From:
 Puco ContactOPSB

 To:
 Mark Mcgrail

 Subject:
 RE: Noise LEC Plant

Date: Tuesday, July 11, 2023 10:49:00 AM

Attachments: LEC Noise Survey 2018.pdf

LEC Declaration 07-06-2023 - #22797338 v1.pdf

Hello Mr. McGrail,

Thank you for reaching out to OPSB Staff with your concerns about the level of noise coming from Lordstown Energy Center (LEC). As you are aware, Staff recently conducted an unannounced noise investigation, which found no indication that LEC was operating out of compliance with its anticipated noise output as described in its OPSB certificate. Further, Staff reviewed a sound study conducted in 2018 by a third-party vendor contracted by LEC (see attached). Staff found the study's weather conditions and other variables adequately represent the conditions present during Staff's investigation. Furthermore, Staff confirmed through the attached declaration that no changes have been made to any noise emitting equipment at LEC since the time of the noise study. Accordingly, Staff finds that the study's results to corroborate Staff's investigation findings.

Staff does not deem an additional sound study necessary at this time. Staff maintains that LEC is operating within the expected sound parameters in accordance with its certificate. However, in the interest of thoroughly addressing your ongoing concerns, Staff will conduct an unannounced sound test within the next 90 days. Of course, we will share the results of that testing with you.

Again, thank you for contacting the OPSB Staff with your concerns.

Respectfully,

Matt Butler (he/him)
Public Information Officer
Ohio Power Siting Board
614-644-7670

From: Mark Mcgrail <markr.mcgrail@gmail.com>

Sent: Tuesday, July 11, 2023 6:18 AM

To: Puco ContactOPSB <contactopsb@puco.ohio.gov>

Subject: Noise LEC Plant

Good Morning,

As you know, I filed a noise complaint with LEC yesterday, 7/10/2023. There has been no response, nor has the noise been mitigated.

This morning, about 6:00 am, the noise level ranged from 52.7 db to 58.1 db, averaging 54.1 db.

I know the plant can operate below this noise level within the range cited in the sound study. It appears that the operators of the plant don't care, perhaps because they don't fear any repercussions.

Mark R. McGrail

markr.mcgrail@gmail.com 330-883-8891

CAUTION: This is an external email and may not be safe. If the email looks suspicious, please do not click links or open attachments and forward the email to csc@ohio.gov or click the Phish Alert Button if available.

SIEMENS

Siemens Energy, Inc.

ENVIRONMENTAL ENGINEERING REPORT

Title	ACOUSTICAL TEST REPORT
-------	------------------------

US1289	BDD120	000-0392	10	UNID	499353052	
Proj. Code/ProjKennz.	Doc./UA	Contents Code/Inhaltskennzeichen	Count no./Zähl-nr.			

		Confidential	Vertraulich
Original / Ursprung	Module Coordinator / Modulverantwortlicher	Handling	Handhabung

See Section 2.0 APPLICABLE DOCUMENTS	5
Related Documents/Zugehörige Dokumente	Review Level

	Department	Dept. Code	Name	Signature	Date
Prepared by	Environmental Engineering	E F ES EN PTEC-ORL	Jordan M. Haywood Fellow Engineer	Jurda M. Hat Juttel	Sep 20,
Reviewed by	Environmental Engineering	E F ES EN PTEC-ORL	Dennis DeLaby Principal Engineer	Many	300 20
Approved by	Environmental Engineering	E F ES EN PTEC-ORL	Amit Patel Manager	Rahleyh, Frit Freek)	20 Sept 2018

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REVISION SHEET

Revision	Revision Date	Section	Description of Change
001	Sep. 20, 2018	All	Original issue
	,		

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EXECUTIVE SUMMARY

Near and Far Field Sound Level testing was performed at the US1289 – CEF-Lordstown facility located in Lordstown, Ohio, per procedures and methods defined in the Siemens Acoustical Test Procedure document US1289-BDC010-000-0392-10 (UNID 499072410), Revision 002, in order to demonstrate compliance with Siemens near and far field guarantees per the Contract. The spatially averaged near field A-weighted sound pressure level is guaranteed to be less than or equal to 85 dB on the source envelope contour, as defined in the Contract. The far field sound levels are guaranteed at different levels for each of the five (5) far field positions as defined in the Contract and as summarized in the table below.

The data summary provided below details the test results from the near field sound level compliance testing during 2x1 base load combined cycle operation (both gas turbines and the steam turbine at 100% load for the ambient conditions).

Near Field Sound Level Test Results – Aug. 28 and Aug. 31, 2018 Combined Cycle Operation

Parameter	A-weighted Sound Level (dB re 20 μPa)
Equipment Tested	Facility Equipment Inside Near Field Source Envelope Contour Per Contract
Test Times	16:24-17:58 (Aug. 28); and 13:24-14:44 (Aug. 31)
Load, MW	~ 268 (each GT); ~ 278 (ST)
Average Sound Level, $\overline{L}_{A_{tn}}$	77.3
Measurement Uncertainty Correction	-2
Instrumentation Tolerance Correction	-1
Final Corrected and Rounded Sound Pressure Level	74
Contract Requirement	85
Guarantee Met	Yes

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The data summary provided below details the test results from the far field sound level compliance testing during 2x1 base load combined cycle operation (both gas turbines and the steam turbine at 100% load for the ambient conditions).

Far Field Sound Level Test Results – Aug. 28, 2018 Combined Cycle Operation

Position	Test Times	A-weighted Sound Level (dB re 20 μPa)	Contract Requirement	Guarantee Met
ML-1	1417-1437	43	47	Yes
ML-2	1210-1230	47	48	Yes
ML-3	1445-1505	44	51	Yes
ML-4	1239-1259	43	44	Yes
ML-5	1345-1405	38	40	Yes

Testing Representative: Near and far field sound level testing was performed by Mr. Jordan M. Haywood (Siemens Energy, Inc.). Mr. Kevin McKanna (Sargent & Lundy) witnessed a portion of the near field testing (Positions 1-105 on Aug. 28). Mr. Eduardo Mendoza (Sargent & Lundy) witnessed a portion of the near field testing (Positions 106-163 on Aug. 31). Mr. McKanna witnessed all of the far field testing on Aug. 28, 2018.

Statement of Compliance – Near Field Sound Level: The spatially averaged near field A-weighted sound level during steady-state 2x1 base load combined cycle operation for the facility equipment, when measured on the near field source envelope Contour per the Contract, were less than the Contract requirement of a spatially averaged A-weighted sound level of 85 dB and are compliant with Contract requirements.

Statement of Compliance – Far Field Sound Level: The A-weighted L₉₀ far field sound levels during steady-state 2x1 base load combined cycle operation for the facility equipment, when measured at the Line of Site ML-1 through ML-5 positions and corrected for distance to the Original ML-1 through ML-5 positions per the Acoustical Test Procedure, were less than the Contract required sound levels and are compliant with Contract requirements.

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1.0 INTRODUCTION

Near and far field sound level compliance testing has been performed at the CEF-Lordstown facility (PKZ No. US1289) located in Lordstown, Ohio. Combined cycle near and far field sound level testing was performed during natural gas operation of the entire facility in 2x1 combined cycle operation, on Aug. 28 and 31, 2018 for the near field, and Aug. 28, 2018 for the far field. Testing was conducted in accordance with the Siemens Acoustical Test Procedure (ATP) document US1289-BDC010-000-0392-10 (UNID 499072410), Revision 002 [Reference 1] to demonstrate compliance with the Siemens' near and far field sound level Contract requirements.

The Siemens Energy, Inc. (Siemens) scope-of-supply for the CEF-Lordstown Project consists of (2) SSC6-8000H gas turbines with heat recovery steam generators (GT/HRSG), one (1) SST6-5000 steam turbine (ST), a 14-cell wet cooling tower, and associated pumps, auxiliaries, transformers, etc. necessary for the proper operation of the entire facility, as defined in the Scope-of-Supply/Division-of-Responsibility documents. The value of the final, rounded, spatially averaged near field A-weighted sound level for the facility as defined in the Contract guarantee data sheets, after applicable corrections for environmental influences, instrumentation tolerances and measurement uncertainty, will be presented. The values of the final far field A-weighted sound levels for the facility as defined in the Contract guarantee data sheets, after applicable corrections for distance, will be presented. In addition, this report contains a description of the test methods and procedures, test results, a figure depicting the equipment layout and near field measurement positions, a table summarizing the far field measurement positions (Original and Line of Site) including the coordinates and distance determinations, measurement calculations and corrections, plant operating parameters, atmospheric conditions and the models, serial numbers and calibration certificates of the sound level measurement equipment utilized.

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2.0 TEST METHODS AND PROCEDURES

2.1 Personnel

Mr. Jordan M. Haywood, MS, PE, QEP, with the Siemens Environmental Engineering Department, performed the near field sound level compliance measurements over a two day period due to the plant tripping at ~ 18:00 on Aug. 28; the near field sound level measurements were completed on Aug. 31, 2018. All of the far field measurements were taken on Aug. 31, 2018. Mr. Kevin McKanna (Sargent & Lundy) witnessed a portion of the near field testing (Positions 1-105 on Aug. 28). Mr. Eduardo Mendoza (Sargent & Lundy) witnessed a portion of the near field testing (Positions 106-163 on Aug. 31). Mr. McKanna witnessed all of the far field testing on Aug. 28, 2018.

2.2 Measurement Locations

2.2.1 Near Field Measurement Locations

The microphone was located at a distance of three (3) feet (1 meter) from major surfaces of the equipment, on the source envelope contour, as described in the Contract Guarantee Data Sheet and shown in Appendix B. Measurements were taken at evenly spaced intervals of approximately six (6) to ten (10) feet, and at a height of approximately five (5) feet (1.5 m) above grade. All sound level measurements were taken in accordance with the ATP [Reference 1].

2.2.2 Far Field Measurement Locations

The microphone was located at various distances from the plant Acoustical Center (AC) for each of the five (5) far field positions, all within Line of Site (LOS) of the plant (due to the measured sound levels at the Original Positions (OP) being < 3 dB above the background sound levels), and as summarized in Appendix B. Measurements were taken at a height of approximately five (5) feet (1.5 m) above grade at all locations. All sound level measurements were taken in accordance with the ATP [Reference 1].

2.3 Duration of Sound Level Measurements

2.3.1 Near Field

The sample period for each measurement was ten (10) seconds. All sound level measurements were taken in accordance with the ATP [Reference 1].

2.3.2 Far Field

The sample period for each measurement was twenty (20) minutes. All sound level measurements were taken in accordance with the ATP [Reference 1].

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2.4 Measured Sound Level

2.4.1 Near Field

The measured parameter was the time-average equivalent continuous A-weighted sound level, L_{Aeq} , which is defined as the time-average equivalent continuous A-weighted sound level, which is the true root mean square (RMS) single number representation of a sound level measured over a specified period of time. All sound measurements were made in accordance with the ATP [Reference 1].

2.4.2 Far Field

The measured parameter was the time-average continuous A-weighted statistical sound level, L_{A90} , which represents the sound level exceeded 90 percent of the time, and minimizes the effect of short term, intrusive noise sources (e.g., aircraft or occasional traffic). The nature of the noise generated by the plant (steady, even noise levels) in comparison with background sound levels was more accurately represented by using the L_{A90} descriptor. All sound measurements were made in accordance with the ATP [Reference 1].

2.5 Instrumentation

Sound level measurements were made using a Type 1 precision sound level meter. Set-up of the instrumentation at each measurement location was done in accordance with the ATP [Reference 1]. The 'Fast' sound level meter response setting was utilized.

All sound level meter instrumentation has current documents certifying conformance traceable to the National Institute of Standards and Technology (NIST). Equipment models and serial numbers of the Siemens instruments are summarized in Appendix C. Copies of the certificates of calibration are provided in Appendix C.

2.6 Ambient Conditions During Testing

Ambient conditions during all phases of near and far field testing were conducive to testing and in accordance with the ATP [Reference 1]. Details are included in Appendix A.

2.7 Plant Operating Conditions

The plant was operated at 100% baseload in 2x1 configuration during all phases of near and far field testing and in accordance with the ATP [Reference 1]. Details are included in Appendix A.

2.8 Measurements. Corrections and Calculations

Tables summarizing the average sound levels, corrections and final values are provided in Section 3.0 of this report.

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2.9 Deviations from the Acoustical Test Procedure

There were no deviations from the ATP [Reference 1].

Clarifications regarding the sound level measurements and calculations include:

- Near field testing was interrupted during the first day of testing on Tuesday August 28, 2018 at approximately 18:00 due to the units coming off line (at position 105). Near field testing was resumed on Friday August 31, 2018 (at position 106) and completed. Sargent & Lundy had Kevin McKanna witness the near field testing up to position 105, and Eduardo Mendoza witness the near field testing from positions 106 through 163, after which the measurements were completed (to a total of 223 positions) with no witness due to Mr. Mendoza having prior commitments onsite. Details are included in Appendixes A and B.
- During checks of the OP far field sound levels on August 28, 2018, background noise from aircraft and traffic was too loud to make a determination for ML-2 and ML-3, with ML-5 also having audible truck traffic as well as residents working in their yards; hence, the decision was made to return to all three locations during a time when less background noise would be expected. On August 31, 2018 (~ 7:00 a.m.), all three of these locations (ML-2, ML-3 and ML-5) yielded sound levels that were < 3 dB above background and hence (as was proven with ML-1 and ML-4 on August 28, 2018), they could not be used to determine the sound level contributions from the plant, and the LOS location measurements had to be utilized. Details are included in Appendixes A and B.</p>
- In order to determine the distance correction for the sound levels measured at the far field LOS positions (to the far field OP), an acoustical center (AC) had to be determined. Based in part on the near field data collected on August 28, 2018, as well as a common-sense evaluation of the plant noise-source locations and layout, Mr. McKanna with Sargent & Lundy and Mr. Haywood with Siemens came to an agreement on a location for the AC. Following a detailed evaluation of the near and far field sound level measurements. Siemens has determined that the LOS position for ML-5 was essentially within the 'near field' of the Cooling Tower and hence, cannot technically be used to quantify the plant sound level contribution to the far field at the ML-5 OP (the side of the Cooling Tower facing the ML-5 direction has on average some of the loudest sound levels measured on the near field contour and in addition, the LOS ML-5 sound level measurement was approximately 10 dB louder than any of the other LOS measurements). Hence, for the ML-5 distance correction from the LOS position to the OP, the Cooling Tower was chosen as the AC, which makes technical sense and yields a (distance corrected) sound level at the ML-5 OP that is in-line with the original acoustical model results.

2.10 Data Reporting

The sound level data are provided in Section 3.0 of this report. The final results are reported in decibels rounded to the nearest ones place, in accordance with the ATP [Reference 1].

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3.0 TEST RESULTS

Sound level measurements were obtained for the purposes of determining the final, corrected, A-weighted sound level, in accordance with the ATP [Reference 1].

The data summary provided below details the test results from the near field sound level compliance testing during 2x1 base load combined cycle operation (both gas turbines and the steam turbine at 100% load for the ambient conditions).

Near Field Sound Level Test Results – Aug. 28 and Aug. 31, 2018 Combined Cycle Operation

Parameter	A-weighted Sound Level (dB re 20 μPa)
Equipment Tested	Facility Equipment Inside Near Field Source Envelope Contour Per Contract
Test Times	16:24-17:58 (Aug. 28); and 13:24-14:44 (Aug. 31)
Load, MW	~ 268 (each GT); ~ 278 (ST)
Average Sound Level, $\overline{L}_{A_{tn}}$	77.3
Measurement Uncertainty Correction	-2
Instrumentation Tolerance Correction	-1
Final Corrected and Rounded Sound Pressure Level	74
Contract Requirement	85
Guarantee Met	Yes

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The data summary provided below details the test results from the far field sound level compliance testing during 2x1 base load combined cycle operation (both gas turbines and the steam turbine at 100% load for the ambient conditions).

Far Field Sound Level Test Results – Aug. 28, 2018 Combined Cycle Operation

Position	Test Times	A-weighted Sound Level (dB re 20 μPa)	Contract Requirement	Guarantee Met
ML-1	1417-1437	43	47	Yes
ML-2	1210-1230	47	48	Yes
ML-3	1445-1505	44	51	Yes
ML-4	1239-1259	43	44	Yes
ML-5	1345-1405	38	40	Yes

Statement of Compliance – Near Field Sound Level: The spatially averaged near field A-weighted sound level during steady-state 2x1 base load combined cycle operation for the facility equipment, when measured on the near field source envelope Contour per the Contract, were less than the Contract requirement of a spatially averaged A-weighted sound level of 85 dB and are compliant with Contract requirements.

Statement of Compliance – Far Field Sound Level: The A-weighted L_{90} far field sound levels during steady-state 2x1 base load combined cycle operation for the facility equipment, when measured at the Line of Site ML-1 through ML-5 positions and corrected for distance to the Original ML-1 through ML-5 positions per the Acoustical Test Procedure, were less than the Contract required sound levels and are compliant with Contract requirements.

4.0 REFERENCES

(1) Siemens Acoustical Test Procedure document 'US1289-BDC010-000-0392-10 (UNID 499072410), Revision 002', dated August 22, 2018.

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APPENDIX A SOUND LEVEL SURVEY DATA AND CALCULATION SHEETS

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Sound Level Survey - Summary Data Sheet US1289 - CEF-Lordstown

10, 11, 12 Entire Facility - Near Field, per	ATP Sec. 5.2.2.1, Fig. 1		
Norsonic Nor140		Serial Number:	1403049
Employee and the Control of the Cont			12550
minutes and the second			79610
Norsonic 1251	7.	Serial Number:	31729
Testing			
1617	Barometric Pressur	o 14.77 De	TO
The state of the s	Wind Direction (out o	0: 11 1111	6 Turpic mack
(16.27.70)			(uter o
W+11- 269 M	11 11 11 17°	768 NIII	55-774
TOTAL		1118 4501	77-67
	THE COURT	HILLIAM	
The All			
0.19			
nt Parameter: Log npling Period: 10-sec bration Level: 1/4/0 ment series must be repeated Aug. 28 70/8	if the calibration levels diffe		114.0. dB
VENN McKennet	Lun hikon		
errupted due of sured point with	to plant tr	ipping e	10peration
	Norsonic Nor140 Norsonic Norsonic 1225 Norsonic 1225 Norsonic 1251 Testing 1617 89.55 R5.1% Testing	Norsonic Nor140 Norsonic 1225 Norsonic 1225 Norsonic 1225 Norsonic 1251 Testing 6	Norsonic Nor140 Norsonic Serial Number: Norsonic Serial Number: Norsonic 1225 Norsonic 1251 Testing Barometric Pressure: Wind Speed: Wind Speed: Wind Direction (out of): Cloud Cover: 1477 167 167 Barometric Pressure: Wind Speed: Wind Direction (out of): Cloud Cover: 176 176 176 176 176 177 178 178

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Unit Number(s): 1	0,	11	. 1	12
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Equipment Description: Entire Facility - Near Field, per ATP Sec. 5.2.2.1, Fig. 1

Testing Performed By: __Jordan M. Haywood, Siemens

Date: Aug. 78, 2018 Day of Week: Tuesday

Test Type (Near, Far or Ambient): Near Measurement Parameter: Leq
Test Measurement Units: dB(A) Sampling Period: 10-set

Time	Test	Observed	Record No.	Remarks
of Measurement	Position	SPL	110000000000000000000000000000000000000	
1624	1	74.2		
1625	2	75.7		
1676	3	759		
167.7	4	66.8		
1628	5	68.4		
1629	6	70.8		
1679	7	72.4		
1630	8	72.6		
1631	9	69.4		
1631	10	70.7		
1632	11	72.7		
1632	12	72.5		
1639	13	72.8		
1635	14	73.9		
1636	15	73.1		
1636	16	74.6		
1637	17	77.6		
(638	18	79.8		
1640	19	RD. A		
1641	20	81.3		
1642	21	63.2		
1643	22	31.0		
1843	23	80.7		
7644	24	79.4		
1644	25	788		
1.695	26	77.6		
1645	27	76.7		
(646	28	75.7	9-	
1647	29	75.4		
1648	30	74.5		
1649	31	73.9		
1653	32	73.0		
1659	33	77.4		
1655	34	71.3		
1655	35	6979		
1697	36	69.7		
1658	37	70.6		
1639	38	71.0		
1700	39	69.1		
1700	40	67.6		

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Unit Number(s): 10, 11, 12

Equipment Description: Entire Facility - Near Field, per ATP Sec. 5.2.2.1, Fig. 1

Testing Performed By: _ Jordan M. Haywood, Siemens

Date: Aug. 78, 70/8 Day of Week: Tuesday

Test Type (Near, Far or Ambient): Near Measurement Parameter: Leq
Test Measurement Units: dB(A) Sampling Period: 10-sec

Time of Measurement	Test Position	Observed SPL	Record No.	Remarks
1702	41	66.4	21	
1700	42	65.9		
1703	43	66.6		
1704	44	653	8	
1705	45	66.1		
1706	46	64.8		
1708	47	64.7		
1709	48	65.8		
17 10	49	65,7		
1711	50	66.8		
712	51	67.3		
1717	52	67.1		
1513	53	663		
1714	54	676		
1714	55	656		
1715	56	64.7		
1716	57	60.7		
1717	58	59.1		
1717	59	58.7		
1718	60	588		
1719	61	64.2		
1719	62	65.4		
1720	63	66.8		
1270	64	66-2		
1721	65	66.4		
1771	66	66.0		
1724	67	66.6		
1775	68	67,6		
1726	69	68.0		
1727	70	67.7		
1708	71	68.3		
1729	72	68.4		
1729	73	67.1		
1730	74	69.4		
1730	75	70.3		
1731	76	71-7		
173	77	71.9		
1932	78	71.4		
1733	79	72.2		
1734	80	71-1		

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Unit Number(s):

Equipment Description: Entire Facility - Near Field, per ATP Sec. 5.2.2.1, Fig. 1

Testing Performed By: Jordan M. Haywood, Siemens

Day of Week: Tresda

Test Type (Near, Far or Ambient): Measurement Parameter: Near Test Measurement Units: Sampling Period:

Time of Measurement	Test Position	Observed SPL	Record No.	Remarks
	81			
1735	82	70.9	-	
1735		68.7		
1736	83	650		
7/	84	65.1		
1737	85	63.6		
1738	86	645		
1738	87	12.01		
1739	88	72.9		
1239	89	673	_	
1742	90	64.6		
1743	91	65.4		
1744	92	66.2		
1745	93	67.5		
1745	94	69.3		
1746	95	695		
1747	96	70.0		
1797	97	73.9		
1748	98	75.7		
1749	99	74.8		
1750	100	759		
1753	101	75.4		
1759	102	73.4		
1795	103	73.6		N 01-15 10 000
1757	104	75.0		Plant Tripped 1800
1758	/ 105	7616		
1906	106	77.9 /		
1800 /	107	78.2/		
1 403 /	108	781		
1004/	109	785		
1805	110	794		
11808	111	79.4		
1806	112	X8.0		
1807	113	66.8		
(BDB)	114	164.9		
P669	115	165,4		
1000	116	6517		
1/810	117	656		
/ 1815	118	65.2		
/ 1815	119 /	65.1		
1816	120 /	65.1		
1.11	120/	0.71.1		

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Sound Level Survey - Summary Data Sheet US1289 - CEF-Lordstown

Unit Number(s): Equipment Description:	10, 11, 12 Entire Facility - Near Field, per ATP Sec. 5.2	2.1, Fig. 1	
Test Equipment			
Sound Level Meter:	Norsonic Nor140	Serial Number: 14	03049
Preamplifier:	TO THE RESIDENCE OF THE PARTY O		12550
Microphone:	Norsonic 1225		79610
Calibrator:	Norsonic 1251		31729
Ambient Conditions During	Testing		
Time:	/300 Baromet	ric Pressure: 14/ >5/a	
Dry Bulb Temperature:	28°F	ric Pressure: 14/ps/a Wind Speed: Comp	
Wet Bulb Temperature:	Wind Direct	tion (out of):	<u> </u>
Humidity:	58%	Cloud Cover: ~ 70% (Ao Mix	C)
Plant Operating Conditions			
Power Output:	61 (mit 11: 269 MW: 6)	WYTE: 267441- 5	TLEWAYO: ZZENW
Fuel Type and Flowrate:	STITE 113 KAPA: GT/72:	112 KAPA	
Water Injection Rate:	n/a	19	
Evaporative Cooling:	OFF		
Pre-Test Meter Calib * The measurer Date: Day of Week: Testing Performed By: Testing Witnessed By:	pling Period: 10-sec ration Level: 114-0 Post-Test Mement series must be repeated if the calibration Aug. 31, 2018 Friday Jordan M. Haywood, Siemens	as si leone	(a te st tion 10.106).
Siemens Energy, Inc.	Summary Sheet - Pa	ge 1	Page 1

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Unit Number(s): 10, 11, 12 Equipment Description: Entire Facilit	y - Near Field, per ATP	Sec. 5.2.2.1, Fig. 1		
Testing Performed By:Jordan M.	Haywood, Siemens			
Date: 449.31,7018	Day of Week:	Friday		
Test Type (Near, Far or Ambient):		Measurement Parameter:_	Leq	
Test Measurement Units:	dB(A)	Sampling Period:	10-sec	

Time	Test Position	Observed SPL	Record No.	Remarks
of Measurement		SPL		3667 H-03366
	81 82			
	83			
	84			
	85			
	86			
	87			
	88			
	89			
	90			
	91			
	92	Contract of the Contract of th		
	93	100		
	94			
	95			
	96			
	97			
	98			
	99			
	100			
	101			
	102			
A CONTRACTOR OF THE PARTY OF TH	103			
	104			
	105		- 1	
1374	106	75,9	104-007	
1375	107	78J		
137.5	108	781		
1376	109	78-3		
1376	110	78.9		
1377	111	79.2		
(47)	112	77.5		
1326	113	67.6		
1972	114	65.5		
1379	115	663		
1329	116	66.8	9	
1530	117	65,4		
1330	118	651		
(33)	119	65.4		
133	120	66,0		

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Unit Number(s): Equipment Descrip	tion:	10, 11, 12 Entire Facility	v - Near Field. r	oer ATP :	Sec. 5.2.2.1, Fig. 1	
		52 32 5555				
Testing Per	formed By:	Jordan M. I	Haywood, Siem	ens		
Date:	Dug.	31,2018	Day of	Week:_	Friday	
		or Ambient): ement Units:			Measurement Parameter: Lec Sampling Period: 10-se	-
Time of Measurement	Test Position	Observed SPL	Record No.		Remarks	
1333	121	65.8				
334 334 335	122	66,0				
334	123	69.9				
1395	124	78.9				
1935	125	79.0				
1256	126	80.4				
1338	127	81.5				
1350	128	80.5				
1339	129	BLY				
1339	130	81.8				
1340	131	81.8				
13 90	132	31.				
1347	133	80,4				
1242	134	81.3				
(372	135	31.7				
1343	136	81.7				
1244	137	81.1				
1244	139	80.6				
(345	140	- Control of the last of the l				
1345	141	87.0				
1346	142	80.9				
1346	143	81.2				
(345	144	81.9				
1349	145	82.0				
1348	146	81.1				_
1348	147	803				
134g	148	813		8		
1350	149	81.6				
1351	150	81.5		7		
1351	151	80.7		i i		
1357	152	80.6				
1352	153	81.7				
1353	154	81.8		8		

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Equipment Description:

Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Entire Facility - Near Field, per ATP Sec. 5.2.2.1, Fig. 1

Unit Number(s):	10, 11, 12

Date: Aug. 31, 2018 Day of Week:

Teet Type (Mear For or Ambient): Near Meacurement Paran

Test Type (Near, Far or Ambient): Near Measurement Parameter: Leq
Test Measurement Units: dB(A) Sampling Period: 10-sec

Time of Measurement	Test Position	Observed SPL	Record No.	Remarks
1359	161	71.4		
1359	162	71.9		
1400	163	71.6		
1401	164	70,7		
1405	165	713		
1405	166	70.7		
1407	167	703		
1407	168	68.0		
1408	169	64.0		
1408	170	67.B		
1409	171	63.3		
1409	172	640		
1410	173	67.2		
1910	174	70.1		
1411	175	77.4		Large door tagged open & could not be show
1911	176	79.9		7
1412	177	77.6		102
1412	178	70.5		
1413	179	70.5 67.7		
1915	180	68.6		
1415	181	74.4		41
(416	182	78.6		
1916	183	77.0		
1417	184	72.6		
1418	185	71.1		
1119	186	71.8		
1420	187	74.1		
147.1	188	76.5		
1421	189	76.5		
1423	190	70.2		
1424	191	77.1		
1424	192	13.5		
1425	193	73.1		
1425	194	717		
1926	195	75.4		
1976	196	77.9		
1427	197	78.6		
1467	198	77.6		
1418	199	751		
1429	200	80.6		

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Unit Number(s):	_10, 11, 12_	1				

Equipment Description: Entire Facility - Near Field, per ATP Sec. 5.2.2.1, Fig. 1

Testing Performed By: __Jordan M. Haywood, Siemens

Date: Aug 31, 2018 Day of Week: To I day

Test Type (Near, Far or Ambient): Near Measurement Parameter: Leq
Test Measurement Units: dB(A) Sampling Period: 10-sec

Time of Measurement	Test Position	Observed SPL,	Record No.	Remarks
1432	201	83.6		
1437	202	83.4		
1433	203	81.5		
1433	204	87.6		
1434	205	82.4		
1434	206	843		
1435	207	84.7		
1435	208	93.3		
1436	209	83.3		
1436	210	86.7		
1437	211	79.7		
1437	212	95.7 79.0	277.117	PC.
14380	213	79,0	100	et e
1430	214	ウタリ		
1440	215	7615		
1941	216	78.3		
144/	217	78,6		
1442	218	78,6 78,3 78,9		
1442	219	78.9		
1443	220	78.5		
1443	221	78.0		
1444	222	79.3		
1444	223	789		
	224			
	225			
	226			
	227			
	228	- 5		
	229			
	230			
	231			
	232			
	233			
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Near Field Sound Level Survey US1289 - CEF-Lordstown

	Measured L _A	"Pressure Level" (A)		Measured L _A	"Pressure Level" (A)
Position	dB(A)	10^[dB(A)/10]	Position	dB(A)	10^[dB(A)/10]
1	74.2	26,302,679.92	41	66.4	4,365,158.32
2	75.7	37,153,522.91	42	65.9	3,890,451.45
3	75.9	38,904,514.50	43	66.6	4,570,881.90
4	66.8	4,786,300.92	44	65.3	3,388,441.56
5	68.4	6,918,309.71	45	66.1	4,073,802.78
6	70.8	12,022,644.35	46	64.8	3,019,951.72
7	72.4	17,378,008.29	47	64.7	2,951,209.23
8	72.6	18,197,008.59	48	65.8	3,801,893.96
9	69.4	8,709,635.90	49	65.7	3,715,352.29
10	70.2	10,471,285.48	50	66.8	4,786,300.92
11	72.2	16,595,869.07	51	67.3	5,370,317.96
12	72.5	17,782,794.10	52	67.1	5,128,613.84
13	72.8	19,054,607.18	53	66.3	4,265,795.19
14	73.9	24,547,089.16	54	67.6	5,754,399.37
15	73.1	20,417,379.45	55	65.6	3,630,780.55
16	74.6	28,840,315.03	56	64.7	2,951,209.23
17	77.6	57,543,993.73	57	60.2	1,047,128.55
18	79.8	95,499,258.60	58	59.1	812,830.52
19	80.4	109,647,819.61	59	58.2	660,693.45
20	81.3	134,896,288.26	60	58.8	758,577.58
21	83.2	208,929,613.09	61	64.2	2,630,267.99
22	81.0	125,892,541.18	62	65.4	3,467,368.50
23	80.7	117,489,755.49	63	66.8	4,786,300.92
24	79.4	87,096,359.00	64	66.2	4,168,693.83
25	78.8	75,857,757.50	65	66.4	4,365,158.32
26	77.6	57,543,993.73	66	66.0	3,981,071.71
27	76.7	46,773,514.13	67	66.6	4,570,881.90
28	75.7	37,153,522.91	68	67.6	5,754,399.37
29	75.4	34,673,685.05	69	68.0	6,309,573.44
30	74.5	28,183,829.31	70	67.7	5,888,436.55
31	73.9	24,547,089.16	71	68.3	6,760,829.75
32	73.0	19,952,623.15	72	68.4	6,918,309.71
33	72.4	17,378,008.29	73	67.1	5,128,613.84
34	71.3	13,489,628.83	74	69.4	8,709,635.90
35	69.4	8,709,635.90	75	70.3	10,715,193.05
36	69.7	9,332,543.01	76	71.2	13,182,567.39
37	70.6	11,481,536.21	77	71.9	15,488,166.19
38	71.0	12,589,254.12	78	71.9	15,488,166.19
39	69.1	8,128,305.16	79	72.2	16,595,869.07
40	67.6	5,754,399.37	80	71.1	12,882,495.52
				el" (Page) Total	

(A) Equivalent to the ratio of the square of the RMS (root mean square) of the sound pressure to the squared reference pressure of 20 micropascals: $(P_{RMS}/P_{REF})^2$

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Near Field Sound Level Survey US1289 - CEF-Lordstown

	Measured L _A	"Pressure Level" (A)		Measured L _A	"Pressure Level" (A)
Position	dB(A)	10^[dB(A)/10]	Position	dB(A)	10^[dB(A)/10]
81	70.9	12,302,687.71	121	65.8	3,801,893.96
82	68.7	7,413,102.41	122	66.0	3,981,071.71
83	65.0	3,162,277.66	123	69.4	8,709,635.90
84	65.1	3,235,936.57	124	78.9	77,624,711.66
85	63.6	2,290,867.65	125	79.0	79,432,823.47
86	64.5	2,818,382.93	126	80.4	109,647,819.61
87	68.9	7,762,471.17	127	81.5	141,253,754.46
88	72.9	19,498,446.00	128	80.5	112,201,845.43
89	67.3	5,370,317.96	129	81.4	138,038,426.46
90	64.6	2,884,031.50	130	81.8	151,356,124.84
91	65.4	3,467,368.50	131	81.8	151,356,124.84
92	66.2	4,168,693.83	132	81.1	128,824,955.17
93	67.5	5,623,413.25	133	80.4	109,647,819.61
94	69.3	8,511,380.38	134	81.3	134,896,288.26
95	69.5	8,912,509.38	135	81.7	147,910,838.82
96	70.0	10,000,000.00	136	81.7	147,910,838.82
97	73.9	24,547,089.16	137	81.1	128,824,955.17
98	75.2	33,113,112.15	138	80.6	114,815,362.15
99	74.8	30,199,517.20	139	81.7	147,910,838.82
100	75.9	38,904,514.50	140	82.0	158,489,319.25
101	75.4	34,673,685.05	141	81.8	151,356,124.84
102	73.4	21,877,616.24	142	80.9	123,026,877.08
103	73.6	22,908,676.53	143	81.2	131,825,673.86
104	75.0	31,622,776.60	144	81.9	154,881,661.89
105	76.6	45,708,818.96	145	82.0	158,489,319.25
106	75.9	38,904,514.50	146	81.1	128,824,955.17
107	78.1	64,565,422.90	147	80.3	107,151,930.52
108	78.1	64,565,422.90	148	81.3	134,896,288.26
109	78.3	67,608,297.54	149	81.6	144,543,977.07
110	78.9	77,624,711.66	150	81.5	141,253,754.46
111	79.2	83,176,377.11	151	80.7	117,489,755.49
112	77.5	56,234,132.52	152	80.6	114,815,362.15
113	67.6	5,754,399.37	153	81.7	147,910,838.82
114	65.5	3,548,133.89	154	81.8	151,356,124.84
115	66.3	4,265,795.19	155	81.4	138,038,426.46
116	66.8	4,786,300.92	156	80.3	107,151,930.52
117	65.4	3,467,368.50	157	79.1	81,283,051.62
118	65.7	3,715,352.29	158	82.8	190,546,071.80
119	65.4	3,467,368.50	159	80.5	112,201,845.43
120	66.0	3,981,071.71	160	72.9	19,498,446.00
				/el" (Page) Total	5,629,820,226.78

(A) Equivalent to the ratio of the square of the RMS (root mean square) of the sound pressure to the squared reference pressure of 20 micropascals: $(P_{RMS}/P_{REF})^2$

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Near Field Sound Level Survey US1289 - CEF-Lordstown

	Measured L _A	"Pressure Level" (A)		Measured L _A	"Pressure Level" (A)
Position	dB(A)	10^[dB(A)/10]	Position	dB(A)	10^[dB(A)/10]
161	71.4	13,803,842.65	201	83.6	229,086,765.28
162	71.9	15,488,166.19	202	83.4	218,776,162.39
163	71.6	14,454,397.71	203	81.5	141,253,754.46
164	70.7	11,748,975.55	204	82.6	181,970,085.86
165	71.3	13,489,628.83	205	83.4	218,776,162.39
166	70.7	11,748,975.55	206	84.3	269,153,480.39
167	70.3	10,715,193.05	207	84.7	295,120,922.67
168	68.0	6,309,573.44	208	83.3	213,796,208.95
169	64.0	2,511,886.43	209	83.3	213,796,208.95
170	62.8	1,905,460.72	210	86.2	416,869,383.47
171	63.3	2,137,962.09	211	79.7	93,325,430.08
172	64.0	2,511,886.43	212	80.2	104,712,854.81
173	67.2	5,248,074.60	213	79.0	79,432,823.47
174	70.1	10,232,929.92	214	78.4	69,183,097.09
175	77.4	54,954,087.39	215	76.5	44,668,359.22
176	79.9	97,723,722.10	216	78.3	67,608,297.54
177	77.6	57,543,993.73	217	78.6	72,443,596.01
178	70.5	11,220,184.54	218	78.3	67,608,297.54
179	67.2	5,248,074.60	219	78.9	77,624,711.66
180	68.2	6,606,934.48	220	78.5	70,794,578.44
181	74.4	27,542,287.03	221	78.0	63,095,734.45
182	78.6	72,443,596.01	222	79.3	85,113,803.82
183	77.0	50,118,723.36	223	78.9	77,624,711.66
184	72.6	18,197,008.59			
185	71.1	12,882,495.52			
186	71.8	15,135,612.48			
187	74.1	25,703,957.83			
188	76.5	44,668,359.22			
189	77.4	54,954,087.39			
190	70.2	10,471,285.48			
191	72.1	16,218,100.97			
192	73.5	22,387,211.39			
193	73.1	20,417,379.45			
194	71.7	14,791,083.88			
195	75.4	34,673,685.05			
196	77.9	61,659,500.19			
197	78.6	72,443,596.01			
198	77.6	57,543,993.73			
199	75.1	32,359,365.69			
200	80.6	114,815,362.15			
			"Press	ure Level" Total	12,020,049,007.64
		"		Level" Average	53,901,565.06
		UNC	ORRECTE	D Average L _A ^(B)	77.3

- (A) Equivalent to the ratio of the square of the RMS (root mean square) of the sound pressure to the squared reference pressure of 20 micropascals: $(P_{RMS}/P_{REF})^2$
- (B) Average sound level in A-weighted decibels: 10 x Log₁₀ ("Pressure Level" Average)

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Project: US1289 – CEF-LORDSTOWN	Issued: Sep. 20, 2018				
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SIEMENS

Sound Level Survey - Summary Data Sheet US1289 - CEF-Lordstown

Unit Number(s): Equipment Description:	10, 11, 12 Entire Facility - Far Field, per A	TP Sec. 5.2.2.2, Table 07-3	, and Sec. 7.1	
Test Equipment				
Sound Level Meter:	Norsonic Nor140		arial Number	1403049
Preamplifier:			Serial Number: Serial Number:	12550
	Norsonic 1225 *		Serial Number:	79610
	Norsonic 1251		erial Number:	31729
Cambrator.	HOISOING 1201		enai wumber.	31725
Ambient Conditions During	Testing			
Time:	0940	Barometric Pressure:	14.26 p	sia
Dry Bulb Temperature:	alek	Wind Speed:	Zanklana	J Ymph max (16)
Wet Bulb Temperature:	The second second	Wind Direction (out of):	all pug	1 (16)
Humidity:	88.5%	Cloud Cover:	0%	
Plant Operating Conditions				
	11 - 1 11 - 122 MILL	1.111-17-5	CILLA ICS	15T:2816 MW
Power Output:	MINTEL CY CMU	/ UNITICE O	11900	51:28/16 MW
Fuel Type and Flowrate:	mit 11: 114.5 KM	H/UDIT IT	11 6 KPRH	
Water Injection Rate:	n/a	<u>.e.</u>		
Evaporative Cooling:	ON (both)			
Measuremer Sam Pre-Test Meter Calit * The measure Date: Day of Week: Testing Performed By:	Ment series must be repeated if	Post-Test Meter Calibratio the calibration levels differ		119,0 .
	111			
NOTES:				
*				
	65			
		• ,		
	4*			
Siemens Energy, Inc.	Summar	y Sheet - Page 1		Page 1

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Project: US1289 – CEF-LORDSTOWN	Issued: Sep. 20, 2018			

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SIEMENS

Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

Equipment Description: Unit Number(s):

Entire Facility - Far Field, per ATP Sec. 5.2.2, Table 07-3, and Sec. 7.1

Testing Performed By: Jordan M. Haywood, Siemens

Date: August 28, 2018

Day of Week: Tuesday

Test Type (Near, Far or Ambient): Test Measurement Units:

Measurement Parameter: Sampling Period:

20-min dB(A)

Remarks Data for Original Far Field Position Locations per Contract Attachment T, Table 07-3 Record No. Meter Data for 'Line of Site' Far Field Positions SPL, dB(A) Observed Position ML-4 ML-5 Test Measurement Time of

(A) If Unable to Use Data from Original Position per Acoustical Test Procedure Rev. 002, Section 7.1

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SIEMENS

Sound Level Survey - Summary Data Sheet US1289 - CEF-Lordstown

Sound Level Meter: Norsonic Nor140 Serial Number: 1403049 Preamplifier: Norsonic Serial Number: 12550 Microphone: Norsonic 1225 Serial Number: 79610 Calibrator: Norsonic 1251 Serial Number: 31729 Image: 1705 OGZO Serial Number: 1705 OGZO Serial Number: 1705 OGZO Serial Number: 170610 Image: 1	Unit Number(s): Equipment Description:	10, 11, 12	TD Pag 5 2 2 2 Table 67 2	and Son 74	
Sound Level Meter: Norsonic Nor140 Serial Number: 1403049 Preamplifier: Norsonic Serial Number: 12550 Microphone: Norsonic 12255 Serial Number: 79610 Calibrator: Norsonic 1251 Serial Number: 31729 Ambient Conditions During Testing Time: 2455 0670 Barometric Pressure: Wind Speed: Wind Speed: Wind Speed: Wind Speed: Wind Speed: Wind Direction (out of): Wind Speed: Wind Direction (out of): Wind Speed: Wind Direction (out of): Wind Speed: Wind Speed: Wind Direction (out of): Wind Speed: Wind Spe	Equipment Description:	Entire Facility - Far Fleid, per A	11F 3ec. 5.2.2.2, Table 07-3	, and Sec. 7.1	
Preamplifier: Norsonic 1225 Serial Number: 12550 Microphone: Norsonic 1225 Serial Number: 79610 Calibrator: Norsonic 1251 Serial Number: 31729 Imbient Conditions During Testing Time: 2475 0620 Barometric Pressure: Wind Speed: Wind Speed: Wind Direction (out of): Wind D	Test Equipment				
Microphone: Norsonic 1225 Calibrator: Norsonic 1251 Serial Number: 79610 Serial Number: 31729 Imbient Conditions During Testing Time: 2475 0670 Barometric Pressure: /4/ 4 6/4 Wind Speed: wind Direction (out of): wind Di	Sound Level Meter:	Norsonic Nor140	5	Serial Number:	1403049
Time: 2425 0620 Barometric Pressure: 444 August 644 August 125 Aug	Preamplifier:	Norsonic			12550
Time: 2725 0620 Barometric Pressure: Wind Speed: Wind Speed: Wind Speed: Wind Direction (out of): Wind Direction (out of)	Microphone:	Norsonic 1225			79610
Time: 2475 0620 Barometric Pressure: Wind Speed: Wind Speed: Wind Speed: Wind Speed: Wind Direction (out of): V. NE NOW Cloud Cover: Wind Direction (out of): V. NE NOW Cloud Cover: Wind Direction (out of): V. NE NOW Cloud Cover: Wind Direction (out of): V. NE NOW Cloud Cover: Wind Direction (out of): V. NE NOW Cloud Cover: Wind Direction (out of): V. NE NOW Cloud Cover: Wind Direction Cloud Cover: Wind Cover: Wind Direction Cloud Cover: Wind Direction Cloud Cover: Wind Cover: Wind Cover: Wind Cover: Wind Cover: Wind Cover: Wind	Calibrator:	Norsonic 1251		Serial Number: _	31729
Wet Bulb Temperature: Wet Bulb Temperature: Humidity: Bost Cloud Cover: Wind Direction (out of): Out 100 Pains Cloud Cover: Out 100 Pains Cloud Cover	Ambient Conditions During	Testing			
Wet Bulb Temperature: Wet Bulb Temperature: Humidity: Bost Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Cloud Cover: Wind Direction (out of): Out 100 Fairs Wind Directi	Time	7125 1/71	December December	1.11	
Wet Bulb Temperature: Humidity: Both Cloud Cover: Wind Direction (out of): Cloud Cover: Wind Direction (out of): Cloud Cover: Wind Direction (out of): Wind Direction (6703 060			5/A
Humidity: B6% Cloud Cover: ~ 50% (no rein) Plant Operating Conditions Ower Output: uel Type and Flowrate: Vater Injection Rate: vaporative Cooling: Test Type (Near, Far or Ambient): Far Test Measurement Units: dB(A) Measurement Parameter: Leq Sampling Period: 20-min Pre-Test Meter Calibration Level: /// O Post-Test Meter Calibration Level: /// AB Date: beauty		0/-			DIMPN -ax
Test Type (Near, Far or Ambient): Test Type (Near, Far or Ambient): Sampling Period: Pre-Test Meter Calibration Level: The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By: Indicate Calibration Structure (Calibration Structure) A Testing Witnessed By: Indicate Calibration Manual Calibration Structure) Far GTUMH // CTUMH // C		D 6 3 B			200
Test Type (Near, Far or Ambient): Test Type (Near, Far or Ambient): Sampling Period: The measurement veries must be repeated if the calibration Level: Day of Week: Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By:	rialitatey.	00.40	Glodd Gover.		no rein
Test Type (Near, Far or Ambient): Sampling Period: Leq Sampling Period: 20-min	Plant Operating Conditions				
Test Type (Near, Far or Ambient): Sampling Period: Leq Sampling Period: 20-min	Power Output:	671115411.77441	1- (5TUNA12:2:	734-55 M	- ZALVILLES -
Test Type (Near, Far or Ambient): Test Measurement Units: Measurement Parameter: Sampling Period: The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By: 1/4 Testing Witnessed By: 1/4 Testing Vitnessed By: 1/4 Testing Performed By: 1/4 Testing Vitnessed By: 1/4 Testing Vitn	[Part 170, 170 Part 18 19 19 19 19 19 19 19	67 11 11 115 KPI	PM: 67 12 12	- PIULED	PH
Test Type (Near, Far or Ambient): Test Measurement Units: B(A) Measurement Parameter: Sampling Period: 20-min Pre-Test Meter Calibration Level: The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By: 1/4 Testing Witnessed By: 1/4 Testing Vitnessed By: 1/4 Testing Vitnessed By: 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/	강물하다 보다 하는데 기를 바라가면 되었다. 하는 그들은 사람이 되었다. 그런 그는 그를 보다 하는데	VI VIIII II.	, a suit 10	117701	
Test Type (Near, Far or Ambient): Test Measurement Units: B(A) Measurement Parameter: Sampling Period: 20-min Pre-Test Meter Calibration Level: The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: 1/4 Testing Witnessed By: 1/4 Testing Vitnessed By: 1/4					
Test Measurement Units: dB(A) Measurement Parameter: Leq Sampling Period: 20-min Pre-Test Meter Calibration Level: //4, 0 Post-Test Meter Calibration Level: //4_/ * The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: //a	Evaporative occuring.	0			
Test Measurement Units: dB(A) Measurement Parameter: Leq Sampling Period: 20-min Pre-Test Meter Calibration Level: //4, 0 Post-Test Meter Calibration Level: //4_/ * The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: //a					
Test Measurement Units: dB(A) Measurement Parameter: Leq Sampling Period: 20-min Pre-Test Meter Calibration Level: ///, O Post-Test Meter Calibration Level: //// * * The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: //a	Test Type (Near Far	or Ambient): Far		13	ő.
Measurement Parameter: Leq Sampling Period: 20-min Pre-Test Meter Calibration Level: /// O Post-Test Meter Calibration Level: /// * * The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: //a					
Pre-Test Meter Calibration Level: 1/4, 0 Post-Test Meter Calibration Level: 1/4 * * The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: 1/4					
Pre-Test Meter Calibration Level: //4, 0 Post-Test Meter Calibration Level: //4_ * * The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: //a					
* The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: 1/a	San	ipling Period: 20-min			
* The measurement series must be repeated if the calibration levels differ by more than +/- 1 dB Date: Day of Week: Day of Week: Day of Week: Jordan M. Haywood, Siemens Testing Witnessed By: 1/a	B T	LULO	D T	2.00	1111) .
Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By: //a					I dB
Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By: //a		1 1			
Testing Performed By: Jordan M. Haywood, Siemens Testing Witnessed By: 1/a		The state of the s			
Testing Witnessed By:	Day of Week:	Saluday			
Testing Witnessed By:					
	Testing Performed By:	Jordan M. Haywood, Siemens			
OTES:	Testing Witnessed By:	n/a			
	NOTES:				
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Siemens Energy, Inc.

Summary Sheet - Page 1

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Sound Level Survey - Raw Data Collection Sheet US1289 - CEF-Lordstown

10, 11, 12 Equipment Description: Unit Number(s):

Entire Facility - Far Field, per ATP Sec. 5.2.2.2, Table 07-3, and Sec. 7.1

Jordan M. Haywood, Siemens Testing Performed By:

Test Type (Near, Far or Ambient):

Measurement Parameter:

Day of Week:

Test Measurement Units:

Sampling Period:

Data for Original	Far Field F	osition Loca	tions per Con	Data for Original Far Field Position Locations per Contract Attachment T, Table 07-3
Time of Measurement	Test Position	Position SPL, dB(A) Record No.	Meter Record No.	Remarks
	ML-1			
2693	ML-2	50.7	0/4	Smin sportchack: < 3dBabour De characud
0705	ML-3	1.96.1	1/2	Simin spot check: < 30 8 above to checkerpur
	ML-4			
0653	ML-5	944	n/q	S-win aret chack; <3dBatorp hat keet

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Far Field Sound Level Survey US1289 - CEF-Lordstown

	Measured L ₉₀ (A)		Distance (feet) from AC to: (B)	L _{A90} Correction	Siemens
Position	dB(A)	Original Position	L.O.S. Position	Original Position L.O.S. Position to Original Position (C) Guarantees	Guarantees
NL-1	53.7	3,379	1,003	43.2	47
ML-2	53.9	3,221	1,373	46.5	48
ML-3	53.3	2,270	739	43.6	51
ML-4	55.3	3,010	739	43.1	44
ML-5b	62.9	4,962	210	38.4	40

(A) Measured at a position within 'Line of Site' (L.O.S.) of facility, as the original position sound levels were all < 3 dB above background (B) Distances for ML-1 through ML-4 based on an Acoustical Center (AC) as agreed upon with Sargent & Lundy (Kevin McKanna); and distance for ML-5 based on the AC at the Cooling Tower.

(C) L_A Correction equation for distance:

Distance from Acoustical Center to Original Measurement Position) + $20 \times log_{10}$ (Distance from Acoustical Center to Line of Site Position /

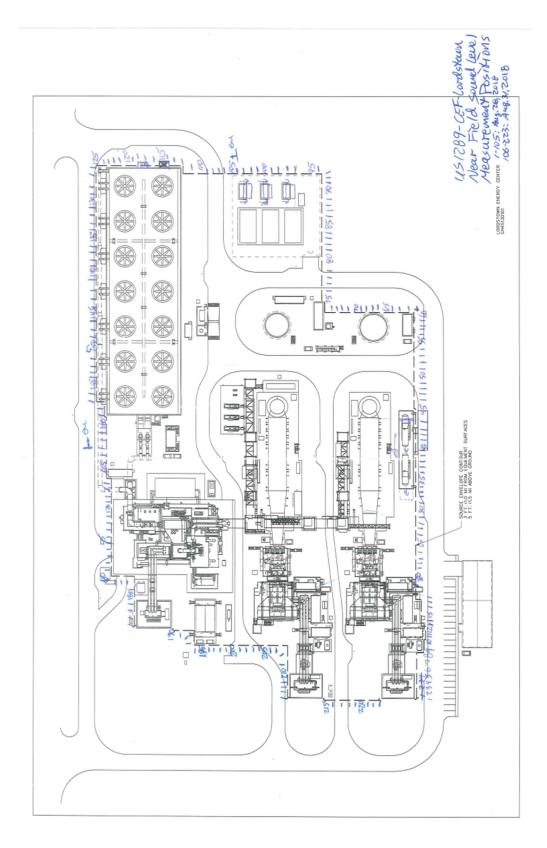
Measurement at Line of Site Position, dB(A)

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APPENDIX B MEASUREMENT LOCATIONS

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Original Far Field Position Coordinate Conversions and Distances to Acoustical Center US1289 - CEF-Lordstown

Position	Latitude (A)		Longitude (A) Northing (m) (B)	Easting (m) ^(B)	Distance (C)
ML-1	41.14027778		4554350.81	512074.48	3,379
ML-2	41.15638889	-080.85750000	4556134.91	511950.86	3,221
ML-3	41.14277778	-080.8494444	4554616.52	512640.67	2,270
ML-4	41.14861111	-080.84055556	4555270.91	513388.66	3,010
ML-5	41.16333333	-080.84861111	4556912.73	512708.59	5,333
AC (D)	41.14888889	41.14888889 -080.85138889	4555296	512470.2	-

(A) Per Contract Attachment T, Table, 07-3, and ATP Rev. 002, Sec. 5.2.2.2
 (B) Converted from Lat/Long in decimal format with the 'GPS Coordinate Converter' app (Aviation Mobile Apps, LLC, © 2016)
 (C) Distance in feet from Acoustical Center as determined by the 'GPS Coordinate Converter' app (Aviation Mobile Apps, LLC, © 2016)
 (D) "AC" = site 'Acoustical Center' as agreed to with Kevin McKanna, Sargent & Lundy

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Line of Site Far Field Position Coordinate Conversions and Distances to Acoustical Center US1289 - CEF-Lordstown

Position	Latitude ^(A)	Longitude (A)	Northing (m) (B)	Easting (m) ^(B)	Distance ^(C)
ML-1	41.14666667	-080.85361111	4555049	512284.2	1,003
ML-2	41.14997223	-080.85611111	4555415.5	512073.8	1,373
ML-3	41.14694444	-080.85055555	4555080.3	512540.5	739
ML-4	41.14944444	-080.84888889	4555358	512679.9	739
ML-5	41.15000000	-080.85000000	4555419.5	512586.6	581
AC (D)	41.14888889	-080.85138889	4555296	512470.2	ı

(A) As determined while taking far field measurements within Line of Site (LOS) of the plant on Aug. 28, 2018
(B) Converted from Lat/Long in decimal format with the 'GPS Coordinate Converter' app (Aviation Mobile Apps, LLC, © 2016)
(C) Distance in feet from Acoustical Center as determined by the 'GPS Coordinate Converter' app (Aviation Mobile Apps, LLC, © 2016)
(D) "AC" = site 'Acoustical Center' as agreed to with Kevin McKanna, Sargent & Lundy

- Distance from ML-5 (LOS) to Cooling Tower: ~ 210 feet - Determine distance from ML-5 (OP) to Cooling Tower:

- New distance from ML-5 (OP) to new A.C. (Cooling Tower) is:

4,962 feet 5,333 - 371 =

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APPENDIX C TEST EQUIPMENT SUMMARY AND CALIBRATION CERTIFICATES

Make	Model	Serial Number	Equipment Description	Calibration Due
Norsonic	Nor 140	1403049	Precision Sound Analyzer	March 15, 2019
Norsonic	Type 1209	12550	Preamplifier (A)	March 15, 2019
Norsonic	Type 1225	79610	Microphone	March 15, 2019
Norsonic	Type 1251	31729	Sound Calibrator	March 15, 2019

(A) Calibrated as part of microphone assembly

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Certificate of Calibration

for

PRECISION SOUND ANLAYSER

Manufactured by: NORSONIC
Model No: NOR140
Serial No: 1403049
Calibration Recall No: 28633

Submitted By:

Customer: CORY NICKCHEN

Company: SIEMENS ENERGY, INC. Address: 4400 N. ALAFAYA TRAIL

ORLANDO FL 32826-239

The subject instrument was calibrated to the indicated specification using standards traceable to the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. NOR140 NORS

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration. The information supplied relates to the calibrated item listed above.

West Caldwell Calibration Laboratories' calibration control system meets the requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2008 and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

FC

Calibration Date:

QA Doc. #1051 Rev. 2.0 10/1/01

16-Mar-18

Felix Christopher (QA Mgr.)

Certificate No:

28633 - 1

Certificate Page 1 of 1

ISO/IEC 17025:2005



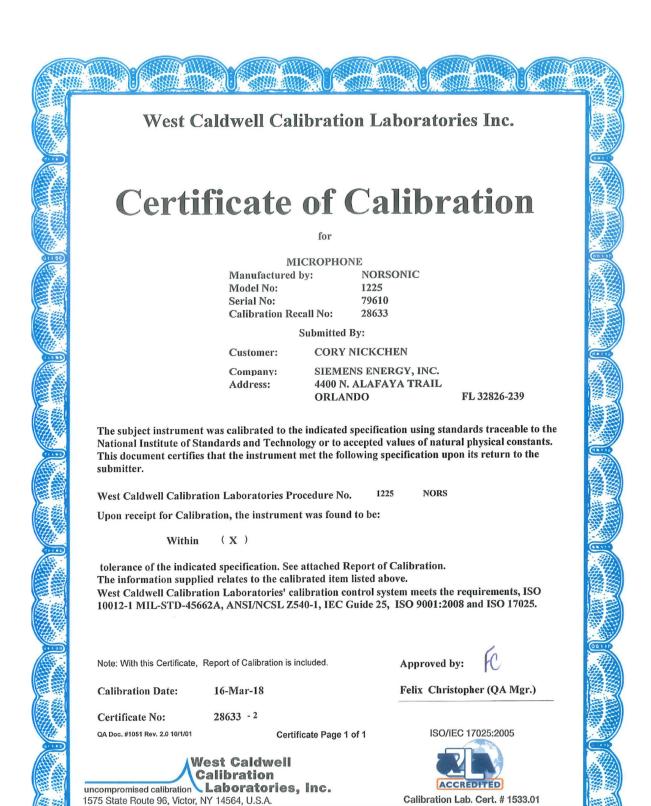
Calibration
Uncompromised calibration Laboratories, Inc.

West Caldwell

1575 State Route 96, Victor, NY 14564, U.S.A.

Calibration Lab. Cert. # 1533.01

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Certificate of Calibration

SOUND LEVEL CALIBRATOR

Manufactured by: **NORSONIC** 1251

Model No: Serial No: 31729 Calibration Recall No: 28633

Submitted By:

CORY NICKCHEN Customer:

SIEMENS ENERGY, INC. Company: 4400 N. ALAFAYA TRAIL Address:

> **ORLANDO** FL 32826-239

The subject instrument was calibrated to the indicated specification using standards traceable to the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

NORS West Caldwell Calibration Laboratories Procedure No.

Upon receipt for Calibration, the instrument was found to be:

Outside (X)

tolerance of the indicated specification. See attached Report of Calibration. The information supplied relates to the calibrated item listed above. West Caldwell Calibration Laboratories' calibration control system meets the requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2008 and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

16-Mar-18 Calibration Date:

Felix Christopher (QA Mgr.)

28633 - 4 Certificate No:

QA Doc. #1051 Rev. 2.0 10/1/01 Certificate Page 1 of 1

West Caldwell

ISO/IEC 17025:2005

Calibration Lab. Cert. # 1533.01

Calibration Laboratories, Inc. uncompromised calibration

1575 State Route 96, Victor, NY 14564, U.S.A.

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BEFORE THE OHIO POWER SITING BOARD

Certificate of Environmental Compatibility and Public)	Case Nos. 14-2322-EL-BGN, 16-0131-EL-BGA,
Need for the Lordstown Energy Center)	16-0494-EL-BGA, and 17-1485-EL-BGA
)	
)	
)	

DECLARATION OF BOB HUGHEY

I, Robert B. Hughey, do declare under penalty of perjury pursuant to 28 U.S.C. § 1746 as follows:

I, as the Operations Director at Lordstown Energy Center ("LEC"), am an authorized representative of LEC and affirm that no operational/equipment changes or adjustments have occurred since the most recent noise survey was conducted that would have materially amplified noise levels coming from the plant in excess of those reported in the 2018 sound level survey report.

Executed on July 6, 2023.

Robert B. Hugh

This foregoing document was electronically filed with the Public Utilities Commission of Ohio Docketing Information System on

7/11/2023 12:04:03 PM

in

Case No(s). 14-2322-EL-BGN, 16-0131-EL-BGA, 16-0494-EL-BGA

Summary: Public Comment Response to Mr. Mark McGrail electronically filed by Mr. Matt Butler on behalf of Staff of OPSB.