30	106.2	101.9	8.76		86.9				-17.2
ACC 2 Duct - HRH Bypass Tube D	88.6	85.00	Area	0	2.30	106.2	101.9					_		-17.2
ACC 2 Duct - LP Bypass Bell A	94.8	83.00	Area	0	15.18	112.3	108.1			_	_			-11.0
ACC 2 Duct - LP Bypass Bell B	94.8	83.00	Area	0	15.18	112.3	108.1			93.1 8				-11.0
ACC 2 Duct - LP Bypass Bell C	94.9	83.00	Area	0	15.37	112.4	108.2	104.1		93.2 8	_		- 0.29	-10.9
ACC 2 Duct - LP Bypass Bell D	94.6	83.00	Area	0	14.54	112.2	107.9			93.0	_			-11.2
ACC 2 Duct - LP Bypass Bell E	94.9	83.00	Area	0	15.34	112.4	108.1	104.1		93.2 8				-10.9
ACC 2 Duct - LP Bypass Tube A	83,6	80.00	Area	0	2.31	101.2	6.96		_	82.0 7	_			-22.2
ACC 2 Duct - LP Bypass Tube B	83.6	80.00	Area	0	2.31	101.2	6.96			-	_		_	-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	,	_			-22.2
ACC 2 Duct - LP Bypass Tube D	83.6	80.00	Area	0	2.31	101.2	96.9		87.4	82.0 7				-22.2
ACC 2 Duct - Main A	103.2	86.00	Area	0	52.37	120.7	116.5	112.4		101.5				-2.6
ACC 2 Duct - Main B	101.6	86.00	Area	0	36.49	119.2	114.9	_			89.7			4.2
ACC 2 Duct - Main D	101.8	86.00	Area	0	37.90	119.3	115.1	111.0	105.5 10		89.9			4.0
ACC 2 Duct - Main E	98.6	86.00	Area	0	18.33	116.2	111.9		102.4					-7.2
ACC 2 Duct - Main F	98.2	86.00	Area	0	16.54	115.7	111.5					81.1	70.3	-7.6
ACC 2 Duct - Main H	103.2	86.00	Area	0	52.36	120.7	116.5		106.9 10	101.5	91.3		75.3	-2.6
ACC 2 Duct - Main M	93.9	86.00	Area	0	19.41	116.4	112.2						1.0	-6.9
ACC 2 Duct - Main N	107.5	86.00	Area	0	142.12	125.1	120.8					90.4	9.62	1.7
ACC 2 Duct - Main O	106.8	96.00	Area	0	121.31	124.4	120.1		110.6 1(105.2 9			0.67	1.0
ACC 2 Duct - Matri P	106.8	86.00	Area	0	120.75	124.4	120.1		110.5 10	105.1	94.9	1.68	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 8		1.5	-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		82.1	71.3	-6.6
ACC 2 Duct - Main S	106.9	86.00	Area	0	121.95	124.4	120.2		110.6	05.2	95.0		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 8		6.9		11.8
ACC 2 Duct - Riser 1 B	94.1	76.00	Area	0	64.21	111.6	107.4	103.3	8.76	92.4	_		56.2	-11.7



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	LAAF	<u>*</u>	odk: our	KO-Wall	Size	5	23	125		200				60
1	dB(A)		4		m,m²	Hz	Hz	Ŧ	HZ.	Hz ki	KHZ KHZ		KHZ K	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 8	上	L	⊩	-11.8
ACC 2 Duct - Riser 1 D	¥.	76.00	Area	D	64.39	111.6	107.4	103.3	8.76	_	82.2 77	77.0 60	66.2 -11	11,7
ACC 2 Duct - Riser 2 A	94.0	76.00	Area	0	63.74	111.6	107.3	103.2	97.8	_				11.8
ACC 2 Duct - Riser 2 B	94.1	76.00	Area	0	64.21	111.6		103.3		_	82.2 77	77.0 66		-11.7
ACC 2 Duct - Riser 2 C	94.0	76.00	Area	0	63.56	111.6	107.3			_				6,17
ACC 2 Duct - Riser 2 D	94.1	76.00	Area	0	64.39	111.6				_	-			17
ACC 2 Duct - Riser 3 A	94.0	76.00	Area	0	63.74	111.6	107.3			_				. 00
ACC 2 Duct - Riser 3 B	94.1	76.00	Area	0	64.20	111.6					-			
ACC 2 Duct - Riser 3 C	94.0	76.00	Area	0	63.58	111.6								00
ACC 2 Duct - Riser 3 D	94.1	76.00	Area	0	64.39	111.6					82.2 77			
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0		113.0						5.98
ACHE 1	99.0	72.92	Area	0	405.93	100.0	103.0							6.92
ACHE 2	0.66	72.92	Area	0	405.93	100.0				_	_			922
Air Process Skid 2	93.0	93.00	Point	0		85.9					_			6.08
Alr Process Skid 2	93.0	93.00	Point	0		85.9	6.96					_		80.9
Ammonia Forwarding Pump	93.1	93.10	Point	0		86.0	97.0							84.0
Ammonia Injection Skid 1	98.1	98.10	Point	0		91.0	102.0	0.96						86.0
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	102.0							86.0
Aux Boiler Building - East Side	88.0	64.26	Area	က	234.94	108.8								43.7
Aux Boiler Building - North Side	88.5	64.26	Area	ო	268.09	109.3				_			_	. c.
Aux Boiler Building - Roof	91.9	64.26	Area	0	579.10	112.7	106.6			_		_		9.2
Aux Boiler Bullding - South Side	88.5	64.26	Area	m	268.09	109.3				_				44.3
Aux Boiler Building - West Side	88.0	64.26	Area	ო	235.85	108.8						57.7 5		2,7
Aux Boiler Building Vent Louvers - North	86.0	75,22	Area	ო	12.00	98.3	95.8	95.8	86.8			_	73.8 73	80
Aux Boiler Building Vent Louvers - South	86.0	75.22	Area	ო	12.00	98.3	95.8				_	_		0,0
Aux Boiler FD Fan Inlet	100.0	100.00	Point	0		102.3	_	101.7						P. 0
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2		100.2						4.2
Aux Transformer 1 - Side 1	82.0	69.16	Area	m	19.21	78.7	84.6	998			75.6 70			0
Aux Transformer 1 - Side 2	82.0	70.16	Area	ന	15.27	78.7	84.6			_	_			
Aux Transformer 1 - Side 3	82.0	69.18	Area	ന	19.13	78.7	84.6	9998	81.7					000
Aux Transformer 1 - Side 4	82.0	70.20	Area	ო	15.15	78.7	84.6	9.98	81.7		•			0.00
Aux Transformer 1 - Top	82.0	66.90	Area	0	32.39	78.7	84.6	999	81.7		_			900
Aux Transformer 2 - Side 1	82.0	69.16	Area	က	19.21	78.7	84.6	9.98	81.7	1.7	75.6 70	70.6		58.6



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						Ì									
Source	PWE	*	SrcType	KO-Walf	Size	હ	8	125	250	200	+	2	4	00	
	dB(A)	0		*,	m,m²	Hz	HZ.	Ź	Hz	Hz	KHZ	KHZ	¥	kHz	
Aux Transformer 2 - Side 2	82.0	70.16	Area	6	15.27	78.7	84.6	9.98	81.7	81.7	75.6	70.6	527	58.6	
Aux Transformer 2 - Side 3	82.0	69.18	Area	ო	19.13	78.7	84.6	96.6	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Side 4	82.0	70.20	Area	က	15.15	78.7	84.6	9.98	81.7	81.7	75.6	70.6	65.7	58.6	
Aux Transformer 2 - Top	82.0	99.30	Area	0	32.39	78.7	84.6	9.98	81.7	81.7	75.6	70.6	65.7	58.6	
BFW Pump Enclosure 1-Side 1	4.4	76.92	Area	ro.	56.38	110.5	107.9	104.8	6.66	87.9	81.9	77.9	6.69	63.9	
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	n	107.28	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	299	
BFW Pump Enclosure 1-Side 3	94.4	76.92	Area	6	56.38	110.5	107.9	104.8	99.9	87.9	81.9	77.9	669	63.9	
BFW Pump Enclosure 1-Side 4	97.2	76.92	Area	m	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	2.99	
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	က	25.67	110.4	107.8	104.8	8.66	87.8	81.8	77.8	69.8	63.8	
BFW Pump Enclosure 2-Side 2	97.2	76.92	Area	m	107.52	113.3	110.7	107.6	102.7	90.7	84.7	80.7	72.7	66.7	
Brw Pump Enclosure 2-Side 3	4.4	76.92	Area	က	55.43	110.4	107.8	104.7	8.66	87.8	81.8	8.77	8.69	63.8	
Brw Pump Enclosure 2-Side 4	97.2	76.92	Area	e2	107.52	113.3	110.7	107.6	102.7	2.06	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	ന	126.65	92.0	94.9	88.9	83.0	69.0	59.9	52.9	47.0	46.0	
Condensate Equipment Bidg 1 - North Side	73.2	26.70	Area	ო	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bidg 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	26.70	Area	60	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	44.4	43.4	
Condensate Equipment Bidg 1 - West Side	77.7	26.70	Area	ო	126.59	92.0	94.9	88.9	83.0	0.69	59.9	52.9	47.0	46.0	
Condensate Equipment Bldg 2 - East Side	7.77	56.70	Area	e	126.65	92.0	94.9	6.88	83.0	0.69	59.9	52.9	47.0	46.0	
Candensate Equipment Bldg 2 - North Side	75.2	56.70	Area	က	70,14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	4.44	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	ന	70.14	89.4	92.4	86.4	80.4	66.4	57.4	50.4	4.4	43.4	
Condensate Equipment Bidg 2 - West Side	77.7	56.70	Area	ന	126.59	92.0	94.9	88.9	83.0	0.69	59.9	52.9	47.0	46.0	
C1G 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	_	04.0	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		104.0	95.0	
CTG Air inlet Duct 1 - North	6.66 6.00	84.40	Area	0	35.83	111.6	107.0	100.9	100.0	93.0	83.0		84.0	29.0	
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	6.66	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	98.9	84.29	Area	0	36.74	111.6	107.0	100.9	100.0	93.0	83.0	97.0	84.0	29.0	



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Source Course	PAVL dB(A)	3	SroType	KO-Wall	Size m,m²	구 각	8 ¥	125 74	7 7 7 F	85 ¥	- 꽃	~ 꽃	4 X X	8 1 2	
CTG Air Inlet Duct 2 - Top	99.9	83.15	Area		47.70	111.6	107.0	6,001	90.0	93.0	-	0 26	24.0	100	-
CTG Building 1 - East Facade	95.1	64.70	Area	60	1101.55	116.7			8.8	84.0	73.7	69.4	66.5	57.6	
CTG Building 1 - North Facade	94.0	64.70	Area	က	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	Агва	0	1047.08	111.5	105.3	104.6	9.68	78.8	68.5	64.2	61.3	52.4	
CTG Building 1 - West Facade	95.1	64.70	Area	₆₀	1100.83	116.7	110.5	109.8	8.8	84.0	73.7	69.4	66.5	57.6	
CTG Building 1 Vent Louvers - East	89.6	77.00	Area	ო	18.00	100.3	95.6	6.96	83.9	83.1	79.8	80.5	84.6	75.7	
CTG Building 1 Vent Louvers - North	89.6	27.00	Area	6	18.00	100.3	95.6	6.96	83.9	83.1	79.8	80.5	84.6	75.7	
CTG Building 1 Vent Louvers - West	70.1	57.55	Area	ന	18.00	96.3	87.6	84.9	62.9	54.1	42.8	37.5	36.6	30.7	
CTG Building 2 - East Facade	95.1	64.70	Area	eo	1100.24	118.7	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	6	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	m	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	က	18.00	100.3	92.6	6.96	83.9	83.1	79.8	80.5	84.6	75.7	
CTG Building 2 Vent Louvers - North	89.6	77.00	Area	ო	18.00	100.3	95.6	6.96	83.9	83.1	79.8	80.5	84.6	75.7	
CTG Building 2 Vent Louvers - West	9.68	77.00	Area	က	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	668		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		87.9	86.9	82.9	
Emergency Diesel Generator - Side 1	80	-7.75	Area	m	38.95	-25.0	-25.0	-12.0	1.0	2.0		3.0	4.0	-13.0	
Emergency Diesel Generator - Side 2	8 0	-7.76	Area	ო	39.02	-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		-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		56.6	
Excitation Transformer 2	80.0	80.00	Point	0		76.7	82.6	84.6	7.67	79.7		68.6	63.7	56.6	
Fire Pump Building - Roof	4	-23.30	Area	0	82.33	10.1	13.1	7.1		-12.9		-28.9	34.9	-35.9	
Fire Pump Building - Side 1	-5.7	-23.30	Area	ന	57.22	8.5	1.5	5.5		-14.5		-30.5		-37.5	
Fire Pump Building - Side 2	9.5	-23.30	Area	n	29.99	5.7	7.00	2.7		-17.3		-33.3		40.3	
Fire Pump Bullding - Side 3	-5.7	-23.30	Area	m	57.22	8.5	11.5	5.5		-14.5				-37.5	
Fire Pump Bullding - Side 4	-8.5	-23.30	Area	m	30.11	5.7	8.7	2.7		-17.3				40.3	
Fuel Gas Dewpoint Heater	102.2	85.30	Area	0	49.02	97.9	95.7	83.8		76.0		85.5		103.1	-
Fuel Gas Metering and Regulating Station	93.0	93.00	Point	0		-15.6	-15.6	-15.6	72.4	74.4		89.4		79.4	-
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	6.96	6.06	90.9	87.9	86.9	85.9	6,48	80.9	-
Fuel Gas Performance Heater 2	93.0	93.00	Point	0		85.9	6.96	80.9	6.06	87.9	86.9	85.9	84.9	80.9	
Gas Aftecooler 1	101.0	84.00	Area	0	50.09	8.66	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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!	2000	17.	6	10 con 10		1				-	-	l	ŀ	ŀ	
	dB(A)	<u> </u>	add i ale	No. Wall	m'm'	두보	2 Y	2 7	25. E	2 1	kHz -	7 五 五 五 五 五 五 五 五 五 五 五 一 一 一 一 一 一 一 一	4 1 7	8 ¥	
Gas Afteccoler 2	101.0	83.86	Area	٥	51.73	8.66	102.2	98.1	97.2	96.2	95.2	94.2	93.2	85.2	
Gas Compressor Bldg Louvers - E	105.7	92.76	Area	60	00.9	102.2	108.7	105.7	104.7	101.7	7.66	97.7	96.7	94.7	
Gas Compressor Bldg Louvers - N	105.7	96'26	Area	ო	6.00	102.2	108.7	105.7	_	101.7	7.66	7.76	96.7	94.7	
Gas Compressor Bldg Louvers - S	105.7	95.76	Area	ო	6.00	102.2	108.7	105.7	104.7	101.7	566	97.7	2.96	7.46	
Gas Compressor Bldg Louvers - W	105.7	97.96	Area	ო	00.9	102.2	108.7	105.7	104.7	101.7	7.66	7.76	96.7	7.76	
Gas Compressor Building - East Side	1.66	76.70	Area	ന	173.15	113.3	116.3	110.3	104.3	90.3	81.3	74.3	68.3	67.3	
Gas Compressor Building - North Skie	97.5	76.70	Area	က	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	ო	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	ო	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	က	67.39	7.08	9.96	98.6	83.7	93.7	87.6	82.6	77.7	70.6	
GSU 1 - Side 2	94.0	78.04	Area	ო	39.49	200.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	9.07	
GSU 1 - Side 3	<u>8</u>	75.71	Area	က	67.51	200.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	20.6	
GSU 1 - Side 4	0.40	78.02	Area	က	39.63	2.06	96.6	98.6	93.7	93.7	87.6	82.6	77.77	70.6	
GSU 1 - Top	9	72.94	Area	0	127.76	2.06	96.6	98.6	93.7	93,7	97.6	82.6	77.7	70.6	
GSU 2 - Side 1	<u>2</u>	75.71	Area	က	67.38	90.7	9.96	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Side 2	0.78	78.04	Area	ന	39.49	20.7	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	က	67.51	200.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	9.07	
GSU 2 - Side 4	8.0	78.02	Area	m	39.63	20.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
GSU 2 - Top	9	72.94	Area	0	127.76	200.7	96.6	98.6	93.7	93.7	87.6	82.6	77.7	70.6	
HFSG 1 - Body - Side 1	97.0	66.65	Area	က	1092.60	106.0	111,4	110.3	99.4	85.4	88.4	75.4	58.4	41,4	
HFSG 1 - Body - Side 2	97.0	66.65	Area	က	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	0.69	62.0	
HRSG 1 - Stack Walls - Side 1	65.6	44.81	Area	n	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	က	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	က	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	ო	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	65	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	ო	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	က	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	က	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	9.96	81.17	Area	3	35.17	105.6	111.0	109.9	0.06	85.0	88.0	75.0	58.0	41.0	



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Source	PWL	Lw.	SrcType	KO-Wall	Size	31	8	125	250	200	-	2	4	∞	
ş2	dB(A)	,		eg.	m,m²	HZ H	Ę	ΗZ	7	보	KHZ KHZ	ᄷ	보 보	Ā	
HRSG 1 - T1 - Side 2	96.6	81.15	Area	က	35.32	105.6	111.0	109.9	0.86	85.0	88.0	75.0	58.0	10.1	
HRSG 1 - T1 - Top	9.98	82.76	Area	0	24.38	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0	
HFSG 1 - T2 - Side 1	99.96	76.25	Area	က	109.34	105.6	111.0	109.9	0.86	85.0	88.0	75.0	58.0	41.0	
HFSG 1 - T2 - Side 2	9.96	76.25	Area	ო	109.36	105.6	111.0	109.9	0.66	85.0	68.0	75.0	58.0	41.0	
HESG 1 - T2 - Top	99.0	80.37	Area	0	42.32	105.6	111.0	109.9	0.66	85.0	98.0	75.0	58.0	41.0	
HRSG 2 - Body - Side 1	97.0	66.65	Area	ო	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	ო	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	80.08	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	ო	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	භ	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30,3	22.3	77	
HRSG 2 - Stack Walls - Side 3	65.6	44.70	Area	ო	122.00	85.3	88.2		63.3	46.3	33.3	30.3	22.3	7.7	
HRSG 2 - Stack Walls - Side 4	65.6	44.55	Area	es)	126.11	85.3	88.2		63.3	46.3	33.3	30.3	22.3	7.7	
HRSG 2 - Stack Walls - Side 5	65.6	44.74	Area	က	120.89	85.3	88.2		63.3	46.3	33.3	30.3	22.3	-7.7	
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	ო	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	ဇ	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	က	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	-7.7	
HF.SG 2 - T1 - Side 1	56.6	81.17	Area	63	35.17	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T1 - Side 2	96.6	81.15	Area	n	35.32	105.6	111.0	109.9	0.06	85.0	88.0	75.0	58.0	410	-
HRSG 2 - T1 - Top	9.93	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	ro	109.34	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0	
HRSG 2 - T2 - Side 2	99.0	76.25	Area	60	109.36	105.6	111.0	109.9	0.66	85.0	88.0	75.0	58.0	41.0	_
HRSG 2 - T2 - Top	9.6	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	53.0	93.00	Point	0		85.9	96.9	80.8	90.9	87.9	86.9	85.9	84.9	80.9	_
HRSG Regirc Pump 2	83.0	93.00	Point	0		85.9	96.9	90.9	90.9	87.9	86.9	85.9	9	80.9	
Isolation Transformer 1	80.0	80.00	Point	0		7.97	82.6	84.6	79.7	7.67	73.6	68.6	63.7	56.6	
Isolation Transformer 2	80.0	80.00	Point	0		7.97	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	•
Service 1 and 1 an				٠	-	-			-	-	1	2:3	2	>	



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60	주 구	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	124.0	81.0	81.0	81.0	109.2	109.2	109.2	109.2	109.2	55.6	53.9	52.0	59.0	55.6	55.6	0 0 0
4	×Hz	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	123.0	85.0	85.0	85.0	108.2	108.2	108.2	108.2	108.2	56.6	54.9	53.0	60.0	56.6	56.6	540
2	kHz	80.0	80.0	80.0	80.0	80.0	90.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	121.9	96.0	96.0	96.0	107.1	107.1	107.1	107.1	107.1	9.99	64.9	63.0	70.0	66.6	9.99	640
-	kHz	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	110.8	87.0	87.0	87.0	96.0	96.0	96.0	96.0	96.0	73.6	71.9	70.0	77.0	73.6	73.6	719
200	Hz	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	118.0	88.0	88.0	88.0	103.2	103.2	103.2	103.2	103.2	84.6	82.9	81.0	98.0	84.6	84.6	82.9
250	Hz	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	128.0	91.0	91.0	91.0	113.2	113.2	113.2	113.2	113.2	96.6	94.9	93.0	100.0	9.96	9.96	6.76
125	H	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	127.0	91.0	91.0	91.0	112.2	112.2	112.2	112.2	112.2	103.5	101.8	99.9	106.9	103.5	103.5	101.8
63	ΗZ								95.0																		106.1	111.6	109.9	108.0	115.0	111.6	111.6	109.9
31	캎	95.0	95.0	95.0	95.0	95.0	95.0	95.0	. 95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	113.4	86.0	96.0	86.0	98.6	98.6	98.6	98.6	98.6	115.2	113.5	111.6	118.6	115.2	115.2	113.5
Size	m,m																											554.75	373.57	764.72	1206.17	552.09	553.90	374.51
KO-Wall		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	က	က	0	က	က	ო	က
SrcType		Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Point	Area	Area	Area	Area	Area	Area	Area						
J.		87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	87.78	129.00	93.10	93.10	93.10	114.17	114.17	114.17	114.17	114.17	64.93	64.93	59.93	64.93	64.93	64.93	64.93
PWL	dB(A)	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	129.0	93.1	93.1	93.1			114.2	114.2	114.2	92,4	90.7	88.8	95.7	92.4	92.4	90.7
Source		Rooftop Vent Fan - CTG Bldg 1	Rooftop Vent Fan - CTG Bidg 2	Rooftop Vent Fan - CTG Bidg 3	Rooftop Vent Fan - CTG Bldg 4	Rooftop Vent Fan - CTG Bldg 5	Rooftop Vent Fan - CTG Bldg 6	Rooftop Vent Fan - Gas Compressor Eldg 1	Rooftop Vent Fan - Gas Compressor Eldg 2	Rooftop Vent Fan - Gas Compressor Elidg 3	Rooftop Vent Fan - STG Bldg 1	Rooftop Vent Fan - STG Bldg 2	Rooftop Vent Fan - STG Bldg 3	Rooftop Vent Fan - STG Bidg 4	Rooftop Vent Fan - STG Bldg 5	Rooftop Vent Fan - STG Bldg 6	Rooftop Vent Fan - Water Treatment Eldg1	Rooftop Vent Fan - Water Treatment Eldg2	Safety Vent	Scanner Cooling Air Blower 1	Scanner Cooling Air Blower 2	Service Water Pump	Startup Vent - Aux Boiler Blowdown	Startup Vent - Aux Boller Startup	Startup Vent - HRSG Blowdown 1	Startup Vent - HRSG Blowdown 2	Startup Vent - Steam Turbine Drains Tank	Steam Turbine Eldg 1 - East Facade	Steam Turbine Blog 1 - North Facads	Steam Turbine Eldg 1 - Roof	Steam Turbine Bldg 1 - South Facade	Steam Turbine Bidg 1 - West Facade	Steam Turbine Bidg 2 - East Facade	Steam Turbine Bldg 2 - North Facade



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Source	PWL) N	SrcType	KO-Wall	Size	ह	8	125	250	_		2	4		, A.		
	(A)		36		m'm,	HZ	Ž.	Hz	Hz -	Hz	KHZ	KHZ	kHz	KHZ	ę\$		
Steam Turbine Bldg 2 - Roof	88.8	59.93	Area	0	764.05	111.6	108.0	6.66	93.0	81.0	70.0	63.0	53.0	52.0			
Steam Turbine Bldg 2 - South Facace 1	95.7	64.93	Area	ю	1206.17	118.6	115.0	_	0.00	88.0		70.0	0.09	59.0			
Steam Turbine Bldg 2 - West Facade	92.4	64.93	Area	က	552.09	115.2	111.6		9.96	84.6		9.99	56.6	55.6			
STG Building 1 Vent Louvers - East	89.3	76.79	Area	က	18.00	101.8	266		7.88	86.7		80.7	777	76.7			
STG Building 1 Vent Louvers - South 1	89.3	6.79	Area	က	18.00	101.8	266		88.7	86.7	82.7	80.7	777	76.7			
STG Building 1 Vent Louvers - South 2	89.3	76.79	Area	က	18.00	101.8	99.7		88.7	86.7		80.7	77.7	76.7			
STG Bullding 1 Vent Louvers - West	89.3	76.79	Area	က	18.00	101.8	28.7		88.7	86.7		80.7	77.7	76.7			
STG Building 2 Vent Louvers - East	89.3	76.79	Area	က	18.00	101.8	99.7	93.6	88.7	7.98		80.7	77.7	76.7			
STG Building 2 Vent Louvers - South 1	89.3	76.79	Area	က	18.00	101.8	266	93.6	88.7	86.7		80.7	77.7	76.7			
STG Building 2 Vent Louvers - South 2	89.3	76.79	Area	က	18.00	101.8	2.66	93.6	88.7	298	82.7	80.7	777	76.7			-
STG Building 2 Vent Louvers - West	89.3	76.79	Area	ო	18.00	101.8	7 66		7.88	_		80.7	777	76.7			
STW Heat Exchanger 1	102.0	90.87	Area	0	12.97	100.8	103.2		98.2	_		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		95.2	94.2	86.2			
Waste Water Pump	93.1	93.10	Point	0		96.0	97.0		91.0	88.0		86.0	85.0	81.0			
Water Treatment Building - East Side	78.9	56.70	Area	m	167.69	93.2	86.2		84.2	70.2		54.2	48.2	47.2			-
Water Treatment Building - North Side	83.3	56.70	Area	es	452.35	97.5	100.5	94.5	88.5	74.5		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		61.6	55.7	54.7			
Water Treatment Building - South Side	83.3	56.70	Area	е	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	m	167.20	93.2	96.1	90.2	84.2	70.2	61.2	54.2	48.2	47.2			
W/rB Ventillation Louvers - North Sids	90.0	77.96	Area	ო	16.00	86.5	93.0	0.06	89.0	86.0	84.0	82.0	81.0	79.0			
WTB Ventilation Louvers - South Side	90.0	77.96	Area	6	16.00	86.5	93.0	0.06	89.0	86.0	84.0	82.0	81.0	79.0			
																-	



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Scurce	PWL dB(A)	PWL/unit dB(A)	Tone	Non-Sphere dB	Distance	Spreading	Ground Effect dB	Ins. Loss	¥ &	Directivity	Reflection	SPL	
The last section of the la			-				3	3	3	gn :	g	05(A)	
Receiver M1 - Wallum Lake Road			ļ										
ACC 1 Bottom	109.0	72.7	0.0	0.0	9.687	-68.9	1.0	-2.9	-32	833	000	78.7	T
ACC 1 Duct - Finger 1 A	89.9	0.99	0.0	0.0	691.9	-67.8	6,0	4.5	0.	0.0	200	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	
_	6.68	0.99	0.0	0.0	692.8	-67.8	0.5	-7.2	8.0	0.0	20	5 60	
	0.06	0.99	0.0	0.0	704.1	-67.9	-0.5	4.	10	0.0		5 6	
	6.08	0.99	0.0	0.0	702.9	-67.9	-0.5	6.4	6.0	0.0	2.4	5 6	
ACC 1 Duct - Finger 2 C	68.0	0.99	0.0	0.0	705.1	-68.0	-0.5	-11.0	9.0	0.0	i 0	000	
ACC 1 Duct - Finger 3 A	0.06	66.0	0:0	0.0	716.5	-68.1	-0.5	<u>الم</u>	-1.0	0,0	0.0	16.2	
ACC 1 Duck - Finger 3 B	89.9	0.99	0.0	0.0	715.4	-68.1	-0.5	4. 13.	6.0	0.0	2.1	18.0	
ACC 1 Duck - Finger 3 C	6.68	0.99	0.0	0.0	717.5	-68.1	-0.5	-9.0	0.7	0.0	90	12.0	
ACC 1 Duct - HRH Bypass Bell A	80 80 80 80	88.0	0.0	0.0	8.099	-67.4	0.6	-21.2	Q.51	0.0	000	, <u>t</u>	
ACC 1 Duct - HRH Bypass Bell B	8.66	88.0	0.0	0.0	660.7	-67.4	1.	-19.4	0.5	0.0	00	13.7	
ACC 1 Duct - HRH Bypass Bell C	89.9	88.0	0.0	0.0	659.0	-67.4	0.8	-20.3	0.5	0.0	. en	0.00	
ACC 1 Duct - HRH Bypass Bell D	9.66	88.0	0.0	0.0	0.099	-67.4	0.8	-13.1	4.0	0.0	0.3	7 67	
ACC 1 Duct - HRH Bypass Bell E	6.06	88.0	0.0	0.0	97.299	-67.4	0.8	-20.3	-0.4	0.0	2.0	. 4 . c	
ACC 1 Duck - HRH Bypass Tube A	93.6	85.0	0.0	0.0	659.4	-67.4	0.7	-13.0	-0.5	0.0	0.0	, ac	
ACC 1 Duct - HRH Bypass Tube B	88 93.0	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	98.6	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 - HKH Bypass Tube D	93.6	82.0	0.0	0.0	659.4	-67.4	0.8	-13.1	-0.5	0.0	0.0	8.5	
ACC 1 Duct - LF Bypass Bell A	92 80	83.0	0.0	0.0	665.1	-67.4	9.0	-21.4	-0,5	0.0	0.0	6.2	
ACC 1 Duct - LP Bypass Bell B	85 G	83.0	0.0	0.0	665.0	-67.4	1.2	-16.4	-0.4	0.0	0.0	11.7	
ACO 4 Duct - LF bypass Bell C	Q. (83.0	0.0	0.0	663.3	-67.4	8.0	-18.8	-0.4	0.0	6.0	6.6	
ACC COUCT-LT Bypass Bell D	g	83.0	0.0	0.0	664.4	-67.4	9.0	-14.9	-0,4	0.0	0.4	13.1	
ACC - Duct - LF Bypass Beil E	o, (83.0	0.0	0.0	6.999	-67.5	9.0	-17.9	-0.4	0.0	0.2	10.1	
ACC LOCK-LF Bypass Tube A	83.6	0.08	0.0	0.0	663.8	-67.4	0.8	-14.7	-D.4	0.0	0.0	8,	
ACC I Duct - LF Bypass Tube B	83. S	90.0	0.0	0:0	663.4	-67.4	0.8	-14.8	-0.4	0.0	0.3	2.1	
ACC 1 Duct - LF Bypass 1 ube C	93.6	80.0	0.0	0.0	664.1	-67.4	0.8	-17.4	4 .0	0.0	0.0	9.0-	
ACC 1 Duct - LP Bypass Tube D	83 69	80.0	0.0	0.0	663.7	-67.4	0.8	-13.5	-0.4	0.0	0.0	5	
ACC1 Duct - Main A	107.4	86.0	0.0	0.0	655.1	-67.3	0.5	-10.4	6.0	0.0	0.3	29.6	
ACC 1 DUCK - Main B	101.7	86.0	0:0	0.0	649.9	-67.2	0.7	-23.3	9.0	0.0	6.0	12.2	
ACC 1 Duck - 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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Solice	DAVI	Hory WAY	- Conot	Mon Cahoro	Distance	Compading	And the second			200	;		Γ
	dB(A)	dB(A)	8	dB dB	2 E	dB dB	Glouin Filest	GB GB	₹ 8	Cliectivity	Kerlection dB	SPL dB(A)	
ACC 1 Duct - Main D	101.7	96.0	0.0	0.0	645.2	-67.2	0.7	-7.1	-0.8	0.0	1.1	28.5	Γ
ACC 1 Duct - Main E	0.06	96.0	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	96.0	0.0	0.0	651.2	-67.3	0.7	6,4	6.0-	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	8,6	5.5	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	ဆု	-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	98.0	0.0	0.0	682.0	-67.7	0.7	-22.1	9.0-	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	4.0	0.0	0.1	26.3	- 5
ACC 1 Duct - Main P	106.8	96.0	0.0	0.0	685.0	-67.7	0.9	-18.0	-0.4	0.0	0.4	22.0	5
ACC 1 Duct - Main Q	106.9	96.0	0.0	0.0	683.4	-67.7	6.0	-25.1	9.0	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	9.0	-18.0	4.0	0.0	1.1	15.3	
ACC 1 Duct - Riser 1 A	8	76.0	0.0	0.0	668.7	-67.5	-0.1	-7.3	9.0	0.0	0,5	19.1	
ACC 1 Duct - Riser 1 B	<u>8</u>	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	9.0	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	8	76.0	0.0	0.0	9.699	-67.5	-0.1	-8.7	-0.5	0.0	0.5	17.7	
ACC 1 Duct - Riser 2 A	<u>9</u>	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	¥.	76.0	0.0	0.0	683.3	-67.7	-0.1	-13.1	4.0-	0.0	0.2	12.9	
ACC 1 Duct - Riser 2 C	9. 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	<u>8</u>	76.0	0.0	0.0	682.1	-67.7	0.1	-10.1	Ġ.	0.0	9.0	16.3	
ACC 1 Duct - Riser 3 A	0.76	76.0	0.0	0.0	694.0	-67.8	0.1	6.6-	-0.5	0.0	2.8	18.5	
ACC 1 Duct - Riser 3 B	<u>4</u>	76.0	0.0	0.0	696.1	-67.8	-0.1	-14.7	4.0	0.0	3.0	14.0	
ACC 1 Duct - Riser 3 C	0.76	76.0	0.0	0.0	0.769	6.79-	-0.1	-15.8	4.0-	0.0	0.7	16.9	
ACC 1 Duct - Riser 3 D	<u>2</u>	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	0.067	6.89-	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	0.89-	0.7	-0.8	-2.9	-8.6	0.0	29.5	
ACC 2 Duct - Finger 1 A	6.08	0.99	0:0	0.0	774.4	-68.8	-0.4	4.3	7	0.0	0.0	15.4	
ACC 2 Duct - Finger 1 B	88 6.9	66.0	0.0	0.0	773.2	-68.8	-0.4	4.	-1.0	0.0	2.3	17.9	
ACC 2 Duct - Finger 1 C	6.08	0.99	0.0	0.0	775.4	-68.8 -	-0.4	-11.5	-0.7	0.0	0.1	3.6	
ACC 2 Duct - Finger 2 A	0.06	0.99	0.0	0.0	786.9	6.89-	4.0	4.4	7.	0.0	0.0	15.2	
ACC 2 Duct - Finger 2 B	6.08	0.99	0.0	0.0	785.7	-68.9	-0.4	-6.2	6.0-	0.0	2.0	15.5	
ACC 2 Duct - Finger 2 C	80.9	0.99	0.0	0.0	787.9	-68.9	-0.4	-13.8	9.0-	0.0	0.1	6.2	



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Page 2

Source	P.W.	PWI Amit	Tone	Non-Suboro	Dietance	Carpooding	Constitution of the contract o			2 12 12 12			
	dB(A)	dB(A)	쁑	8	E	B 89	de de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della com	dB dB	₹ 8	Cirectivity	Kerjection	SPL dB(A)	
												7	7
ACC 2 Duct - Finger 3 A	0.06	0.99	0.0	0.0	799.4	-69.0	-0.4	4.7	-1.0	0.0	0.0	14.8	Γ
ACC 2 Duct - Finger 3 B	89.9	0.99	0.0	0.0	798.3	-69.0	-0.4	-6.6	6.0	0.0	2.1	15.0	
ACC 2 Duct - Finger 3 C	89.9	0.99	0.0	0.0	800.5	-69.1	4.0	-12.3	-0.7	0.0	00	7.4	
ACC 2 Duct - HRH Bypass Bell A	99.8	88.0	0.0	0.0	7.197	-68.6	Ţ	-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	6.0	0.0	0.0	. 60	
ACC 2 Duct - HRH Bypass Bell C	6.66	88.0	0.0	0.0	759.9	-68.6	6.	-23.5	-0.7	000	2.0		
ACC 2 Duct - HRH Bypass Bell D	9.66	88.0	0.0	0.0	761.1	-68.6	6.	-17.7	ç	0 0		- 4	
ACC 2 Duct - HRH Bypass Bell E	6.66	88.0	0.0	0.0	763.5	-68.6	1.3	-22.6	-0.7	0.0	0.00	5 5	
ACC 2 Duct - HRH Bypass Tube A	98.6	85.0	0.0	0.0	760.5	-68.6	1.3	-18.2	-0.5	0.0	00	5 6	•
ACC 2 Duck - HRH Bypass Tube B	98.6	85.0	0.0	0.0	760.2	-68.6	1.3	-18.2	0.5	0.0	90	i m	
ACC 2 Duct - HRH Bypass Tube C	98.6	85.0	0.0	0.0	760.8	-68.6	1.3	-19.6	9.0	0.0	0.0	5 -	
ACC 2 Duct - HRH Bypass Tube D	88.6	85.0	0.0	0.0	760.5	-68.6	1.4	-18.4	.55 5.57	0.0	0.0	2.5	
ACC 2 Duct - LP Bypass Bell A	9 2 85	83.0	0.0	0.0	766.1	-68.7	7:	-23.2	-0.7	0.0	000	46	
ACC 2 Duct - LP Bypass Bell B	9 .	83.0	0.0	0.0	766.0	-68.7	1.6	-25.7	6.0	0.0	00		
ACC 2 Duct - LP Bypass Bell C	9 2	83.0	0.0	0.0	764.3	-68.7	1.3	-22.1	9.0	0.0	13	· C	
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	40	
ACC 2 Duct - LP Bypass Bell E	94.9	83.0	0.0	0.0	6792	-68.7	1.4	-20.9	9.0	0.0	0.0	000	
ACC 2 Duct - LP Bypass Tube A	83.6	80.0	0.0	0.0	765.0	-68.7	1.3	-18.5	5.5	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	000	
ACC 2 Duct - LP Bypass Tube C	83.6	80.0	0.0	0.0	765.3	-68.7	1.3	-19.6	9,0	0.0	0.0	o ec	
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	00	800	
ACC 2 Duct - Main A	103.2	86.0	0.0	0.0	748.9	-68.5	6.0	-15.6	5.5	0.0	0.3	861	
ACC 2 Duct - Main B	101.6	86.0	0.0	0.0	750.4	-68.5	د .	-24.4	9.0	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 Duck - 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	Ş	17.4	
ACC Z Duck - Main H	103.2	96.0	0.0	0.0	748.8	-68.5	1.6	-24.6	9.0	0.0	0.4	11.4	
ACC 2 Duct - Main M	98.9 6.9	86.0	0.0	0.0	782.8	-68.9	1.3	-19.2	-0.5	0.0	0.0	2	
ACC 2 Duct - Main N	107.5	96.0	0.0	0.0	767.3	-68.7	1.0	-21.7	9.0-	0.0	9.0	18.1	
ACC 2 Duct - Main O	106.8	86.0	0.0	0.0	770.3	-68.7	5.7	-18.6	-0.5	0.0	0.3	20.6	
ACC 2 Duct - Main P	106.8	86.0	0.0	0.0	9.697	-68.7	1.6	-24.9	8.0	0.0	6.0	14.9	
ACC 2 Duct - Main Q	4.00	86.0	0.0	0.0	755.2	-68.6	1.3	-16.5	-0.5	0.0	0.2	5.3	
								•	•	-	-	_	



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Source PWL GB(A) ACC 2 Duct - Main R 99.2	/L PWL/unit A) dB(A)	1-	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Ą	Directholity	Dofloation	ō	
	_	A	9		D		É	: !	CHECKVILY	Nellection	7	
		-	3		B	QD	98	8	98	88	dB(A)	
	2 86.0	0.0	0.0	753.7	588.5	13	-23.0	24	00	00		
ACC 2 Duct - Main S 106.9	9 86.0	_	0.0	768.9	-68.7	, e	-24.0	, «	9 6	2 6	2 u	
ACC 2 Duct - Riser 1 A 94.0	0.92	0	0.0	753.3	-68.5	0.1	-7.0	200	000	5.5	5. 6	
ACC 2 Duct - Riser 1 B 94.1	1 76.0	0.0	0.0	755.4	-68.6	0.1	-14.0	0.5	00	0.2	5 50	
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	2 0	
ACC 2 Duct - Riser 1 D 94.1	1 76.0	0.0	0.0	754.3	-68.5	0.1	-7.1	-0.7	00	4.	8 6	
•	_	0.0	0.0	766.2	-68.7	0.1	-10.8	9.0	0.0	0.8	9 4	
····		0.0	0.0	768.2	-68.7	0.1	-15.4	-0.5	0.0	0.2	00	
U	_	0.0	0.0	769.2	-68.7	0.1	-17.6	-0.5	0.0	0.0	7.3	
		0:0	0.0	767.2	-68.7	0.1	-11.4	9.0-	0.0	0.7	14.2	
		0.0	0.0	779.1	-68.8	0.1	-11.2	9.0-	0.0	0.9	14.5	
		0.0	0.0	781.1	-68.8	0.1	-16.1	-0.5	0.0	0.3	0.6	
		0.0	0:0	782.1	-68.9	0.1	-17.6	9.0-	0.0	0.0	7.2	
t-Riser 3 D		0.0	0.0	780.1	-68.8	0.1	-13.3	9.0	0.0	0.1	12.5	
do		0.0	0.0	707.5	-68.0	0.3	5.2	-2.1	-7.2	9.0	27.3	
		0.0	0.0	751.3	-68,5	2.2	-7.4	-2.2	0.0	0.0	23.1	
		0.0	0.0	645.5	-67.2	8.1	5.9	-2.2	0.0	0.8	26.2	
		0.0	0.0	660.2	-67.4	3.0	-26.3	-3.0	0.0	0.0	-0.7	
		0.0	0.0	763.5	-68.6	3.2	-28.0	4.	0.0	0.0	4.5	
2		0.0	0.0	762.2	-68.6	3.1	6.7-	4.2	0.0	0.1	15.6	
		0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	5.6	
		0.0	0.0	6.609	-66.7	2.5	-5.2	-5.2	0.0	3.4	26.8	
		3 0.0	3.0	675.2	-67.6	1.2	9.4	-0.5	0.0	0.0	19.5	
Side		3 0.0	3.0	686.4	-67.7	1.3	-3.9	-0.5	0.0	0.0	20.6	
_		3 0.0	0.0	688.2	-67.7	9.0	-5.5	-0.5	0.0	9.0	19.3	
		_	3.0	690.1	-67.8	1.2	-10.2	-0.3	0.0	0.3	6.4	
		_	3.0	701.0	-67.9	1.3	-15.5	-0.3	0.0	3.3	11.9	
		_	3.0	681.9	-67.7	1.9	-2.6	-2.4	0.0	0.0	18.3	
t Louvers - South		_	3.0	694.4	-67.8	2.0	-16.0	6.0	0.0	0.3	8.7	
		_	0.0	674.3	-67.6	1.5	ئ 1.3	-2.2	0.0	2.5	29.0	
	_	0.0	0.0	695.0	-67.8	0.7	0.0	4,	-8.0	0.0	20.6	
Aux Iransformer 1 - Side 1 82.0	0 69.2	0:0	3.0	7.17.7	-88.1	2.2	-26.8	-1.8	0.0	3.5	5.9	



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Source	₽WL dB(A)	PWC/unit	da da	Non-Sphere dB	Distance	Spreading dB	Ground Effect dB	Ins. Loss dB	₹ 8	Directivity	Reflection	SPL dR(A)	
	3											- (x)	
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	9.0	Γ
Aux Transformer 1 - Side 3	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	5.1-	0.0	3.2	4	
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	9.4	00	
Aux Transformer 1 - Top	82.0	6.99	0.0	0.0	716.9	-68.1	2.0	-24.8	ا ک	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	9.6	11.7	
Aux Transformer 2 - Side 2	82.0	70.2	0.0	3.0	613.7	-66.8	1.7	-9.1	ا .	0.0	0,	10.5	·
Aux Transformer 2 - Side 3	82.0	69.2	0.0	3.0	615.7	-66.8	1.7	4.8	4.1-	0.0	. K.	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	6	11.0	4
Aux Transformer 2 - Top	82.0	6.99	0.0	0.0	616.7	-66.8	1.3	9	-1.7	0.0	2.9	11.7	
BFW Pump Enclosure 1-Side 1	4.4	6.92	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	00.7	
BFW Pump Enclosure 1-Side 3	¥.	6.92	0.0	3.0	751.6	-68.5	1.7	-23.3	-0.5	0.0	0.0	7.0	
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	7;1	-24.1	9.0	0.0	0.1	11.7	
BFW Pump Enclosure 2-Side 1	4.8	76.9	0.0	3.0	654.3	-67.3	r.	-22.7	-0.5	0.0	0.0	4	
BFW Pump Enclosure 2-Side 2	97.2	6.92	0.0	3.0	643.1	-67.2	7:1	-22.3	-0.4	0,0	8.0	12.7	
BFW Pump Enclosure 2-Side 3	8 .4	76.9	0.0	3.0	646.8	-67.2	1 .5	-23.5	-0.5	0.0	1.6	16.9	
BFW Pump Enclosure 2-Side 4	97.2	76.9	0.0	3.0	657.8	-67.4	1.6	-25.3	9.0-	0.0	0.0	ຜູ	
BFW Pump Enclosure 2-Top	103.4	76.9	0.0	0.0	650.5	-67.3	7.	-20.3	- 0.4	0.0	0.8	17.4	
Condensate Equipment Bldg 1 - East Side	77.7	26.7	0.0	3.0	745.5	-68.4	6:1	-7.0	9.0-	0.0	0.0	5.7	
Condensate Equipment Bidg 1 - North Side	75.2	56.7	0.0	3.0	747.4	-68.5	9.	-18.8	-0.3	0.0	0.7	8.0	
Condensate Equipment Bldg 1 - Roof	0.87	51.7	0.0	0.0	752.7	-68.5	9.1	-7.8	9.0-	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	4.0-	0.0	0.5	3.6	
Condensate Equipment Bldg 1 - West Side	7.7	56.7	0.0	3.0	759.8	-68.6	6.	-18.3	4.0-	0.0	1.1	-3.5	
Condensate Equipment Bldg 2 - East Side	77.7	56.7	0.0	3.0	662.8	-67.4	9.1	-6.0	9.0-	0:0	0.0	8.3	
Condensate Equipment Bldg 2 - North Side	75.2	56.7	0.0	3.0	664.0	-67.4	9.1	-6.1	9.0-	0.0	0.0	5.7	
Condensate Equipment Bldg 2 - Roof	78.0	51.7	0.0	0.0	8.699	-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	6.3	0.0	0.0	1.7	
Condensate Equipment Bldg 2 - West Side	7.7	56.7	0.0	3.0	676.8	-67.6	1.7	-13.0	6.3	0:0	0.0	7.	
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	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Αį	Directivity	Reflection	SPL	
	08(A)	dB(A)	용	쁑	ε	쁑	æ	8	뜅	용	dB	dB(A)	
CTO Air lates o	1000												П
	100.2	87.9	D.O.	0.0	666.4	-67.5	2.8	-26.1	-7.1	0.0	0.2	8.4	
C.1 G. Air Inlet Duct 1 - North	90 0.00	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	6. 6. 6.	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	
CT3 Air Inlet Duct 2 - South	6.00	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	60	. e.	
CTG Building 1 - East Facade	95.1	64.7	0.0	3.0	718.8	-68.1	0.8	5.0	6	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	6 3	0.0	0.0	22.8	
CT3 Building 1 - Roof	89.9	29.7	0.0	0.0	733.1	-68.3	-0.1	4.7	40.4	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	93.6	77.0	0.0	3,0	719.5	-68.1	1.8	9.9	-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	7.	0.0	0.5	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	7.7	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	9.0	-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	6.0	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	99.6	0.77	0.0	3.0	617.4	-96.8	1.5	-0.1	4.0	0.0	0.0	21.8	
CTG Building 2 Vent Louvers - North	9.6	0.77	0.0	3.0	616.4	-66.8	1,5	-0.1	-5.4	0:0	4.	23.2	
CTG Building 2 Vent Louvers - West	93.6	0.77	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	6.4	
Demin Water Pump	93.1	93.1	0.0	0.0	675.5	-67.6	3.1	-24.9	-5.0	0:0	0.5	2.2	
Dust 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	
Dust 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	8,8	-28.2	89.	0.0	1.2	83.9	
Emergency Diesel Generator - Top	8.2	ත් ව	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	2.8	8.48	
Existation Transformer 1	80.0	80.0	0.0	0.0	718.7	-68.1	2.2	-24.5	£.	0.0	2.8	-8.9	
Exatation Transformer 2	80.0	90.0	0.0	0.0	617.1	-66.8	1.6	5.3	-2.2	0.0	2.4	9.6	
Firs Pump Building - Roof	4	-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	6.3	0.0	0.0	.80.1	
Fire Pump Building - Side 2	æģ rči	-23.3	0.0	3.0	631.3	-67.0	1.8	9.9	-0.4	0.0	0.0	77.7	
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agrice	PWL	PWL/unit	Lone Lone	Non-Sphere	Distance	Spreading	Ground Effect	ins, Loss	Air	Directivity	Reflection	SP	
	2000	(2)	3	9	=	on	aB	aB B	8	8	g	dB(≱)	
Fire Pump Building - Side 3	-5.7	-23.3	0.0	3.0	627.3	-66.9	1.7	-64	50.5	C	00	27.0	
Fire Pump Building - Side 4	-8.5	-23.3	0.0	3.0	630.0	-67.0	1,8	4.0	5	00	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	00	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	φ φ	0:0	0,0	-6.7	
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	0,1-	
Gas Affeccoler 1	101.0	%	0.0	0.0	806.0	-69.1	3.2	-27.6	-3.9	0.0	0.0	3.6	
Ges Affeccoler 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 Bidg 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	
Ges Compressor Bidg Louvers - N	105.7	0.86	0.0	3.0	790.8	-69.0	2.9	-27.3	-3.3	0.0	0.0	12.0	
Gas Compressor Bidg 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	
Ges Compressor Bidg 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	7.97	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	7.97	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	7.97	0.0	0.0	791.0	-69.0	1.2	-17.7	4.0	0.0	0.0	15.1	
Gas Compressor Building - South Side	97.5	7.97	0.0	3.0	793.2	-69.0	1.7	-19.5	-0.3	0.0	0.0	13.4	
Ges Compressor Building - West Side	99.1	7.97	0.0	3.0	97.62	-69.0	1.7	-21.3	-0.4	0.0	0.0	13.1	
GGC 1 - Side 1	%	75.7	0.0	3.0	723.0	-68.2	2.1	-26.4	-1.7	0.0	4.1	4.2	
GSU 1 - Side 2	96	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	96.0	75.7	0.0	3.0	720.1	-68.1	2.1	-26.3	-1.6	0.0	7.5	9.4	
GSU 1 - Side 4	<u>%</u>	78.0	0.0	3.0	728.5	-68.2	2.1	-26.5	4.8	0.0	2.5	5.2	
GSU 1 - 70p	9 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	<u>8</u>	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	<u>¥</u>	78.0	0.0	3.0	615.0	-66.8	1.2	6.1-	-2.6	0.0	0.0	27.0	
GSU Z - Side 3	9 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	9 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	9.0	72.9	0.0	0.0	621.5	-66.9	1.	-6.3	-1.7	0.0	1.7	22.0	
HKSG 1 - Body - Side 1	97.0	9.99	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	9,99	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	4.0	-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	8.	0.0	3.0	721.3	-68.2	2.0	9.0-	-0.1	0.0	0.0	7,5	



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Source	PWL	PWL/unit	Топе	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	į	Directivity	Reflection	Ī	
	dB(A)	dB(A)	ф	gg GB	٤	쁑	98	#	8	gg gg	£ 5	dR(A)	
											}	/	7
HRSG 1 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	719.5	-68.1	2.0	<u>-</u> -	-0.2	0	6	9	Γ
HRSG 1 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	719.1	-68.1	2.0	46	9 6	9 6	9 6	o 4	
	65.6	44.6	0.0	3.0	720.4	-68.1	5.0	-3.7	1 0	000	9 6		
	85.6	44.7	0.0	3.0	722.6	-68.2	2.0	4.4	1 0	200	2 6		
	65.6	44.9	0.0	3.0	724.4	-68.2	2.0	6.2	Ç	9 6	2 6	2.0	
_	65.6	44.8	0.0	3.0	724.7	-68.2	2.0	တို	ģ		9 6	5 P	•
~ .	65.6	44.8	0.0	3.0	723.5	-68.2	2.0	6,5	-0.2	0	2 6	, e	
	98.6	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	4.0-	0.0	50.0	5. 1.	
	90.0	81.2	0.0	3.0	727.2	-68.2	1.6	-11.1	4.0	0.0	1.0	20.5	
100 - 11 - 100 mg - 1	99.0	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	4.0	0.0	2.1	18.0	
	96 96 96	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	4.0-	0.0	0.1	4.5	
75061-12-51062	96 96	76.2	0.0	3.0	725.7	-68.2	1.0	6.3	4.0	0.0	0.0	23.B	
MK6G 1 - T2 - Top	9.96	80.4	0.0	0.0	730.5	-68.3	-0.1	-7.5	9.5	0.0	0.3	20.6	
HKSG Z - Body - Side 1	97.0	9.99	0.0	3.0	626.6	-66.9	0.4	-15.8	-0.3	0.0	0	17.5	
RRSG 2 - Body - Side 2	97.0	9.99	0.0	3.0	616.2	-66.8	0.5	-1,3	-0.7	0.0	000	 	
HRGG 2 - Exhaust Glack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0.0	6.3	-3.6	00	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	
HKOG Z - Stack Walls - Side	65.6	44.8	0.0	3.0	616.7	-66.8	1,9	8. Ū	ė.	0.0	00	2.7	
HKGG Z - 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	. 6	
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-66.8	1.9	6.1-	0.2	0.0	0.0	2.5	
HKOG Z - 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	22	
TROGIZ - OTACK WAIR - SIDE 5	92.6	44.7	0.0	3.0	617.8	-66.8	1.9	4.4	0.1	0.0	0.0	, Q	
THOO STATE OF THE POINT IN THE	85.6	44.9	0.0	3.0	619.6	-66.8	1.9	6.1	6.1	0.0	0.0	-2.6	
LINGS 2 Clack Walls - Clack	90.0	8.44	0.0	3.0	620.0	-66.8	1.9	-7.0	ó.	0.0	0.0	50	
THOUGH - OTAGE WAIIS - OTAGE &	65.6	8.	0.0	3.0	618.9	-66.8	1.9	-7.8	0.1	0.0	0.0	4	
TRUCK - 1 - VIO 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	
TROG Z - 11 - 6100 Z	9.96	81.2	0.0	3.0	624.0	-86.9	1.2	6.6	6.0-	0.0	20	34.2	
HK662-11-100	9.96	82.8	0.0	0.0	627.9	6.99-	0.7	-5.4	-0.4	0.0	2.4	27.0	
HKSG Z - Z - Side 1	9.96	76.2	0.0	3.0	631.1	-67.0	9.0	-12.3	6,0	0.0		: c	
HKSG 2 - 12 - Side 2	96.6	76.2	0.0	3.0	622.3	6.99-	0.7	1.8	-0.7	0		34 6	
HRSG 2 - T2 - Top	9.96	80.4	0.0	0.0	627.4	-66.9	0.0	0.9	9	9 6		0.1.0	
HRSG Recirc Pump 1	93.0	93.0	0.0	0.0	711.2	-68.0	3.1	-26.3	-2.6	0.0		7.3	
						-	-	-	-	-	-	5	



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		1000											ſ
	dB(A)	dB(A)	# # # # # # # # # # # # # # # # # # #	Non-Sphere dB	Uistance	Spreading	Ground Effect dB	Ins. Loss dB	등 용	Directivity	Reflection dB	SPL dB(A)	
													1
HRSG Redirc 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	90.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	ب 53	0.0	8.5	6.6	
Isclation Transformer 2	80.0	80.0	0.0	0.0	601.3	-66.6	1.2	-2.9	-2.8	0.0	2.4	4.1.4	
Rooftop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	4,4	6,4	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	
Rcoftop Vent Fan - Condensate Bidg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	-2.0	5.	0.0	0.0	\$6.0	
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	(3.6	
Rcoftop Vent Fan - CTG Bidg 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	
Rcoftop 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	
Rcoftop Vent Fan - CTG Bldg 3	87.8	87.8	0.0	0.0	728.3	-68.2	2.9	-3.1	4.8-	0.0	0.0	16.0	
Rcoftop Vent Fan - CTG Bidg 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	
Rcoftop Vent Fan - CTG Bidg 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	
Rcoftop Vent Fan - CTG Bidg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	-0.8	4.0	0.0	0.0	13.8	
Rooftop Vent Fan - Gas Compressor Bidg 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	
Rcoftop 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	9.	
Rcoftop Vent Fan - Gas Compressor Bldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	3.1	-18.3	75,1	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	
Rcoftop Vent Fan - STG Bldg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	4.	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	
Rcoftop 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	
Reoftop Vent Fan - STG Bidg 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 Bidg1	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 Bidg2	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	ထု	0.0	0.0	19.2	
Scanner Cooling Air Blower 2	93.1	93.1	0.0	0.0	624.3	6.99-	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	4.6	-8.0	0.0	31.5	
Startup Vent - Aux Boller Startup	114.2	114.2	0.0	0.0	683.5	-67.7	1.3	0.0	4.6	-8.0	0.0	31.4	



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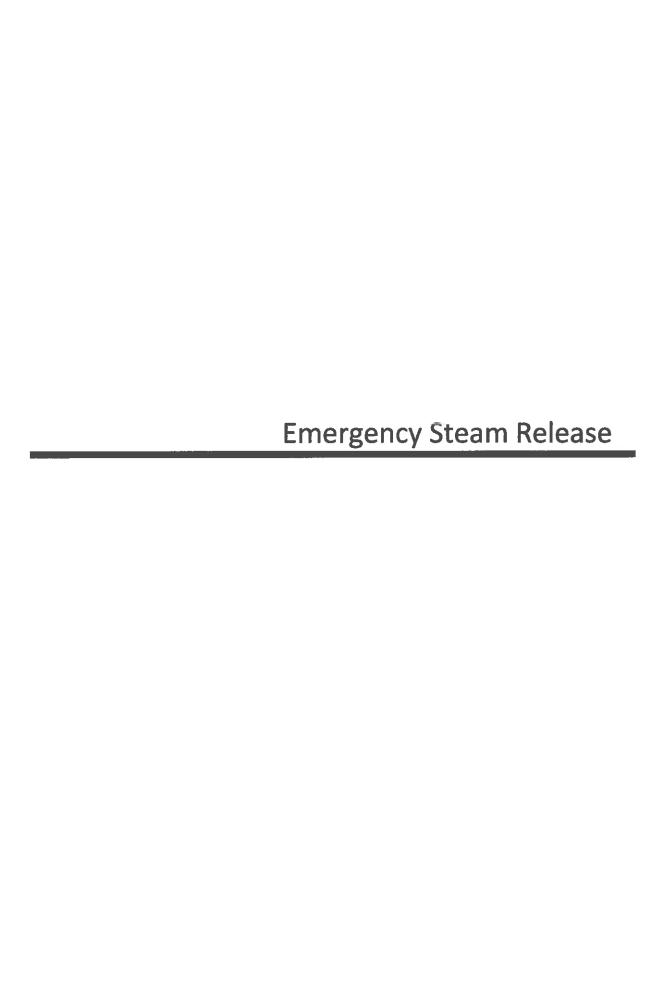
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Scurce	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Air	Directivity	Reflection	SPL	Г
	(A)	dB(A)	8	aB	Ε	8	gg Gg	쁑	쁑	쁑	쁑	dB(A)	
Startup Vert - HRSG Blowdown 1	114.2	114.2	0:0	0.0	608.5	-66.7	1.2	0.0	-7.9	-82	0.7	33.5	
Startup Vent - HRSG Blowdown 2	114.2	114.2	0.0	0.0	713.7	-68.1	1.3	0.0	, eb	-7.8	90	34.7	
Startup Vent - Steam Turbine Drains Tank	114.2	114.2	0.0	0.0	623.9	-67.3	2.6	Ş	9.6	9.8	0.0	32.2	
Steam Turbine Bidg 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	20.7	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	29.9	0.0	0.0	746.8	-68.5	0.2	-6.2	-0.5	0.0	0.2	14.1	
Steam Turbine Bidg 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	
Staam Turbine Bldg 1 - West Facada	92.4	64.9	0:0	3.0	7.65.7	-68.7	1.2	-18.3	-0.3	0.0	0.0	4.6	
Steam Turbine Bldg 2 - East Facade	92.4	64.9	0.0	3.0	626.1	6.99-	0.9	-1.0	-0.4	0.0	0.0	28.0	
Steam Turbine Bldg 2 - North Facade	20.2	6.49	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	6.4	-0.5	0.0	0.0	16.4	
Steam Turbine Bldg 2 - South Facade 1	95.7	6.9	0.0	3.0	647.9	-67.2	6.0	9.0	-0.2	0.0	0.1	23.0	
Staam Turbine Bldg 2 - West Facada	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	4.1-	0.0	0.0	2.2	
STG Building 1 Vent Louvers - South 2	80.3	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	80.3 30.3	76.8	0.0	3.0	765.8	-68.7	1.5	-24.0	4.8	0.0	7.0	0.0	
STG Building 2 Vent Louvers - East	89.3	76.8	0.0	3.0	625.6	6.99-	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	627.9	-67.4	1.	-17.2	÷	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	7.	
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	80.8	0.0	0.0	645.2	-67.2	2.8	-26.0	-3.1	0.0	0.0	8.5	
Waste Water Pump	 1.3	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	£.	4.5	-0.5	0:0	0.0	15.1	
Water Treatment Building - Roof	4.38	56.7	0.0	0.0	685.7	-67.7	6.0	5.6	9.0	0.0	0.0	13.5	
Water Treatment Suilding - South Side	83.3	56.7	0.0	3.0	684.8	-67.7	7.5	-14.9	-0.3	0.0	0.0	8.4	
Water Treatment Building - West Side	78.9	56.7	0.0	3.0	711.6	-68.0	1.6	-15.1	Ģ	0.0	0.0	0.0	
Wilb Ventilation Louvers - North Side	0.06	78.0	0.0	3.0	679.3	-67.6	2.6	-5.2	ري 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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Clear River Energy Center - Receiver Sound Levels Emergency Steam Release Analysis - A-Weight - ISO9613

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

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

	1	T		T	T		T	T	T	1
8kHz		-26.3			-			-		-
4kHz		26.4		13.3		-3.7		-7.5		-25.3
2kHz		41.5		8.4		28.6		27.72		20.6
1kHz		38.2		34.1		31.8		32.9		25.6
200Hz		42.6		40.4		37.9		38.1		32.5
250Hz	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53.2	sad (East)	50.4		48.3		48.0	sed (South)	43.0
125Hz	ke Road	58.1	choolhouse Ro	54.5	mg Drive	52.1		52.7	choolhouse Ro	47.3
63Hz	I - Waltum Lai	62.5	2 - Jackson Sc	60.3	3 - Doe Crossi	58.1	1 - Buck Hill R	59.8	- Jeckson Sc	55.3
31Hz	Receiver M1 - Waltum Lake Road	59.9	Receiver M2 - Jackson Schoolhouse Road (East)	58.6	Receiver M3 - Doe Crossing Drive	56.8	Receiver M4 - Buck Hill Road	58.3	Receiver M5 - Jackson Schoolhouse Road (South)	53.9



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Source source	PWL	· A	SrcType	KO-Wall	Size	ल	83	125	250	200	1 2	4	H	8
一方の大学者の大学では、 はいましましま	dB(A)		* **		m,m²	Hz	Hz	Ž	-	=	N	N	_	Z TX
ACC 1 Bottom	109.0	72.74	Area	0	4226.63	110.0	113.0	113.0	109.3	106.9 10	104.3	L	93.0 8	86.9
ACC 1 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9 10		98.5 93		36.9
ACC 2 Bottom	109.0	72.74	Ārea	0	4226.63	110.0	113.0	113.0	109.3	106.9 10	104.3		93.0 8	86.9
ACC 2 Top	109.0	72.74	Area	0	4228.07	110.0	113.0	113.0	109.3	106.9				86.9
ACHE 1	89.0	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	6.99	94.3	88.5 83	83.0 7	76.9
ACHE 2	0.66	72.92	Area	0	405.93	100.0	103.0	103.0	99.3	6.99	94.3 86	88.5 83	83.0 7	76.9
Air Process Skid 2	93.0	93.00	Point	0		85.9	6.96	6.06	80.9	87.9				6,08
Air Process Skid 2	93.0	93.00	Point	0		85.9	6'96	90.9						80.9
Ammonia Forwarding Pump	93.1	93.10	Point	0		86.0	97.0	91.0						0.10
Ammonia Injection Skid 1	98.1	98.10	Point	0		91.0	102.0	0.96	0.96					86.0
Ammonia Injection Skid 2	98.1	98.10	Point	0		91.0	102.0	96.0		93.0				86.0
Aux Boiler Building - East Side	9.6	-30.27	Area	ы	234.94	14.8	10.7	2.7				_	.—	44.3
Aux Boiler Building - North Side	-8.0	-30.27	Area	ო	268.09	15.3	11.3	6.3						43.7
Aux Boller Building - Roof	-2.6	-30.27	Area	0	579.10	18.7	14.6	9.6		_		_		40.4
Aux Boiler Building - South Side	-6.0	-30.27	Area	က	268.09	15.3	11.3	6.3						43.7
Aux Boiler Building - West Side	φ	-30.27	Area	60	235.85	14.8	10.7	2.2		-15.2 -2			44.2 4	44.3
Aux Boiler Building Vent Louvers - North	86.0	75.22	Area	က	12.00	98.3	95.8	92.8					73.8 7	73.8
Aux Boiler Building Vent Louvers - South	86.0	75.22	Area	m	12.00	98.3	92.8	87.8		83.8	78.8	74.8 7	73.8 7	73.8
Aux Boiler FD Fan Inlet	0.0	0.00	Point	0		2.3	2.8	1.7		-1.2	-5.2 -1	-12.2 -19	-19.2	24.3
Aux Boiler Stack Exhaust	100.0	100.00	Point	0		102.2	102.2	100.2	99.2	97.2				94.2
Aux Transformer 1 - Side 1	82.0	69.16	Area	က	19.21	7.8.7	84.6	9.98	81.7	81.7			65.7 5	58.6
Aux Transformer 1 - Side 2	82.0	70.16	Area	ო	15.27	78.7	84.6	9.98	81.7	81.7				58.6
Aux Transformer 1 - Side 3	82.0	69.18	Area	ო	19.13	78.7	84.6	9.98	81.7	7.18	75.6 70		65.7 5	58.6
Aux Transformer 1 - Side 4	82.0	70.20	Area	ო	15.15	78.7	84.6	9.98	81.7	81.7	75.6 70	70.6	65.7 5	58.6
Aux Transformer 1 - Top	85.0	06.99	Area	0	32.39	78.7	84.6	96.6	81.7	81.7	75.6 70		65.7 5	58.6
Aux Transformer 2 - Side 1	82.0	69.16	Area	m	19.21	78.7	84.6	96.6	81.7	81.7	75.6 70	70.6	65.7 5	58.6
Aux Transformer 2 - Side 2	82.0	70.16	Area	က	15.27	78.7	84.6	9.98	81.7	81.7	75.6 70	70.6	65.7 5	58.6
Aux Transformer 2 - Side 3	82.0	69.18	Area	ო	19.13	78.7	84.6	86.6		81.7		70.6	65.7 5	58.6
Aux Transformer 2 - Side 4	82.0	70.20	Area	က	15.15	78.7	84.6	9.98	81.7	81.7	75.6 70	20.6	65.7 5	58.6
Aux Transformer 2 - Top	82.0	06.99	Area	0	32.39	78.7	84.6	86.6	81.7	81.7	75.6 70	20.6	65.7 5	58.6
Brw Pump Enclosure 1-Side 1	94. 4.	76.92	Area	е	56.38	110.5	107.9	104.8	6.66	8 6.78	81.9	_	69.9	63.9
BFW Pump Enclosure 1-Side 2	97.2	76.92	Area	m	107.28	113.3	110.7	107.6			84.7 8(72.7 6	66.7
BFW Pump Enclosure 1-Side 3	4.4	76.92	Area	3	56.38	110.5	107.9	104.8	6.66	8 6.78	81.9 7	77.9 6:	69.9	63.9



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																									•								
8 X X	66.7	72.9	83.8	66.7	63.8	66.7	72.8	46.0	43.4	46.2	43.4	46.0	46.0	43.4	46.2	43.4	46.0	95.0	95.0	95.0	95.0	59.0	29.0	29.0	29.0	59.0	59.0	50.6	49.5	45.4	50.6	68.7	68.7
4 7 4	72.7	78.9	8.69	72.7	8.69	72.7	78.9	47.0	44.4	47.2	4.4	47.0	47.0	4.44	47.2	44.4	47.0	98.0	98.0	104.0	104.0	84.0	84.0	84.0	84.0	84.0	84.0	59.5	58.4	54.3	59.5	77.6	77.6
~ 축	7.08	86.9	77.8	80.7	77.8	80.7	86.9	52.9	50.4	53.2	50.4	52.9	52.9	50.4	53.2	50.4	52.9	94.0	94.0	96.0	0.96	97.0	97.0	97.0	97.0	97.0	97.0	62.4	61.3	57.2	62.4	73.5	73.5
- Ž	54.7	80.9	8.1.8	7.4	81.8	84.7	6.06	59.9	57.4	60.2	57.4	59.9	59.9	57.4	60.2	57.4	59.9	95.0	95.0	91.0	91.0	83.0	83.0	83.0	83.0	83.0	83.0	66.7	65.6	61.5	66.7	72.8	72.8
1 500 E	90.7	96.9	87.8	200.7	87.8	90.7	6'96	69.0	66.4	69.2	66.4	69.0	69.0	66.4	69.2	66.4	69.0	98.0	98.0	90.0	90.0	93.0	93.0	93.0	93.0	93.0	93.0	77.0	75.8	71.8	77.0	76.1	76.1
250 H	102.7	108.9	8.66	102.7	8.86	102.7	108.8	83.0	80.4	83.2	80.4	83.0	83.0	80.4	83.2	80.4	83.0	101.0	101.0	94.0	94.0	100.0	100.0	100.0	100.0	100.0	100.0	87.8	86.7	82.6	87.8	76.9	76.9
52 권	107.6	113.9	104.8	107.6	104.7	107.6	113.8	88.9	86.4	89.2	86.4	88.9	88.9	86.4	89.2	86.4	88.9	109.9	109.9	101.0	101.0	100.9	100.9	100.9	100.9	100.9	100.9	102.8	101.7	97.6	102.8	89.9	89.9
8 7	110.7	116.9	107.8	110.7	107.8	110.7	116.9	94.9	92.4	95.2	92.4	94.9	94.9	92.4	95.2	92.4	94.9	102.0	102.0	105.0	105.0		107.0	107.0	107.0	107.0	107.0	103.5	102.4	98.3	103.5	88.6	88.6
동 칼	113.3	119.5	110.4	113.3	110.4	113.3	119.4	92.0	89.4	92.2	89.4	92.0	92.0	89.4	92.2	89.4	92.0	101.6	101.6	112.0	112.0	111.6	111.6	111.6	111.6	111.6	111.6	109.7	108.6	104.5	109.7	93.3	88.3
Size m,m	107.52	452.03	55.67	107.52	55.43	107.52	445.84	126.65	70.14	425.27	70.14	126.59	126.65	70.14	425.27	70.14	126.59			213.41	211.99	35.83	35.50	46.57	36.52	36.74	47.70	1101.55	851.17	1047.08	1100.83	18.00	18.00
KO-Wall	8	0	es	က	က	ო	0	ო	m	0	m	က	က	က	0	ო	က	0	0	0	0	0	0	0	0	0	0	63	m	0	ო	က	က
SrcType	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Point	Point	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
3	76.92	76.92	76.92	76.92	76.92	76.92	76.92	56.70	56.70	51.70	56.70	56.70	56.70	56.70	51.70	56.70	56.70	103.79	103.79	82.90	82.93	84.40	<u>2</u>	83.26	84.32	84.29	83.15	57.70	57.70	52.70	57.70	70.00	70.00
PWL dB(A)	97.2	103.5	84.4	97.2	94.4	97.2	103.4	7.7.7	75.2	78.0	75.2	77.7	7.77	75.2	78.0	75.2	77.7	103.8	103.8	106.2	106.2	6.66	99.9	99.9	99.9	99.9	99.9	88.1	87.0	82.9	88.1	82.6	82.6
Source	BFW Pump Enclosure 1-Side 4	BFW Pump Enclosure 1-Top	BFW Pump Enclosure 2-Side 1	BFW Pump Enclosure 2-Side 2	BFW Pump Enclosure 2-Side 3	BFW Pump Enclosure 2-Side 4	BFW Pump Enclosure 2-Top	Condensate Equipment Blog 1 - East Side	Condensate Equipment Bidg 1 - North Side	Condensate Equipment Bldg 1 ~ Rocf	Condensate Equipment Bldg 1 - South Side	Condensate Equipment Bldg 1 - West Side	Condensate Equipment Bldg 2 - East Side	Condensate Equipment Bidg 2 - North Side	Condensate Equipment Bldg 2 - Roof	Condensate Equipment Bidg 2 - South Side	Condensate Equipment Bidg 2 - West Side	CTG 1 - Turbine Compartment Vent Fan	CTG 2 - Turbine Compartment Vent Fan	CTG Air Inlet 1	CTG Air Inlet 2	CTG Air Inlet Duct 1 - North	CTG Air Inlet Duct 1 - South	CTG Air Inlet Duct 1 - Top	CTG Air Injet Duct 2 - North	CTG Air Inlet Duct 2 - South	CTG Air Inlet Duct 2 - Top	CTG Building 1 - East Facade	CTG Building 1 - North Facade	CTG Building 1 - Roof	CTG Building 1 - West Facade	CTG Building 1 Vent Louvers - East	CTG Building 1 Vent Louvers - North



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																	•										•							
00	KHZ	23.7	50.6	49.5	42.4	50.6	68.7	68.7	68.7	81.0	82.9	82.9	-13.0	-13.0	-13.0	56.6	56.6	-35.9	-37.5	40.3	-37.5	-40.3	103.1	79.4	80.9	80.9	85.2	85.2	24.7	7.46	7.76	94.7	67.3	65.7
4	KH2	29.6	59.5	58.4	54.3	59.5	77.6	77.6	77.6	85.0	86.9	86.9	4.0	4.0	4.0	63.7	63.7	-34.9	-36.5	-39.3	-36.5	-39,3	83.9	87.4	84.9	84.9	93.2	93.2	96.7	96.7	96.7	96.7	68.3	66.7
2	水	30.5	62.4	61.3	57.2	62.4	73.5	73.5	73.5	86.0	87.9	87.9	3.0	3.0	3.0	68.6	68.6	-28.9	-30.5	33.3	-30.5	-33.3	85.5	89.4	85.9	85.9	94.2	94.2	97.7	97.7	97.7	97.7	74.3	72.7
-	KH2	35.8	66.7	65.6	61.5	66.7	72.8	72.8	72.8	87.0	88.9	88.9	4.0	4.0	4.0	73.6	73.6	-21.9	-23.5	-26.3	-23.5	-26.3	77.8	79.4	86.9	86.9	95.2	95.2	99.7	99.7	99.7	99.7	81.3	79.7
200	꾸	47.1	77.0	75.9	71.8	77.0	76.1	76.1	76.1	88.0	89.9	89.9	2.0	2.0	2.0	79.7	79.7	-12.9	-14.5	-17.3	-14.5	-17.3	76.0	74.4	87.9	87.9	96.2	96.2	101.7	101.7	101.7	101.7	90.3	88.7
230	Ŧ	6'89	87.8	86.7	82.6	87.8	76.9	76.9	76.9	91.0	92.9	92.9	-1.0	4.0	-4.0	7.67	79.7	1.1	-0.5	-3.3	-0.5	-3.3	81.7	72.4	90.9	90.9	97.2	97.2	104.7	104.7	104.7	104.7	104.3	102.7
125	¥	6.77	102.8	101.7	97.6	102.8	89.9	89.9	89.9	91.0	92.9	92.9	-12.0	-12.0	-12.0	84.6	84.6	7.1	5.5	2.7	5.5	2.7	83.8	-15.6	90.9	90.9	98.1	98.1	105.7	105.7	105.7	105.7	110.3	108.7
8	샾	9.08	103.5	102.4	98.3	103.5	88.6	88.6	88.6	97.0	98.9	98.9	-25.0	-25.0	-25.0	82.6	82.6	13.1	11.5	7.00	11.5	8.7	95.7	-15.6	96.9	96.9	102.2	102.2	108.7	108.7	108.7	108.7	116.3	114.7
હ	보	89.3	109.7	108.6	104.5	109.7	93.3	93.3	93.3	86.0	87.9	87.9	-25.0	-25.0	-25.0	76.7	7.97	10.1	8.5	5.7	8.5	5.7	97.9	-15.6	85.9	85.9	99.8	99.8	102.2	102.2	102.2	102.2	113.3	111.7
Size	m,m²	18.00	1100.24	852.46	1045.75	1098.21	18.00	18.00	18.00				38.95	39.05	46.93			82.33	57.22	29.99	57.22	30.11	49.02				50.09	51.73	00.9	6.00	00.9	6.00	173.15	119.51
KO-Wall		3	3	m	0	က	ო	က	က	0	0	0	ന	က	0	0	0	0	ო	က	ო	က	0	0	0	0	0	0	60	က	60	က	က	က
SrcType		Area	Area	Area	Area	Area	Area	Area	Area	Point	Point	Point	Area	Area	Area	Point	Point	Area	Area	Area	Area	Area	Area	Point	Point	Point	Area	Area	Area	Area	Area	Area	Area	Area
*		50.55	57.70	57.70	52.70	57.70	70.00	70.00	70.00	93.10	95.00	95.00	-7.75	-7.76	-8.56	80.00	80.00	-23.30	-23.30	-23.30	-23.30	-23.30	85.30	93.00	93.00	93.00	84.00	83.86	95.76	96'26	96'26	97.96	76.70	76.70
 M.	dB(A)	63.1	88.1	87.0	82.9	88.1	82.6	82.6	82.6	93.1	95.0	95.0	00 i.2	60	8.2	80.0	80.0	4.	-5.7	ф го	-5.7	ф С	102.2	93.0	93.0	93.0	101.0	101.0	105.7	105.7	105.7	105.7	99.1	97.5
aunos		CTG Building 1 Vent Louvers - West	CTG Building 2 - East Facade	CTG Building 2 - North Facade	CTG Building 2 - Roof	CTG Building 2 - West Facade	CTG Building 2 Vent Louvers - East	CTG Building 2 Vent Louvers - North	CTG Building 2 Vent Louvers - West	Demin Water Pump	Dust Burner Skid 1	Duct Burner Skid 2	Emergency Diesel Generator - Side 1	Emergency Diesel Generator - Side 2	Emergency Diesal Generator - Top	Excitation Transformer 1	Excitation Transformer 2	Firs Pump Building - Roof	Fire Pump Building - Side 1	Fire Pump Building - Side 2	Fire Pump Building - Side 3	Fire Pump Building - Side 4	Fuel Gas Dewpoint Heater	Fuel Gas Metering and Regulating Station	Fuel Gas Performance Heater 2	Fual Gas Performance Heater 2	Gas Afteccoler 1	Gas Affeccoler 2	Gas Compressor Bldg Louvers - E	Gas Compressor Bldg Louvers - N	Gas Compressor Bldg Louvers - S	Gas Compressor Bldg Louvers - W	Gas Compressor Building - East Sida	Gas Compressor Building - North Side



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Clear River Energy Center - Source List Emergency Steam Release Analysis - A-Weight - ISO9613

Source	MA	3	SerTime	KO Well	O. J.	5	8		H	-	F		-	
次が多くない。	dB(A)		2		m,m²	. Y	3 7	2 1	五五	포	K - X	KHZ KHZ		10 12 10
Ges Compressor Building - Roof	101.0	76.70	Area		269.92	115.3	118.2	1122 1	-	-	22 7	-		000
Gas Compressor Building - South Side	97.5	76.70	Area	60	120.04	11.8		_		_		_	20.0	200.2
Gas Compressor Building - West Side	99.1	76.70	Area	ro	173.41	113.4		_						67.3
GSU 1 - Side 1	94.0	75.71	Area	ო	67.39	7.06							77.7	200
GSU 1 - Side 2	94.0	78.04	Area	က	39.49	200	96.6							902
GSU 1 - Side 3	94.0	75.71	Area	m	67.51	90.7	96.6	98.6					_	902
GSU 1 - Side 4	94.0	78.02	Area	n	39.63	90.7	96.6					_	_	206
GSU 1 - Top	0.40	72.94	Area	0	127.76	7.06	96.6							902
GSU 2 - Side 1	95.0	75.71	Area	m	67.39	90.7	96.6			_			_	902
GSU 2 - Side 2	94.0	78.04	Area	ო	39.48	7.06	96.6	98.6					_	20.6
GSU 2 - Side 3	0.40	75.71	Area	m	67.51	90.7	96.6	98.6				_	_	20.6
GSU 2 - Side 4	94.0	78.02	Area	က	39.63	90.7	96.6	98.6					_	902
GSU 2 - Top	8.0	72.94	Area	0	127.76	7.06	96.6	98.6					_	902
HESG 1 - Body - Side 1	97.0	66.65	Area	e	1092.60	106.0								41.4
HR.SG 1 - Body - Side 2	97.0	66.65	Area	ო	1092.93	106.0	111.4	110.3			_	_		41.4
HRSG 1 - Exhaust Stack	102.4	102.42	Point	0		117.6	123.0	_		_				47.0
HRSG 1 - Piping and Valves	98.5	80.00	Line	0	71.44	105.6		_						62.0
	65.6	44.81	Area	er)	118.98	85.3	88.2	78.3						7.7-
	65.6	44.90	Area	ო	116.55	85.3	88.2						22.3	7.7-
	65.6	44.70	Area	ო	122.00	85.3	88.2	78.3						7.7-
HRSG 1 - Stack Walls - Side 4	65.6	44.55	Area	ო	126.11	85.3	88.2	78.3	63.3	_				7.7-
	9.59	44.74	Area	ო	120.89	85.3	88.2							7.7
HRSG 1 - Stack Walls - Side 6	65.6	44.86	Area	ო	117.59	85.3	88.2		63.3		33.3		_	7.7-
	65.6	44.78	Area	ო	119.83	85.3	88.2		63.3	46.3 33	33.3			1.7.7
HRSG 1 - Stack Walls - Side 8	65.6	44.84	Area	ო	118.04	85.3	88.2	78.3	63.3	46.3 33	33,3		22.3	7.7
HRSG 1 - 11 - Side 1	9.00 9.00	81.17	Area	ന	35.17	105.6	111.0	6.601	99.0	_	88.0 75			1.0
HRSG 1 - 71 - Side 2	99.96	81.15	Area	ෆ	35.32	105.6		109.9	99.0	85.0 88	88.0 75			1.0
HRSG 1 - 11 - Top	9.96	82.76	Area	0	24.38	105.6	111.0	109.9	99.0	85.0 88	88.0	75.0 58	_	1.0
HRSG 1 - 72 - Side 1	56.6	76.25	Area	က	109.34	105.6		109.9	99.0 8	85.0 88	88.0 7.5			1.0
HRSG 1 - 72 - Side 2	999	76.25	Area	ෆ	109.36	105.6	111.0	109.9	99.0	85.0 88	88.0 7.5	_	_	41.0
HRSG 1 - 72 - Top	9.9 9.9	80.37	Area	0	42.32	105.6	111.0	109.9	8 0.66	85.0 88	88.0 7.5	_	_	1.0
HRSG 2 - Body - Side 1	97.0	66.65	Area	m	1092.60	106.0	111,4	110.3	99.4 8	85.4 88	88.4 7.5	_	_	41.4
HNSC 2 - Body - Side 2	97.0	66.65	Area	က	1092.93	106.0	111.4	110.3	99.4 8	85.4 88	88.4 7	_	_	1.4



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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SoundPLAN 7.4

		:						I	İ	ŀ		ł		
	L M	<u>}</u>	edc lybe	KO-Wall	Size	ક્	63	125	250	200		N	4	€
	dB(A)		* * * * * * * * * * * * * * * * * * *		m'm	Ź	77	캎	¥	분	쟢	茶	#	kHz
HKSG 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	0.7	0 06	78.0	200	0.24
HRSG 2 - Stack Walls - Side 1	65.6	44.81	Area	က	118.98	85.3	88.2	78.3	63.3	46.3	33.3	30.2	22.2	7.7
HRSG 2 - Stack Walls - Side 2	65.6	44.90	Area	ო	116.55	85.3	88.2	78.3	63.3	46.3	33.3	30.3	23	7.6-
HKSG 2 - Stack Walls - Side 3	65.6	44.70	Area	၈	122.00	85.3	88.2	78.3	63.3	46.3	33.3	30.3	203	1. 6.
HKSG 2 - Stack Walls - Side 4	65.6	44.55	Area	m	126.11	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	2.2
HRSG2 - Stack Walls - Side 5	65.6	44.74	Area	m	120.89	85.3	88.2	78.3	63.3	46.3	33.3	30.3	200	2.2
HRSG 2 - Stack Walls - Side 6	65.6	44.86	Area	ന	117.59	85.3	88.2	78.3	63.3	46.3	888	30.0	22.2	7.7
HRSG 2 - Stack Walls - Side 7	65.6	44.78	Area	က	119.83	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	7.7-
TROC Z - Stack Walls - Side 8	65.6	44.84	Area	က	118.04	85.3	88.2	78.3	63.3	46.3	33.3	30.3	22.3	7.2.
HK662 - 11 - Side 1	96.6	81.17	Area	က	35.17	105.6	111.0	109.9	99.0	85.0	0.88	75.0	28.0	41.0
11-000 T	96.6	81.15	Area	ന	35.32	105.6	111.0	109.9	99.0	85.0	88.0	75.0		410
100 - 11 - 100 mm	96.6	82.76	Area	0	24.38	105.6	111.0	109.9	0.66	85.0	88.0	75.0		410
HRSG 2 - 12 - Side 1	9.96	76.25	Area	ო	109.34	105.6		109.9	0.66	85.0	88.0	75.0		410
HRSG 2 - 12 - Side 2	9.96	76.25	Area	m	109.36	105.6	111.0	109.9	99.0	85.0	88.0	75.0		410
HKSG 2 - 12 - 10p	9.96	80.37	Area	0	42.32	105.6		109.9	0.66	85.0	88.0	75.0		2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
HKSG Regic Pump 1	93.0	93.00	Point	0		85.9		90.9	90.9	87.9	6.98	65.9		0:-
Trock Redic Pump 2	93.0	93.00	Point	0		85.9	96.9	6.06	6.06	87.9	86.9	85.9		6.08
Isolation ransformer	80.0	80.00	Point	0		7.97	82.6	84.6	79.7	79.7		68.6		25.55
Isolation ransformer 2	80.0	80.00	Point	0		7.97	82.6	84.6	79.7	79.7		68.6		25.00 E
Sooney Vent Fan - Admin 1	87.8	87.78	Point	0		95.0	95.0	91.0	0.78	84.0				76.0
Bondon Vort Earl - Admin 2	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0			_	76.0
Rogin Veni Fan - Admin 4	07.0	87.78	Point	0		95.0	95.0	91.0	87.0	84.0		80.0		76.0
Rogers Vent for Conference of the	20.0	87.78	Foint	0		92.0	95.0	91.0	87.0	0.48		80.0	_	76.0
Rooms Very East Condensate Didg 2	87.00	87.78	Point	0		95.0	95.0	91.0	87.0	84.0		80.0	_	76.0
Roofing Vent Fam. Office Black Blogs	0.70	8/./8	Pol	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0		76.0
Boofton Vent Earl Of C Blog	8.79	87.78	Point	0		95.0	95.0	91.0	87.0	84.0		80.0	_	76.0
Roofon Vent Fan OTO Bland	D 6	87.78	Point	0		95.0	95.0	91.0	87.0	84.0		80.0		76.0
Books Vert Fair OTO Blags	0.70	87.78	Paint	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	_	76.0
Boogles Vent Fan - CTG Bidg 4	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0			0.92
Books Variety OTO Pide 6	87.0	87.78	Point	0	-	95.0	95.0	91.0	87.0	84.0	82.0	80.0	_	76.0
Books Vert Fair Cit Bing 6	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	_	_	_	0.92
Course vent ren - des compressor Elog 1	87.8	87.78	Point	0	_	95.0	95.0	91.0	0.78	0.40			_	76.0



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Clear River Energy Center - Source List Emergency Steam Release Analysis - A-Weight - ISO9613

Source	PWL	LW.	SrcType	KO-Wall	Size	3	63	125	250	200	-	2	4	80	
こう ななはまず こうけい こうしゃ 一巻 アー	dB(A)		,		m,m²	Hz	Hz	Hz	붓	꾿	KFZ	KŁ	KŁŻ	K Z	
Rooftop Vent Fan - Gas Compressor Bidg 2	87.8	87.78	Point	0		95.0	95.0	91.0	⊩		<u> </u>	⊢	Н	76.0	
Roottop Vent Fan - Gas Compressor Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0						76.0	
Roottop Vent Fan - STG Bldg 1	87.8	87.78	Point	0		95.0	95.0	91.0						76.0	
Rooftop Vent Fan - STG Bldg 2	87.8	87.78	Point	0		95.0	95.0	91.0						76.0	
Rcoftop Vent Fan - STG Bldg 3	87.8	87.78	Point	0		95.0	95.0	91.0						76.0	
Rooftop Vent Fan - STG Bidg 4	87.8	87.78	Point	0		95.0	95.0	91.0						78.0	
Rooftop Vent Fan - STG Bldg 5	87.8	87.78	Point	0		95.0	95,0	91.0				_		78.0	
Rcoftop Vent Fan - STG Bldg 6	87.8	87.78	Point	0		95.0	95,0	91.0						78.0	
Rooftop Vent Fan - Water Treatment Bidg1	87.8	87.78	Point	0		95.0	95.0	91.0	87.0	84.0	82.0	80.0	76.0	76.0	
Rcoftop Vent Fan - Water Treatment Bldg2	87.8	87.78	Point	0	•	95.0	95.0	91.0						20.0	
Safety Vent	129.0	129.00	Point	0		113.4	120.9	127.0				_		24.0	
Scanner Cooling Air Blower 1	93.1	93.10	Point	0		86.0	97.0	91.0						810	
Scanner Cooling Air Blower 2	93.1	93,10	Point	0		86.0	97.0	91.0		_			_	210	
Service Water Pump	93.1	93.10	Point	0		86.0	97.0	91.0	91.0					2 6	
Steam Turbine Bldg 1 - East Facade	85.4	57.93	Area	ന	554.75	108.2	104.6	28.5					_	5 6	
Steam Turbine Bldg 1 - North Facade	83.7	57.93	Area	က	373.57	106.5	102 9	94.8					1 0	0.00	
Steam Turbine Bldg 1 - Roof	81.8	52.93	Area	0	764.72	104.6	1010	0 00					5 T	20.04	
Steam Turbine Bldg 1 - South Facade	88.7	57.93	Area	e:	120g 17	1,	1000	000			_			0.0	
Steam Turbine Bldg 1 - West Facade	A5.4	57 03	Aroo	· «	EEO 00	2 6	0.00	ם מ		0.1.0			_	22.0	
Steam Turbine Biolo 2 - East Farada	2 4	2 60	B (2 (55.09	100.2	9.45	96.5		9.77	_		49.6	48.6	
Steam Traffice Did 2 - Note Traffic	1 1	20.70	Area .	יכי	553.90	108.2	104.6	96.5	_	77.6	_		49.6	48.6	
State Table Didg 2 - North Pacade	93.	5 5 5 6	Area	ო	374.51	106.5	102.9	8 8	87.9	75.9	64.9		47.9	46.9	
Steam Luroline Blog 2 - Roof	89.	52.93	Area	0	764.05	104.6	101.0	92.9	86.0	74.0	63.0		46.0	45.0	
Steam Urbine Bidg 2 - South Facade 1	88.7	57.93	Area	က	1206.17	111.6	108.0	6.66	93.0					52.0	
Steam Lurbine bidg 2 - West Facade	85.4	57.93	Area	ന	552.09	108.2	104.6	96.5	89.6					48.6	
SIG Building 1 Vent Louvers - East	82.3	69.79	Area	ო	18.00	8.8	92.7	86.6	81.7					69.7	
STG Building 1 Vent Louvers - South 1	82.3	69.79	Area	63	18.00	8.48	92.7	999	81.7	7.6.7	_			2 69	
STG Building 1 Vent Louvers - South 2	82.3	69.79	Area	es	18.00	8.	92.7	86.6	_	79.7	_			7 69 7	
STG Building 1 Vent Louvers - West	82.3	69.79	Area	က	18.00	8.78	92.7	86.6	_	79.7	_			7 09	
STG Building 2 Vent Louvers - East	82.3	69.79	Area	ო	18.00	8.48	92.7	96.6	_	79.7	_			7 09	
STG Building 2 Vent Louvers - South 1	82.3	69.79	Area	ო	18.00	8	92.7	86,6	_	79.7	_			200	
STG Building 2 Vent Louvers - South 2	82.3	69.79	Area	ო	18.00	8	92.7	86.6	_	7.67	_			7 08	
STG Building 2 Vent Louvers - West	82.3	69.79	Area	က	18.00	<u>9</u>	92.7	86.6	81.7	7.67	_			7.00	
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

							l											
Source State	PW	PWL LW	SrcType	KO-Wall	Size	3	83	125	250	500	-	2	4	60	ť			
	dB(A)				m,m²	본	보	포	뷮	걒	쟢	첫	꿏	꿏	d	1.34	d	
STW Heat Exchanger 2	102.0	90.87	Area	0	12.97	100.8	103.2	99.1	98.2	97.2	96.2	252	28.0	88,0				
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	100				
Water Treatment Building - East Side	78.9	56.70	Area	ო	167.69	93.2	96.2	90.2	84.2	70.2	612	542	48.2	67.5				
Water Treatment Building - North Side	83.3	56.70	Area	m	452.35	97.5	100.5	25	88.5	74.5	. K.	28.5	50.5	. r.				
Water Treatment Building - Roof	86.4	56.70	Area	0	939,65	100.7	103.6	97.6	7 16	777	988	81.6	55.7	2 7				
Water Treatment Building - South Side	83.3	56.70	Area	m	453.24	87.5	100.5	24.5	88	74.5	5 5	, K	13 E	5 2				
Water Treatment Building - West Side	78.9	56.70	Area	m	167.20	93.2	96.1	90.2	84.2	70.2	612	2	48.2	47.5				
WTB Ventilation Louvers - North Side	90.0	77.96	Area	n	16.00	86.5	93.0	0.06	89.0	86.0	84.0	B2 0	9 7	1007				
WTB Ventifation Louvers - South Side	90.0	77.96	Area	e	16.00	86.5	93.0	0.06	89.0	86.0	84.0	82.0	5 6	20.07				
													2	2				

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SoundPLAN 7.4

			-							-		
Source	PWL dB(A)	PWL/unit dB(A)	Tone	Non-Sphere dB	Distance	Spreading dB	Ground Effect dB	Ins. Loss	Ä Ä	Directivity	Reflection	SPL
										3	3	(V)an
Receiver M1 - Wellum Lake Road												
ACC 1 Bottom	109.0	72.7	0.0	0.0	789.5	-68.9	1.0	-2.9	-3.2	683	000	28.7
ACC 1 Top	109.0	72.7	0.0	0.0	790.0	-68.9	0.4	5.5	-2.2	, c	2 6	25.0
ACC 2 Bottom	109.0	72.7	0.0	0.0	706.8	-68.0	0.7	-0.8	-2.9	, eè	0.0	28.5
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
ACRE 1	0.0	72.9	0.0	0.0	751.3	-68.5	2.2	-7.4	-2.2	0.0	0.0	23.1
AL Description	0.0	72.9	0.0	0.0	645.5	-67.2	1.8	5.9	-2.2	0.0	8.0	26.2
Air Process oxid Z	93.0	93.0	0.0	0.0	763.5	-68.6	3.2	-28.0	1.4	0.0	0.0	10.
Ammonia Estatementa Di con	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 Infordation Pump	53.7	93.1	0.0	0.0	762.2	-68.6	3.1	6.7-	4.2	0.0	0.1	15.6
Ammonio Inicaio Skill 1	S 8	1.88	0.0	0.0	714.2	-68.1	3.0	-26.9	-3.0	0.0	2.4	5.6
Arminomia injection okid z	88.	98.1	0.0	0.0	6.609	-66.7	2.5	5.2	-5.2	0.0	3.4	26.8
And boiler building - East Side	9	-30.3	0.0	0.0 0.0	675.2	-67.6	1.5	6.4	-0.4	0.0	0.0	-74.8
Aux soner building - North Side	0.0	-30.3	0.0	3.0	686.4	-67.7	1.6	4.	-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 Boller Building - South Side	0.0	-30.3	0.0	3.0	690.1	-67.8	1.6	80.00	-0.3	0.0	0.3	-78.9
Aux Boller Bullding - West Side	φ Ω	-30.3	0.0	3.0	701.0	6.79-	1.6	-15.2	-0.3	0.0	3.1	-82.2
Aux Boller 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 - Sputh	86.0	75.2	0.0	3.0	694.4	-67.8	2.0	-16.0	-0.9	0.0	0.3	6.7
And Dollar For Fall Illies	0.0	0.0	0.0	0.0	674.3	9.79-	1.5	ξġ	-2.2	0.0	2.5	-71.0
And Tomostomer 4 City 4	0.001	0.00	0.0	0.0	695.0	-67.8	0.7	0.0	4,3	-8.0	0.0	20.6
Any Transformer 1 - 5106 1	82.0	69.2	0.0	3.0	7.17.7	-68.1	2.2	-26.8	8.	0.0	3.5	5.9
	0.20	70.2	0.0	3.0	713.8	-68.1	2.2	-25.6	4.1-	0.0	9:	-6.0
And Transferred A Dist.	82.0	69.2	0.0	3.0	716.0	-68.1	2.2	-25.1	-1.3	0.0	3.2	4.
Any Transference 4 Tax	0.50	70.2	0.0	3.0	719.9	-68.1	2.2	-26.7	-1.7	0.0	4.4	9.0
And Temporal Colors	0.20	60.0	0.0	0.0	716.9	-68.1	2.0	-24.8	<u>۔</u> نع	0.0	3.5	-6.7
And Transformer 2 - Side 1	0.00	69.2	0.0	3.0	617.7	-66.8	1.7	-15.8	-1.0	0.0	8.6	11.7
And Tanastorial 2 - Olde 2	0.20	70.2	0.0	9.0	613.7	-66.8	1.7	1.6-	-1.3	0.0	1.0	10.5
Any Tenenthines 2 - Side 3	0.0	69.2	0.0	3.0	615.7	-66.8	1.7	4.8	4.1-	0.0	3.5	13.6
And Parisiphing 2 - Side 4	82.0	70.2	0.0	3.0	619.7	8.99-	1.8	-17.2	-1.0	0.0	9.3	11.0
Aux ransomer z - lop	0.7	66.9	0.0	0.0	616.7	9.99-	1.3	9.0	-1.7	0.0	2.9	11.7
cray rump Enclosure 1-5ide 1	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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Source	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Air	Directivity	Reflection	SPL	Γ
	<u>88</u>	dB(A)	- B	dB	E	8	qB	æ	ф	ф	gg GB	dB(A)	
BFW Prime Enclosure 1.Side 2	07.5	78.0		Š									
	7.10	0.0	3	0.0	747.4	-68.5	1.7	-25.2	0.7	0.0	0.3	7.8	
Drw Fump Engosure 1-Side 3	4.	76.9	0.0	3.0	751.6	-68.5	1.7	-23.3	0.5	0.0	0.0	6.7	
Brw Pump Englosure 1-Side 4	97.2	6.97	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	6.92	0.0	0.0	754.8	-68.5	75.	-24.1	9.0	0.0	10	1 1	
BFW Pump Enclosure 2-Side 1	8 .4	6.92	0.0	3.0	654.3	-67.3	1.5	-22.7	5	00			
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	800	10.7	
BFW Pump Enclosure 2-Side 3	8 .4	76.9	0.0	3.0	646.8	-67.2	r.	-23.5	, c	200	5 6	- 0	
BFW Pump Enclosure 2-Side 4	97.2	6.97	0.0	3.0	82.29	-67.4	1,6	-25.3	9 0	000		D 40	
BFW Pump Enclosure 2-Top	103.4	6.9	0.0	0.0	650.5	-67.3	1.1	-20.3	4.0	0.0	9 80	17.4	
Condensate Equipment Bldg 1 - East Side	77.7	26.7	0.0	3.0	745.5	-68.4	1.9	-7.0	-0.6	0.0	0.0	2.9	
Condensate Equipment Bldg 1 - North Side	75.2	26.7	0.0	3.0	747.4	-68.5	1.9	-17.5	6,3	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	9.0	0.0	20	, c	
Condensate Equipment Bldg 1 - South Side	75.2	56.7	0.0	3.0	758.0	-68.6	1.9	-15.2	4.0-	0.0	i c	. e.	
Condensate Equipment Bldg 1 - West Side	77.7	26.7	0.0	3.0	759.8	-68.6	1.9	-18.2	4.0	0.0) e	
Condensate Equipment Bldg 2 - East Side	7.7	56.7	0.0	3.0	662.8	-67.4	1.6	-6.0	9.0	0.0	00	2 60	
Condensate Equipment Bldg 2 - North Side	75.2	26.7	0.0	3.0	664.0	-67.4	1.6	6,1	9.0	0.0	2 0	, r.	
Condensate Equipment Bidg 2 - Roof	78.0	51.7	0.0	0.0	8.699	-67.5	1.0	-5.6	0.5	0.0	0.0	4	
Condensate Equipment Bidg 2 - South Side	75.2	29.7	0.0	3.0	672.9	-67.6	1.7	-10.2	6.0	0.0	0.0	1.7	
Condensate Equipment Bldg 2 - West Side	7.7	26.7	0.0	3.0	676.8	9.79-	1.7	-13.0	6.3	0.0	0.0	10	
CIG 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	
C16 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	
OT G Arriner 1	106.2	82.9	0.0	0.0	769.2	-68.7	3.2	-26.9	8.4	0.0	1,0	5.5	
CTG Alf Inet 2	106.2	82.9	0.0	0.0	666.4	-67.5	2.8	-26.1	-7.1	0.0	0.2	89	
OTO Air Infet Duct 1 - North	6. 6. 6.	4.	0.0	0.0	750.4	-68.5	2.7	-25.3	-2.8	0.0	6.7	7.3	
CTG AIR INIGH DUCK 1 - SOUTH	6.66 6.66	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 - 10p	6. 6. 6.	83.3	0.0	0.0	751.3	-68.5	2.4	-26.6	-3.7	0.0	0.1	90	
CTG Air thlet Duct 2 - North	600	84.3	0.0	0.0	647.7	-67.2	2.2	-23.3	-2.2	0.0	0.0	10.3	
CTG Air Inlet Duct 2 - South	6.99	84.3 E.	0.0	0.0	649.7	-67.2	2.2	-25.2	-2.6	0.0	0.0	7.1	
CTG AIR INIGE DUCE 2 - Top	6. 6. 6.	83.2	0.0	0.0	649.4	-67.2	2.0	-26.7	-3.6	0.0	6.0	23	
CTG Building 1 - East Facade	88.1	27.7	0.0	3.0	718.8	-68.1	0.8	-5.0	6.0	0.0	00	18.4	
CTG Building 1 - North Facade	0.78	27.7	0.0	3.0	727.6	-68.2	0.8	-6.7	6,0	0.0	0.0	4 c	
CTG Building 1 - Roof	82.9	52.7	0.0	0.0	733.1	-68.3	-0.1	7.4	-0.4	0.0	0.2	8 6	
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Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Sutte 1205 Portland, ME 04101 (207) 799-0140

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SoundPLAN 7.4

			-										
Source	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	Ā	Directivity	Reflection	SPL	Г
	(A)QD	db(A)	8	88	٤	පි	dB	8	9	8	8	dB(A)	_
CTG Building 1 - West Facade	00 4	22.2											7
CTG Building 1 Vent Culom	3 8	7.70	0.0	0.0	746.3	-68.5	0.8	-17.6	-0.3	0.0	0.0	5.8	Γ
CTO Building 1 Very County 1 August 1	97.0	70.0	0.0	3.0	719.5	-68.1	1.8	9.9	-2.6	0.0	0.0	10.0	
OTO Building 1 Vent Louvers - North	87.6	70.0	0.0	3.0	719.5	-68.1	1.8	-14.1	1.1	0.0	0.2	5.2	
OTO Building I Vent Louvers - West	8	50.6	0.0	3.0	742.9	-68.4	5.5	-17.2	-0.2	0.0	100	187	
OTO Building A Feast Pacade	86	57.7	0.0	3.0	616.4	-66.8	0.5	£	-0,3	00	2 0	t 000	
OTO Building 2 - North Facade	87.0	27.7	0.0	3.0	624.3	-66.9	9.0	-1.9	6.3	0	2 6	23 ES	
OTO Sulfaling X + Root	82.9	52.7	0.0	0.0	630.5	-67.0	0.0	9	Ç	0	2 6	0.0	
CTC Building 2 - West Facade	88.1	27.7	0.0	3.0	643.6	-67.2	0.5	-14.5	-0.2	0.0	0.0	8.0.0 2.0	
CTG Building 2 Vent Louvers - East	82.6	20.0	0.0	3.0	617.4	-66.8	7.7	-0.1	5.4	0.0	200	14.8	
CTC Building 2 Vent Louvers - North	82.6	70.0	0.0	3.0	616.4	-96.8	1.5	0.1	-5.4	0.0	4.	16.0	
Demin Weter Disease	92.6	70.0	0.0	3.0	639.7	-67.1	1.5	-20.4	-1.6	0.0	0.0	-2.1	
	23. 2	93.1	0.0	0.0	675.5	9.79-	3.1	-24.9	-2.0	0.0	0.5		
	9	95.0	0.0	0.0	717.4	-68.1	3.0	-25.2	-2.1	0.0	89	1 12	
Emergency Discol Control Control	9. O. (92.0	0.0	0.0	613.7	-66.8	2.5	-3.6	ည့် ဆု	0.0	00	25.2	
Emergericy Diesel Certification - Side	2.0	-7.7	0.0	3.0	683.7	-67.7	3.3	-28.3	9.0	0.0		82.5	
Emerger of Discol Constitution 1	27 1	-7.8	0.0	3.0	680.2	-67.6	3.3	-28.2	5. B.	0.0	2	2,53	
Explosion Terreface	8.2	D	0.0	0.0	682.0	-67.7	3.1	-27.5	-3.7	0.0	8 0	8 68	
Excitation 1 ransionner 1	90.0	90.0	0.0	0.0	7.18.7	-68.1	2.2	-24.5	6.	0.0) a	? q	
Exclation Transformer 2	0.08	80.0	0.0	0.0	617.1	-66.8	1.6	5.3	-2.2	0.0	2 4	n e	
City Disma Building - Root	4	-23.3	0.0	0.0	630.7	-67.0	1.2	-5.5	Ċ S	0.0	ic	78.0	
Fire Pump building - orde 1	-5.7	-23.3	0.0	3.0	633.9	-67.0	1.8	-11.8	0.3	0.0	200	B0 1	
Fine Pilmo Building - Side 3	d i	-23.3	0.0	3.0	631.3	-67.0	8.1	9.9	-0.4	0.0	0.0	77.7	
Fire Dum Building Alex	ņ	5.3.3	0.0	3.0	627.3	6.99-	1.7	4.9	-0.5	0.0	0'0	-74.9	
Fuel Gas Developing Heater	λ ς υ ς	-23.3	0.0	3.0	630.0	-67.0	6 0	4.6.4	-0.5	0.0	0.0	77.7	
Fuel Gas Metering and Remitating Station	7.70	20.00	0.0	0.0	795.5	0.00	3.9	-28.8	-15.5	0.0	0.0	-7.2	
Fuel Gas Performance Heater 2	2 6	95.0	0 0	0.0	798.2	-69.0	3.9	-28.7	ဆု	0.0	0.0	-9.7	
Fuel Gas Performance Heater 3	2 0		0.0	0.0	645.0	-67.2	3.0	-26.6		0.0	0.0	-1.0	
Gas Afternolar 1	2 2	93.0	2 6	0.0	748.2	-68.5	3.2	-28.0	4.1	0.0	0.0	44	
Gas Affectorier 2	0.101	0. 6	0.0	0.0	806.0	-69.1	3.2	-27.6	9.5	0.0	0.0	6	
Gas Compresent Rida Ottober E	0.10	3 6	0.0	0.0	808.0	-69.2	3.2	27.7	0.4	0.0	0.0	3.4	
Gas Compressor Bido Louvers - N	7.00.7	0.00	0,0	9.0	784.3	68.9	2.9	-27.1	-3.1	0.0	0.0	12.6	
N . 00000000000000000000000000000000000	7.00	0.08	0.0	3.0	790.8	-69.0	2.9	-27.3	-3.3	0.0	0.0	12.0	



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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SoundPLAN 7.4

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Source	PWL	PWL/unit	Tone	Non-Sphere	Distance	Spreading	Ground Effect	Ins. Loss	¥	Directivity	Reflection	ĩ	Γ
	GB(A)	dB(A)	8 8	왕	£	gg Gg	ф	용	8	æ	8	dB(A)	
Cae Company Dida	137							. 3					7
Cas Colliptessor Blog Louvers - S	105.7	98.0	0.0	3.0	791.0	-69.0	2.9	-27.6	-3.6	00	C	44 B	Γ
Gas Compressor Bidg Louvers - W	105.7	0.86	0.0	3.0	797.4	-69.0	2.9	-27 B			9 6	5 4 5 r	
Gas Compressor Building - East Side	99.1	76.7	0.0	3.0	784.1	-68.9	1.7	-181	-	9 6	0.0	υ.	
Gas Compressor Building - North Side	97.5	76.7	0.0	3.0	788.5	-68.9	1.7	186	9 6	2 6	9 6	18.5	
Gas Compressor Building - Roof	101.0	76.7	0.0	0.0	791.0	0.69-	- 61	7 7 7	? .	0.0	0.0	15.4	
Gas Compressor Building - South Side	97.5	76.7	0.0	3.0	793.2	-69.0	<u>i</u>	10.2 R	† c	0.0	0.0	15.1	
Gas Compressor Building - West Side	99.1	76.7	0.0	3.0	797.6			2.50	3 3	0.0	0.0	13.4	
GSU 1 - Side 1	9.0	75.7	0.0	3.0	723.0	289		28.4	÷ ;	0.0	0.0	13.1	
GSU 1 - Side 2	94.0	78.0	0.0	3.0	714.6	1 1 1	. 7	25.1	- 4	0.0	4. 6	4.2	
GSU 1 - Side 3	94.0	75.7	0.0	3.0	720.1	-68.1	2.1	-283		0.0	2.7	8. 1	
GSU 1 - Sida 4	94.0	78.0	0.0	3.0	728.5	68.2	ic	20.5	p 4	0.0	4.	4 rči	
GSU1 - Top	94.0	72.9	0.0	0.0	721.4	5.66-	- 0	20.0	ب ان	0.0	ις: (2)	5.2	
GSU 2 - Sids 1	9,0	75.7	0.0	3.0	623.4	1 6		4 2 4	<u>.</u> .	0.0	o; (4 6	
GSU 2 - Side 2	9.0	78.0	0.0	0.6	6150	9 8		1.5.1	7.5	0.0	e, c	17.7	
GSU 2 - Sida 3	9	75.7	2 6	9 6	0.00	0.00	7 (D) (-2.6	0.0	0.0	27.0	
GSU 2 - Sida 4	9	- C a /	2 6	9 6	020.1	0,0	Đ,	ф 89.	<u></u>	0.0	C.5	23.3	
GSU 2 - Top	2 2	200	2 6	0.0	628.6	-67.0	1.7	-18.3	-1.0	0.0	2.0	14.4	
HDSG 1 Book Side 1	5 6	2000	0.0	0.0	621.5	6.99-	Ţ	-6.3	-1.7	0.0	1.7	22.0	
HRSG 1 - Body - Side 2	0.70	9.00	0.0	3.0	730.9	-68.3	0.7	-15.6	4.0	0.0	0.0	15.5	
HRSG 1 - Exhaust Grack	0.78	56.6	0.0	3.0	720.4	-68.1	0.7	4.	-0.7	0.0	0.0	27.8	
	4.20	10Z.4	0.0	0.0	724.6	-68.2	2.0	0.0	-0.4	-3.6	0.0	32.3	
	5 G	60.0	0.0	0.0	744.6	-68.4	0.5	-17.1	-0.5	0.0	0.5	13.1	
	0 0	6.4	0.0	3.0	721.3	-68.2	2.0	-0.8	- 0.1	0.0	0.0	7.	
-	6 6	£ ;	0.0	3.0	719.5	-68.1	2.0	1. 10	-0.2	0.0	0.0	9.0	
	00.0	44.7	0.0	3.0	719.1	-68.1	2.0	-3.4	-0.2	0.0	0.0	1,2	
	0.00	5.4.5	0.0	3.0	720.4	-68.1	2.0	7.6	-0.2	0.0	0.0	10.	
•	0.00	44.7	0.0	3.0	722.6	-68.2	2.0	4.4	-0.5	0.0	0.0	-2.2	
	8 9	44.9	0.0	3.0	724.4	-68.2	2.0	6.2	Ģ	0.0	0.0	i e	
	9.0	44.8	0.0	3.0	724.7	-68.2	2.0	6.9	Ģ 1.	0.0	0.0	7	
	90.6	8.44	0.0	3.0	723.5	-68.2	2.0	4.8	50.5	0.0	0.0	6.5	
LDRO 1 1 Olde 1	90.	81.2	0.0	3.0	734.5	-68.3	1.7	-18.1	4.0-	0.0	0.5	15.1	
Zapia - I - I - Gide Z	90.0	81.2	0.0	3.0	727.2	-68.2	9.1	-11.1	4.0-	0.0	2 0	32.5	
00 - 1 - 9921	98.6	82.8	0.0	0.0	731.2	-68.3	1.0	-13.0	-0.4	00	2.6	18.0	
							-	-	-	:	- i	2	



Michael Theriault Acoustics, Inc. 401 Cumberland Avenue, Suite 1205 Portland, ME 04101 (207) 799-0140

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Source	CNAVI	TRAN A.m.ts											
	dB(A)	dB(A)	9 8	anends-lion Bb	Distance	Spreading	Ground Effect	Ins. Loss	₹ 6	Directivity	Reflection	SPL	
										3	9	(A)	٦
HRSG 1 - T2 - Side 1	96.6	76.2	0.0	3.0	734.5	-68.3	1.0	-17.5	40-	00	-	44.6	Γ
HRSG 1 - T2 - Side 2	96.6	76.2	0.0	3.0	725.7	-68.2	1.0	, ed	-0.4	200	5		
HRSG 1 - T2 - Top	96.6	80.4	0.0	0.0	730.5	-68.3	-0.1	-7.5	-0.5	0.0) e	20.00	
HRSG 2 - Body - Side 1	97.0	9.99	0.0	3.0	626.6	-69.9	0.4	-15.8	6.3	0.0	2	17.5	
HRSG 2 - Body - Side 2	97.0	9.99	0.0	3.0	616.2	-66.8	0.5	<u>-</u> €.	-0.7	0.0	9 9	. E	
HRSG 2 - Exhaust Stack	102.4	102.4	0.0	0.0	620.3	-66.8	1.7	0:0	<u>ب</u>	98	9 6	2 2	
HRSG 2 - Piping and Valves	98.5	80.1	0.0	0.0	640.8	-67.1	0.2	-13.2	, c	2	2 10	4 4	
HRSG 2 - Stack Walls - Side 1	65.6	44.8	0.0	3.0	616.7	-66.8	9,1	8	, ,	00	9	27.0	
HRSG 2 - Stack Walls - Side 2	65.6	44.9	0.0	3.0	614.9	-66.8	9:1	6.1.3	-0.2	000	2		
HRSG 2 - Stack Walls - Side 3	65.6	44.7	0.0	3.0	614.4	-66.8	1.9	<u>د:</u>	-0.2	0.0	00	5 6	
HKGG Z - Glack Walls - Side 4	92.6	44.6	0.0	3.0	615.5	-66.8	6,1	<u>ار</u> ق	0,	0.0	00	20	
HAGG Z - Stack Walks - Side 5	65.6	44.7	0.0	3.0	617.8	-66.8	6.1	4.4	- -	0.0	0.0	, o	
HKSG 2 - Stack Wells - Side 6	65.6	44.9	0.0	3.0	619.6	-66.8	6.	6.1	0	0.0	0	8 6	
HRSG 2 - Stack Walls - Side 7	65.6	44.8	0.0	3.0	620.0	-66.8	1.9	-7.0	ģ	00	2 0	1 6	
HKSG 2 - Stack Walls - Side 8	65.6	8.7	0.0	3.0	618.9	-66.8	6,1	7.8	Ó.	0.0	00	, 4	
HKSG 2 - 11 - Side 1	9.96	81,2	0:0	3.0	631.2	-67.0	1.0	-10.7	-0.2	0.0	5.0	2 6	
HRSG 2 - T1 - Side 2	96.6	81,2	0.0	3.0	624.0	-66.9	1.2	6.5	6.0	0.0	2.0	31.2	
HKSG 2 - 11 - Top	98.6	82.8	0.0	0.0	627.9	-66.9	0.7	-5.4	4.0-	0.0	2 6	27.0	
HRSG 2 - 72 - Side 1	96.6	76.2	0.0	3.0	631.1	-67.0	9.0	-12.3	6	0.0	i c	2 8	
HRSG 2 - T2 - Side 2	96.6	76.2	0.0	3.0	622.3	-86.9	0.7	-1.8	0.7	0.0	2.0	3.5	
HK66 Z - 12 - Top	9.96	80.4	0:0	0.0	627.4	-66.9	0.0	6.0	9.0	0.0	7.0	23.7	
HKSG Redrc Pump 1	93.0	93.0	0.0	0.0	711.2	-68.0	3.1	-25.3	-2.6	0.0		7.3	
HKSG Regire Pump 2	83.0	93.0	0.0	0.0	606.4	-96.6	2.8	-7.3	-3.6	0.0	2.2	20.6	
Isolation rainsromer 1	0.0	80.0	0.0	0.0	703.7	-67.9	2.1	-25.4	£, -	0.0	8.5	6,5	
Isolation (ransformer 2	0.0	80.0	0.0	0.0	601.3	-96.6	1.2	-2.9	-2.8	0.0	2.4	114	
Roottop Vent Fan - Admin 1	87.8	87.8	0.0	0.0	569.5	-66.1	2.7	4.4	6.9	0.0	0.0	15.2	
Roottop 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	
Roottop Vent Fan - Admin 3	82.78 80.78	87.8	0.0	0.0	589.4	-66.4	2.8	-7.5	-2.7	0.0	0.0	98	
Rootop 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	140	
Rooftop Vent Fan - Condensate Bidg 2	87.8	87.8	0.0	0.0	670.7	-67.5	2.8	-2.0	-5.1	0.0		2 0 4	
Rooftop Vent Fan - Condensate Bidg 2	87.8	87.8	0.0	0.0	753.2	-68.5	3.0	6.0	-2.7	0.0	000	5 6	
Rooftop Vent Fan - CTG Bldg 1	87.8	87.8	0.0	0.0	735.3	-68.3	3.0	80	-2.7	0.0	0.0	12.9	
						-				!	2	2	



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SoundPLAN 7.4

						1					; ;		
	dB(A)	dB(A)	e B B	Non-Sphere dB	Distance	Spreading	Ground Effect	Ins. Loss	돌	Directivity	Reflection	SPL	
							;	3	9	95	9	(A)(D)	
Rooftop Vent Fan - CTG Bldg 2	87.8	87.8	0.0	0.0	724.3	-68.2	29	e e	27	6		007	
Rooftop Vent Fan - CTG Bldg 3	87.8	87.8	0.0	0.0	728.3	-68.2	o o	5 6	į č	9 6	9 9	5.5.	
Rooftop Vent Fan - CTG Bldg 4	87.8	87.8	0.0	0.0	632.6	-67.0	2.7	-7.4	, 6	9 6	9 6	5.0	
Rooftop Vent Fan - CTG Bldg 5	87.8	87.8	0.0	0.0	627.4	-66.9	2.7	-0.7	40	2 0	9 6	7.01	••
Rooftop Vent Fan - CTG Bidg 6	87.8	87.8	0.0	0.0	622.8	-66.9	2.7	« د	2 4	9 6	9 6	0.0	
Rooftop Vent Fan - Gas Compressor Bldg 1	87.8	87.8	0.0	0.0	790.3	-68.9	, e	-17.9	9 65	9 6		2.0	
Rooftop Vent Fan - Gas Compressor Bldg 2	87.8	87.8	0.0	0.0	791.8	-69.0	r m	-18.6	. <u></u>	2 5	9 5		
Rooftop Vent Fan - Gas Compressor Bldg 3	87.8	87.8	0.0	0.0	793.1	-69.0	Б.	-18,3	<u>.</u>	000	9 5	5 C	
Rooftop Vent Fan - STG Bidg 1	87.8	87.8	0.0	0.0	658.3	-67.4	2.8	-7.5	-2.9	0.0	2 0	12.8	
Roomop vent ran - S. G. Bidg 2	87.8	87.8	0.0	0.0	634.0	-67.0	2.7	-0.7	1.4	0.0	0.0	18.7	•
Cooling Very Part - 0 - 6 Bidg &	8.78	87.8	0.0	0.0	645.9	-67.2	2.7	-7.5	-2.9	0.0	0.0	12.9	
Reported Vent Pan - S. G. Bidg 4	87.8	87.8	0.0	0.0	735.2	-68.3	2.9	-7.2	-5.9 -	0.0	0.0	12.3	
Roontop 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	113	
Roomop Vent Fan - STG Bidg 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	
Roomop 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	121	
Roomop 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	
Sarety 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	0.0	0.0	728.1	-68.2	3.2	-5.0	9.5	0.0	0.0	19.2	
Scanner Cooling Air Blower 2	2 .	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	-25.9	-2.9	0.0	0.3	2 4	
Staam Lurbine Bidg 1 - East Facade	4.58	57.9	0.0	3.0	726.9	-68.2	1.2	-7.6	-0.3	0.0	0.0	13.5	
Steam Turbine Bidg 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 Blug 1 - Koor		52.9	0.0	0.0	746.8	-68.5	0.2	6.2	-0.5	0.0	0.2	7.1	
Susem Turbine Bidg 1 - South Facade	88.7	67.9	0.0	3.0	749.0	-68.5	1,2	-15.0	-0.2	0.0	0.0	. 6	
Steam Further Sing 1 - West Facade	85.4	57.9	0.0	3.0	7.65.7	-68.7	1.2	-18.3	-0.3	0.0	0.0	2.4	
Steam I urdine prog 2 - East Pacade	85.4	57.9	0.0	3.0	626.1	-66.9	6.0	-1.0	4.0-	0.0	0.0	21.0	
Steam Lurbine Bing Z - North Facade	63.7	57.9	0.0	3.0	655.2	-67.3	1.0	-10.1	-0.2	0.0	0.0	10.0	
Steam Lurdine Blog Z - Root	<u>80</u>	52.9	0.0	0.0	645.7	-67.2	0.2	-4.9	-0.5	0.0	0.0	20	
Steam I urbine Bldg 2 - South Facade 1	88.7	57.9	0.0	3.0	648.0	-67.2	6.0	6.9	-0.2	0.0	0.1	16.0	
Steam Lumine Blog 2 - West Facade	4.58	57.9	0.0	3.0	664.1	-67.4	1.0	-16.7	-0.2	0.0	0.0	50	
STG Building 1 Vent Louvers - East	82.3	8.69	0.0	3.0	726.6	-68.2	4.1	-14.1	-1.0	0.0	0.0	3.4	
o i c building 1 Vent Louvers - South 1	82.3	69.8	0.0	3.0	758.9	-68.6	1.5	-21.6	4.	0.0	0.0	89.	



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Source	P.	PWL/unit	Топе	Non-Sphere	Distance	Spreading	Ground Effect	lns Loss	Į.	Directivity	Doffeether	č	Γ
	dB(A)	dB(A)	gp GB	8	ε	9 8	8	8	E #	da da	Nellecuon Pa	2 V	
											3	- (c)ap	7
STG Building 1 Vent Louvers - South 2	82.3	8.69	0.0	3.0	737.1	-68.3	14	20.4	4.3	6	4		
STG Building 1 Vent Louvers - West	82.3	69.8	0.0	3.0	765.8	-68.7	т.	1 0	3 6	0.0	0.0	20,000	
STG Building 2 Vent Louvers - East	82.3	89.8	00	~ C	82E B			0.4.0	0.	0.0	0.7	-2.0	
STG Building 2 Vent Louvers - South 1	2	0 00	2 6	9 6	0.00	60.5	P:	0.0	-3.0	0.0	0.0	16.5	
STG Building 2 Vent Curem Sector	3 6	0.00	2 (3.0	62/3	-67.4	<u>-</u>	-17.2	1.1	0.0	0.0	0.8	
S Colonia & Vent Louvers - South S	8 7.3	69.8	0.0	3.0	636.5	-67.1	1.1	-13.2	-1.2	0.0	-	2	
S i G Building 2 Vent Louvers - West	82.3	69.8	0.0	3.0	664.2	-67.4	1.2	-23.4	7. IC			5 4	•
STW Heat Exchanger 1	102.0	6.08	0.0	0.0	747.9	500.57	5	080	2 5	9 6	2 6	n i	
STW Heat Exchanger 2	1020	0 00	5	c	0.46		5 6	-20.0	Y.	0.0	0		
Waste Water Dumn			2 6	9.0	7.040	7.70-	2.8	-56.0	بن 1.	0.0	0.0	8.5	
Worker Transfer of the Control of th	2	83.1	0.0	0.0	669.7	-67.5	3.1	-25.8	-2.3	0.0	0	r.	
water Heatment building - East Side	78.9	56.7	0.0	3.0	8.099	-67.4	7.5	9	5.0		9	9 4	_
Water Treatment Building - North Side	83.3	56.7	0.0	3.0	684.3	-67.7	10	10	2 4	2 6	2 0	C L	
Water Treatment Building - Roof	86.4	56.7	0.0	0.0	685.7	-67.7		2 4	9 6	2 6	2.	1.0.	,
Water Treatment Building - South Side	83.3	58.7	0		0 7 0 0	: !	b 1	P.	p F	0,0	0.0	13.5	_
Water Treatment Building West Cide			2 (2 1	004.0	-0/./	د. -	-1 1 .9	6.0	0:0	0:0	8.4	_
	P i	20.7	0.0	3.0	711.6	-68.0	9.	-15.1	-0.3	0.0	0	0	
WELL VERHIBUOT LOUVERS - NORTH SIGE	30.0	78.0	0.0	3.0	679.3	-67.6	2.6	-5.2	65	0		9 6	
WIB 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	0.00	
												5.5	

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SoundPLAN 7.4

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Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.2: Please explain in detail whether and to what extent the facility will seek

relief from the Town's noise ordinance limitations.

RESPONSE: The Project will comply with the A –Weighted broad band limit of 43

dBA which is consistent with approved EFSB Orders for other power plants. This limit will apply to normal steady state operation of the Project. The Project will seek relief from meeting all of the octave band limits for normal operations and from achieving the A –Weighted broad band limit of 43 dBA for transient modes. The expected transient noise

limits are shown in our response to question 1.5.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

IN RE: Application of Docket No.: SB – 2015-06

Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC'S RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.3: Please explain in detail the difference in expected noise levels between start up

and shut down operations and normal operations.

RESPONSE:

CREC operation is expected to be typical of other base load power generation facilities and should be running at normal operating level more than 80% of the time. This means that start up and shut down will be somewhat frequent events occurring typically once a month during winter and summer conditions and once a week or even daily during the spring and fall. Noise produced from the various components will vary depending upon the plant load and its mode of operation. Noise produced from these components is from motors, pumps and ancillary equipment skids, as summarized in Table 1.3.1 which was included in the Noise Evaluation report included as Appendix E in the EFSB application and modified to show number of components operating or their percent load during normal and start up or shut down conditions.

Table 1.3.1: Major Sources of CREC N	oise	
Equipment Description *Denotes located indoors	Normal Operations ⁷	Start Up/Shut Down
H Class combustion turbines	2	30%- 50%
Steam Turbine generators	2	30%
Air Cooled Condenser (ACC) - 18 Cells	2	50%
Ammonia Forwarding Pump	1	50%
Ammonia Injection Skids	2	50%
Auxiliary Boiler Building	1	100%
Auxiliary Transformers	2	2
Boiler Feedwater Pumps	2	50%
Closed Cooling Water Heat Exchangers	2	2
Condensate Pumps	2	2
Combustion Turbine Air Inlet Filter Housings	2	2
Combustion Turbine Lube Oil Modules	2	2

^{7 -} Quantity active during full load operation. For pumps and compressors installed in sets of 2 or 3, it is assumed that one set will be reserved for backup and remain on standby.

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Combustion Turbine Enclosure Ventilation Fans	2	2
Combustion Turbine Exhaust Diffusers	2	50%
Demin Water Pumps	2	25%
Fuel Gas Compressor After Coolers	2	1
Fuel Gas Dew Point Heater	1	1
Fuel Gas Metering and Regulating Station	1	1
Generator Step-Up Transformers	2	2
Heat Recovery Steam Generators (HRSG)	2	50%
Steam Turbine Bypass Valves	0%	6
HRSG Duct Burner Skids	2	0%
HRSG Exhaust Stack	2	50%
HRSG Piping and Valve Systems	2	50%
Miscellaneous Small Transformers	8	8
Roof-Mounted HVAC Fans	21	21
Scanner Cooling Air Blowers	2	0%
Service Water Pump	1	1
Vacuum Pumps	2	1
Waste Water Pump	1	1

The above table indicates the expected number of components that will operate during normal conditions and during start up and shut down. The expected noise for these two modes of operation and other transient modes of operation is included in the response to Question 1.5 below.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.4: Please explain in detail the expected noise level that will be

generated during steam releases.

RESPONSE: Steam releases are considered an upset or emergency condition

which is not expected to occur and if it does, it should be an infrequent event. The noise level at the nearest residence is

predicted to be 49 dBA.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.5: Please explain in detail the expected noise levels that will be

generated during (a) normal operations, (b) startup operations, (c) normal shut down operations, (d) steam releases, and (e) emergency shut down operations. Please provide details for both natural gas operations and fuel oil operations. Please identify the models used to project the noise levels during each such phase of

operations (a) through (e).

RESPONSE: As indicated in Section 6.9 of Invenergy's EFSB application and

on page 28 of Appendix E a three-dimensional, computer-generated acoustical model of operations activities was developed using SoundPLAN® 7.3/7.4 and industry-standard prediction methods to estimate noise levels at nearby receivers. Noise levels during CREC operations are outlined in the attached report and

summarized below:

a. The expected noise levels that will be generated during normal operations, 43 dBA

- b. Startup operations, 46 dBA
- c. Normal shut down operations, 45 dBA
- d. Steam releases, 49 dBA
- e. Emergency shut down operations, 50 dBA

The noise levels for fuel oil operations are expected to be identical to the noise produced during natural gas operations since fuel oil operations would require the oil pumps and associated water injection pumps to operate in lieu of the gas compressor and all of

these pumps are located indoors

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

IN RE: Application of Docket No.: SB – 2015-06

Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.6: Please explain in detail all noise suppression/mitigation efforts that are

being proposed by the facility.

RESPONSE: As indicated in Section 6.9 of Invenergy's EFSB application and on page 34 of Appendix E, the proposed extensive acoustical design of

the CREC includes;

• 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 closed cooling water heat exchangers;
- combustion turbine exhaust diffuser is located within the building;
- 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; thicker casings for 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;

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

- the installation of a low-noise steam bypass system including low-noise valves and steam discharge stack resisters (disk stack);
- silencers on startup vents, blowdown and drains tank vents; and silencers on safety release vents.

The specific noise attenuation features included in the CREC design were shown on Table 9 of Appendix E, shown below:

Table 9: Proposed Acoustical Design				
Equipment Item	Control			
Air Cooled Condenser	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			
CCW Heat Exchanger	Low-Noise Design			
Combustion Turbine Air Intakes	High-Performance Air Intake Silencer			
Combustion Turbine	Enclosed within a Building			
Combustion Turbine Ventilation	Ventilation System Silencers			
Combustion Turbine Exhaust Diffusers	Enclosed within a Building			
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			

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

HRSG Boiler Feedwater Pumps	Enclosed within a Building	
HRSG Boilers and Transition Ducts	Thicker Casing	
Steam Safety Release Vents	Vent Silencers	
Steam-Turbine	Enclosed within a Building	
Steam turbine bypass system	Low Noise valves and steam discharge stack resisters	
Steam Turbine Drains Tank	Vent Silencers	
Water Treatment Equipment	Enclosed within a Building	

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.7: Please explain in detail the additional noise to be generated by the

proposed on site compressor.

RESPONSE: The noise generated from the on-site gas compressor has been

included in Invenergy's estimate for the Project, as such there will be no additional noise generated from the on-site gas compressor. The compressor will be located in a building which will have necessary acoustical features to meet the noise limits CREC is

proposing.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.8: Please explain whether the facility will be able to maintain compliance

with the Town's overall 43 dBA noise limit (applicable at the nearest houses) during all non-emergency operating conditions, including most

importantly, normal startups and shut downs.

RESPONSE: Please see response to questions 1.2 and 1.5 above.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy.

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Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.9: Please explain why is there no mention of the potential noise impact

during normal startup and shut down in the noise section of the permit

application.

RESPONSE: Invenergy considered noise during start up and shut down to be a

transient condition. The start and shut down plant design and expected noise levels that would result from those operating scenarios are dependent upon the Power Island equipment supplier, which had not been selected at that time. The specification for the Power Island ("PI") equipment included requirements related to the noise levels; however, Invenergy needed specific design details from the bidders and the selected PI supplier in order to fully determine expected noise for this mode of operation. It was always our intent to provide this information

when it was available.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.10: Does Invenergy, or its parent or related company, operate another

combined cycle plant that uses an air cooled condenser (ACC)? If so, please identify the plant and the noise mitigation installations in each

such plant.

RESPONSE: Invenergy does not have any other combined cycle plants that use ACCs

in operation. ACCs use a series of fans that blow air over a heat exchanger, (much like an automobile's radiator) and the fans and heat exchangers are arranged in cells. The attenuation features that are utilized on ACCs are low noise fans, which are specially designed fan blades that operate at a lower speed and are used in conjunction with the ACC heat exchanger surface, which is increased to accommodate the lower fan

speed and remove the required heat.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.11: Do you agree that the noise generated during the steam turbine bypass

phase of startup-when high pressure steam is injected directly into the vacuum of the main duct of the ACC is going to be extremely loud if no

mitigation efforts are made? Please provide details.

RESPONSE: Yes, bypass operation can produce loud noise if not properly designed.

The bypass valves will be located indoors and will utilize low noise

design features so as to achieve the predicted levels.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

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INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.12: Please detail all steps Invenergy plans to take, such as for example,

with the bypass valve, hogging air injector and drain vent, to maintain

the sound level below 43 dBA during normal startups.

RESPONSE: The bypass valves will be located indoors and will utilize low noise

design features, including low-noise valves and steam discharge stack resisters, so as to comply with the proposed limits. The vents from the hogging air ejector vent will include a silencer. Invenergy has taken reasonable steps to control noise levels during start up and shut down,

and Invenergy anticipates that it can achieve 46 dBA.

RESPONDENT: Mike Hankard, Senior Acoustical Consultant, Michael Theriault

Acoustics, Inc. and John Niland, Director, Business Development,

Invenergy

IN RE: Application of Docket No.: SB – 2015-06

Invenergy Thermal Development LLC's Proposal for Clear River Energy Center

INVENERGY THERMAL DEVELOPMENT LLC's RESPONSES TO THE TOWN OF BURRILLVILLE'S FIRST SET OF DATA REQUESTS

1.13: Please provide details regarding the expected noise to be generated by

traffic (truck and other vehicles) during construction and routine

operations.

RESPONSE: As indicated in Section 6.9 of our EFSB application and on page 31 of

Appendix E, in general, it is anticipated that construction noise levels will be near or below current daytime ambient noise levels (LAFO) at While construction noise is likely to be occasionally residences. discernible, it is not expected to increase ambient noise levels significantly. The average individual is likely to tolerate construction noise given its temporary nature and that the majority of construction will take place during daytime hours (i.e., when the risk of sleep disturbance and interference with relaxation activities is low). Any nighttime or weekend construction activities will likely be similar to the 'finishing' phase of construction, which is typically 10 decibels lower than other phases. Also, the size of a nighttime/weekend work force would be significantly smaller than during typical daytime weekday hours, thereby further reducing noise levels. As such, construction of the CREC is not expected to result in any significant community noise impact. The noise levels from traffic during normal operations will be significantly less due to the much lower amount of traffic on the site.

RESPONDENT: John Niland, Director, Business Development, Invenergy and

Maureen Chlebek, P.E., PTOE, Senior Project Manager, McMahon

Associates

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1.14: Please identify the details of the expected noise to be

generated during construction operations.

RESPONSE:

As indicated in Section 6.9 of our EFSB application and on page 30 of Appendix E, as summarized in Table 11 and Appendix N6, (Construction Noise Modeling Results) construction noise levels (L_{AEQ}) are predicted to range from a low of 27 dBA to a high of 53 dBA at residential receivers. These levels represent those observed outdoors, and a home or building would provide significant reduction. Specifically, noise levels within a home would be up to 27 dBA lower assuming closed windows. Even with open windows, indoor levels would be up to 15 dBA lower than levels observed outside.⁸

Location	Construction Phase					
	Grading & Excavation	Concrete Pouring	Steel Erection	Equipment Installation	Finishing	Existing Daytime Ambient Range (L _{AEQ})
M1	49	45	49	44	39	52 to 53
M2	53	49	53	48	43	50 to 52
M3	41	37	41	36	31	36 to 44
M4	47	43	47	42	37	50 to 51
M5	37	33	37	32	27	45 to 52

As such, construction of the CREC is not expected to result in any significant community noise impact.

RESPONDENT: John Niland, Director, Business Development, Invenergy and

Maureen Chlebek, P.E., PTOE, Senior Project Manager,

McMahon Associates

⁸ - Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety, United States Environmental Protection Agency, Office of Noise Abatement and Control, USEPA Report 550/9-74-004 (March 1974).

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1.15:

Please provide any study or other information in Invenergy's possession regarding traffic issues that may arise during and after construction, including identifying the access road that will be used during and after construction, the location and details of the proposed road(s), and the impact of traffic on the neighborhood during and after construction.

RESPONSE:

As stated in Section 3.9.1 of our EFSB application, the Project will convert an existing dirt road/path to a new site access road that will connect the Facility to the Wallum Lake Road (Route 100). This road is designed as a Class A road to handle equipment loads during and after plant construction. The access road is shown on Figure 3.4-3 of the EFSB application. Traffic issues that may arise during and after construction are discussed in Section 6.8 of our EFSB application. The Project will commence construction in the first quarter of 2017, and the expected construction duration is 30 months with commercial operation in June of 2019. Construction personnel will consist of construction craft (laborers, welders, etc.) and staff (professional staff, engineers administrative, etc.). Figure 6.8-1 shows the Heavy Haul and Main Road, Wallum Lake Road, the New Entrance Road, proposed parking and the equipment laydown area. Most staff traffic will occur between 6:00am-7:00 am with change of shift at 5:00pm-6:00pm. Staff will peak at approximately 150 people in the second quarter of 2018. Craft will also peak at 440 people the second quarter of 2018.

The operation of the Facility will have minimal, if any, impact on traffic. Employees will commute to and from the Facility on a daily basis but these vehicle trips will be spread out over multiple work shifts. There will daily deliveries of supplies and equipment but such deliveries will be intermittent. There will be delivery of ULSD by truck to the Facility when ULSD is fired; however as described previously this will likely occur no more than a few days per year so any impact on traffic resulting from such deliveries would be temporary. Invenergy is committed to identifying and mitigating potential traffic related issues associated with the construction and operation of the Facility. Invenergy and its contractors will coordinate closely with the Rhode Island Department of Transportation

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("RIDOT") and the Town of Burrillville to develop and implement a pragmatic Traffic Management Plan ("TMP"). The TMP will alleviate the impacts of an increase in traffic volume in a predominantly rural community. Invenergy is devoted to working with the Town of Burrillville to maintain the safety and wellbeing of its citizens and the integrity of its infrastructure throughout the construction and operation of this Project. Invenergy has engaged the services of a Expert Traffic consultant who will supplement this response when the report he is preparing is finished.

RESPONDENT: John Niland, Director, Business Development, Invenergy and

Maureen Chlebek, P.E., PTOE, Senior Project Manager, McMahon

Associates

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1.16: Please identify in detail the company's security plans during and after

construction.

RESPONSE: The Project will have a security gate and will have 24/7 security

during both construction and operations. During construction, the property will be fenced in with 24-hour security at a guard shack

located at the entrance.

Post construction, a permeant security fence that will be eight feet tall, topped with barbed wire, card readers will be installed at critical points along with CCTV, with monitoring from the control room.

RESPONDENT: John Niland, Director, Business Development, Invenergy

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1.17: Please identify in detail the company's plans regarding water quality,

water use, storm water run off, and waste water.

RESPONSE:

The Project's impact to water quality is detailed in Section 6.2 of the EFSB application. We also are employing the use of ACC's to minimize water consumption for the project. Table 6.2-3 summarizes the Project's projected water use and wastewater discharge during a typical summer day firing natural gas, during an annual average day firing natural gas, and during a winter day with one combustion turbine firing natural gas and one combustion turbine firing ultra-low sulfur diesel ("ULSD") fuel. The Facility will only fire ULSD when the regional natural gas supply is curtailed during very limited periods in the winter months. Invenergy has met with RIDEM to discuss the Project's water use and wastewater discharge, and is working with RIDEM to identify measures to reduce Facility water use, particularly during the summer months when stream depletion can be a concern.

The Project's preliminary Stormwater Management Plan ("SMP") is detailed in Section 6.4 of the EFSB application. The Project SMP will meet the requirements of the RI Stormwater Design and Installation Standards Manual. Invenergy is working with RIDEM to ensure that the final SMP developed for the Project meets all applicable standards and is fully protective of the water quality of nearby surface waters.

Invenergy will apply for a Wetlands Alteration Permit, a Water Quality Certification, a RIPDES Construction General Permit, and a Multi-Sector General Permit from RIDEM and an Individual Permit from the ACOE to ensure that Project impacts to wetlands, surface water, and groundwater during both construction and operation will be minimized. Invenergy will also apply for a Wastewater Pre-Treatment Permit and an Order of Approval from RIDEM, and an Industrial Wastewater Permit from the Town of Burrillville to ensure that the wastewater discharge from the Facility meets all applicable water quality standards.

As detailed in Section 6.2 of the EFSB Application, and through the completion of the required permitting processes with RIDEM, the

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ACOE, and the Town of Burrillville, the quality of wetlands, surface waters, and groundwater in the area surrounding the Facility will be protected and maintained, both during Project construction and operation. As detailed in Section 6.2 of the EFSB application, with the installation of the treatment system on PUD Well 3A, the operation of the Facility will actually improve the quality of groundwater in the areas affected by the contamination event, which occurred previously.

RESPONDENT: John Niland, Director, Business Development, Invenergy

Michael Feinblatt, ESS Group, Inc. and

Craig Wood, ESS Group, Inc.

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1.18: Please identify any study or other information the company has regarding

the expected impact of air emissions on the air quality in the homes in the

immediate neighborhood of the proposed facility.

RESPONSE:

The Project's impact to air quality in the area surrounding the Facility is detailed in Section 6.1 of the EFSB application. The Project will require a Major Source Air Permit from RIDEM prior to its construction. RIDEM will require the Project to comply with all applicable state and federal air pollution control regulations, implement Best Available Control Technology and the Lowest Achievable Emission Rate for applicable pollutants, fully offset its NOX and VOC emissions, and complete an air quality impact assessment and health risk assessment prior to approval. The Major Source Air Permit application process will ensure that the Project's impacts to air quality in the area surrounding the Facility have been minimized to the greatest extent that is technologically feasible for such a source.

Section 6.1.5 details the air quality impact assessment completed for the Project. This assessment concluded that the maximum predicted criteria pollutant air quality impacts resulting from Facility operation, when combined with existing background concentrations, and the maximum impact concentrations from other nearby sources, will not exceed any of the National Ambient Air Quality Standards ("NAAQS") at any location at or beyond the property line of the Facility. The NAAQS, which have been established by the EPA and adopted by RIDEM, are ambient concentration which have been determined through health studies to be protective of human health and welfare, including the most vulnerable of the population, with a margin of safety.

The Project air quality impact assessment also concluded that the maximum predicted air toxics air quality impacts resulting from Facility operation will not cause an exceedance of a RIDEM Acceptable Ambient Level ("AAL") at any location at or beyond the property line of the Facility. The AALs have been established by RIDEM through health studies to be protective of human health, with a margin of safety. Invenergy has also submitted a Project Health Risk Assessment to RIDEM which demonstrates that all of the applicable health risk standards established by RIDEM to protect the local residents will be met during

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Facility operation.

As described in Section 6.1 of the EFSB application, and with the completion of each of the assessments required by RIDEM for a Major Source Permit Application, Invenergy has demonstrated that the Project's air quality impacts at all locations at or beyond the property line will comply with all applicable health based air quality standards during Facility operation.

RESPONDENT: John Niland, Director, Business Development, Invenergy

Michael Feinblatt, ESS Group, Inc.

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1.19: Please explain how Invenergy plans to deal with the impact of

diminished property values in the neighborhood.

RESPONSE: Invenergy does not believe that there will be any diminishment of

property values and in order to stand behind that statement, Invenergy is prepared to offer abutters a Property Value Protection Agreement that will provide protection against diminished value, if it were to

occur.

RESPONDENT: John Niland, Director, Business Development, Invenergy