Estrella Substation and Paso Robles Area Reinforcement Project
Baseline Community Noise Survey Report for
Templeton Substation Alternative
San Luis Obispo County, California

Prepared for

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Acronyms and Abbreviations

ANSI	American National Standards Institute
APN	Assessor's Parcel Number
CNEL	Community Noise Level
CPUC	California Public Utilities Commission
dB	decibel
dBA	A-weighted decibel
kHz	kilohertz
kV	kilovolt
L_{50}	dBA noise level that is exceeded 50% of the time
L_{90}	dBA noise level that is exceeded 90% of the time
L_{dn}	Day-Night Average Sound Level
L_{eq}	Equivalent Sound Level
L_{max}	Maximum Sound Level
L_{min}	Minimum Sound Level
NEET West	NextEra Energy Transmission West, LLC
PG&E	Pacific Gas and Electric Company
project	Estrella Substation and Paso Robles Area Reinforcement Project
SWCA	SWCA Environmental Consultants
USGS	U.S. Geological Survey

1 INTRODUCTION

Pacific Gas and Electric Company (PG&E) and NextEra Energy Transmission West, LLC (NEET West) propose to construct the Estrella Substation and Paso Robles Area Reinforcement Project (project) in the Paso Robles area of San Luis Obispo County, California. In May 2017, PG&E and NEET West jointly prepared and filed a Proponent's Environmental Assessment (PEA) with the California Public Utilities Commission (CPUC) for the project (SWCA 2017). The CPUC issued a series of PEA deficiency letters, in which Deficiency Letter No. 4, dated February 27, 2018, required that PG&E and NEET West evaluate additional alternatives to the proposed project. In response to the CPUC's Deficiency Letter No. 4, PG&E and NEET West are analyzing the Templeton Substation Alternative (substation alternative).

This Baseline Community Noise Survey was conducted from September 26 to October 1, 2018, to document the existing ambient acoustic environment in the area and provides a summary of the noise monitoring results for the area surrounding the Templeton Substation Alternative. This report briefly describes the area monitored and provides a map showing the location of the substation and location of the sound monitors, a description of the sound level meters used, a description of the metrics recorded, and a summary of sound level readings collected at the monitoring locations.

1.1 Alternative Location

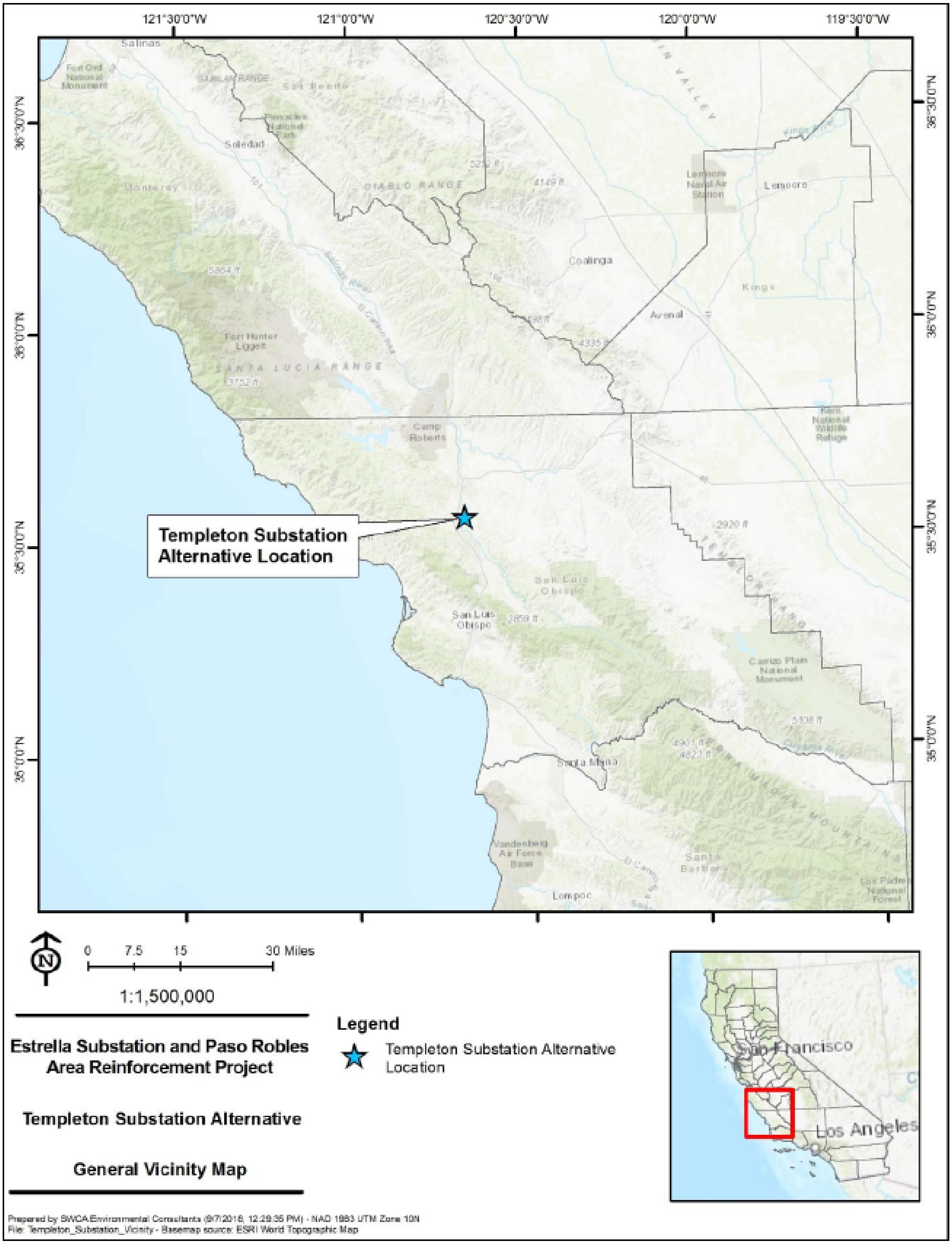
The substation alternative is located in an unincorporated portion of north-central San Luis Obispo County, approximately 1.5 miles northeast of the community of Templeton, and approximately 4 miles south of the city of Paso Robles (Figure 1). The substation alternative is located on the south side of El Pomar Drive, at and adjacent to the existing Templeton Substation. The study area encompasses an approximately 80-acre site on the following Assessor's Parcel Numbers (APNs): 033-231-004, 033-231-030, 034-011-004, 034-011-005, 033-201-015, 033-231-038, and 034-061-010.

The substation alternative is located in a landscape dominated by moderate to steep hills, grasslands, and forest and grape vineyards. The land use surrounding the site is rural or low-density residential, agriculture and viticulture. The area also includes a small-scale 1.5-megawatt distributed solar array (Vintner Solar) north of the existing substation.

1.2 Alternative Components

The substation alternative will be comprised of two separate and distinct substations. One 230-kilovolt (kV) substation will be constructed, operated, and owned by NEET West, and one 70 kV substation will be constructed, operated, and owned by PG&E. The 230 kV substation will be interconnected to the existing adjacent 230 kV transmission line.

Figure 1. General Vicinity Map



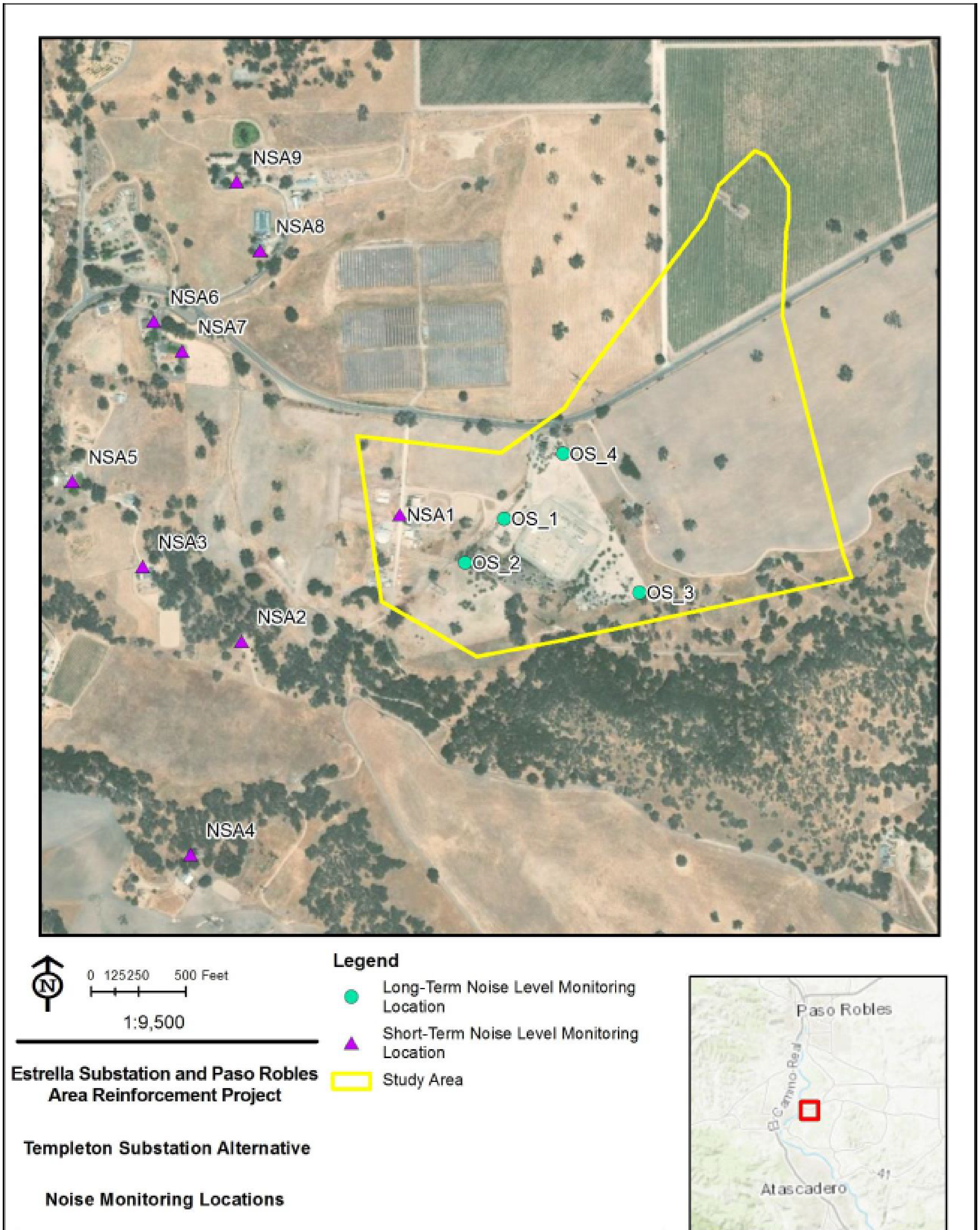
2 MEASUREMENT LOCATIONS

Four long-term and six short-term noise monitoring locations were selected to provide the existing ambient noise levels at and near the site (Figure 2). The specific placement of the sound level meters was mainly determined by environmental and logistical constraints, and the location of the closest noise-sensitive areas (NSAs) are presented on Figure 2. The long-term noise monitors (OS_1, OS_2, OS_3, and OS_5) were placed in the vicinity of the existing substation. Short-term noise monitors (NSA1, NSA3, NSA5, NSA6, NSA7, and NSA9) were placed at the closest NSAs. Microphones were placed 5 feet above ground for all measurements. Sites were selected to be representative of the land use in the vicinity of the proposed project. Photographs from the noise monitoring sites are shown in Appendix A. Monitoring locations are mapped on Figure 2 and described below and in Table 1.

- **Long-term monitoring location 1 (OS_1):** Located approximately 125 feet northwest of the substation security fence.
- **Long-term monitoring location 2 (OS_2):** Located approximately 265 feet west of the substation security fence.
- **Long-term monitoring location 3 (OS_3):** Located approximately 330 feet southeast of the substation security fence.
- **Long-term monitoring location 4 (OS_4):** Located approximately 265 feet north of the substation security fence.
- **Short-term monitoring location 1 (NSA1):** Residence identified as NSA 1, located approximately 635 feet west of the substation.
- **Short-term monitoring location 2 (NSA3):** Residence identified as NSA 3, located approximately 1,950 feet west of the substation.
- **Short-term monitoring location 3 (NSA5):** Residence identified as NSA 5, located approximately 2,360 feet west of the substation.
- **Short-term monitoring location 4 (NSA6):** Residence identified as NSA 6, located approximately 2,216 feet northwest of the substation.
- **Short-term monitoring location 5 (NSA7):** Residence identified as NSA 7, located approximately 2,113 feet northwest of the substation.
- **Short-term monitoring location 6 (NSA9):** Residence identified as NSA 9, located approximately 2,353 feet northwest of the substation.

It is important to note that sound levels at residences identified as NSA 2, NSA 4, and NSA 8 in Figure 2 were not collected due to logistical constraints. Monitoring locations are mapped on Figure 2 and described below and in Table 1. Photographs of the noise monitoring sites are shown in Appendix A.

Figure 2. Noise Monitoring Locations Map



Prepared by SWCA Environmental Consultants (11/13/2018, 5:31:23 PM) - NAD 1983 UTM Zone 10N
File: Templeton_Substation_Noise_Monitoring_Locations_Map - Basemap source: ESRI World Imagery

Table 1. Noise Monitoring Locations

Receptor	Receptor Location		Elevation	Dominant Background Noise Source
	Latitude	Longitude		
OS_1	35.555402°	-120.681287°	814 feet	Substation, transmission lines, traffic
OS_2	35.554778°	-120.681997°	806 feet	Substation, transmission lines, horses, rooster
OS_3	35.554284°	-120.678908°	811 feet	Substation, transmission lines, road traffic
OS_4	35.556330°	-120.680210°	831 feet	Substation, transmission lines, road traffic
NSA1	35.555495°	-120.683139°	808 feet	Road traffic, horses
NSA3	35.554613°	-120.687715°	845 feet	Traffic, wind
NSA5	35.556080°	-120.688986°	823 feet	Wind
NSA6	35.558346°	-120.687571°	753 feet	Road traffic
NSA7	35.557838°	-120.687105°	757 feet	Road traffic
NSA9	35.560392°	-120.685893°	827 feet	Road traffic, chickens, dog

3 INSTRUMENT DESCRIPTION

Noise measurements were collected using four Larson Davis Precision Integrating Sound Level Meters Model 831, meeting the requirements of the American National Standards Institute (ANSI); four PCB PRM831 preamplifier; and four PCB 377B02 0.5-inch free-field microphones, as described in Table 2. Microphones where fitted with an environmental windscreen and bird spikes, set upon a tripod at a height of 5 feet above ground, and located as far from the influence of vertical reflective sources as possible. All cables were secured to prevent any sounds do to wiring hitting other objects. All clocks associated with the sound measurement were synchronized using the Larson Davis G4 LD Utility software.

Table 2. Instrumentation

Monitoring Location	Sound Level Meter	Preamplifier	Free-Field Microphone
OS_1	Larson Davis 831 (S/N) 3174	PRM831 (S/N) 51306	377B02 (S/N) 177014
OS_2, NSA1, NSA3, NSA5, NSA6, NSA7, NSA9	Larson Davis 831 (S/N) 3330	PRM831 (S/N) 23950	377B02 (S/N) 306236
OS_3	Larson Davis 831 (S/N) 3558	PRM831 (S/N) 19136	377B02 (S/N) 305910
OS_4	Larson Davis 831 (S/N) 3559	PRM831 (S/N) 29390	377B02 (S/N) 305891

3.1 Calibration Checks

The sound level meters were calibrated at the beginning and end of the measurement period using a Larson Davis Model CAL200 Precision Acoustic Calibrator. The Larson Davis CAL200 emits a 1-kilohertz (kHz) tone at 114 decibels (dB) against which the response can be checked. The calibrator has been designed for both field and laboratory use and the accuracy has been calibrated to a reference traceable to the National Institute of Standards and Technology (NIST). Instrument calibration certificates for the 831 sound level meters, the microphone, and the Larson Davis CAL200 calibrator are included in Appendix B. As recommended by Larson Davis, when using a free-field microphone, the pressure level at the microphone diaphragm will be slightly different. Thus, a free field correction of -0.12 dB was applied to the 114.0 dB tone. Additionally, a correction of 0.009 dB was applied to the tone as the calibration sheet for the CAL200 indicates 114.09 dB for its level when set to 114. Thus, the calibration level was set to 113.97 dB. All four LD 831s showed a response of less than the normal error of 0.50 dB. The results for the calibrations are shown in Table 3.

Table 3. Pre- and Post-Instrument Response Checks

Instrument Setup	Test	Sound Level	Response	Error
OS_1	Pre-Test (9-26-2018)	114 dB (113.97 dB)	113.97 dB	0.00 dB
	Post-Test (8-1-2018)	114 dB (113.97 dB)	114.06 dB	0.09 dB
OS_2	Pre-Test (9-26-2018)	114 dB (113.97 dB)	113.97 dB	0.00 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	113.92 dB	-0.05 dB
OS_3	Pre-Test (9-26-2018)	114 dB (113.97 dB)	114.03 dB	0.06 dB
	Post-Test (8-1-2018)	114 dB (113.97 dB)	114.09 dB	0.12 dB
OS_4	Pre-Test (9-26-2018)	114 dB (113.97 dB)	114.16 dB	0.19 dB
	Post-Test (8-1-2018)	114 dB (113.97 dB)	114.10 dB	0.13 dB
NSA1	Pre-Test (9-30-2018)	114 dB (113.97 dB)	114.00 dB	0.03 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	113.97 dB	0.00 dB
NSA3	Pre-Test (9-30-2018)	114 dB (113.97 dB)	114.03 dB	0.06 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	113.98 dB	0.01 dB
NSA5	Pre-Test (9-30-2018)	114 dB (113.97 dB)	113.97 dB	0.00 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	114.02 dB	0.05 dB
NSA6	Pre-Test (9-30-2018)	114 dB (113.97 dB)	114.03 dB	0.06 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	113.97 dB	0.00 dB
NSA7	Pre-Test (9-30-2018)	114 dB (113.97 dB)	114.03 dB	0.06 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	113.99 dB	0.02 dB
NSA9	Pre-Test (9-30-2018)	114 dB (113.97 dB)	114.00 dB	0.03 dB
	Post-Test (9-30-2018)	114 dB (113.97 dB)	113.97 dB	0.00 dB

[1] Calibration error indicates the difference between the values measured by the instrument and the tone emitted by the acoustic calibrator.

4 NOISE DESCRIPTORS

A number of different descriptors of time-averaged noise levels are used to account for fluctuations of noise intensity over time. The noise descriptors calculated by the sound meters and used in this report to describe environmental noise are defined below.

- A-weighted Sound Level describes a receiver's noise at any moment in time. A-weighting is an internationally standardized frequency weighting used to account for the relative loudness as perceived by the human ear at different frequencies.
- Maximum Sound Level (L_{max}) describes the highest noise level occurring during a single noise event.
- Minimum Sound Level (L_{min}) describes the lowest noise level occurring during a single noise event.
- The Equivalent Sound Level (L_{eq}) describes the average noise exposure from all events over a specified period of time.
- One-hour Equivalent Sound Level (1-hour L_{eq}) corresponds to the average noise exposure from all noise events over a 1-hour period.
- The Day-Night Average Sound Level (L_{DN}) describes the cumulative noise exposure from all events over a full 24 hours, with events between 10:00 p.m. and 7:00 a.m. increased by 10 dB to account for greater nighttime sensitivity to noise.
- Daytime Sound Level (Ld) is defined as the equivalent sound level for a 15-hour period between 7:00 a.m. (07:00) and 10:00 p.m. (22:00).
- Nighttime Sound Level (Ln) is defined as the equivalent sound level for a 9-hour period between 10:00 p.m. (22:00) and 7:00 a.m. (07:00).
- Community Noise Level (CNEL) is similar to L_{DN}, but with a 5 A-weighted decibel (dBA) penalty added to evening noise (7:00 p.m. [19:00] to 10:00 p.m. [22:00]) and a 10 dBA penalty to nighttime noise (10:00 p.m. [22:00] to 7:00 a.m. [7:00]).
- L_{50} represents the noise level in dBA that is exceeded 50% of the time during the measurement period.
- L_{90} represents the sound level exceeded 90% of the time during the measurement period.

5 METEOROLOGICAL DATA

Noise data was validated against weather data from the Paso Robles Municipal Airport weather substation (KPRB) located 9.0 miles northeast of Templeton, California, and approximately 8.2 miles northeast of the substation alternative. Weather information is presented in Appendix C. Survey weather conditions are shown in Table 4.

Table 4. Weather Conditions: September 26–October 1, 2018

Weather Station	Monitoring Start	Monitoring End	Wind Speed (mph)		Temperature (°F)*		Humidity (% relative)	
			Range	Average	Range	Average	Range	Average
Paso Robles Municipal Airport (KPRB)	9/26/2018 10:00 a.m.	8/1/2018 10:00 a.m.	0.0–19.6	7.5	28.9–54.0	47.4	9–97	60.0

* °F – degrees Fahrenheit

ASTM International E1014-12 specifies that data should not be used when steady wind speeds exceed 20 kilometers per hour (12.4 miles per hour). A total of 18 hourly sound level data points were removed from the data set, as they presented hourly high steady winds over 12.4 mph. Hourly wind speeds over 20 kilometers per hour are highlighted in Appendix C.

6 READINGS

Long-term noise monitoring was conducted from September 26 to October 1, 2018. Data was collected for approximately 119 hours, and sound levels were recorded over each 15-minute and 1-hour interval.

Short-term monitoring was conducted at six NSAs. Start and stop times for the six short-term monitoring sites are presented in Table 5 of Section 7, Results. Short-term sound levels were recorded for a single 15-minute interval. Start and stop times for the four sound level meters are presented in Table 5 of the Section 7, Results.

The sound level meters were programmed to sample and store A-weighted sound level data including Leq, percentile levels, and community sound parameters. The following gives brief description of the methodology used for the sound data collection.

- A-weighted sound level was selected.
- Sound meter was set on "slow" response.
- Sound events over 50 dB were counted and logged.
- During noise measurements, any dominant background noise source was noted.
- Weather conditions were observed and documented.

After the initial deployment, each sound meter was visited two times per day. Field logs were completed during each visit, and are provided in Appendix D.

7 RESULTS

Data collection began on September 26, 2018, and continued through October 1, 2018. Summary data for this period of time is presented in Table 5. Table 5 presents the measured A-weighted L_{eq}, L_{DN}, CNEL, L_{min}, L_{max}, L_{50}, and L_{90} for each monitoring location. Hourly and 15-minute data is presented in Appendix C.

Table 5. Summary of Ambient Sound Measurements

Monitoring Location	Monitoring Start	Monitoring End	Elapsed Time	Measured Noise Levels						
				L_{eq}[1]	L_{DN}[2]	CNEL (b)	L_{min}	L_{max}	L_{50}	L_{90}
OS_1	9/26/2018 10:31 a.m.	10/1/2018 9:47 a.m.	119:19	43.8	49.6	50.0	38.2	73.8	42.7	41.4
OS_2	9/26/2018 10:40 a.m.	9/30/2018 9:16 a.m.	94:35	43.8	50.4	50.8	34.0	69.5	42.5	38.8
OS_3	9/26/2018 10:56 a.m.	10/1/2018 10:00 a.m.	119:04	44.2	50.5	50.9	32.9	75.1	42.9	40.2
OS_4	9/26/2018 11:04 a.m.	10/1/20188 9:55 a.m.	118:50	47.5	52.0	52.3	38.7	92.1	43.6	42.1
NSA1	9/30/2018 1:30 p.m.	9/30/2018 1:47 p.m.	00:17	48.1	54.5	54.8	36.2	69.8	42.2	39.7
NSA3	9/30/2018 11:10 a.m.	9/30/2018 11:25 a.m.	00:15	46.3	52.7	53.0	37.0	56.7	44.4	39.9
NSA5	9/30/2018 10:40 a.m.	9/30/2018 10:59 a.m.	00:19	38.0	44.4	44.7	33.2	49.8	36.6	34.6
NSA6	9/30/2018 12:00 p.m.	9/30/2018 12:15 p.m.	00:15	50.4	56.8	57.1	31.3	67.1	42.6	34.3
NSA7	9/30/2018 12:20 p.m.	9/30/2018 12:35 p.m.	00:15	47.8	54.2	54.5	29.3	66.3	42.8	32.1
NSA9	9/30/2018 12:45 p.m.	9/30/2018 1:05 p.m.	00:19	48.2	54.6	54.9	32.7	71.3	41.0	35.9

[1] Data derived from the average 1-hour or 1-minute L_{eq} calculated by logarithmic averaging the number of noise measurements taken at each specific hour.
[2] L_{dn} and CNEL values were calculated assuming a continuous noise L_{eq} based on the individual short-term measurements.

A combination of four long-term and six short-term noise measurements were taken at the substation and at the closest noise-sensitive receivers. The ambient noise level measurement locations were selected to be representative of the noise environment most likely to be impacted. Measurements were completed at the substation for long-term measurements. Short-term measurements were completed at residential sites.

Observed noise sources that contributed to the existing sound level at the project location included road traffic, birds, horses, transmission lines, and the existing Templeton Substation. Day and times of the occurrences of these generating sound activities are presented in the field logs in Appendix D. No data was excluded from the results due to interference as all the major noise-contributing sources were found representative of the ambient sound that is to be documented.

Noise levels were measured at the noise-sensitive land uses throughout the area, as indicated in Table 5, and the measured noise levels ranged from 44.4 dBA L_{DN}, in one of the quieter areas away from busy roadways (i.e., NSA5), to 56.8 dBA L_{DN}, along El Pomar Drive (i.e., NSA6). This site was dominated by road traffic noise. The noise levels measured at the substation ranged from 49.6 to 52.0 dBA L_{DN}.

8 LIST OF PREPARERS

- Carlos Ituarte, Ph.D.
- Brad Sohm, P.E.
- Erika Carrillo, M.S., Project Manager

9 REFERENCES

SWCA Environmental Consultants (SWCA). 2017. *Proponent's Environmental Assessment: Estrella Substation and Paso Robles Area Reinforcement Project*. Prepared by SWCA for NextEra Energy Transmission West, LLC and Pacific Gas and Electric Company. May 2017.

Appendix A.
Monitoring Site Photographs

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Figure A1. Long-term monitoring site OS_1.

Figure A2. Long-term monitoring site OS_2.

Figure A3. Long-term monitoring site OS_3.

Figure A4. Long-term monitoring site OS_4.

Figure A5. Short-term monitoring site NSA1.

Figure A6. Short-term monitoring site NSA3.

Figure A7. Short-term monitoring site NSA5.

Figure A8. Short-term monitoring site NSA6.

Figure A9. Short-term monitoring site NSA7.

Figure A10. Short-term monitoring site NSA9.

Appendix B.
Equipment Calibration Certificates

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Certificate of Calibration and Conformance

This document certifies that the instrument referenced below meets published specifications per Procedure PRD-P263; ANSI S1.4-1983 (R 2006) Type 1; S1.4A-1985; S1.43-1997 Type 1; S1.11-2004 Octave Band Class 0; S1.25-1991; IEC 61672-2002 Class 1; 60651-2001 Type 1; 60804-2000 Type 1; 61260-2001 Class 0; 61252-2002.

Manufacturer:	Larson Davis	Temperature:	75.2	°F
Model Number:	831		24.00	°C
Serial Number:	3330	Rel. Humidity:	20.9	%
Customer:	TMS Rental	Pressure:	1001.2	mbars
Description:	Sound Level Meter		1001.2	hPa

Note: As Found/As Left: In Tolerance

Upon receipt for testing, this instrument was found to be:

Within the stated tolerance of the manufacturer's specification.

Calibration Date: 2/5/2018 Calibration Due:

Calibration Standards Used:

Manufacturer	Model	Serial Number	Cal Due
Stanford Research Systems	DS360	123270	4/25/2018

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at The Modal Shop and/or Larson Davis Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. Calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of The Modal Shop.

Technician: Adam Magee Signature:

THE MODAL SHOP
A PCB GROUP CO.

3149 East Kemper Road
Cincinnati, OH. 45241
Phone: (513) 351-9919
(800) 860-4867
www.modalshop.com

~Calibration Certificate~

3149 East Kemper Rd.
Cincinnati, OH 45241
Ph : 513-351-9919
Fax: 513-458-2172
www.modalshop.com

Manufacturer:	Larson Davis	Asset ID:	51523
Model:	CAL200	Calibration Date:	Oct 11, 2017 15:18:25
Serial Number:	11082	Due Date:	
Description:	Acoustic Calibrator	Technician:	Bradly Haarmeyer
Customer:	TMS Rental	Approval:	

Calibration Results:		Temperature:	23 °C (73 °F)
Measured SPL : 94.12 dB re. 20µPa		Humidity:	46.80%
Measured Frequency : 1,000.00 Hz		Pressure:	996.3 mbar

Upon receipt for calibration, the instrument was found to be:
WITHIN the stated tolerance of the manufacturer's specification.

Note: **As Found / As Left: In Tolerance**

Measurement uncertainty at 95% confidence level: 0.30 dB

The subject instrument was calibrated to the indicated specification using standards stated below or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the customer.

This calibration is traceable through : A1633

Notes:
The calibration was performed under operating procedures intended to implement the requirements of ISO 9001, ISO 17025 and ANSI Z540. Unless otherwise noted, the reported value is both "as found" and "as left" data. Calibration results relate only to the items calibrated. This certificate may not be reproduced, except in full, without written permission.

Reference Equipment Used:

Manuf.	*Model*	*Serial*	*Cal. Date*	*Due Date*
GRAS	40AG	9542	2/16/2017	2/16/2018

~Calibration Certificate~

3149 East Kemper Rd.
Cincinnati, OH 45241
Ph : 513-351-9919
Fax: 513-458-2172
www.modalshop.com

Manufacturer:	Larson Davis	Asset ID:	51523
Model:	CAL200	Calibration Date:	Oct 11, 2017 15:14:34
Serial Number:	11082	Due Date:	
Description:	Acoustic Calibrator	Technician:	Bradly Haarmeyer
Customer:	TMS Rental	Approval:	

Calibration Results:		Temperature:	23 °C (73 °F)
Measured SPL : 114.09 dB re. 20µPa		Humidity:	46.80%
Measured Frequency : 1,000.00 Hz		Pressure:	996.3 mbar

Upon receipt for calibration, the instrument was found to be:
WITHIN the stated tolerance of the manufacturer's specification.

Note: **As Found / As Left: In Tolerance**

Measurement uncertainty at 95% confidence level: 0.30 dB

The subject instrument was calibrated to the indicated specification using standards stated below or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the customer.

This calibration is traceable through : A1633

Notes:
The calibration was performed under operating procedures intended to implement the requirements of ISO 9001, ISO 17025 and ANSI Z540. Unless otherwise noted, the reported value is both "as found" and "as left" data. Calibration results relate only to the items calibrated. This certificate may not be reproduced, except in full, without written permission.

Reference Equipment Used:

Manuf.	*Model*	*Serial*	*Cal. Date*	*Due Date*
GRAS	40AG	9542	2/16/2017	2/16/2018

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Manufacturer:	Larson Davis	Temperature:	74.8	°F
Model Number:	831		23.78	°C
Serial Number:	3558	Rel. Humidity:	30.2	%
Customer:	TMS Rental	Pressure:	990.8	mbars
Description:	Sound Level Meter		990.8	hPa

Note: As Found/As Left: In Tolerance

Upon receipt for testing, this instrument was found to be:

Within the stated tolerance of the manufacturer's specification.

Calibration Date: 4/11/2018 Calibration Due:

Calibration Standards Used:

Manufacturer	Model	Serial Number	Cal Due
Stanford Research Systems	DS360	123270	4/25/2018

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at The Modal Shop and/or Larson Davis Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. Calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of The Modal Shop.

Technician: Adam Magee Signature: Adam Magee

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Certificate of Calibration and Conformance

This document certifies that the instrument referenced below meets published specifications per Procedure PRD-P263; ANSI S1.4-1983 (R 2006) Type 1; S1.4A-1985; S1.43-1997 Type 1; S1.11-2004 Octave Band Class 0; S1.25-1991; IEC 61672-2002 Class 1; 60651-2001 Type 1; 60804-2000 Type 1; 61260-2001 Class 0; 61252-2002.

Manufacturer:	Larson Davis	Temperature:	75.5	°F
Model Number:	831		24.17	°C
Serial Number:	3559	Rel. Humidity:	21.7	%
Customer:	TMS Rental	Pressure:	1009.7	mbars
Description:	Sound Level Meter		1009.7	hPa

Note: As Found/As Left: In Tolerance

Upon receipt for testing, this instrument was found to be:

Within the stated tolerance of the manufacturer's specification.

Calibration Date: 2/13/2018 Calibration Due:

Calibration Standards Used:

Manufacturer	Model	Serial Number	Cal Due
Stanford Research Systems	DS360	123270	4/25/2018

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at The Modal Shop and/or Larson Davis Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. Calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of The Modal Shop.

Technician: Adam Magee Signature: Adam Magee

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Certificate of Calibration and Conformance

This document certifies that the instrument referenced below meets published specifications per Procedure PRD-P263; ANSI S1.4-1983 (R 2006) Type 1; S1.4A-1985; S1.43-1997 Type 1; S1.11-2004 Octave Band Class 0; S1.25-1991; IEC 61672-2002 Class 1; 60651-2001 Type 1; 60804-2000 Type 1; 61260-2001 Class 0; 61252-2002.

Manufacturer:	Larson Davis	Temperature:	79.6	°F
Model Number:	831		26.44	°C
Serial Number:	3174	Rel. Humidity:	44.1	%
Customer:	TMS Rental	Pressure:	997.8	mbars
Description:	Sound Level Meter		997.8	hPa

Note: As Found/As Left: In Tolerance

Upon receipt for testing, this instrument was found to be:

Within the stated tolerance of the manufacturer's specification.

Calibration Date: 6/8/2018 Calibration Due:

Calibration Standards Used:

Manufacturer	Model	Serial Number	Cal Due
Stanford Research Systems	DS360	123270	5/7/2019

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at The Modal Shop and/or Larson Davis Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. Calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of The Modal Shop.

Technician: Adam Magee Signature: Adam Magee

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~ *Certificate of Calibration and Compliance* ~

Microphone Model: 377B02 Serial Number: 177014 Manufacturer: PCB

Calibration Environmental Conditions

Environmental test conditions as printed on microphone calibration chart.

Reference Equipment

Manufacturer	Model #	Serial #	PCB Control #	Cal Date	Due Date
National Instruments	PCIe-6351	1896F08	CA1918	10/20/17	10/19/18
Larson Davis	PRM915	134	CA2114	11/30/17	11/30/18
Larson Davis	PRM902	5352	CA1247	4/12/18	4/12/19
Larson Davis	PRM916	130	CA1161	9/13/17	9/13/18
Larson Davis	CAL250	5109	CA1496	10/19/17	10/19/18
Larson Davis	2201	115	TA472	4/12/18	4/12/19
Bruel & Kjaer	4192	2954556	CA2323	9/15/17	9/14/18
Larson Davis	GPRM902	3999	CA1090	9/20/17	9/20/18
Newport	iTHX-SD/N	1080002	CA1511	2/9/18	2/8/19
Larson Davis	PRA951-4	222	LD026	12/19/17	12/19/18
Larson Davis	PRM915	147	CA2179	6/6/17	6/6/18
PCB	68510-02	N/A	CA2672	12/27/17	12/27/18
0	0	0	0	not required	not required
0	0	0	0	not required	not required
0	0	0	0	not required	not required

Frequency sweep performed with B&K UA0033 electrostatic actuator.

Condition of Unit

As Found: n/a

As Left: New Unit, In Tolerance

Notes

1. Calibration of reference equipment is traceable to one or more of the following National Labs; NIST, PTB or DFM.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 10012-1, ANSI/NCSL Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Open Circuit Sensitivity is measured using the insertion voltage method following procedure AT603-5.
6. Measurement uncertainty (95% confidence level with coverage factor of 2) for sensitivity is +/-0.20 dB.
7. Unit calibrated per ACS-20.

Technician: Leonard Lukasik Date: May 15, 2018

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ID:CAL112-3609241031.918+0

~ Calibration Report ~

Microphone Model: 377B02 | Serial Number: 177014 | Description: 1/2" Free-Field Microphone

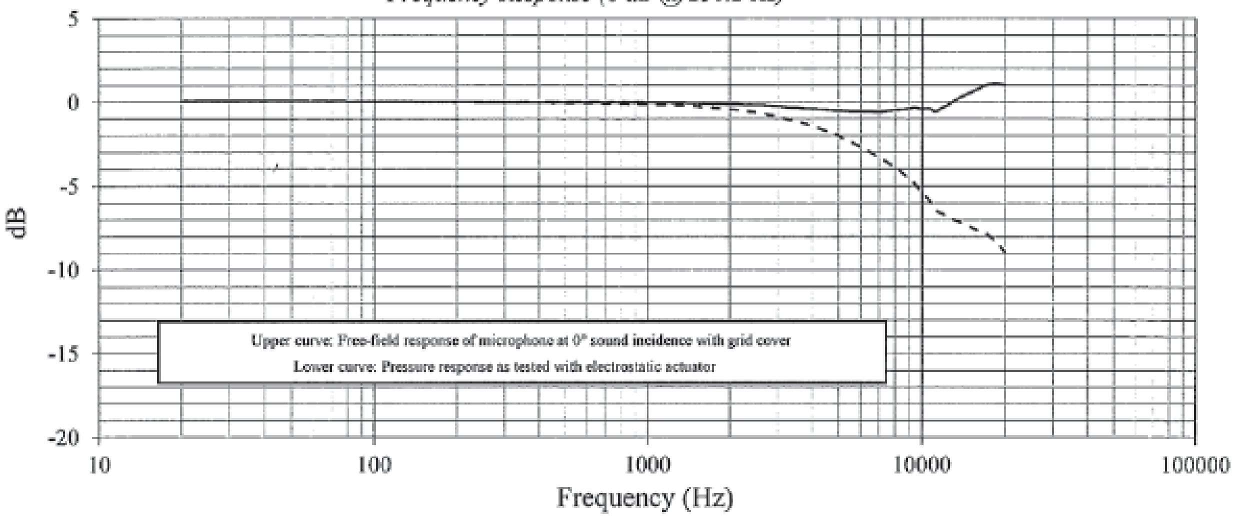
Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 50.84 mV/Pa
-25.88 dB re 1V/Pa

Polarization Voltage, External: 0 V
Capacitance: 15.6 pF

Temperature: 71 °F (21°C) | Ambient Pressure: 985 mbar | Relative Humidity: 41 %

Frequency Response (0 dB @ 251.2 Hz)



Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)
20.0	0.04	0.04	1679	-0.34	-0.11	7499	-3.62	-0.55	-	-	-
25.1	0.06	0.06	1778	-0.38	-0.13	7943	-3.87	-0.48	-	-	-
31.6	0.06	0.06	1884	-0.40	-0.12	8414	-4.20	-0.47	-	-	-
39.8	0.07	0.07	1995	-0.45	-0.14	8913	-4.53	-0.42	-	-	-
50.1	0.05	0.05	2114	-0.47	-0.13	9441	-4.87	-0.35	-	-	-
63.1	0.05	0.05	2239	-0.54	-0.17	10000	-5.39	-0.44	-	-	-
79.4	0.04	0.04	2371	-0.58	-0.17	10593	-5.80	-0.40	-	-	-
100.0	0.03	0.03	2512	-0.64	-0.18	11220	-6.42	-0.56	-	-	-
125.9	0.03	0.03	2661	-0.70	-0.19	11885	-6.65	-0.33	-	-	-
158.5	0.01	0.01	2818	-0.79	-0.23	12589	-6.89	-0.12	-	-	-
199.5	0.01	0.01	2985	-0.87	-0.25	13335	-7.06	0.14	-	-	-
251.2	0.00	0.00	3162	-0.98	-0.30	14125	-7.22	0.37	-	-	-
316.2	-0.02	-0.01	3350	-1.08	-0.34	14962	-7.42	0.55	-	-	-
398.1	-0.02	-0.02	3548	-1.18	-0.36	15849	-7.62	0.73	-	-	-
501.2	-0.05	-0.01	3758	-1.30	-0.40	16788	-7.77	0.95	-	-	-
631.0	-0.06	-0.02	3981	-1.42	-0.42	17783	-8.03	1.08	-	-	-
794.3	-0.10	-0.01	4217	-1.55	-0.44	18837	-8.41	1.10	-	-	-
1000.0	-0.14	-0.02	4467	-1.70	-0.47	19953	-8.93	1.01	-	-	-
1059.3	-0.16	-0.03	4732	-1.86	-0.49	-	-	-	-	-	-
1122.0	-0.18	-0.04	5012	-2.03	-0.50	-	-	-	-	-	-
1188.5	-0.17	-0.02	5309	-2.24	-0.54	-	-	-	-	-	-
1258.9	-0.21	-0.05	5623	-2.44	-0.56	-	-	-	-	-	-
1333.5	-0.22	-0.04	5957	-2.64	-0.57	-	-	-	-	-	-
1412.5	-0.26	-0.07	6310	-2.87	-0.58	-	-	-	-	-	-
1496.2	-0.26	-0.06	6683	-3.11	-0.59	-	-	-	-	-	-
1584.9	-0.30	-0.09	7080	-3.38	-0.60	-	-	-	-	-	-

Technician: Leonard Lukasik | Date: May 15, 2018

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~ Certificate of Calibration and Compliance ~

Microphone Model: 377B02 Serial Number: 306236 Manufacturer: PCB

Calibration Environmental Conditions

Environmental test conditions as printed on microphone calibration chart.

Reference Equipment

Manufacturer	Model #	Serial #	PCB Control #	Cal Date	Due Date
National Instruments	PCIe-6351	1896F08	CA1918	10/20/17	10/19/18
Larson Davis	PRM915	134	CA2114	11/30/17	11/30/18
Larson Davis	PRM902	5352	CA1247	4/12/18	4/12/19
Larson Davis	PRM916	130	CA1161	9/13/17	9/13/18
Larson Davis	CAL250	5109	CA1496	10/19/17	10/19/18
Larson Davis	2201	115	TA472	4/12/18	4/12/19
Bruel & Kjaer	4192	2764626	CA1636	8/7/17	8/7/18
Larson Davis	GPRM902	3999	CA1090	9/20/17	9/20/18
Newport	iTHX-SD/N	1080002	CA1511	2/9/18	2/8/19
Larson Davis	PRA951-4	222	LD026	12/19/17	12/19/18
Larson Davis	PRM915	135	CA1433	11/30/17	11/30/18
PCB	68510-02	N/A	CA2672	12/27/17	12/27/18
0	0	0	0	not required	not required
0	0	0	0	not required	not required
0	0	0	0	not required	not required

Frequency sweep performed with B&K UA0033 electrostatic actuator.

Condition of Unit

As Found: n/a

As Left: New Unit, In Tolerance

Notes

1. Calibration of reference equipment is traceable to one or more of the following National Labs; NIST, PTB or DFM.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 10012-1, ANSI/NCSL Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Open Circuit Sensitivity is measured using the insertion voltage method following procedure AT603-5.
6. Measurement uncertainty (95% confidence level with coverage factor of 2) for sensitivity is +/-0.20 dB.
7. Unit calibrated per ACS-20.

Technician: Leonard Lukasik Date: June 27, 2018

CALIBRATION CERT #1862.01

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ID:CAL112-3612952351.700+0

~ Calibration Report ~

Microphone Model: 377B02 Serial Number: 306236 Description: 1/2" Free-Field Microphone

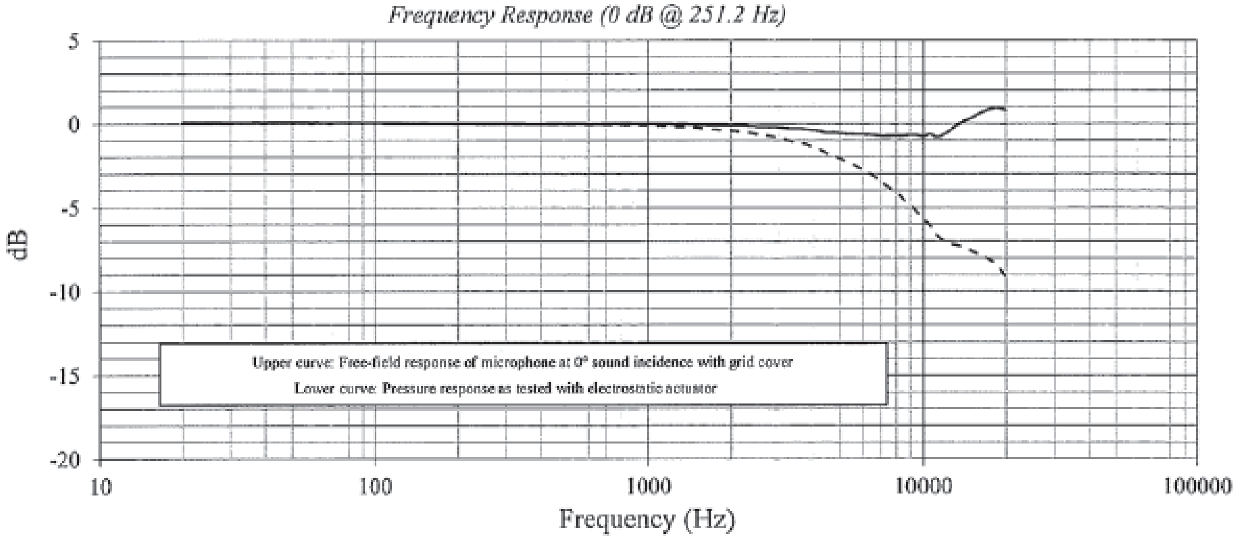
Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 52.07 mV/Pa
-25.67 dB re 1V/Pa

Polarization Voltage, External: 0 V
Capacitance: 14.8 pF

Temperature: 72 °F (22°C) Ambient Pressure: 986 mbar Relative Humidity: 44 %

Frequency Response (0 dB @ 251.2 Hz)



Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)
20.0	0.07	0.07	1679	-0.35	-0.12	7499	-3.81	-0.74	-	-	-
25.1	0.08	0.08	1778	-0.38	-0.13	7943	-4.10	-0.71	-	-	-
31.6	0.06	0.06	1884	-0.41	-0.13	8414	-4.47	-0.74	-	-	-
39.8	0.09	0.09	1995	-0.43	-0.12	8913	-4.79	-0.68	-	-	-
50.1	0.08	0.08	2114	-0.47	-0.13	9441	-5.20	-0.68	-	-	-
63.1	0.07	0.07	2239	-0.51	-0.14	10000	-5.71	-0.76	-	-	-
79.4	0.06	0.06	2371	-0.57	-0.16	10593	-6.03	-0.63	-	-	-
100.0	0.05	0.05	2512	-0.66	-0.20	11220	-6.67	-0.81	-	-	-
125.9	0.03	0.03	2661	-0.71	-0.20	11885	-6.97	-0.65	-	-	-
158.5	0.02	0.02	2818	-0.77	-0.21	12589	-7.16	-0.39	-	-	-
199.5	0.01	0.01	2985	-0.85	-0.23	13335	-7.26	-0.07	-	-	-
251.2	0.00	0.00	3162	-0.96	-0.28	14125	-7.43	0.17	-	-	-
316.2	-0.02	-0.01	3350	-1.06	-0.32	14962	-7.62	0.35	-	-	-
398.1	-0.03	-0.03	3548	-1.15	-0.33	15849	-7.78	0.57	-	-	-
501.2	-0.04	0.00	3758	-1.26	-0.36	16788	-7.96	0.76	-	-	-
631.0	-0.06	-0.02	3981	-1.40	-0.40	17783	-8.21	0.90	-	-	-
794.3	-0.09	0.00	4217	-1.56	-0.45	18837	-8.58	0.93	-	-	-
1000.0	-0.13	-0.01	4467	-1.79	-0.56	19953	-9.13	0.80	-	-	-
1059.3	-0.13	0.00	4732	-1.92	-0.55	-	-	-	-	-	-
1122.0	-0.15	-0.01	5012	-2.11	-0.58	-	-	-	-	-	-
1188.5	-0.17	-0.02	5309	-2.32	-0.62	-	-	-	-	-	-
1258.9	-0.20	-0.04	5623	-2.51	-0.63	-	-	-	-	-	-
1333.5	-0.19	-0.01	5957	-2.71	-0.64	-	-	-	-	-	-
1412.5	-0.23	-0.04	6310	-2.94	-0.65	-	-	-	-	-	-
1496.2	-0.24	-0.04	6683	-3.21	-0.69	-	-	-	-	-	-
1584.9	-0.31	-0.10	7080	-3.52	-0.74	-	-	-	-	-	-

Technician: Leonard Lukasik LL Date: June 27, 2018

CALIBRATION CERT #1862.01

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~ *Certificate of Calibration and Compliance* ~

Microphone Model: 377B02 Serial Number: 305910 Manufacturer: PCB

Calibration Environmental Conditions

Environmental test conditions as printed on microphone calibration chart.

Reference Equipment

Manufacturer	Model #	Serial #	PCB Control #	Cal Date	Due Date
National Instruments	PCIe-6351	1896F08	CA1918	10/20/17	10/19/18
Larson Davis	PRM915	134	CA2114	11/30/17	11/30/18
Larson Davis	PRM902	5352	CA1247	4/12/18	4/12/19
Larson Davis	PRM916	130	CA1161	9/13/17	9/13/18
Larson Davis	CAL250	5109	CA1496	10/19/17	10/19/18
Larson Davis	2201	115	TA472	4/12/18	4/12/19
Bruel & Kjaer	4192	2764626	CA1636	8/7/17	8/7/18
Larson Davis	GPRM902	3999	CA1090	9/20/17	9/20/18
Newport	iTHX-SD/N	1080002	CA1511	2/9/18	2/8/19
Larson Davis	PRA951-4	222	LD026	12/19/17	12/19/18
Larson Davis	PRM915	135	CA1433	11/30/17	11/30/18
PCB	68510-02	N/A	CA2672	12/27/17	12/27/18
0	0	0	0	not required	not required
0	0	0	0	not required	not required
0	0	0	0	not required	not required

Frequency sweep performed with B&K UA0033 electrostatic actuator.

Condition of Unit

As Found: n/a

As Left: New Unit, In Tolerance

Notes

1. Calibration of reference equipment is traceable to one or more of the following National Labs; NIST, PTB or DFM.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 10012-1, ANSI/NCSL Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Open Circuit Sensitivity is measured using the insertion voltage method following procedure AT603-5.
6. Measurement uncertainty (95% confidence level with coverage factor of 2) for sensitivity is +/-0.20 dB.
7. Unit calibrated per ACS-20.

Technician: Leonard Lukasik Date: June 27, 2018

CALIBRATION CERT #1862.01

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ID:CAL112-3012952883.430+0

~ Calibration Report ~

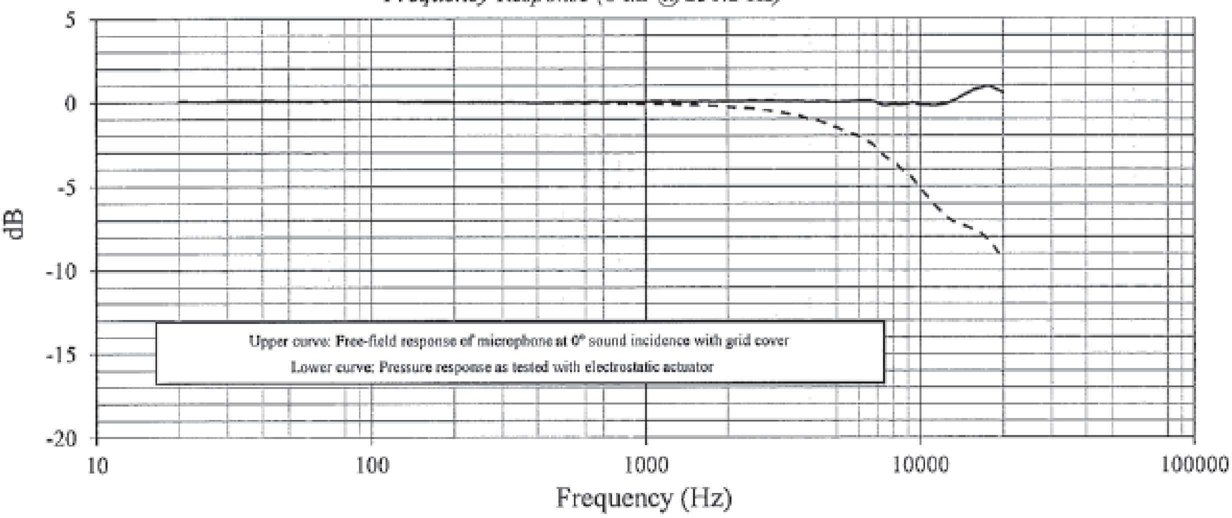
Microphone Model: 377B02 Serial Number: 305910 Description: 1/2" Free-Field Microphone

Calibration Data

Open Circuit Sensitivity @ 251.2 Hz:	50.22 mV/Pa	Polarization Voltage, External:	0 V
	-25.98 dB re 1V/Pa	Capacitance:	14 pF

Temperature: 71 °F (22°C) Ambient Pressure: 985 mbar Relative Humidity: 44 %

Frequency Response (0 dB @ 251.2 Hz)



Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)
20.0	0.08	0.08	1679	-0.19	0.04	7499	-3.28	-0.21	-	-	-
25.1	0.04	0.04	1778	-0.22	0.03	7943	-3.52	-0.13	-	-	-
31.6	0.09	0.09	1884	-0.24	0.04	8414	-3.89	-0.16	-	-	-
39.8	0.08	0.08	1995	-0.27	0.04	8913	-4.23	-0.12	-	-	-
50.1	0.08	0.08	2114	-0.30	0.04	9441	-4.55	-0.03	-	-	-
63.1	0.07	0.07	2239	-0.33	0.04	10000	-5.11	-0.16	-	-	-
79.4	0.06	0.06	2371	-0.36	0.05	10593	-5.55	-0.15	-	-	-
100.0	0.05	0.05	2512	-0.40	0.06	11220	-6.07	-0.21	-	-	-
125.9	0.04	0.04	2661	-0.46	0.05	11885	-6.46	-0.14	-	-	-
158.5	0.02	0.02	2818	-0.50	0.06	12589	-6.85	-0.08	-	-	-
199.5	0.01	0.01	2985	-0.56	0.06	13335	-7.09	0.10	-	-	-
251.2	0.00	0.00	3162	-0.64	0.04	14125	-7.26	0.33	-	-	-
316.2	-0.01	0.00	3350	-0.71	0.03	14962	-7.42	0.55	-	-	-
398.1	-0.02	-0.02	3548	-0.77	0.05	15849	-7.61	0.74	-	-	-
501.2	-0.04	0.00	3758	-0.87	0.03	16788	-7.87	0.85	-	-	-
631.0	-0.04	0.00	3981	-1.00	0.01	17783	-8.18	0.94	-	-	-
794.3	-0.07	0.02	4217	-1.10	0.01	18837	-8.74	0.77	-	-	-
1000.0	-0.10	0.02	4467	-1.20	0.03	19953	-9.34	0.59	-	-	-
1059.3	-0.09	0.04	4732	-1.36	0.01	-	-	-	-	-	-
1122.0	-0.10	0.04	5012	-1.53	0.00	-	-	-	-	-	-
1188.5	-0.12	0.03	5309	-1.69	0.01	-	-	-	-	-	-
1258.9	-0.12	0.04	5623	-1.86	0.02	-	-	-	-	-	-
1333.5	-0.15	0.03	5957	-2.02	0.05	-	-	-	-	-	-
1412.5	-0.17	0.02	6310	-2.22	0.07	-	-	-	-	-	-
1496.2	-0.17	0.03	6683	-2.47	0.05	-	-	-	-	-	-
1584.9	-0.17	0.04	7080	-2.86	-0.08	-	-	-	-	-	-

Technician: Leonard Lukasik Date: June 27, 2018

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~ Certificate of Calibration and Compliance ~

Microphone Model: 377B02 Serial Number: 305891 Manufacturer: PCB

Calibration Environmental Conditions

Environmental test conditions as printed on microphone calibration chart.

Reference Equipment

Manufacturer	Model #	Serial #	PCB Control #	Cal Date	Due Date
National Instruments	PCIe-6351	1896F08	CA1918	10/20/17	10/19/18
Larson Davis	PRM915	134	CA2114	11/30/17	11/30/18
Larson Davis	PRM902	5352	CA1247	4/12/18	4/12/19
Larson Davis	PRM916	130	CA1161	9/13/17	9/13/18
Larson Davis	CAL250	5109	CA1496	10/19/17	10/19/18
Larson Davis	2201	115	TA472	4/12/18	4/12/19
Bruel & Kjaer	4192	2764626	CA1636	8/7/17	8/7/18
Larson Davis	GPRM902	3999	CA1090	9/20/17	9/20/18
Newport	iTHX-SD/N	1080002	CA1511	2/9/18	2/8/19
Larson Davis	PRA951-4	222	LD026	12/19/17	12/19/18
Larson Davis	PRM915	135	CA1433	11/30/17	11/30/18
PCB	68510-02	N/A	CA2672	12/27/17	12/27/18
0	0	0	0	not required	not required
0	0	0	0	not required	not required
0	0	0	0	not required	not required

Frequency sweep performed with B&K UA0033 electrostatic actuator.

Condition of Unit

As Found: n/a

As Left: New Unit, In Tolerance

Notes

1. Calibration of reference equipment is traceable to one or more of the following National Labs; NIST, PTB or DFM.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 10012-1, ANSI/NCSL Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Open Circuit Sensitivity is measured using the insertion voltage method following procedure AT603-5.
6. Measurement uncertainty (95% confidence level with coverage factor of 2) for sensitivity is +/-0.20 dB.
7. Unit calibrated per ACS-20.

Technician: Leonard Lukasik Date: June 27, 2018

CALIBRATION CERT #1862.01

PCB PIEZOTRONICS
VIBRATION DIVISION

3425 Walden Avenue, Depew, New York, 14043

TEL: 888-684-0013 FAX: 716-685-3886 www.pcb.com

~ Calibration Report ~

Microphone Model: 377B02 | Serial Number: 305891 | Description: 1/2" Free-Field Microphone

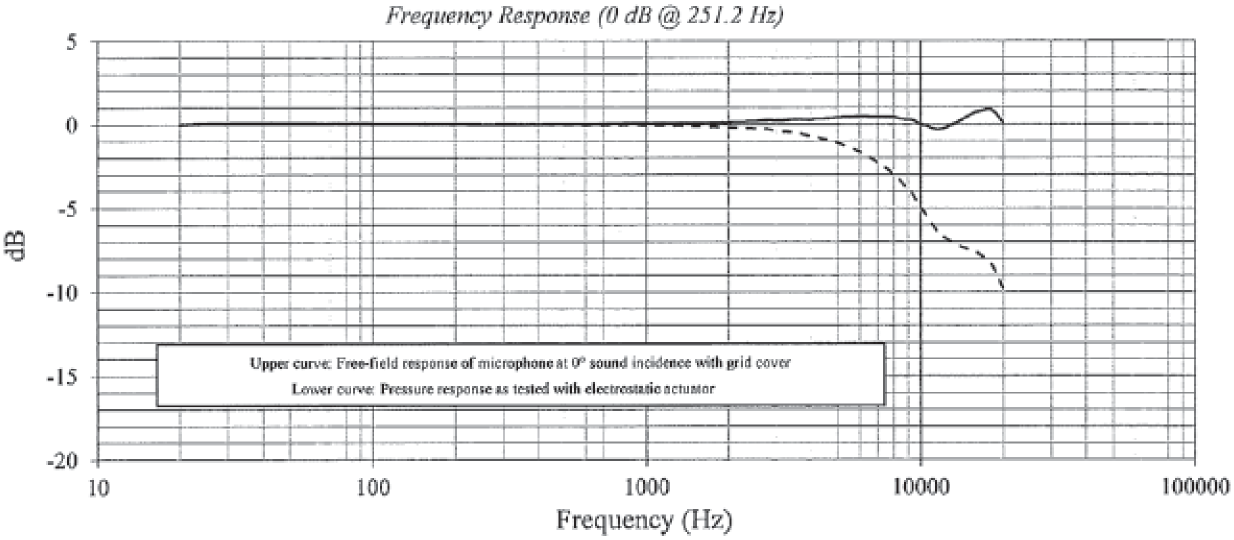
Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 53.12 mV/Pa
-25.5 dB re 1V/Pa

Polarization Voltage, External: 0 V
Capacitance: 13.6 pF

Temperature: 72 °F (22°C) | Ambient Pressure: 986 mbar | Relative Humidity: 44 %

Frequency Response (0 dB @ 251.2 Hz)



Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)
20.0	-0.03	-0.03	1679	-0.14	0.09	7499	-2.64	0.43	-	-	-
25.1	0.06	0.06	1778	-0.14	0.11	7943	-2.96	0.44	-	-	-
31.6	0.08	0.08	1884	-0.17	0.11	8414	-3.39	0.34	-	-	-
39.8	0.08	0.08	1995	-0.18	0.13	8913	-3.82	0.29	-	-	-
50.1	0.07	0.07	2114	-0.20	0.15	9441	-4.28	0.24	-	-	-
63.1	0.06	0.06	2239	-0.22	0.15	10000	-4.95	0.00	-	-	-
79.4	0.05	0.05	2371	-0.23	0.18	10593	-5.51	-0.11	-	-	-
100.0	0.04	0.04	2512	-0.27	0.19	11220	-6.15	-0.29	-	-	-
125.9	0.03	0.03	2661	-0.28	0.23	11885	-6.61	-0.29	-	-	-
158.5	0.02	0.02	2818	-0.31	0.25	12589	-6.89	-0.12	-	-	-
199.5	0.01	0.01	2985	-0.38	0.24	13335	-7.13	0.06	-	-	-
251.2	0.00	0.00	3162	-0.44	0.24	14125	-7.31	0.28	-	-	-
316.2	-0.01	0.00	3350	-0.46	0.28	14962	-7.45	0.52	-	-	-
398.1	-0.01	-0.01	3548	-0.50	0.32	15849	-7.62	0.73	-	-	-
501.2	-0.02	0.02	3758	-0.60	0.30	16788	-7.90	0.82	-	-	-
631.0	-0.04	0.00	3981	-0.70	0.30	17783	-8.21	0.90	-	-	-
794.3	-0.04	0.05	4217	-0.77	0.34	18837	-8.91	0.60	-	-	-
1000.0	-0.06	0.06	4467	-0.89	0.34	19953	-9.83	0.10	-	-	-
1059.3	-0.08	0.06	4732	-1.00	0.37	-	-	-	-	-	-
1122.0	-0.06	0.08	5012	-1.12	0.41	-	-	-	-	-	-
1188.5	-0.07	0.08	5309	-1.28	0.43	-	-	-	-	-	-
1258.9	-0.09	0.07	5623	-1.44	0.44	-	-	-	-	-	-
1333.5	-0.09	0.09	5957	-1.61	0.46	-	-	-	-	-	-
1412.5	-0.11	0.08	6310	-1.81	0.48	-	-	-	-	-	-
1496.2	-0.12	0.08	6683	-2.08	0.44	-	-	-	-	-	-
1584.9	-0.12	0.10	7080	-2.34	0.44	-	-	-	-	-	-

Technician: Leonard Lukasik | Date: June 27, 2018

CALIBRATION CERT #1862.01

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TEL: 888-684-0013 FAX: 716-685-3886 www.pcb.com

ID:CAL113-3612952712.554+0

Appendix C.
Data Summaries

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Summary	
File Name	ox.003
Serial Number	0003174
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	OS_1
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-26 10:31:37
Stop	2018-10-01 09:47:43
Duration	119:16:06.313
Run Time	119:16:06.313
Pause	00:00:00.0
Pre Calibration	2018-09-26 08:53:36
Post Calibration	None
Calibration Deviation	—

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.6 dB		
	A	C	Z
Under Range Peak	76.1	73.1	78.1 dB
Under Range Limit	26.3	26.6	32.1 dB
Noise Floor	17.1	17.4	22.7 dB

Results		
LAeq	43.8 dB	
LAE	100.1 dB	
EA	1.144 mPa²h	
LZpeak (max)	2018-09-28 15:09:14	112.3 dB
LASmax	2018-09-28 07:43:30	73.8 dB
LASmin	2018-09-26 14:10:01	38.2 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	685	4914.8 s
LAS > 55.0 dB (Exceedance Counts / Duration)	189	884.4 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	49.6	44.3	43.0	50.0	44.0	45.1	43.0	dB

LCeq	58.6 dB
LAeq	43.8 dB
LCeq - LAeq	14.8 dB
LAIeq	46.0 dB
LAeq	43.8 dB
LAIeq - LAeq	2.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	43.8		58.6		74.9	
LS(max)	73.8	2018/09/28 7:43:30	83.8	2018/09/28 15:09:14	102.4	2018/09/28 15:09:15
LF(max)	81.7	2018/09/28 7:43:30	90.5	2018/09/28 15:09:14	107.0	2018/09/28 15:09:14
LI(max)	87.1	2018/09/28 7:43:30	94.2	2018/09/28 15:09:14	109.8	2018/09/28 14:41:54
LS(min)	38.2	2018/09/26 14:10:01	47.3	2018/09/27 13:57:29	49.8	2018/09/27 13:36:00
LF(min)	37.7	2018/09/26 14:10:00	45.9	2018/09/27 13:39:04	47.7	2018/09/27 13:38:52
LI(min)	38.0	2018/09/26 14:10:00	47.2	2018/09/27 13:57:27	50.3	2018/09/27 13:38:52
Lpeak(max)	105.6	2018/09/28 7:43:30	105.6	2018/09/28 7:43:30	112.3	2018/09/28 15:09:14

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	4
OBA Overload Duration	8.9 s

Statistics	
LAS5.00	46.5 dB
LAS10.00	45.6 dB
LAS33.30	43.4 dB
LAS50.00	42.7 dB
LAS66.60	42.1 dB
LAS90.00	41.4 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Run	2018-09-26	10:31:37									
2		2018-09-26	10:31:37	43.9	101.5	101.4	46.0	44.2	42.5	42.2	42.0	41.5
3		2018-09-26	11:31:37	42.4	75.0	87.7	44.5	43.3	42.1	41.8	41.5	41.0
4		2018-09-26	12:31:37	42.2	71.1	92.0	44.7	43.4	41.9	41.6	41.2	40.6
5		2018-09-26	13:31:37	41.4	71.1	96.6	43.4	42.5	41.3	40.9	40.6	39.8
6		2018-09-26	14:31:37	43.8	76.4	108.9	47.5	45.7	43.1	42.5	42.0	41.3
7		2018-09-26	15:31:37	44.0	101.5	107.1	45.8	44.8	43.2	42.6	42.2	41.6
8		2018-09-26	16:31:37	43.7	80.5	104.5	46.1	44.7	42.9	42.4	42.1	41.5
9		2018-09-26	17:31:37	43.9	71.1	102.9	46.6	44.9	43.0	42.6	42.3	41.8
10		2018-09-26	18:31:37	44.5	71.9	79.5	47.0	46.7	45.4	43.2	42.5	41.9
11		2018-09-26	19:31:37	46.0	69.9	85.9	47.2	46.8	46.1	45.7	45.5	45.0
12		2018-09-26	20:31:37	45.6	66.1	77.7	47.2	46.5	45.7	45.3	44.9	44.5
13		2018-09-26	21:31:37	45.3	72.5	80.7	47.0	46.2	45.3	45.0	44.6	44.0
14		2018-09-26	22:31:37	44.2	63.5	78.8	45.5	45.1	44.3	44.1	43.7	43.0
15		2018-09-26	23:31:37	44.0	63.8	73.8	45.2	44.8	44.2	43.9	43.6	43.0
16		2018-09-27	0:31:37	42.7	66.3	74.8	43.5	43.3	42.8	42.6	42.5	42.1
17		2018-09-27	1:31:37	42.9	65.8	75.6	44.1	43.8	43.2	42.8	42.3	41.7
18		2018-09-27	2:31:37	42.9	66.5	74.0	43.8	43.5	43.0	42.8	42.6	42.3
19		2018-09-27	3:31:37	42.5	64.1	73.7	43.4	43.1	42.7	42.4	42.1	41.6
20		2018-09-27	4:31:37	43.3	65.3	74.8	44.7	43.9	43.3	43.1	42.9	42.5
21		2018-09-27	5:31:37	45.3	68.4	80.4	47.7	46.7	45.4	44.8	44.2	43.4
22		2018-09-27	6:31:37	47.1	82.7	99.8	49.6	48.7	47.1	46.5	46.1	45.3
23		2018-09-27	7:31:37	46.3	84.3	84.2	48.2	47.3	46.2	45.7	45.1	44.3
24		2018-09-27	8:31:37	44.0	83.7	84.0	46.1	45.4	44.0	43.5	43.0	42.2
25		2018-09-27	9:31:37	43.2	98.5	97.1	45.1	44.0	42.2	41.7	41.4	40.8
26		2018-09-27	10:31:37	43.2	71.8	85.6	44.6	43.7	42.5	42.2	42.0	41.3
27		2018-09-27	11:31:37	43.3	72.4	97.0	45.9	44.1	42.5	42.2	41.9	41.4
28		2018-09-27	12:31:37	42.7	71.2	89.0	44.8	43.4	42.2	41.8	41.5	40.9
29		2018-09-27	13:31:37	44.4	75.3	106.9	46.4	43.4	41.8	41.4	40.9	40.2
30		2018-09-27	14:31:37	43.0	84.0	104.9	44.3	43.5	42.5	42.2	41.9	41.3
31		2018-09-27	15:31:37	43.0	74.0	105.3	44.2	43.4	42.3	42.0	41.6	41.1
32		2018-09-27	16:31:37	44.4	98.4	102.4	46.6	44.9	42.8	42.3	41.9	41.3
33		2018-09-27	17:31:37	43.6	72.3	98.5	45.9	44.4	42.6	42.2	42.0	41.5
34		2018-09-27	18:31:37	45.4	72.5	99.2	48.3	47.7	46.4	43.5	42.6	41.9
35		2018-09-27	19:31:37	46.5	66.7	83.0	47.7	47.6	46.9	46.5	45.9	45.3
36		2018-09-27	20:31:37	45.3	66.7	83.5	46.4	46.1	45.4	45.2	45.0	44.5
37		2018-09-27	21:31:37	45.1	66.0	80.2	46.7	46.0	45.1	44.8	44.6	44.1
38		2018-09-27	22:31:37	43.8	65.8	80.3	44.6	44.4	44.0	43.7	43.6	43.2
39		2018-09-27	23:31:37	43.8	76.2	78.3	45.6	44.4	43.5	42.9	42.6	42.2
40		2018-09-28	0:31:37	42.3	66.7	73.1	43.2	42.9	42.4	42.2	42.0	41.7
41		2018-09-28	1:31:37	41.9	62.3	69.8	42.6	42.5	42.0	41.8	41.7	41.4
42		2018-09-28	2:31:37	42.1	62.3	76.4	42.9	42.7	42.2	42.0	41.8	41.4
43		2018-09-28	3:31:37	42.4	61.4	73.3	43.2	43.1	42.6	42.3	42.1	41.7
44		2018-09-28	4:31:37	43.0	63.8	72.6	44.0	43.6	43.1	42.9	42.7	42.3
45		2018-09-28	5:31:37	44.2	63.8	73.6	46.5	45.6	44.3	43.8	43.4	42.6
46		2018-09-28	6:31:37	45.8	69.8	80.8	48.2	47.3	45.8	45.3	44.9	44.1
47		2018-09-28	7:31:37	46.7	105.6	105.9	47.4	46.6	45.5	45.1	44.9	44.4
48		2018-09-28	8:31:37	44.2	72.4	85.1	45.8	45.1	44.1	43.6	43.1	42.1
49		2018-09-28	9:31:37	42.5	69.6	86.5	45.1	44.0	42.4	41.8	41.3	40.6
50		2018-09-28	10:31:37	43.2	76.1	102.7	45.2	44.0	42.6	42.1	41.7	41.0
51		2018-09-28	11:31:37	42.8	78.9	100.4	45.8	44.2	42.3	41.8	41.3	40.6
52		2018-09-28	12:31:37	45.3	86.0	103.6	47.1	43.9	42.3	42.0	41.6	41.1
53		2018-09-28	13:31:37	44.9	76.0	108.3	47.1	45.6	43.8	43.3	42.9	42.3
54		2018-09-28	14:31:37	46.3	78.7	112.3	49.3	47.8	45.1	44.2	43.6	42.8
55		2018-09-28	15:31:37	45.3	99.1	110.1	50.7	45.2	43.1	42.7	42.3	41.8
56		2018-09-28	16:31:37	43.2	77.2	105.5	44.9	44.0	42.9	42.6	42.2	41.7
57		2018-09-28	17:31:37	42.7	68.1	97.6	44.9	44.1	42.5	42.1	41.7	41.1
58		2018-09-28	18:31:37	43.7	70.3	94.8	45.4	45.0	44.2	43.3	42.5	41.8
59		2018-09-28	19:31:37	43.9	64.6	82.6	45.1	44.7	44.2	43.8	43.5	42.8
60		2018-09-28	20:31:37	43.6	74.7	83.8	45.0	44.4	43.4	43.1	42.8	42.5
61		2018-09-28	21:31:37	42.9	65.6	78.1	44.5	43.8	42.9	42.6	42.4	41.9
62		2018-09-28	22:31:37	42.0	64.9	80.0	43.2	42.7	42.0	41.8	41.6	41.3
63		2018-09-28	23:31:37	41.8	72.1	79.3	42.8	42.2	41.7	41.5	41.3	41.1
64		2018-09-29	0:31:37	41.7	64.6	90.9	42.9	42.4	41.7	41.5	41.2	40.9
65		2018-09-29	1:31:37	41.9	63.5	83.4	42.6	42.2	41.9	41.7	41.6	41.4
66		2018-09-29	2:31:37	41.9	59.3	90.9	42.4	42.3	42.0	41.8	41.7	41.4
67		2018-09-29	3:31:37	41.8	60.8	92.8	42.5	42.3	42.0	41.8	41.6	41.2
68		2018-09-29	4:31:37	41.9	61.4	94.3	42.9	42.6	42.0	41.8	41.6	41.3
69		2018-09-29	5:31:37	41.9	70.6	88.9	43.0	42.6	42.0	41.7	41.4	41.0
70		2018-09-29	6:31:37	42.5	75.5	84.8	44.8	43.5	42.1	41.8	41.6	41.2
71		2018-09-29	7:31:37	43.0	70.3	89.7	45.4	44.6	42.7	42.1	41.8	41.3
72		2018-09-29	8:31:37	44.7	103.5	102.8	48.6	45.8	42.5	42.0	41.7	41.0
73		2018-09-29	9:31:37	42.5	72.0	96.8	45.0	44.0	42.2	41.8	41.4	40.9
74		2018-09-29	10:31:37	42.5	72.5	96.9	45.1	43.9	42.3	41.9	41.6	40.9

75		2018-09-29	11:31:37	44.2	81.2	97.4	45.3	44.0	42.4	42.0	41.6	41.0
76		2018-09-29	12:31:37	42.8	71.9	100.6	44.1	43.4	42.6	42.2	41.9	41.2
77		2018-09-29	13:31:37	43.5	76.1	105.9	46.0	44.3	42.8	42.4	42.1	41.5
78		2018-09-29	14:31:37	42.6	71.1	103.2	44.1	43.5	42.6	42.3	42.0	41.4
79		2018-09-29	15:31:37	43.6	77.5	110.3	45.9	44.8	43.3	42.7	42.3	41.6
80		2018-09-29	16:31:37	43.1	94.0	107.6	44.9	43.5	42.5	42.2	41.9	41.5
81		2018-09-29	17:31:37	43.3	76.9	107.7	45.1	44.3	43.2	42.9	42.6	42.1
82		2018-09-29	18:31:37	44.3	67.5	103.2	45.7	45.3	44.7	44.1	43.4	42.7
83		2018-09-29	19:31:37	44.8	86.7	94.7	45.7	45.4	44.9	44.7	44.5	44.1
84		2018-09-29	20:31:37	44.4	68.6	85.7	46.2	45.0	44.2	44.0	43.8	43.2
85		2018-09-29	21:31:37	43.4	66.5	78.6	44.3	44.0	43.5	43.2	43.0	42.5
86		2018-09-29	22:31:37	43.0	66.0	80.8	44.5	44.0	42.9	42.6	42.4	42.0
87		2018-09-29	23:31:37	42.4	65.1	76.8	43.7	43.3	42.5	42.2	42.0	41.4
88		2018-09-30	0:31:37	41.7	61.4	73.6	42.4	42.3	41.8	41.6	41.3	41.0
89		2018-09-30	1:31:37	42.5	62.8	75.1	43.5	43.2	42.4	42.2	42.1	41.8
90		2018-09-30	2:31:37	42.1	63.1	73.4	43.0	42.8	42.3	42.1	41.7	41.1
91		2018-09-30	3:31:37	41.3	58.4	74.9	41.9	41.7	41.5	41.3	41.1	40.8
92		2018-09-30	4:31:37	41.6	60.1	82.4	42.2	42.0	41.7	41.6	41.4	41.2
93		2018-09-30	5:31:37	41.6	63.5	76.3	42.3	42.0	41.6	41.5	41.4	41.2
94		2018-09-30	6:31:37	41.8	66.8	82.2	43.0	42.5	41.7	41.5	41.4	41.1
95		2018-09-30	7:31:37	42.9	77.2	90.9	44.3	43.5	42.5	42.1	41.8	41.4
96		2018-09-30	8:31:37	44.8	100.8	100.7	46.5	45.1	43.6	43.1	42.8	42.1
97		2018-09-30	9:31:37	44.6	73.5	94.3	47.2	45.3	43.2	42.6	42.2	41.7
98		2018-09-30	10:31:37	43.0	74.0	93.1	45.5	44.3	42.8	42.3	41.9	41.2
99		2018-09-30	11:31:37	45.1	75.5	93.9	49.5	46.5	43.4	42.9	42.5	41.6
100		2018-09-30	12:31:37	43.6	69.6	92.1	46.2	45.0	43.3	42.9	42.4	41.6
101		2018-09-30	13:31:37	44.3	73.9	98.3	47.4	45.6	43.8	43.3	42.9	42.0
102		2018-09-30	14:31:37	44.2	75.9	106.3	47.5	45.3	43.4	42.9	42.6	42.1
103		2018-09-30	15:31:37	44.6	78.2	107.4	47.0	45.2	43.0	42.6	42.3	41.8
104		2018-09-30	16:31:37	43.4	75.4	106.5	46.0	44.7	43.0	42.6	42.4	41.9
105		2018-09-30	17:31:37	42.9	69.9	97.1	44.1	43.7	42.9	42.7	42.5	42.0
106		2018-09-30	18:31:37	44.9	70.5	90.9	46.8	46.7	45.9	44.2	43.2	42.6
107		2018-09-30	19:31:37	45.8	68.8	98.7	46.7	46.5	46.1	45.9	45.6	44.4
108		2018-09-30	20:31:37	44.4	75.7	81.3	46.1	44.9	43.9	43.5	43.2	42.8
109		2018-09-30	21:31:37	43.6	67.7	81.4	44.6	44.3	43.8	43.5	43.3	42.9
110		2018-09-30	22:31:37	42.4	71.8	80.0	43.2	43.0	42.5	42.3	42.1	41.8
111		2018-09-30	23:31:37	42.3	62.8	76.8	43.7	43.1	42.3	42.0	41.8	41.3
112		2018-10-01	0:31:37	42.8	66.5	76.2	43.7	43.4	42.8	42.6	42.4	42.1
113		2018-10-01	1:31:37	42.5	60.8	73.8	43.2	43.0	42.7	42.5	42.3	41.9
114		2018-10-01	2:31:37	42.8	66.5	78.5	44.2	43.9	43.1	42.7	42.3	41.6
115		2018-10-01	3:31:37	42.9	65.3	81.5	44.3	43.8	43.0	42.7	42.3	41.9
116		2018-10-01	4:31:37	43.3	66.8	77.2	45.2	44.2	43.1	42.7	42.2	41.7
117		2018-10-01	5:31:37	44.7	67.9	77.5	47.0	46.1	44.6	44.1	43.8	43.1
118		2018-10-01	6:31:37	46.6	70.5	86.3	49.4	48.4	46.6	46.0	45.4	44.5
119		2018-10-01	7:31:37	46.0	78.6	80.9	47.6	47.1	46.2	45.8	45.4	44.6
120		2018-10-01	8:31:37	44.1	73.7	83.0	46.5	45.5	44.2	43.7	43.1	42.1
121		2018-10-01	9:31:37	44.3	83.2	100.5	48.2	46.1	43.1	42.4	42.0	41.5
122	Stop	2018-10-01	9:47:43									

Summary	
File Name	MSA1.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	carlos
Location	OS_2
Job Description	nextera
Note	

Measurement Description	
Start	2018-09-26 10:40:50
Stop	2018-09-30 09:16:26
Duration	94:35:35.688
Run Time	94:35:35.688
Pause	00:00:00.0
Pre Calibration	2018-09-26 10:40:09
Post Calibration	None
Calibration Deviation	—

Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRM831			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Gain	0.0 dB			
Overload	143.5 dB			
	A	C	Z	
Under Range Peak	76.0	73.0	78.0	dB
Under Range Limit	26.2	26.5	32.0	dB
Noise Floor	17.1	17.4	22.6	dB

Results		
LAeq	43.8 dB	
LAE	99.1 dB	
EA	910.007 µPa²h	
LZpeak (max)	2018-09-28 15:06:27	108.2 dB
LASmax	2018-09-28 15:47:58	69.5 dB
LASmin	2018-09-27 14:07:20	34.0 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	713	5422.2 s
LAS > 55.0 dB (Exceedance Counts / Duration)	144	538.7 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	50.4	43.7	44.0	50.8	42.7	46.2	44.0	dB

LCeq	56.4 dB
LAeq	43.8 dB
LCeq - LAeq	12.6 dB
LAIeq	46.0 dB
LAeq	43.8 dB
LAIeq - LAeq	2.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	43.8		56.4		72.8	
Ls(max)	69.5	2018/09/28 15:47:58	79.4	2018/09/28 14:55:05	98.0	2018/09/28 15:06:27
Lf(max)	77.5	2018/09/27 9:43:33	85.6	2018/09/28 15:35:57	103.5	2018/09/28 15:06:27
Li(max)	82.8	2018/09/27 9:43:33	89.6	2018/09/28 15:35:57	106.4	2018/09/28 15:06:27
Ls(min)	34.0	2018/09/27 14:07:20	45.8	2018/09/29 12:17:50	48.3	2018/09/29 1:04:32
Lf(min)	33.5	2018/09/27 14:07:19	44.0	2018/09/29 12:17:48	45.3	2018/09/29 4:36:53
Li(min)	33.7	2018/09/27 14:07:19	46.2	2018/09/29 12:28:44	48.1	2018/09/29 2:53:51
Lpk(max)	101.6	2018/09/27 9:43:33	100.2	2018/09/27 9:43:33	108.2	2018/09/28 15:06:27

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	47.5 dB
LAS10.00	46.5 dB
LAS33.30	44.2 dB
LAS50.00	42.5 dB
LAS66.60	40.9 dB
LAS90.00	38.8 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Calibration Change	2018-09-26	10:40:09									
2	Run	2018-09-26	10:40:50									
3		2018-09-26	10:40:50	41.6	100.3	99.0	43.3	41.8	39.8	39.2	38.7	37.7
4		2018-09-26	11:40:50	42.2	85.1	89.6	43.0	41.5	39.4	38.6	38.0	37.0
5		2018-09-26	12:40:50	40.3	74.0	90.2	43.3	42.5	40.3	39.4	38.7	37.3
6		2018-09-26	13:40:50	41.4	69.5	103.2	45.1	44.0	41.8	40.5	39.2	37.3
7		2018-09-26	14:40:50	40.8	70.9	106.6	42.8	41.8	40.4	39.9	39.4	38.6
8		2018-09-26	15:40:50	42.8	98.9	104.7	43.6	42.2	40.6	40.0	39.6	38.9
9		2018-09-26	16:40:50	41.6	72.9	103.1	44.2	43.0	41.1	40.5	40.0	39.2
10		2018-09-26	17:40:50	42.7	71.6	99.6	46.3	44.0	41.7	41.1	40.6	39.8
11		2018-09-26	18:40:50	46.7	69.3	82.2	49.9	49.4	48.1	45.8	43.2	41.4
12		2018-09-26	19:40:50	47.9	88.0	89.9	49.1	48.6	48.1	47.8	47.6	47.0
13		2018-09-26	20:40:50	47.0	65.6	74.0	48.2	47.8	47.2	47.0	46.6	45.7
14		2018-09-26	21:40:50	46.5	67.0	76.5	47.6	47.4	46.7	46.5	46.2	45.4
15		2018-09-26	22:40:50	45.5	81.2	87.0	47.0	46.6	45.9	45.6	45.1	43.8
16		2018-09-26	23:40:50	45.2	66.3	73.7	47.0	46.4	45.5	45.1	44.5	43.3
17		2018-09-27	0:40:50	44.3	66.3	74.8	45.6	45.3	44.5	44.0	43.6	43.1
18		2018-09-27	1:40:50	44.5	66.2	72.4	46.0	45.7	45.0	44.5	44.0	42.8
19		2018-09-27	2:40:50	44.7	65.4	71.3	45.7	45.4	44.9	44.6	44.4	44.0
20		2018-09-27	3:40:50	44.6	65.0	73.4	45.7	45.4	44.9	44.5	44.1	43.4
21		2018-09-27	4:40:50	45.4	64.2	73.4	46.6	46.3	45.6	45.2	44.9	44.5
22		2018-09-27	5:40:50	47.0	80.1	80.0	48.9	48.2	47.2	46.8	46.4	45.4
23		2018-09-27	6:40:50	48.0	76.0	82.2	50.2	49.4	48.0	47.6	47.2	46.5
24		2018-09-27	7:40:50	45.6	71.6	78.0	48.0	47.2	45.8	45.2	44.5	42.9
25		2018-09-27	8:40:50	42.9	83.7	84.2	45.4	44.4	42.9	42.3	41.7	40.5
26		2018-09-27	9:40:50	42.3	101.6	100.9	43.3	42.4	41.1	40.6	40.2	39.3
27		2018-09-27	10:40:50	42.1	70.1	88.0	43.4	42.7	41.6	41.0	40.5	39.0
28		2018-09-27	11:40:50	41.7	72.4	93.9	46.7	43.2	40.3	39.2	38.5	36.8
29		2018-09-27	12:40:50	40.4	68.4	87.5	42.3	41.6	40.2	39.6	39.0	38.1
30		2018-09-27	13:40:50	43.4	77.5	104.3	47.2	42.8	39.2	38.5	38.0	37.1
31		2018-09-27	14:40:50	40.3	71.6	104.1	42.3	41.4	39.9	39.4	39.0	38.1
32		2018-09-27	15:40:50	42.5	95.8	107.5	44.4	42.2	40.0	39.5	38.9	38.2
33		2018-09-27	16:40:50	44.1	77.7	99.3	48.8	46.3	42.3	41.1	40.1	38.6
34		2018-09-27	17:40:50	42.4	70.4	96.7	45.2	43.5	41.4	40.9	40.5	39.7
35		2018-09-27	18:40:50	46.7	68.8	98.0	49.9	49.6	48.4	46.3	42.2	40.6
36		2018-09-27	19:40:50	47.6	68.0	77.8	49.2	48.7	47.7	47.3	47.1	46.7
37		2018-09-27	20:40:50	46.6	70.3	79.1	47.6	47.3	46.9	46.6	46.3	45.5
38		2018-09-27	21:40:50	46.0	67.0	78.7	47.1	46.8	46.2	45.9	45.6	45.2
39		2018-09-27	22:40:50	45.6	72.4	76.9	46.6	46.4	45.9	45.6	45.2	44.7
40		2018-09-27	23:40:50	44.2	73.0	77.1	45.9	45.3	44.1	43.7	43.4	42.8
41		2018-09-28	0:40:50	43.2	63.6	72.3	44.2	43.9	43.3	43.1	42.9	42.6
42		2018-09-28	1:40:50	43.8	67.1	73.4	44.9	44.7	43.9	43.5	43.3	42.9
43		2018-09-28	2:40:50	43.8	64.5	72.5	44.9	44.7	44.1	43.8	43.5	42.9
44		2018-09-28	3:40:50	44.8	61.2	72.7	45.9	45.7	45.0	44.8	44.4	43.8
45		2018-09-28	4:40:50	45.0	62.6	71.6	46.0	45.7	45.1	44.9	44.7	44.3
46		2018-09-28	5:40:50	46.1	83.7	83.9	47.8	47.3	46.3	45.9	45.5	44.6
47		2018-09-28	6:40:50	47.1	75.8	82.4	49.2	48.4	47.3	46.8	46.4	45.7
48		2018-09-28	7:40:50	46.1	99.6	99.2	48.1	47.0	45.8	45.2	44.7	44.1
49		2018-09-28	8:40:50	43.3	80.0	84.6	45.3	44.6	43.4	42.8	42.2	40.6
50		2018-09-28	9:40:50	41.0	76.2	88.1	43.7	42.4	40.9	40.3	39.4	38.0
51		2018-09-28	10:40:50	40.4	70.2	101.2	42.9	41.3	39.4	38.9	38.4	37.6
52		2018-09-28	11:40:50	40.0	72.3	101.6	42.9	41.4	39.5	39.0	38.6	37.7
53		2018-09-28	12:40:50	40.1	64.5	102.8	42.5	41.3	39.7	39.2	38.8	38.1
54		2018-09-28	13:40:50	44.4	78.4	106.8	46.4	44.0	41.8	41.2	40.7	40.0
55		2018-09-28	14:40:50	45.0	78.5	108.2	48.3	46.2	43.3	42.5	41.6	40.4
56		2018-09-28	15:40:50	42.4	99.6	106.6	43.7	42.4	41.0	40.5	40.1	39.4
57		2018-09-28	16:40:50	42.0	71.7	103.9	45.2	43.5	41.1	40.4	39.9	38.9
58		2018-09-28	17:40:50	40.9	70.2	93.7	43.8	42.4	40.8	40.3	39.7	38.6
59		2018-09-28	18:40:50	43.6	69.1	95.8	45.8	45.4	44.5	44.0	42.0	39.9
60		2018-09-28	19:40:50	44.7	71.6	76.8	46.3	45.9	45.1	44.5	44.1	43.3
61		2018-09-28	20:40:50	44.0	67.4	78.6	45.8	45.2	44.2	43.8	43.4	42.5
62		2018-09-28	21:40:50	42.9	63.9	80.9	44.0	43.7	43.0	42.8	42.6	41.9
63		2018-09-28	22:40:50	42.1	67.2	77.4	43.4	43.0	42.3	41.9	41.6	40.9
64		2018-09-28	23:40:50	41.8	68.2	74.2	43.0	42.7	41.9	41.6	41.3	40.8
65		2018-09-29	0:40:50	41.9	63.9	86.9	43.9	43.3	42.2	41.7	41.2	40.4
66		2018-09-29	1:40:50	41.2	63.9	90.3	42.1	41.9	41.4	41.1	40.8	40.2
67		2018-09-29	2:40:50	40.5	59.2	96.3	41.6	41.4	40.8	40.5	40.1	39.5
68		2018-09-29	3:40:50	40.6	60.6	83.6	41.6	41.4	40.8	40.5	40.2	39.5
69		2018-09-29	4:40:50	39.6	66.5	95.1	40.9	40.5	39.7	39.3	38.9	38.3
70		2018-09-29	5:40:50	40.6	74.7	82.0	42.8	41.7	40.6	40.0	39.5	38.6
71		2018-09-29	6:40:50	41.7	76.8	85.8	45.6	43.0	40.6	40.0	39.5	38.4
72		2018-09-29	7:40:50	42.1	80.0	93.6	45.6	44.2	41.0	40.0	39.4	38.4
73		2018-09-29	8:40:50	42.4	99.3	100.1	45.6	44.1	41.0	40.0	39.2	38.2
74		2018-09-29	9:40:50	40.9	73.4	93.6	44.2	42.8	40.6	39.7	38.9	38.0

75		2018-09-29	10:40:50	40.5	71.9	97.1	43.2	42.1	40.4	39.7	39.0	37.8
76		2018-09-29	11:40:50	41.9	79.6	94.5	43.7	41.8	39.4	38.5	37.8	36.9
77		2018-09-29	12:40:50	39.5	73.9	100.9	42.6	41.1	39.1	38.5	38.0	37.3
78		2018-09-29	13:40:50	42.2	78.2	103.4	45.3	42.9	40.4	39.9	39.5	38.8
79		2018-09-29	14:40:50	40.4	76.1	107.2	43.6	41.0	39.3	38.9	38.7	38.2
80		2018-09-29	15:40:50	43.3	80.9	107.4	46.1	44.1	41.5	40.9	40.4	39.3
81		2018-09-29	16:40:50	40.4	77.5	102.9	42.5	41.5	40.1	39.7	39.4	38.8
82		2018-09-29	17:40:50	41.6	78.4	103.9	44.9	43.4	41.2	40.6	40.2	39.4
83		2018-09-29	18:40:50	44.1	67.4	104.1	46.5	46.0	45.1	44.3	42.0	40.7
84		2018-09-29	19:40:50	45.2	85.0	91.5	46.2	45.9	45.4	45.1	44.8	44.2
85		2018-09-29	20:40:50	45.0	70.2	82.0	46.6	45.8	45.0	44.6	44.2	43.8
86		2018-09-29	21:40:50	43.8	73.4	73.6	44.9	44.6	44.1	43.8	43.5	42.7
87		2018-09-29	22:40:50	43.8	65.0	76.9	46.1	45.5	44.0	43.4	42.9	42.0
88		2018-09-29	23:40:50	43.7	68.3	71.4	45.3	45.0	44.0	43.5	43.0	42.3
89		2018-09-30	0:40:50	44.2	60.0	73.9	46.0	45.5	44.5	44.1	43.7	42.8
90		2018-09-30	1:40:50	44.8	61.7	73.1	46.1	45.7	44.9	44.7	44.5	44.1
91		2018-09-30	2:40:50	44.0	61.7	70.6	45.6	45.4	44.8	44.0	42.8	41.6
92		2018-09-30	3:40:50	42.2	59.2	75.1	43.2	43.0	42.6	42.2	41.8	41.0
93		2018-09-30	4:40:50	41.1	61.7	80.0	42.8	42.5	41.7	41.0	40.3	39.0
94		2018-09-30	5:40:50	41.9	77.4	77.3	43.1	42.8	42.3	41.9	41.4	39.9
95		2018-09-30	6:40:50	42.5	79.6	82.3	45.3	44.0	41.9	41.4	41.1	40.5
96		2018-09-30	7:40:50	44.3	73.5	88.0	46.2	45.8	44.7	44.0	43.2	42.2
97		2018-09-30	8:40:50	45.3	88.2	92.3	46.9	46.4	45.4	45.0	44.5	43.6
98	Stop	2018-09-30	9:16:26									

Summary

File Name	NSA2.001
Serial Number	0003559
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	OS_3
Job Description	NextEra
Note	

Measurement Description

Start	2018-09-26 10:56:30
Stop	2018-10-01 10:00:41
Duration	119:04:11.406
Run Time	119:04:11.406
Pause	00:00:00.0
Pre Calibration	2018-09-26 10:55:18
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.2 dB		
	A	**C**	**Z**
Under Range Peak	75.7	72.7	77.7 dB
Under Range Limit	26.1	26.3	31.7 dB
Noise Floor	17.0	17.2	22.3 dB

Results

L_{Aeq}	44.2 dB	
LAE	100.5 dB	
EA	1.253 mPa²h	
$LZ_{peak\,(max)}$	2018-09-29 16:01:31	112.3 dB
LAS_{max}	2018-09-30 09:02:48	75.1 dB
LAS_{min}	2018-09-26 14:07:03	32.9 dB
SEA	-99.9 dB	

LAS > 50.0 dB (Exceedance Counts / Duration)	1075	7557.3 s
LAS > 55.0 dB (Exceedance Counts / Duration)	268	859.1 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	**Ldn**	**LDay 07:00-22:00**	**LNight 22:00-07:00**	**Lden**	**LDay 07:00-19:00**	**LEvening 19:00-22:00**	**LNight 22:00-07:00**	
	50.5	44.4	44.1	50.9	43.9	45.9	44.1	dB

L_{Ceq}	57.3 dB
L_{Aeq}	44.2 dB
L_{Ceq} - L_{Aeq}	13.1 dB
L_{AIeq}	47.0 dB
L_{Aeq}	44.2 dB
L_{AIeq} - L_{Aeq}	2.8 dB

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	44.2		57.3		74.9	
$L_{S(max)}$	75.1	2018/09/30 9:02:48	83.8	2018/09/29 16:01:31	101.6	2018/09/29 16:01:32
$L_{F(max)}$	82.8	2018/09/30 9:02:48	90.6	2018/09/26 10:56:42	106.9	2018/09/29 16:01:31
$L_{I(max)}$	87.9	2018/09/30 9:02:48	94.5	2018/09/26 10:56:42	110.2	2018/09/29 16:01:31
$L_{S(min)}$	32.9	2018/09/26 14:07:03	43.1	2018/09/30 13:52:20	46.7	2018/09/30 6:21:23
$L_{F(min)}$	32.3	2018/09/30 13:52:22	42.0	2018/09/30 13:52:19	44.2	2018/09/30 13:52:19
$L_{I(min)}$	32.6	2018/09/30 13:52:22	43.2	2018/09/30 13:52:19	46.8	2018/09/30 4:12:09
$L_{peak(max)}$	107.7	2018/09/30 9:02:48	106.8	2018/09/30 9:02:48	112.3	2018/09/29 16:01:31

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	5
OBA Overload Duration	10.1 s

Statistics

LAS5.00	47.6 dB
LAS10.00	46.6 dB
LAS33.30	44.1 dB
LAS50.00	42.9 dB
LAS66.60	41.9 dB
LAS90.00	40.2 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Calibration Change	2018-09-26	10:55:18									
2	Run	2018-09-26	10:56:30									
3		2018-09-26	10:56:30	43.9	104.2	104.2	43.8	42.3	40.9	40.3	39.9	38.8
4		2018-09-26	11:56:30	41.6	69.2	85.8	43.5	42.9	41.9	41.4	40.9	39.7
5		2018-09-26	12:56:30	41.6	69.9	96.6	43.6	43.0	41.9	41.4	40.7	39.0
6		2018-09-26	13:56:30	42.0	76.2	109.4	45.5	44.7	42.4	40.6	39.4	36.3
7		2018-09-26	14:56:30	43.8	76.6	107.6	45.8	45.3	44.1	43.5	42.9	41.9
8		2018-09-26	15:56:30	44.1	73.4	105.8	45.9	45.2	44.1	43.6	43.1	42.2
9		2018-09-26	16:56:30	44.1	71.4	107.8	46.5	45.5	44.1	43.6	43.2	42.3
10		2018-09-26	17:56:30	43.0	69.2	89.9	45.1	43.9	42.6	42.2	41.8	41.1
11		2018-09-26	18:56:30	47.6	72.8	81.8	49.5	49.3	48.4	47.6	47.2	43.5
12		2018-09-26	19:56:30	47.2	68.6	86.1	49.0	48.5	47.5	47.0	46.4	45.7
13		2018-09-26	20:56:30	47.4	68.0	73.2	49.4	49.0	47.7	47.0	46.6	45.7
14		2018-09-26	21:56:30	46.2	63.0	73.3	48.0	47.5	46.5	46.1	45.6	44.5
15		2018-09-26	22:56:30	46.0	77.0	76.3	48.4	47.5	45.8	45.2	44.5	43.2
16		2018-09-26	23:56:30	42.3	78.7	82.5	44.2	43.6	42.5	42.1	41.7	41.0
17		2018-09-27	0:56:30	44.2	70.7	73.1	46.4	45.6	44.4	43.9	43.3	42.3
18		2018-09-27	1:56:30	44.6	66.5	71.1	47.3	46.8	44.8	44.0	43.3	42.4
19		2018-09-27	2:56:30	45.4	66.9	70.4	47.9	47.3	45.7	44.9	44.3	43.1
20		2018-09-27	3:56:30	45.0	67.2	72.6	47.2	46.6	45.4	44.7	44.0	42.8
21		2018-09-27	4:56:30	44.8	76.0	77.6	47.5	46.8	45.1	44.3	43.5	42.4
22		2018-09-27	5:56:30	46.8	74.3	83.6	49.3	48.4	47.0	46.4	45.8	44.6
23		2018-09-27	6:56:30	46.7	78.7	84.4	49.0	48.2	46.9	46.3	45.8	44.9
24		2018-09-27	7:56:30	44.1	73.1	79.3	46.3	45.7	44.3	43.7	42.9	41.8
25		2018-09-27	8:56:30	43.9	100.8	103.4	44.7	43.5	42.1	41.6	41.1	40.4
26		2018-09-27	9:56:30	42.6	78.6	97.4	43.7	42.5	41.4	41.0	40.5	39.7
27		2018-09-27	10:56:30	41.4	73.5	85.3	42.9	41.8	40.4	39.8	39.2	37.9
28		2018-09-27	11:56:30	41.7	70.8	90.2	44.6	42.9	41.7	41.1	40.3	38.8
29		2018-09-27	12:56:30	44.1	76.6	90.0	44.3	43.0	41.8	41.3	40.7	38.8
30		2018-09-27	13:56:30	42.9	68.2	105.0	45.1	44.2	42.8	42.1	41.3	39.4
31		2018-09-27	14:56:30	43.1	72.9	103.8	45.0	44.2	42.9	42.3	41.8	40.9
32		2018-09-27	15:56:30	44.3	101.3	107.1	45.5	44.8	43.6	43.1	42.6	41.8
33		2018-09-27	16:56:30	44.0	71.3	105.5	46.3	45.1	43.7	43.2	42.7	41.8
34		2018-09-27	17:56:30	43.6	75.0	97.7	45.3	44.3	43.1	42.6	42.2	41.4
35		2018-09-27	18:56:30	47.8	81.4	91.0	49.0	48.6	48.1	47.7	47.4	44.3
36		2018-09-27	19:56:30	47.4	67.3	76.5	48.7	48.5	47.9	47.5	47.0	45.6
37		2018-09-27	20:56:30	46.8	67.3	79.7	48.2	47.8	47.1	46.8	46.3	45.0
38		2018-09-27	21:56:30	46.0	66.2	77.9	48.0	47.4	46.1	45.7	45.3	44.2
39		2018-09-27	22:56:30	45.0	68.5	70.8	47.6	46.9	45.4	44.7	44.0	42.2
40		2018-09-27	23:56:30	42.8	71.2	76.3	44.4	44.0	43.0	42.3	41.9	41.1
41		2018-09-28	0:56:30	42.4	73.4	74.1	44.0	43.5	42.6	42.2	41.7	40.9
42		2018-09-28	1:56:30	44.6	71.8	72.3	47.4	46.6	44.9	44.2	43.5	42.1
43		2018-09-28	2:56:30	45.0	68.4	68.6	47.1	46.6	45.3	44.7	44.1	42.8
44		2018-09-28	3:56:30	44.6	72.8	74.0	46.7	46.1	45.0	44.4	43.7	42.4
45		2018-09-28	4:56:30	45.6	73.0	74.4	49.4	47.3	44.8	44.2	43.6	42.8
46		2018-09-28	5:56:30	46.7	74.0	81.3	49.8	48.5	46.6	45.9	45.2	43.9
47		2018-09-28	6:56:30	47.7	106.3	106.2	50.2	49.3	47.2	46.3	45.6	44.5
48		2018-09-28	7:56:30	44.2	75.1	80.9	45.8	45.1	44.0	43.6	43.2	42.4
49		2018-09-28	8:56:30	41.6	79.0	87.4	43.6	42.6	41.3	40.7	40.1	39.1
50		2018-09-28	9:56:30	43.6	73.4	96.3	48.1	46.4	43.0	42.1	41.3	39.8
51		2018-09-28	10:56:30	42.9	79.4	100.6	45.1	44.1	42.5	41.8	41.2	39.9
52		2018-09-28	11:56:30	42.5	73.9	98.9	45.1	43.9	42.3	41.6	40.9	39.7
53		2018-09-28	12:56:30	43.8	70.6	109.6	47.0	46.3	44.0	43.1	42.2	40.9
54		2018-09-28	13:56:30	46.7	77.0	112.2	49.4	48.1	46.1	45.4	44.7	43.3
55		2018-09-28	14:56:30	46.8	103.9	110.5	49.8	48.3	45.9	45.1	44.3	43.1
56		2018-09-28	15:56:30	43.7	77.8	108.6	45.7	45.0	43.8	43.2	42.7	41.7
57		2018-09-28	16:56:30	43.7	73.2	104.3	45.9	45.0	43.6	43.0	42.5	41.5
58		2018-09-28	17:56:30	42.9	71.7	91.9	45.2	44.2	42.8	42.3	41.8	41.0
59		2018-09-28	18:56:30	44.6	65.9	88.5	46.0	45.6	44.8	44.5	44.1	43.3
60		2018-09-28	19:56:30	44.3	74.3	80.2	45.7	45.3	44.6	44.1	43.6	42.7
61		2018-09-28	20:56:30	43.0	62.7	77.9	44.9	44.4	43.3	42.8	42.3	41.3
62		2018-09-28	21:56:30	42.3	64.2	84.5	44.1	43.5	42.4	42.0	41.6	41.0
63		2018-09-28	22:56:30	41.7	61.9	69.2	43.0	42.6	41.9	41.5	41.2	40.6
64		2018-09-28	23:56:30	41.7	63.4	74.9	44.3	43.5	41.6	41.1	40.7	39.7
65		2018-09-29	0:56:30	42.2	71.0	88.4	43.5	43.2	42.4	42.1	41.8	41.2
66		2018-09-29	1:56:30	42.7	70.9	90.4	43.9	43.7	42.9	42.6	42.3	41.6
67		2018-09-29	2:56:30	42.8	58.9	91.0	43.9	43.7	43.1	42.8	42.4	41.5
68		2018-09-29	3:56:30	42.3	65.3	90.1	43.4	43.1	42.5	42.2	41.9	41.3
69		2018-09-29	4:56:30	41.6	59.7	91.2	43.0	42.6	41.8	41.4	41.0	40.3
70		2018-09-29	5:56:30	40.7	66.8	85.6	42.3	41.8	40.9	40.6	40.2	39.5
71		2018-09-29	6:56:30	40.8	71.1	86.4	42.7	42.1	41.0	40.4	39.9	38.9
72		2018-09-29	7:56:30	42.2	74.2	95.0	45.1	43.1	41.6	41.0	40.5	39.5
73		2018-09-29	8:56:30	44.1	105.3	105.3	49.0	44.2	41.7	41.0	40.5	39.4
74		2018-09-29	9:56:30	42.4	73.4	96.5	44.8	43.7	42.2	41.6	41.0	40.0

75		2018-09-29	10:56:30	43.1	76.6	90.7	45.4	44.0	41.9	41.1	40.4	38.8
76		2018-09-29	11:56:30	41.9	76.3	104.5	44.2	43.3	41.8	41.0	40.3	38.8
77		2018-09-29	12:56:30	41.7	71.1	102.0	44.9	44.0	41.9	41.0	40.0	37.2
78		2018-09-29	13:56:30	43.3	70.8	106.8	46.5	45.2	43.4	42.5	41.7	40.1
79		2018-09-29	14:56:30	42.6	74.7	108.5	45.9	44.8	42.8	41.8	40.7	39.1
80		2018-09-29	15:56:30	45.3	73.3	112.3	48.9	47.7	45.2	44.3	43.4	41.8
81		2018-09-29	16:56:30	43.1	71.8	106.5	45.2	44.6	43.4	42.8	42.2	41.2
82		2018-09-29	17:56:30	43.3	77.1	103.2	45.5	44.4	42.9	42.4	41.8	40.8
83		2018-09-29	18:56:30	45.0	68.5	102.7	46.4	46.1	45.5	45.1	44.7	43.1
84		2018-09-29	19:56:30	44.2	80.5	89.3	45.7	45.2	44.3	43.9	43.5	42.7
85		2018-09-29	20:56:30	42.8	63.9	84.7	44.1	43.8	43.0	42.6	42.2	41.5
86		2018-09-29	21:56:30	42.3	65.9	84.7	44.1	43.5	42.5	42.1	41.8	40.8
87		2018-09-29	22:56:30	43.7	61.9	74.5	46.2	45.4	44.1	43.3	42.6	41.0
88		2018-09-29	23:56:30	43.5	66.5	69.7	46.4	45.7	43.9	42.9	42.0	40.4
89		2018-09-30	0:56:30	43.3	62.3	69.7	45.8	45.2	43.5	42.8	42.1	40.5
90		2018-09-30	1:56:30	44.4	65.5	72.0	47.5	46.9	44.8	43.7	42.6	41.3
91		2018-09-30	2:56:30	42.5	72.1	71.2	44.7	44.2	42.7	41.9	41.5	40.7
92		2018-09-30	3:56:30	40.6	73.3	73.3	41.7	41.4	40.8	40.5	40.2	39.6
93		2018-09-30	4:56:30	40.3	56.7	73.6	41.2	41.0	40.6	40.3	40.1	39.5
94		2018-09-30	5:56:30	40.9	72.3	84.5	43.1	42.3	40.8	40.5	40.1	39.4
95		2018-09-30	6:56:30	41.1	69.2	80.3	42.8	42.0	41.1	40.8	40.4	39.7
96		2018-09-30	7:56:30	40.9	89.5	101.6	42.9	41.9	40.6	40.0	39.5	38.4
97		2018-09-30	8:56:30	49.0	107.7	107.4	51.0	45.9	41.7	41.0	40.4	39.5
98		2018-09-30	9:56:30	43.8	77.3	91.9	45.9	43.3	41.5	40.9	40.4	39.5
99		2018-09-30	10:56:30	43.2	74.7	93.8	46.8	44.3	41.8	41.1	40.5	39.4
100		2018-09-30	11:56:30	41.9	70.8	93.1	44.4	42.9	41.2	40.5	39.8	38.1
101		2018-09-30	12:56:30	41.7	73.4	96.3	46.1	43.7	40.9	39.9	38.9	37.3
102		2018-09-30	13:56:30	43.5	77.3	105.6	48.0	45.7	42.6	41.2	39.7	37.5
103		2018-09-30	14:56:30	43.9	75.3	108.9	46.7	45.7	43.7	42.8	42.0	40.6
104		2018-09-30	15:56:30	45.0	77.7	108.8	46.7	45.5	43.9	43.2	42.6	41.4
105		2018-09-30	16:56:30	42.7	69.3	103.4	44.7	43.9	42.8	42.3	41.8	40.9
106		2018-09-30	17:56:30	42.2	72.7	91.7	43.6	43.1	42.2	41.8	41.5	40.9
107		2018-09-30	18:56:30	46.0	65.9	90.6	47.1	46.9	46.4	46.1	45.7	44.3
108		2018-09-30	19:56:30	45.3	68.8	105.4	47.0	46.6	45.4	45.0	44.6	44.0
109		2018-09-30	20:56:30	44.9	71.5	76.8	47.7	46.2	44.6	44.2	43.7	42.9
110		2018-09-30	21:56:30	43.5	71.2	82.6	45.4	45.1	44.2	43.6	42.6	41.1
111		2018-09-30	22:56:30	43.4	70.2	74.1	46.1	45.4	43.9	42.8	41.8	40.5
112		2018-09-30	23:56:30	44.0	62.7	69.5	45.7	45.3	44.4	43.8	43.2	42.2
113		2018-10-01	0:56:30	45.4	70.5	71.0	47.5	47.0	45.7	45.1	44.5	43.4
114		2018-10-01	1:56:30	44.9	76.7	75.6	47.6	46.6	45.2	44.5	43.4	41.8
115		2018-10-01	2:56:30	44.5	64.4	80.9	46.7	46.3	45.0	44.2	43.6	42.2
116		2018-10-01	3:56:30	43.3	62.3	81.6	45.9	45.3	43.8	42.7	42.0	40.7
117		2018-10-01	4:56:30	44.9	69.7	75.0	47.8	47.1	45.1	44.2	43.5	42.3
118		2018-10-01	5:56:30	45.8	73.8	84.1	49.3	48.0	46.0	44.9	43.9	42.5
119		2018-10-01	6:56:30	46.4	72.8	81.5	49.2	48.2	46.5	45.8	45.2	44.1
120		2018-10-01	7:56:30	44.2	68.5	78.2	46.3	45.8	44.5	43.9	43.3	42.4
121		2018-10-01	8:56:30	42.0	69.7	80.1	45.1	43.4	41.8	40.9	40.3	39.0
122		2018-10-01	9:56:30	44.4	84.0	104.0	50.6	48.6	40.4	39.1	38.4	37.6
123	Stop	2018-10-01	10:00:41									

Summary	
File Name	NSA3.001
Serial Number	0003558
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	OS_4
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-26 11:04:22
Stop	2018-10-01 09:54:49
Duration	118:50:27.594
Run Time	118:50:27.594
Pause	00:00:00.0
Pre Calibration	2018-09-26 11:03:57
Post Calibration	None
Calibration Deviation	—

Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRM831			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Gain	0.0	dB		
Overload	143.7	dB		
	A		C	Z
Under Range Peak	76.1		73.1	78.1 dB
Under Range Limit	26.2		26.5	32.1 dB
Noise Floor	17.1		17.4	22.7 dB

Results				
L_{Aeq}	47.5 dB			
LAE	118.6 dB			
EA	80.230 mPa^2h			
$L_{Zpeak (max)}$	2018-10-01 09:54:47	138.5 dB		
L_{ASmax}	2018-10-01 09:54:49	113.8 dB		
L_{ASmin}	2018-09-26 14:11:02	38.7 dB		
SEA	151.5 dB			
LAS > 50.0 dB (Exceedance Counts / Duration)	6446	57311.5 s		
LAS > 55.0 dB (Exceedance Counts / Duration)	2435	13866.8 s		
L_{Zpeak} > 135.0 dB (Exceedance Counts / Duration)	1	1.2 s		
L_{Zpeak} > 137.0 dB (Exceedance Counts / Duration)	1	1.2 s		
L_{Zpeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s		
Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	
	52.0	48.7	44.7	dB
LCeq	64.6 dB			
LAeq	62.3 dB			
LCeq - LAeq	2.3 dB			
LAIeq	62.5 dB			
LAeq	62.3 dB			
LAIeq - LAeq	0.2 dB			

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	62.3		64.6		75.7	
$L_{S(max)}$	113.8	2018/10/01 9:54:49	114.0	2018/10/01 9:54:49	121.7	2018/10/01 9:54:48
$L_{F(max)}$	115.1	2018/10/01 9:54:47	119.1	2018/10/01 9:54:47	128.9	2018/10/01 9:54:47
$L_{I(max)}$	115.7	2018/10/01 9:54:47	122.3	2018/10/01 9:54:47	132.6	2018/10/01 9:54:47
$L_{S(min)}$	38.7	2018/09/26 14:11:02	49.3	2018/09/30 12:53:01	51.0	2018/09/30 0:40:23
$L_{F(min)}$	37.9	2018/09/26 14:10:59	48.1	2018/09/27 14:03:34	49.5	2018/09/27 13:57:39
$L_{I(min)}$	38.3	2018/09/26 14:10:59	49.4	2018/09/30 12:54:11	51.1	2018/09/30 0:42:14
$L_{Peak(max)}$	123.0	2018/10/01 9:54:47	133.4	2018/10/01 9:54:47	138.5	2018/10/01 9:54:47

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	13
OBA Overload Duration	28.3 s

Statistics	
LAS5.00	52.7 dB
LAS10.00	50.2 dB
LAS33.30	44.6 dB
LAS50.00	43.6 dB
LAS66.60	43.0 dB
LAS90.00	42.1 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Calibration Change	2018-09-26	11:03:57									
2	Run	2018-09-26	11:04:22									
3		2018-09-26	11:04:22	49.6	106.5	104.1	54.6	53.5	46.0	43.4	42.5	41.4
4		2018-09-26	12:04:22	48.7	85.7	91.7	53.2	50.7	45.8	44.5	43.9	42.9
5		2018-09-26	13:04:22	47.9	80.5	95.6	52.8	50.6	45.2	43.7	42.9	41.4
6		2018-09-26	14:04:22	49.3	81.3	108.4	54.9	52.8	47.6	45.1	44.0	42.3
7		2018-09-26	15:04:22	50.0	102.0	109.1	55.2	52.8	47.4	45.1	44.0	42.8
8		2018-09-26	16:04:22	50.2	79.4	108.2	56.1	53.9	48.5	45.2	43.8	42.7
9		2018-09-26	17:04:22	51.1	83.7	103.3	56.5	54.5	49.6	46.5	44.6	43.1
10		2018-09-26	18:04:22	48.7	80.4	94.2	54.0	52.1	45.6	43.4	42.9	42.3
11		2018-09-26	19:04:22	48.7	80.9	90.2	53.7	51.3	46.1	45.5	45.2	44.3
12		2018-09-26	20:04:22	47.2	81.4	86.8	51.7	49.3	44.9	44.5	44.2	43.8
13		2018-09-26	21:04:22	46.9	80.7	82.8	51.2	48.6	45.1	44.7	44.4	43.8
14		2018-09-26	22:04:22	45.4	73.5	83.5	47.1	45.4	44.8	44.6	44.4	44.0
15		2018-09-26	23:04:22	44.8	73.9	81.0	46.6	44.8	44.1	43.9	43.7	43.3
16		2018-09-27	0:04:22	43.2	68.7	78.4	43.8	43.6	43.2	43.0	42.9	42.5
17		2018-09-27	1:04:22	43.7	76.6	79.1	43.7	43.4	43.1	42.9	42.7	42.3
18		2018-09-27	2:04:22	42.6	63.8	71.8	43.2	43.0	42.7	42.5	42.3	42.0
19		2018-09-27	3:04:22	43.1	72.9	79.6	43.8	43.5	42.7	42.3	42.0	41.5
20		2018-09-27	4:04:22	44.4	74.0	81.0	46.5	43.7	42.7	42.3	42.0	41.7
21		2018-09-27	5:04:22	45.8	71.9	79.6	50.9	47.7	44.0	43.4	43.0	42.5
22		2018-09-27	6:04:22	50.0	79.5	85.7	55.9	53.4	47.1	45.5	44.8	44.2
23		2018-09-27	7:04:22	51.0	83.9	88.0	55.6	54.0	50.0	47.9	46.5	45.3
24		2018-09-27	8:04:22	48.9	79.5	84.2	53.7	51.6	46.4	45.0	44.3	43.6
25		2018-09-27	9:04:22	48.9	101.3	101.7	54.0	51.4	45.8	43.5	42.7	41.9
26		2018-09-27	10:04:22	48.1	83.2	94.6	52.6	50.0	44.2	42.4	41.8	41.2
27		2018-09-27	11:04:22	48.0	83.0	88.5	52.9	50.7	44.4	42.6	41.7	40.7
28		2018-09-27	12:04:22	47.8	76.1	88.6	52.8	50.6	45.5	44.3	43.8	43.0
29		2018-09-27	13:04:22	48.5	79.3	86.7	54.0	51.3	45.3	43.9	43.0	41.5
30		2018-09-27	14:04:22	49.3	84.2	107.8	54.9	52.6	47.0	44.4	43.4	42.2
31		2018-09-27	15:04:22	49.3	79.8	105.0	55.1	53.0	47.6	44.4	43.0	42.0
32		2018-09-27	16:04:22	51.2	101.2	104.8	57.0	54.4	48.6	45.3	43.6	42.6
33		2018-09-27	17:04:22	50.5	82.5	101.6	56.2	53.9	48.4	45.1	43.6	42.7
34		2018-09-27	18:04:22	49.0	81.5	99.1	54.3	52.3	46.2	44.1	43.5	42.8
35		2018-09-27	19:04:22	47.8	78.1	97.9	52.5	50.4	45.9	45.4	45.0	44.6
36		2018-09-27	20:04:22	47.1	75.8	88.3	51.7	49.1	44.6	44.2	43.9	43.5
37		2018-09-27	21:04:22	46.4	77.9	92.3	50.2	47.0	44.3	44.0	43.7	43.4
38		2018-09-27	22:04:22	45.3	73.5	83.5	48.1	45.8	44.3	44.1	43.8	43.3
39		2018-09-27	23:04:22	44.2	74.0	78.5	45.5	44.3	43.6	43.4	43.2	42.8
40		2018-09-28	0:04:22	44.1	79.0	86.0	43.6	43.2	42.8	42.7	42.6	42.3
41		2018-09-28	1:04:22	42.4	67.2	73.8	42.9	42.7	42.4	42.2	42.1	41.7
42		2018-09-28	2:04:22	42.6	68.5	83.1	43.2	42.9	42.4	42.1	42.0	41.7
43		2018-09-28	3:04:22	42.2	68.3	74.6	42.5	42.3	42.1	41.9	41.8	41.5
44		2018-09-28	4:04:22	43.2	78.7	80.4	44.4	43.6	42.8	42.5	42.3	41.8
45		2018-09-28	5:04:22	46.4	77.1	80.0	51.6	48.4	43.6	42.9	42.6	42.3
46		2018-09-28	6:04:22	48.8	76.7	86.8	54.5	52.1	46.3	44.9	44.3	43.5
47		2018-09-28	7:04:22	50.7	100.2	99.0	55.6	54.0	49.8	47.0	45.6	44.4
48		2018-09-28	8:04:22	50.5	89.8	96.7	54.7	52.3	47.0	45.7	45.1	44.2
49		2018-09-28	9:04:22	48.2	80.8	88.0	53.0	50.9	45.2	43.8	43.1	42.1
50		2018-09-28	10:04:22	48.2	84.9	97.2	53.9	51.0	44.9	43.5	42.8	42.0
51		2018-09-28	11:04:22	48.9	80.8	99.1	54.1	51.6	46.0	44.0	43.3	42.3
52		2018-09-28	12:04:22	48.9	79.3	98.9	54.4	52.1	46.7	44.6	43.6	42.6
53		2018-09-28	13:04:22	49.3	80.0	114.5	54.8	52.5	47.1	45.1	43.9	42.7
54		2018-09-28	14:04:22	50.6	84.4	111.5	55.7	53.9	49.6	47.4	45.9	44.2
55		2018-09-28	15:04:22	51.4	101.8	113.6	56.5	54.5	49.9	47.5	45.9	44.4
56		2018-09-28	16:04:22	50.0	81.0	107.3	55.5	53.3	48.1	45.9	44.9	43.9
57		2018-09-28	17:04:22	50.1	79.8	102.6	55.9	54.0	48.8	45.6	44.3	42.8
58		2018-09-28	18:04:22	48.7	81.3	94.4	54.4	52.3	46.6	43.7	43.0	42.3
59		2018-09-28	19:04:22	46.9	74.7	94.7	52.1	49.8	44.1	43.6	43.3	42.9
60		2018-09-28	20:04:22	47.6	90.4	97.0	51.4	49.1	43.9	43.6	43.4	43.0
61		2018-09-28	21:04:22	47.4	75.8	84.1	52.6	50.1	44.5	43.8	43.4	43.1
62		2018-09-28	22:04:22	45.9	73.5	87.3	51.3	48.0	43.5	43.0	42.7	42.3
63		2018-09-28	23:04:22	44.0	73.6	80.5	46.9	43.5	42.4	42.3	42.1	41.9
64		2018-09-29	0:04:22	44.1	78.5	85.6	45.3	43.3	42.5	42.3	42.2	41.9
65		2018-09-29	1:04:22	42.9	69.7	86.7	43.4	43.2	42.8	42.6	42.5	42.2
66		2018-09-29	2:04:22	42.9	67.0	89.7	43.3	43.1	42.7	42.5	42.4	42.0
67		2018-09-29	3:04:22	43.2	66.2	89.3	43.6	43.4	43.1	42.9	42.7	42.4
68		2018-09-29	4:04:22	43.6	75.2	88.7	43.7	43.5	43.2	43.0	42.8	42.5
69		2018-09-29	5:04:22	44.7	76.2	93.4	46.3	44.2	43.3	43.1	42.9	42.6
70		2018-09-29	6:04:22	45.6	75.6	87.2	50.7	47.6	43.0	42.7	42.6	42.3
71		2018-09-29	7:04:22	46.1	81.9	89.5	50.6	48.1	43.6	43.1	42.8	42.4
72		2018-09-29	8:04:22	48.7	104.4	104.3	52.9	50.7	44.3	43.1	42.6	41.9
73		2018-09-29	9:04:22	49.2	82.0	97.3	54.4	51.9	46.5	44.2	43.3	42.4
74		2018-09-29	10:04:22	48.6	82.6	97.6	53.5	51.2	45.6	43.6	42.8	42.1

75		2018-09-29	11:04:22	47.9	75.8	98.3	53.6	51.0	45.7	44.2	43.2	42.0
76		2018-09-29	12:04:22	46.8	75.7	100.9	51.4	49.8	45.1	43.7	43.1	42.2
77		2018-09-29	13:04:22	47.5	78.0	107.9	51.9	49.9	45.4	44.1	43.4	42.3
78		2018-09-29	14:04:22	47.2	81.1	104.5	51.7	49.9	45.6	44.3	43.7	42.8
79		2018-09-29	15:04:22	47.6	78.1	106.5	52.4	50.5	45.7	44.4	43.6	42.6
80		2018-09-29	16:04:22	48.7	83.6	107.4	53.5	51.3	46.5	44.8	44.1	43.4
81		2018-09-29	17:04:22	48.2	84.4	110.9	53.4	51.5	46.0	44.5	43.9	43.2
82		2018-09-29	18:04:22	46.7	72.6	102.0	52.0	49.9	44.7	43.9	43.4	42.9
83		2018-09-29	19:04:22	47.1	76.3	96.4	52.0	50.1	44.8	44.3	44.0	43.6
84		2018-09-29	20:04:22	46.5	83.3	95.3	50.9	48.4	44.1	43.6	43.3	42.8
85		2018-09-29	21:04:22	45.7	74.8	86.2	50.3	47.9	43.9	43.6	43.3	42.7
86		2018-09-29	22:04:22	46.8	78.5	90.2	51.3	48.4	43.7	43.3	43.0	42.5
87		2018-09-29	23:04:22	43.9	74.4	77.3	46.7	44.5	43.3	43.0	42.8	42.2
88		2018-09-30	0:04:22	43.1	74.5	80.7	44.7	43.1	42.3	42.1	41.9	41.6
89		2018-09-30	1:04:22	42.4	67.3	74.3	43.1	42.8	42.4	42.2	41.9	41.4
90		2018-09-30	2:04:22	44.0	80.2	85.6	44.2	43.8	42.9	42.6	42.3	41.9
91		2018-09-30	3:04:22	41.9	77.1	76.8	42.6	42.4	42.0	41.8	41.7	41.3
92		2018-09-30	4:04:22	42.0	68.5	76.6	42.5	42.4	42.1	42.0	41.8	41.6
93		2018-09-30	5:04:22	43.0	71.1	76.1	43.2	43.0	42.8	42.6	42.5	42.2
94		2018-09-30	6:04:22	43.7	70.2	79.1	46.1	43.4	42.8	42.7	42.6	42.4
95		2018-09-30	7:04:22	44.9	73.5	82.0	49.3	46.3	43.0	42.6	42.4	42.1
96		2018-09-30	8:04:22	45.9	77.1	87.2	51.0	48.7	43.7	43.0	42.5	41.9
97		2018-09-30	9:04:22	49.3	106.2	106.6	54.1	51.3	45.4	43.5	42.7	41.9
98		2018-09-30	10:04:22	48.3	78.4	95.6	54.0	51.4	44.8	43.2	42.4	41.6
99		2018-09-30	11:04:22	47.8	77.8	91.8	53.4	51.1	45.3	43.2	42.4	41.4
100		2018-09-30	12:04:22	47.4	81.7	89.7	52.5	50.3	45.0	43.2	42.4	41.6
101		2018-09-30	13:04:22	46.9	79.8	99.7	52.0	49.7	44.4	42.8	42.1	41.2
102		2018-09-30	14:04:22	48.1	77.9	104.3	53.6	51.6	46.4	44.5	43.6	42.6
103		2018-09-30	15:04:22	48.1	83.8	114.6	53.4	51.2	46.2	44.6	43.7	42.7
104		2018-09-30	16:04:22	47.6	76.4	104.7	52.7	50.7	45.8	44.6	44.1	43.2
105		2018-09-30	17:04:22	48.5	82.5	103.5	53.7	51.2	45.2	44.1	43.7	43.1
106		2018-09-30	18:04:22	47.5	81.6	92.3	52.1	49.8	44.3	43.5	43.1	42.7
107		2018-09-30	19:04:22	46.8	77.9	102.3	50.8	48.7	45.2	44.7	44.3	43.6
108		2018-09-30	20:04:22	45.8	76.0	99.4	50.9	47.9	44.3	43.7	43.3	42.6
109		2018-09-30	21:04:22	45.4	72.2	89.3	50.3	47.7	44.0	43.7	43.2	42.4
110		2018-09-30	22:04:22	44.3	73.2	78.7	45.7	44.5	44.0	43.6	43.2	42.7
111		2018-09-30	23:04:22	44.1	73.1	76.1	45.8	44.6	43.9	43.5	43.2	42.8
112		2018-10-01	0:04:22	44.1	72.7	79.9	45.3	44.8	43.7	43.4	43.1	42.7
113		2018-10-01	1:04:22	43.1	67.7	75.1	44.0	43.7	43.2	42.9	42.7	42.2
114		2018-10-01	2:04:22	42.9	65.6	76.1	44.1	43.6	43.0	42.7	42.4	41.9
115		2018-10-01	3:04:22	43.7	69.9	80.7	44.6	44.3	43.6	43.1	42.8	42.3
116		2018-10-01	4:04:22	44.1	75.1	81.9	44.9	43.8	42.9	42.8	42.6	42.2
117		2018-10-01	5:04:22	46.7	78.1	85.0	52.1	48.7	43.9	43.3	43.0	42.5
118		2018-10-01	6:04:22	49.2	82.0	85.6	54.1	52.0	46.5	45.2	44.6	43.8
119		2018-10-01	7:04:22	51.4	83.9	90.7	56.4	54.7	50.5	47.9	46.2	44.8
120		2018-10-01	8:04:22	49.6	85.4	89.7	54.6	52.2	46.8	45.2	44.5	43.3
122	Stop	2018-10-01	9:54:49									

Summary	
File Name	NSA1.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	NSA1
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-30 13:30:32
Stop	2018-09-30 13:47:39
Duration	00:17:07.0
Run Time	00:17:07.0
Pause	00:00:00.0
Pre Calibration	2018-09-30 13:26:10
Post Calibration	None
Calibration Deviation	---

Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRM831			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Gain	0.0 dB			
Overload	143.3 dB			
	A	C	Z	
Under Range Peak	75.8	72.8	77.8	dB
Under Range Limit	26.2	26.4	31.8	dB
Noise Floor	17.0	17.3	22.5	dB

Results		
LAeq	48.1 dB	
LAE	78.3 dB	
EA	7.429 µPa²h	
LZ_{peak} (max)	2018-09-30 13:46:37	92.2 dB
LAS_{max}	2018-09-30 13:33:13	69.8 dB
LAS_{min}	2018-09-30 13:42:38	36.2 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	18	52.7 s
LAS > 55.0 dB (Exceedance Counts / Duration)	2	15.5 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	48.1	48.1	-99.9	48.1	48.1	-99.9	-99.9	dB

LCeq	57.4 dB
LAeq	48.1 dB
LCeq - LAeq	9.2 dB
LAIeq	51.3 dB
LAeq	48.1 dB
LAIeq - LAeq	3.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	48.1		57.4		69.9	
LS(max)	69.8	2018/09/30 13:33:13	77.5	2018/09/30 13:33:12	84.3	2018/09/30 13:34:17
LF(max)	70.9	2018/09/30 13:33:12	79.1	2018/09/30 13:33:12	88.4	2018/09/30 13:46:37
LI(max)	71.7	2018/09/30 13:33:12	79.8	2018/09/30 13:33:12	90.4	2018/09/30 13:46:37
LS(min)	36.2	2018/09/30 13:42:38	44.5	2018/09/30 13:36:53	49.7	2018/09/30 13:41:42
LF(min)	34.4	2018/09/30 13:42:37	42.9	2018/09/30 13:36:23	46.5	2018/09/30 13:36:34
LI(min)	36.8	2018/09/30 13:45:04	44.6	2018/09/30 13:36:51	50.6	2018/09/30 13:36:35
Lpeak(max)	85.8	2018/09/30 13:33:11	89.2	2018/09/30 13:33:12	92.2	2018/09/30 13:46:37

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	48.9 dB
LAS10.00	46.9 dB
LAS33.30	43.4 dB
LAS50.00	42.2 dB
LAS66.60	41.3 dB
LAS90.00	39.7 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Run	2018-09-30	13:30:32									
2		2018-09-30	13:30:32	42.2	67.5	82.3	42.9	42.7	42.3	41.8	41.6	40.7
3		2018-09-30	13:30:42	41.0	64.3	83.5	42.9	42.7	41.9	41.0	40.7	40.1
4		2018-09-30	13:30:52	43.0	61.6	81.3	46.5	45.7	43.2	42.0	41.1	40.3
5		2018-09-30	13:31:02	41.0	61.6	85.5	44.2	43.4	40.3	39.8	39.4	38.8
6		2018-09-30	13:31:12	40.6	59.0	86.9	42.7	42.3	40.9	40.5	40.3	39.7
7		2018-09-30	13:31:22	43.0	63.5	88.6	44.9	44.4	43.0	42.6	42.1	41.4
8		2018-09-30	13:31:32	44.9	73.1	80.9	48.7	47.3	45.3	43.9	43.0	42.6
9		2018-09-30	13:31:42	43.2	68.0	81.8	46.2	45.2	43.3	42.8	42.3	41.0
10		2018-09-30	13:31:52	40.9	58.1	85.9	42.1	41.9	41.2	40.9	40.5	39.9
11		2018-09-30	13:32:02	41.5	63.8	84.8	42.8	42.4	41.6	41.2	40.9	40.3
12		2018-09-30	13:32:12	41.4	59.0	76.5	42.7	42.5	41.9	41.3	40.7	40.0
13		2018-09-30	13:32:22	43.5	61.1	81.2	44.9	44.8	43.8	42.8	42.3	41.8
14		2018-09-30	13:32:32	42.5	56.8	86.7	43.3	43.1	42.7	42.6	42.5	41.7
15		2018-09-30	13:32:42	43.7	71.7	83.7	47.5	46.0	43.2	42.5	42.1	41.5
16		2018-09-30	13:32:52	48.2	69.7	85.6	49.4	49.0	48.8	47.9	47.0	43.5
17		2018-09-30	13:33:02	64.1	85.8	89.4	68.6	67.6	61.2	57.9	54.9	51.8
18		2018-09-30	13:33:12	62.3	82.2	91.6	69.7	69.4	64.0	59.8	54.5	49.0
19		2018-09-30	13:33:22	42.8	56.8	78.0	46.0	45.4	43.5	42.7	42.5	42.3
20		2018-09-30	13:33:32	44.7	62.5	71.2	45.7	45.7	44.5	44.3	44.0	42.7
21		2018-09-30	13:33:42	47.0	61.1	81.9	47.9	47.5	47.1	46.8	46.7	45.6
22		2018-09-30	13:33:52	46.4	63.8	75.7	47.9	47.9	46.9	46.4	46.0	45.8
23		2018-09-30	13:34:02	43.5	64.3	82.8	45.6	45.2	44.4	44.0	43.4	41.8
24		2018-09-30	13:34:12	41.2	65.7	91.6	42.0	41.8	41.4	41.2	41.1	40.4
25		2018-09-30	13:34:22	42.4	64.1	83.9	44.3	44.0	43.2	42.6	41.7	40.3
26		2018-09-30	13:34:32	43.0	73.7	84.2	46.9	45.2	41.9	41.4	40.0	38.8
27		2018-09-30	13:34:42	47.0	75.2	80.4	50.4	50.3	46.0	45.3	43.7	42.5
28		2018-09-30	13:34:52	45.9	66.7	78.3	49.4	48.5	47.5	46.7	44.9	42.8
29		2018-09-30	13:35:02	44.4	67.4	70.0	48.6	47.3	44.0	43.2	42.8	41.9
30		2018-09-30	13:35:12	43.5	67.7	71.1	46.0	45.5	43.5	42.8	42.2	41.7
31		2018-09-30	13:35:22	48.6	73.1	84.2	51.6	50.8	48.5	47.3	45.5	41.4
32		2018-09-30	13:35:32	48.9	69.6	82.6	52.7	52.4	50.4	49.1	47.6	44.2
33		2018-09-30	13:35:42	42.3	64.1	73.8	44.5	43.5	42.3	41.8	41.2	40.7
34		2018-09-30	13:35:52	44.5	71.1	79.5	49.6	47.9	43.0	42.4	42.1	41.3
35		2018-09-30	13:36:02	46.9	75.9	84.5	53.3	51.5	45.1	43.8	42.2	40.6
36		2018-09-30	13:36:12	38.6	69.8	72.6	39.8	39.4	38.8	38.7	38.6	38.3
37		2018-09-30	13:36:22	39.6	59.0	73.8	40.7	40.4	39.8	39.6	39.5	38.2
38		2018-09-30	13:36:32	41.6	63.5	70.8	44.3	44.0	41.6	41.0	40.3	39.3
39		2018-09-30	13:36:42	40.2	58.1	69.8	40.8	40.8	40.5	40.2	39.9	39.7
40		2018-09-30	13:36:52	39.4	55.1	68.6	40.7	40.3	39.8	39.5	39.0	38.5
41		2018-09-30	13:37:02	40.6	56.8	76.9	41.3	41.1	40.8	40.6	40.3	38.8
42		2018-09-30	13:37:12	45.2	65.7	78.8	46.9	46.4	45.4	44.7	43.9	42.8
43		2018-09-30	13:37:22	45.9	65.5	78.3	48.5	48.2	46.8	46.0	44.0	42.0
44		2018-09-30	13:37:32	43.0	65.8	68.7	46.1	45.5	43.0	42.1	41.4	40.1
45		2018-09-30	13:37:42	46.2	69.3	71.0	49.3	48.8	46.5	45.3	44.6	43.2
46		2018-09-30	13:37:52	41.8	64.3	73.6	45.7	44.7	42.2	41.6	41.0	39.8
47		2018-09-30	13:38:02	45.3	80.3	79.6	50.5	49.3	44.7	43.7	41.3	39.7
48		2018-09-30	13:38:12	46.8	73.7	77.1	51.7	49.9	46.1	43.9	43.3	42.7
49		2018-09-30	13:38:22	50.1	79.3	85.7	56.7	54.9	47.3	46.5	45.8	44.2
50		2018-09-30	13:38:32	44.1	79.0	76.8	47.3	46.9	45.5	44.2	41.7	41.2
51		2018-09-30	13:38:42	41.0	70.0	69.7	42.1	41.9	41.3	41.1	40.9	40.3
52		2018-09-30	13:38:52	38.7	61.6	74.6	39.9	39.7	39.3	38.8	38.4	38.0
53		2018-09-30	13:39:02	39.9	58.1	79.2	41.2	40.9	40.2	39.4	39.1	38.1
54		2018-09-30	13:39:12	43.9	62.5	71.9	47.1	46.4	43.9	43.0	42.4	41.0
55		2018-09-30	13:39:22	44.5	71.3	79.1	49.8	43.1	42.0	41.3	41.2	40.9
56		2018-09-30	13:39:32	44.3	62.5	72.7	47.5	46.6	45.3	44.8	44.5	43.6
57		2018-09-30	13:39:42	41.4	58.1	72.3	42.6	42.4	41.8	41.5	41.2	40.9
58		2018-09-30	13:39:52	41.8	61.1	78.1	43.3	43.0	41.9	41.6	41.3	40.7
59		2018-09-30	13:40:02	42.4	59.0	74.7	43.3	43.2	42.6	42.3	42.1	41.7
60		2018-09-30	13:40:12	45.4	75.5	79.9	51.5	49.9	44.0	42.2	41.5	40.4
61		2018-09-30	13:40:22	40.4	59.0	81.9	41.8	41.3	40.5	40.0	39.9	39.6
62		2018-09-30	13:40:32	45.8	75.5	82.2	50.4	49.6	41.9	41.1	40.7	40.5
63		2018-09-30	13:40:42	41.6	59.0	77.7	48.4	46.9	43.0	42.4	41.4	40.5
64		2018-09-30	13:40:52	43.6	59.0	76.1	46.0	45.8	44.1	43.3	42.3	41.1
65		2018-09-30	13:41:02	42.1	61.1	73.6	43.6	43.3	42.3	42.0	41.7	41.1
66		2018-09-30	13:41:12	42.5	59.8	69.0	44.5	44.4	42.3	42.1	41.8	41.4
67		2018-09-30	13:41:22	40.7	61.1	69.3	41.8	41.5	41.0	40.8	40.4	39.7
68		2018-09-30	13:41:32	41.0	55.1	66.2	42.3	41.9	41.1	40.9	40.7	40.3
69		2018-09-30	13:41:42	41.3	56.8	68.7	42.4	42.2	41.7	41.2	40.4	39.8
70		2018-09-30	13:41:52	44.3	63.5	76.5	46.4	45.5	44.5	44.0	43.0	41.7
71		2018-09-30	13:42:02	42.7	59.0	76.5	44.3	43.8	43.2	42.9	42.6	42.1
72		2018-09-30	13:42:12	43.1	59.0	78.9	44.7	44.3	43.7	43.3	42.4	41.5
73		2018-09-30	13:42:22	42.8	67.1	78.3	44.2	43.5	41.7	41.5	41.2	40.2
74		2018-09-30	13:42:32	44.6	76.4	83.0	51.2	49.4	43.0	40.7	39.6	37.1

75		2018-09-30	13:42:42	45.2	70.6	78.3	49.2	48.6	46.2	45.0	43.1	40.1
76		2018-09-30	13:42:52	45.0	74.7	74.2	49.2	48.2	42.6	41.9	40.9	40.2
77		2018-09-30	13:43:02	44.0	59.0	73.7	47.8	46.2	45.1	44.5	44.0	43.3
78		2018-09-30	13:43:12	44.0	62.5	75.8	45.9	45.7	44.6	43.8	42.6	41.4
79		2018-09-30	13:43:22	39.9	56.8	67.2	43.8	42.5	41.0	40.2	39.8	38.4
80		2018-09-30	13:43:32	42.1	56.8	67.4	43.0	42.9	42.5	42.1	41.4	40.6
81		2018-09-30	13:43:42	44.4	63.2	75.0	45.6	45.3	44.8	44.3	43.6	42.4
82		2018-09-30	13:43:52	44.9	63.5	75.8	46.3	46.1	45.0	44.7	44.3	43.6
83		2018-09-30	13:44:02	45.1	62.0	76.4	47.1	46.5	45.8	45.6	45.1	43.0
84		2018-09-30	13:44:12	43.2	60.5	73.8	45.3	45.1	43.9	43.3	42.0	40.5
85		2018-09-30	13:44:22	41.4	59.0	77.4	44.0	43.2	41.4	40.9	40.4	40.0
86		2018-09-30	13:44:32	42.1	60.5	75.1	44.3	43.6	42.1	41.7	41.3	40.6
87		2018-09-30	13:44:42	38.8	55.1	75.2	42.0	41.3	39.2	38.9	38.6	37.7
88		2018-09-30	13:44:52	40.2	59.0	72.3	41.7	41.4	40.0	39.7	39.5	38.9
89		2018-09-30	13:45:02	38.2	52.0	73.6	39.3	39.0	38.5	38.1	37.6	36.9
90		2018-09-30	13:45:12	40.0	58.1	87.9	42.1	41.7	40.2	39.8	39.4	38.9
91		2018-09-30	13:45:22	41.6	59.8	89.0	42.7	42.5	40.9	40.2	39.2	38.1
92		2018-09-30	13:45:32	41.1	62.0	81.5	44.6	43.7	42.0	41.8	41.0	39.0
93		2018-09-30	13:45:42	39.9	60.5	77.5	41.2	41.0	40.4	39.9	39.5	38.5
94		2018-09-30	13:45:52	42.1	58.1	81.0	43.5	43.3	42.3	42.0	41.6	40.1
95		2018-09-30	13:46:02	42.8	56.8	85.9	44.3	44.2	42.8	41.6	41.3	41.0
96		2018-09-30	13:46:12	42.4	58.1	82.1	45.7	45.3	43.2	42.0	41.1	40.6
97		2018-09-30	13:46:22	40.8	55.1	88.7	42.1	41.8	41.1	40.8	40.5	39.9
98		2018-09-30	13:46:32	42.7	59.0	92.2	46.1	45.6	43.4	40.3	40.0	39.4
99		2018-09-30	13:46:42	42.3	59.0	88.4	45.5	44.8	42.5	41.9	41.4	39.9
100		2018-09-30	13:46:52	40.4	56.8	88.8	41.9	41.5	40.3	39.9	39.7	39.5
101		2018-09-30	13:47:02	44.4	59.0	91.5	47.5	47.1	45.1	43.6	42.0	40.9
102		2018-09-30	13:47:12	47.7	76.7	88.7	49.6	49.5	48.0	47.4	43.4	42.1
103		2018-09-30	13:47:22	46.6	66.7	82.5	51.3	51.0	46.4	45.1	44.6	44.0
104		2018-09-30	13:47:32	45.0	68.1	89.4	46.4	46.3	44.7	44.2	44.0	43.7
105	Stop	2018-09-30	13:47:39									

Summary	
File Name	NSA3.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	NSA3
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-30 11:10:49
Stop	2018-09-30 11:25:52
Duration	00:15:03.3
Run Time	00:15:03.3
Pause	00:00:00.0
Pre Calibration	2018-09-30 11:10:19
Post Calibration	None
Calibration Deviation	---

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.4 dB		
	A	C	Z
Under Range Peak	75.9	72.9	77.9 dB
Under Range Limit	26.2	26.4	31.9 dB
Noise Floor	17.0	17.3	22.5 dB

Results		
L_{Aeq}	46.3 dB	
L_{AE}	75.9 dB	
E_A	4.307 µPa²h	
$L_{Zpeak\ (max)}$	2018-09-30 11:20:41	86.0 dB
L_{ASmax}	2018-09-30 11:23:31	56.7 dB
L_{ASmin}	2018-09-30 11:17:38	37.0 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	35	137.5 s
LAS > 55.0 dB (Exceedance Counts / Duration)	3	6.3 s
L_{Zpeak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Zpeak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Zpeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	46.3	46.3	-99.9	46.3	46.3	-99.9	-99.9	dB

L_{Ceq}	55.5 dB
L_{Aeq}	46.3 dB
L_{Ceq} - L_{Aeq}	9.1 dB
L_{AIeq}	55.3 dB
L_{Aeq}	46.3 dB
L_{AIeq} - L_{Aeq}	9.0 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
L_{eq}	46.3		55.5		65.8	
$L_{S(max)}$	56.7	2018/09/30 11:23:31	67.2	2018/09/30 11:11:54	76.7	2018/09/30 11:20:41
$L_{F(max)}$	64.1	2018/09/30 11:23:31	68.4	2018/09/30 11:11:54	81.7	2018/09/30 11:20:41
$L_{I(max)}$	68.7	2018/09/30 11:23:31	78.0	2018/09/30 11:10:49	83.4	2018/09/30 11:20:41
$L_{S(min)}$	37.0	2018/09/30 11:17:38	47.1	2018/09/30 11:25:27	53.7	2018/09/30 11:25:14
$L_{F(min)}$	33.0	2018/09/30 11:24:04	45.1	2018/09/30 11:25:03	49.8	2018/09/30 11:25:14
$L_{I(min)}$	37.0	2018/09/30 11:12:30	48.3	2018/09/30 11:25:30	56.1	2018/09/30 11:25:38
$L_{Peak(max)}$	78.1	2018/09/30 11:13:54	81.6	2018/09/30 11:13:52	86.0	2018/09/30 11:20:41

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	51.1 dB
LAS10.00	49.8 dB
LAS33.30	46.3 dB
LAS50.00	44.4 dB
LAS66.60	42.6 dB
LAS90.00	39.9 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Calibration Change	2018-09-30	11:10:19									
2	Run	2018-09-30	11:10:49									
3		2018-09-30	11:10:49	42.2	65.7	80.7	45.6	44.9	43.4	42.6	42.2	41.2
4		2018-09-30	11:10:59	41.2	63.9	79.9	44.2	43.1	40.5	39.9	39.6	39.3
5		2018-09-30	11:11:09	40.9	61.6	78.3	43.1	42.7	41.5	40.6	40.2	39.3
6		2018-09-30	11:11:19	44.2	62.5	78.3	46.6	46.0	44.5	44.1	43.7	41.6
7		2018-09-30	11:11:29	40.3	59.1	79.9	41.5	41.4	40.9	40.4	39.7	38.4
8		2018-09-30	11:11:39	47.2	66.7	84.8	50.3	50.0	45.7	42.8	41.8	41.2
9		2018-09-30	11:11:49	51.7	67.4	83.7	53.2	53.0	52.2	51.6	51.4	49.9
10		2018-09-30	11:11:59	47.6	64.9	85.6	51.0	50.7	49.5	47.8	46.4	44.1
11		2018-09-30	11:12:09	45.8	60.5	80.9	46.8	46.8	46.3	45.9	45.3	44.3
12		2018-09-30	11:12:19	40.8	67.0	79.5	43.9	43.2	41.7	41.3	40.8	38.8
13		2018-09-30	11:12:29	40.2	61.6	79.4	41.7	41.3	40.7	40.0	39.1	37.7
14		2018-09-30	11:12:39	40.6	59.1	77.9	42.1	41.9	41.1	40.5	40.0	39.1
15		2018-09-30	11:12:49	39.8	56.9	73.2	41.1	40.8	40.0	39.7	39.2	38.6
16		2018-09-30	11:12:59	39.5	58.1	73.9	41.1	40.7	39.8	39.2	38.8	37.7
17		2018-09-30	11:13:09	40.1	58.1	72.2	41.6	41.5	40.6	40.0	39.5	38.8
18		2018-09-30	11:13:19	40.1	59.1	71.4	42.3	42.0	40.5	39.7	39.1	38.3
19		2018-09-30	11:13:29	38.7	56.9	72.1	40.2	39.8	38.9	38.6	38.2	37.7
20		2018-09-30	11:13:39	39.9	59.1	76.0	40.9	40.7	40.1	39.6	39.1	38.4
21		2018-09-30	11:13:49	44.8	78.1	82.1	48.3	46.4	44.2	43.5	43.0	40.7
22		2018-09-30	11:13:59	42.8	61.6	79.4	44.9	44.3	43.7	43.2	42.4	41.9
23		2018-09-30	11:14:09	42.6	60.5	76.7	44.0	43.8	43.1	42.6	42.2	41.5
24		2018-09-30	11:14:19	41.1	62.5	77.1	42.3	42.2	41.5	41.3	41.0	39.6
25		2018-09-30	11:14:29	43.1	62.1	74.3	43.8	43.7	43.1	42.8	42.5	41.7
26		2018-09-30	11:14:39	40.7	58.1	78.4	43.5	42.8	41.4	40.9	40.5	39.7
27		2018-09-30	11:14:49	41.9	59.1	76.6	43.3	43.0	42.2	41.9	41.4	40.4
28		2018-09-30	11:14:59	42.5	61.6	75.2	44.4	43.9	42.4	41.8	41.4	40.7
29		2018-09-30	11:15:09	41.2	60.5	74.9	43.7	43.3	41.9	41.3	40.8	39.2
30		2018-09-30	11:15:19	43.1	59.1	75.8	45.2	44.7	43.9	43.1	40.8	39.1
31		2018-09-30	11:15:29	42.9	62.9	74.0	44.4	44.2	43.1	42.7	42.2	41.6
32		2018-09-30	11:15:39	42.9	62.1	75.7	46.2	45.6	43.5	42.6	42.1	41.0
33		2018-09-30	11:15:49	40.9	61.1	75.6	42.1	41.9	41.2	40.8	40.3	38.6
34		2018-09-30	11:15:59	40.9	59.1	76.4	43.2	43.0	40.9	40.1	39.6	38.8
35		2018-09-30	11:16:09	49.2	73.1	73.3	51.9	51.3	49.8	48.8	47.9	43.7
36		2018-09-30	11:16:19	46.9	70.0	73.7	48.9	48.5	47.3	46.9	46.3	45.3
37		2018-09-30	11:16:29	44.5	67.3	74.5	46.0	45.8	45.1	44.7	44.3	43.4
38		2018-09-30	11:16:39	45.8	67.8	80.8	47.5	47.2	46.2	45.8	45.3	44.3
39		2018-09-30	11:16:49	43.7	68.4	83.1	45.5	45.2	44.3	43.8	43.3	42.5
40		2018-09-30	11:16:59	42.1	64.6	83.3	43.1	43.0	42.5	42.1	41.6	40.9
41		2018-09-30	11:17:09	41.8	64.6	77.8	43.5	43.0	42.3	41.9	41.5	40.8
42		2018-09-30	11:17:19	41.1	63.2	81.2	42.4	42.2	41.4	41.0	40.6	39.7
43		2018-09-30	11:17:29	39.6	63.9	81.3	42.0	41.4	39.9	38.8	38.4	37.7
44		2018-09-30	11:17:39	47.5	71.2	79.0	50.3	49.9	48.2	46.3	44.0	41.8
45		2018-09-30	11:17:49	48.6	70.2	80.8	50.5	50.0	48.5	48.2	47.9	47.4
46		2018-09-30	11:17:59	48.9	71.7	76.8	51.5	51.3	50.4	48.6	47.1	44.9
47		2018-09-30	11:18:09	46.2	70.2	74.3	48.7	48.0	46.6	46.0	45.5	44.5
48		2018-09-30	11:18:19	45.7	70.5	71.9	48.4	47.7	46.1	45.4	44.8	43.7
49		2018-09-30	11:18:29	44.6	69.0	72.0	46.4	46.1	45.0	44.4	43.7	42.5
50		2018-09-30	11:18:39	45.6	68.5	72.0	47.4	46.6	45.7	45.2	44.7	43.8
51		2018-09-30	11:18:49	46.5	69.1	73.4	48.0	47.8	46.9	46.4	46.0	45.0
52		2018-09-30	11:18:59	45.5	69.6	72.7	47.7	47.4	46.2	45.7	45.1	44.0
53		2018-09-30	11:19:09	45.1	68.6	72.0	46.7	46.3	45.3	44.8	44.2	43.1
54		2018-09-30	11:19:19	46.4	69.4	74.4	47.9	47.6	46.6	46.1	45.5	44.5
55		2018-09-30	11:19:29	46.8	70.9	73.7	48.4	48.0	47.1	46.6	46.1	45.3
56		2018-09-30	11:19:39	45.9	71.2	80.7	48.8	48.2	46.8	46.0	45.3	43.9
57		2018-09-30	11:19:49	46.0	69.6	72.6	47.4	46.9	46.1	45.5	44.8	43.3
58		2018-09-30	11:19:59	46.0	69.2	71.7	48.0	47.6	46.6	46.1	45.6	44.6
59		2018-09-30	11:20:09	46.2	70.2	71.9	48.0	47.5	46.5	45.9	45.4	44.3
60		2018-09-30	11:20:19	46.1	71.8	73.9	48.5	47.8	46.3	45.7	45.0	44.1
61		2018-09-30	11:20:29	48.9	71.1	83.0	51.0	50.6	49.5	48.9	48.2	46.5
62		2018-09-30	11:20:39	46.1	69.8	86.0	47.9	47.5	46.7	46.2	45.7	44.8
63		2018-09-30	11:20:49	46.0	70.5	81.4	48.5	48.0	46.2	45.2	44.1	42.2
64		2018-09-30	11:20:59	46.0	70.5	78.9	48.0	47.8	46.7	46.1	45.5	44.3
65		2018-09-30	11:21:09	47.9	72.9	79.5	50.0	49.6	48.0	47.5	46.8	45.3
66		2018-09-30	11:21:19	48.7	74.4	83.5	50.6	50.2	48.8	48.2	47.5	46.2
67		2018-09-30	11:21:29	49.1	75.1	80.4	51.9	51.1	49.4	48.8	48.3	47.3
68		2018-09-30	11:21:39	48.5	71.6	80.5	50.3	50.0	48.9	48.4	47.8	46.7
69		2018-09-30	11:21:49	49.5	73.0	81.8	52.3	51.3	49.4	48.8	48.3	47.4
70		2018-09-30	11:21:59	50.8	73.4	82.0	52.3	52.0	51.2	50.7	50.2	49.3
71		2018-09-30	11:22:09	50.0	76.1	78.0	52.2	51.7	50.3	49.9	49.3	48.4
72		2018-09-30	11:22:19	49.7	73.6	75.5	52.7	51.7	50.1	49.3	48.6	47.3
73		2018-09-30	11:22:29	45.8	68.9	80.2	49.2	48.3	46.1	45.1	44.3	43.0
74		2018-09-30	11:22:39	44.8	68.4	77.1	48.6	48.0	44.5	43.6	42.9	41.6

75		2018-09-30	11:22:49	43.6	66.4	78.0	46.3	45.7	44.3	43.7	43.0	41.9
76		2018-09-30	11:22:59	47.2	70.4	84.8	49.8	49.2	47.9	46.8	44.1	41.9
77		2018-09-30	11:23:09	48.6	70.8	82.5	50.4	50.1	49.1	48.5	48.0	47.0
78		2018-09-30	11:23:19	50.1	72.8	76.3	51.9	51.5	50.1	49.4	48.8	47.8
79		2018-09-30	11:23:29	53.9	76.4	77.8	56.1	55.7	54.6	53.9	53.0	51.2
80		2018-09-30	11:23:39	51.7	76.3	78.1	54.1	53.2	52.0	51.3	50.7	49.5
81		2018-09-30	11:23:49	47.7	75.7	82.3	52.9	52.3	49.7	46.9	44.0	42.0
82		2018-09-30	11:23:59	40.6	65.7	73.9	43.9	43.4	41.3	40.2	39.4	38.1
83		2018-09-30	11:24:09	50.2	73.6	76.8	52.7	51.8	50.0	48.8	47.9	46.5
84		2018-09-30	11:24:19	49.3	72.7	79.1	53.2	52.8	51.3	49.6	46.0	44.2
85		2018-09-30	11:24:29	47.0	71.3	80.9	49.1	48.5	47.3	46.7	45.8	43.8
86		2018-09-30	11:24:39	43.4	66.7	81.8	46.1	45.6	44.2	43.6	43.0	42.1
87		2018-09-30	11:24:49	43.0	68.2	75.8	44.8	44.4	43.6	43.0	42.3	40.8
88		2018-09-30	11:24:59	49.4	73.9	79.5	53.0	52.0	49.8	48.6	47.7	41.0
89		2018-09-30	11:25:09	44.8	68.9	76.8	46.8	46.5	45.5	44.9	44.4	43.3
90		2018-09-30	11:25:19	43.4	69.3	74.4	47.9	46.5	44.2	42.9	41.6	40.1
91		2018-09-30	11:25:29	42.3	68.5	73.3	44.7	44.4	42.5	41.7	41.4	39.8
92		2018-09-30	11:25:39	42.7	73.6	77.5	47.1	45.6	41.9	40.8	40.1	38.8
93		2018-09-30	11:25:49	41.5	56.9	72.2	43.6	43.1	42.0	41.8	41.7	41.5
94	Stop	2018-09-30	11:25:52									

Summary	
File Name	NSA5.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	NSA5
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-30 10:40:32
Stop	2018-09-30 10:59:32
Duration	00:19:00.5
Run Time	00:19:00.5
Pause	00:00:00.0
Pre Calibration	2018-09-30 10:37:44
Post Calibration	None
Calibration Deviation	—

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.4 dB		
	A	C	Z
Under Range Peak	75.9	72.9	77.9 dB
Under Range Limit	26.2	26.5	31.9 dB
Noise Floor	17.1	17.3	22.6 dB

Results		
LAeq	38.0 dB	
LAE	68.6 dB	
EA	0.797 µPa²h	
LZpeak (max)	2018-09-30 10:51:34	87.0 dB
LASmax	2018-09-30 10:53:37	49.7 dB
LASmin	2018-09-30 10:44:04	33.2 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 55.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	38.0	38.0	-99.9	38.0	38.0	-99.9	-99.9	dB

LCeq	51.7 dB
LAeq	38.0 dB
LCeq - LAeq	13.7 dB
LAIeq	40.5 dB
LAeq	38.0 dB
LAIeq - LAeq	2.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	38.0		51.7		63.9	
LS(max)	49.7	2018/09/30 10:53:37	62.4	2018/09/30 10:49:04	78.2	2018/09/30 10:51:35
LF(max)	54.3	2018/09/30 10:53:37	63.9	2018/09/30 10:49:03	82.9	2018/09/30 10:51:35
LI(max)	56.6	2018/09/30 10:49:06	65.7	2018/09/30 10:49:03	85.0	2018/09/30 10:51:35
LS(min)	33.2	2018/09/30 10:44:04	47.7	2018/09/30 10:47:56	51.8	2018/09/30 10:47:01
LF(min)	32.4	2018/09/30 10:44:04	45.6	2018/09/30 10:48:01	48.9	2018/09/30 10:48:01
LI(min)	33.0	2018/09/30 10:48:01	48.5	2018/09/30 10:43:49	53.1	2018/09/30 10:47:36
Lpeak(max)	74.8	2018/09/30 10:58:43	75.7	2018/09/30 10:58:50	87.0	2018/09/30 10:51:34

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	41.9 dB
LAS10.00	39.9 dB
LAS33.30	37.4 dB
LAS50.00	36.6 dB
LAS66.60	35.9 dB
LAS90.00	34.6 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Run	2018-09-30	10:40:31									
2		2018-09-30	10:40:32	37.7	65.4	78.9	39.1	38.9	38.3	37.6	36.0	34.8
3		2018-09-30	10:40:42	37.4	62.6	75.0	39.6	39.3	38.3	37.7	37.1	35.1
4		2018-09-30	10:40:52	37.6	60.6	74.9	41.1	40.5	37.1	35.8	35.3	35.0
5		2018-09-30	10:41:02	35.9	52.1	70.7	36.3	36.1	35.9	35.8	35.7	35.4
6		2018-09-30	10:41:12	36.3	52.1	74.3	36.6	36.5	36.4	36.4	36.2	36.0
7		2018-09-30	10:41:22	37.0	55.1	74.2	39.8	39.2	36.2	36.0	35.9	35.6
8		2018-09-30	10:41:32	37.5	52.1	83.1	38.4	38.1	37.6	37.4	37.2	37.1
9		2018-09-30	10:41:42	36.9	52.1	80.5	37.8	37.6	37.3	37.1	36.9	36.2
10		2018-09-30	10:41:52	35.4	52.1	80.7	36.1	36.1	35.7	35.3	35.2	35.1
11		2018-09-30	10:42:02	37.3	52.1	80.8	38.3	38.1	37.4	37.2	37.1	35.5
12		2018-09-30	10:42:12	37.3	52.1	75.5	39.0	38.8	37.3	36.8	36.7	36.6
13		2018-09-30	10:42:22	40.5	62.1	81.9	44.5	42.4	37.7	37.6	37.3	37.1
14		2018-09-30	10:42:32	39.6	60.6	82.0	45.4	45.1	39.6	38.2	37.5	37.1
15		2018-09-30	10:42:42	35.6	52.1	82.4	36.6	36.5	36.1	35.7	35.3	34.8
16		2018-09-30	10:42:52	34.3	52.1	76.2	35.6	35.1	34.5	34.4	34.3	34.1
17		2018-09-30	10:43:02	34.6	52.1	76.3	35.2	34.8	34.7	34.5	34.1	33.6
18		2018-09-30	10:43:12	35.8	55.1	72.2	36.7	36.6	36.2	36.1	35.4	35.0
19		2018-09-30	10:43:22	35.2	52.1	76.1	35.6	35.6	35.4	35.2	35.1	34.9
20		2018-09-30	10:43:32	34.0	55.1	80.4	34.9	34.7	34.3	34.0	33.8	33.6
21		2018-09-30	10:43:42	34.5	52.1	74.5	35.3	35.0	34.5	34.3	34.1	33.8
22		2018-09-30	10:43:52	34.4	52.1	73.0	34.9	34.8	34.6	34.4	34.2	34.1
23		2018-09-30	10:44:02	34.5	52.1	70.9	36.5	36.3	34.7	34.0	33.7	33.4
24		2018-09-30	10:44:12	34.3	52.1	70.3	35.0	34.7	34.1	34.0	33.9	33.6
25		2018-09-30	10:44:22	36.6	52.1	75.0	37.5	37.4	36.7	36.2	36.0	35.7
26		2018-09-30	10:44:32	37.0	52.1	79.6	37.7	37.6	37.3	36.8	36.5	36.1
27		2018-09-30	10:44:42	37.4	52.1	78.2	38.3	38.1	37.8	37.4	37.1	36.8
28		2018-09-30	10:44:52	35.9	52.1	72.2	37.2	37.2	36.1	35.9	35.6	35.5
29		2018-09-30	10:45:02	36.8	52.1	70.4	37.8	37.6	37.2	37.0	36.1	35.0
30		2018-09-30	10:45:12	37.5	52.1	74.0	39.6	39.5	36.7	36.5	36.0	35.6
31		2018-09-30	10:45:22	39.9	52.1	73.1	41.1	40.8	40.0	39.7	39.3	39.1
32		2018-09-30	10:45:32	40.5	59.1	76.3	44.3	43.9	41.6	39.5	37.7	36.0
33		2018-09-30	10:45:42	36.0	52.1	75.7	36.9	36.8	36.4	35.7	35.6	35.4
34		2018-09-30	10:45:52	40.3	56.9	74.2	42.4	42.3	39.6	38.8	38.5	37.5
35		2018-09-30	10:46:02	40.4	56.9	73.5	42.5	42.4	41.0	40.7	40.4	38.9
36		2018-09-30	10:46:12	38.0	52.1	71.6	38.8	38.7	38.1	38.0	37.9	37.6
37		2018-09-30	10:46:22	36.1	55.1	71.0	37.5	37.4	36.7	36.1	35.4	35.0
38		2018-09-30	10:46:32	36.4	55.1	69.1	37.0	36.8	36.4	36.3	36.2	36.1
39		2018-09-30	10:46:42	36.8	52.1	70.9	37.2	37.1	36.9	36.8	36.7	36.3
40		2018-09-30	10:46:52	36.5	52.1	69.5	37.1	37.1	36.8	36.6	36.4	36.2
41		2018-09-30	10:47:02	38.2	58.2	71.1	40.2	39.9	38.2	37.6	37.4	36.0
42		2018-09-30	10:47:12	34.5	52.1	68.3	35.9	35.8	35.0	34.1	33.9	33.6
43		2018-09-30	10:47:22	35.0	52.1	68.0	35.6	35.5	35.2	35.2	35.0	34.5
44		2018-09-30	10:47:32	34.8	52.1	67.5	35.7	35.5	34.9	34.8	34.7	34.3
45		2018-09-30	10:47:42	34.3	52.1	66.5	35.1	34.9	34.5	34.3	34.2	33.6
46		2018-09-30	10:47:52	34.2	52.1	66.5	34.9	34.8	34.2	34.0	33.9	33.8
47		2018-09-30	10:48:02	34.8	52.1	67.5	35.1	35.1	34.9	34.8	34.7	34.2
48		2018-09-30	10:48:12	34.8	52.1	72.7	35.6	35.4	34.9	34.8	34.5	34.2
49		2018-09-30	10:48:22	36.4	52.1	75.1	36.9	36.8	36.5	36.4	36.2	35.7
50		2018-09-30	10:48:32	36.8	52.1	76.9	37.6	37.3	36.7	36.6	36.3	36.1
51		2018-09-30	10:48:42	37.9	55.1	73.1	39.7	39.2	37.8	37.2	37.1	36.9
52		2018-09-30	10:48:52	42.3	59.1	74.7	43.5	43.4	42.7	42.0	41.5	39.2
53		2018-09-30	10:49:02	47.3	69.3	75.1	49.1	48.8	48.1	47.7	46.5	43.9
54		2018-09-30	10:49:12	41.8	64.2	71.4	45.0	43.9	42.5	41.6	40.6	39.8
55		2018-09-30	10:49:22	38.5	52.1	79.3	40.2	40.0	38.4	38.2	38.0	37.3
56		2018-09-30	10:49:32	39.7	56.9	78.7	40.7	40.5	39.7	39.5	39.2	39.1
57		2018-09-30	10:49:42	40.1	61.2	85.2	42.7	42.6	41.5	39.9	38.6	37.1
58		2018-09-30	10:49:52	38.7	52.1	75.8	39.1	39.1	38.7	38.6	38.3	37.8
59		2018-09-30	10:50:02	40.9	63.6	81.7	44.4	43.5	41.2	40.1	39.4	38.1
60		2018-09-30	10:50:12	38.9	58.2	77.3	41.8	41.3	37.8	37.3	37.0	36.7
61		2018-09-30	10:50:22	37.3	55.1	77.6	39.0	38.6	38.1	37.9	37.3	36.3
62		2018-09-30	10:50:32	36.2	52.1	77.4	36.4	36.3	36.2	36.1	36.1	35.9
63		2018-09-30	10:50:42	36.2	52.1	72.7	37.2	37.1	36.6	36.0	35.7	35.2
64		2018-09-30	10:50:52	36.5	55.1	72.8	37.2	37.1	36.7	36.3	35.9	35.6
65		2018-09-30	10:51:02	35.7	59.1	74.0	37.5	37.1	36.6	36.3	35.1	34.1
66		2018-09-30	10:51:12	35.8	62.1	79.6	39.9	38.6	35.0	34.7	34.4	33.7
67		2018-09-30	10:51:22	35.8	52.1	82.5	37.3	36.7	35.9	35.4	35.2	34.4
68		2018-09-30	10:51:32	35.9	52.1	87.0	36.3	36.3	36.0	35.9	35.8	35.6
69		2018-09-30	10:51:42	37.3	52.1	79.5	38.5	38.2	37.7	37.1	36.8	35.9
70		2018-09-30	10:51:52	35.6	52.1	80.5	36.4	36.2	35.9	35.7	35.5	35.2
71		2018-09-30	10:52:02	36.0	52.1	80.7	37.3	36.9	35.9	35.4	35.1	34.6
72		2018-09-30	10:52:12	35.6	52.1	77.8	37.1	36.5	36.2	36.0	35.6	35.0
73		2018-09-30	10:52:22	35.6	52.1	79.9	36.3	36.2	35.8	35.6	35.1	34.0
74		2018-09-30	10:52:32	37.4	52.1	81.9	38.3	38.2	37.6	37.3	37.0	36.5

75		2018-09-30	10:52:42	35.3	52.1	72.2	36.6	36.2	35.7	35.5	35.3	34.9
76		2018-09-30	10:52:52	35.7	52.1	71.1	36.6	36.4	35.9	35.3	35.1	34.8
77		2018-09-30	10:53:02	37.3	52.1	77.1	37.8	37.8	37.6	37.4	37.2	36.0
78		2018-09-30	10:53:12	37.9	52.1	75.4	38.8	38.6	38.0	37.5	37.4	37.0
79		2018-09-30	10:53:22	41.4	65.4	73.5	42.9	42.9	41.2	41.0	39.5	39.2
80		2018-09-30	10:53:32	45.6	68.4	74.2	49.2	48.2	45.6	44.7	43.4	42.9
81		2018-09-30	10:53:42	40.4	58.2	72.7	43.4	42.7	41.4	40.9	39.5	39.0
82		2018-09-30	10:53:52	39.7	52.1	74.8	41.3	40.6	39.6	39.4	39.2	38.1
83		2018-09-30	10:54:02	41.4	58.2	70.6	42.8	42.8	42.3	41.5	40.7	40.1
84		2018-09-30	10:54:12	37.8	52.1	75.7	38.8	38.6	38.4	38.2	37.7	36.7
85		2018-09-30	10:54:22	36.4	52.1	74.1	38.1	37.5	36.6	36.4	36.2	36.0
86		2018-09-30	10:54:32	38.7	52.1	70.9	39.7	39.7	38.8	38.5	38.3	36.6
87		2018-09-30	10:54:42	38.1	55.1	71.4	39.2	39.1	38.2	38.1	37.9	37.5
88		2018-09-30	10:54:52	35.6	52.1	74.8	37.2	37.1	36.3	35.5	35.2	34.6
89		2018-09-30	10:55:02	35.4	55.1	78.2	36.1	35.9	35.6	35.3	35.1	34.8
90		2018-09-30	10:55:12	34.5	52.1	75.6	35.4	35.2	34.7	34.4	34.2	34.0
91		2018-09-30	10:55:22	35.7	52.1	80.6	36.0	35.9	35.8	35.7	35.6	35.1
92		2018-09-30	10:55:32	37.3	59.1	84.0	39.9	39.0	37.0	36.3	35.9	35.5
93		2018-09-30	10:55:42	36.8	52.1	75.3	38.1	37.9	37.1	36.8	36.7	36.6
94		2018-09-30	10:55:52	36.5	52.1	76.6	37.1	36.9	36.6	36.5	36.4	36.2
95		2018-09-30	10:56:02	36.2	52.1	76.4	37.0	36.7	36.1	36.0	35.8	35.5
96		2018-09-30	10:56:12	36.8	52.1	71.3	37.2	37.2	37.0	36.8	36.6	36.4
97		2018-09-30	10:56:22	38.0	52.1	73.7	38.5	38.5	38.1	38.0	37.8	36.5
98		2018-09-30	10:56:32	38.5	62.6	66.7	39.6	39.4	38.7	38.3	38.1	38.0
99		2018-09-30	10:56:42	38.5	52.1	71.5	39.6	39.4	38.5	38.2	38.0	37.6
100		2018-09-30	10:56:52	39.3	55.1	69.8	40.0	40.0	39.7	39.3	39.1	38.6
101		2018-09-30	10:57:02	38.3	52.1	70.1	39.0	39.0	38.7	38.4	38.2	38.0
102		2018-09-30	10:57:12	36.5	52.1	73.9	37.2	37.2	37.0	36.7	36.4	35.9
103		2018-09-30	10:57:22	36.5	52.1	79.9	37.6	37.5	36.6	35.7	35.6	35.5
104		2018-09-30	10:57:32	35.8	52.1	68.6	37.4	37.1	36.0	35.8	35.6	35.2
105		2018-09-30	10:57:42	36.5	52.1	70.2	36.8	36.8	36.6	36.5	36.3	36.2
106		2018-09-30	10:57:52	34.9	52.1	86.3	36.2	36.0	35.3	34.9	34.7	34.5
107		2018-09-30	10:58:02	35.1	52.1	84.0	35.6	35.6	35.4	35.0	34.6	34.3
108		2018-09-30	10:58:12	39.3	58.2	80.4	42.5	42.2	39.8	38.3	35.6	35.4
109		2018-09-30	10:58:22	36.6	52.1	79.7	37.6	37.5	36.8	36.7	36.6	36.2
110		2018-09-30	10:58:32	36.7	63.9	73.2	38.3	38.1	37.0	35.9	35.7	35.3
111		2018-09-30	10:58:42	38.6	74.8	74.3	42.4	41.2	37.1	36.7	36.5	36.0
112		2018-09-30	10:58:52	37.3	59.1	74.5	40.5	39.7	37.9	37.3	36.9	36.3
113		2018-09-30	10:59:02	38.9	59.1	70.3	42.6	41.2	38.5	38.0	37.7	36.8
114		2018-09-30	10:59:12	35.1	52.1	67.2	36.1	35.8	35.4	35.2	35.0	34.7
115		2018-09-30	10:59:22	36.1	52.1	74.5	37.2	37.0	36.1	35.8	35.6	35.1
116		2018-09-30	10:59:32	35.0	52.1	68.6	36.4	36.4	36.3	36.2	36.1	35.9
117	Stop	2018-09-30	10:59:32									

Summary	
File Name	NSA6.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	NSA6
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-30 12:00:15
Stop	2018-09-30 12:15:16
Duration	00:15:00.8
Run Time	00:15:00.8
Pause	00:00:00.0
Pre Calibration	2018-09-30 12:00:05
Post Calibration	None
Calibration Deviation	---

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.4 dB		
	A	C	Z
Under Range Peak	75.9	72.9	77.9 dB
Under Range Limit	26.2	26.4	31.9 dB
Noise Floor	17.0	17.3	22.5 dB

Results		
L_{Aeq}	50.4 dB	
LAE	79.9 dB	
EA	10.874 µPa²h	
LZ_{peak} (max)	2018-09-30 12:09:11	92.3 dB
LAS_{max}	2018-09-30 12:10:44	67.1 dB
LAS_{min}	2018-09-30 12:11:25	31.3 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	24	275.0 s
LAS > 55.0 dB (Exceedance Counts / Duration)	15	91.1 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	50.4	50.4	-99.9	50.4	50.4	-99.9	-99.9	dB

L_{Ceq}	60.1 dB
L_{Aeq}	50.4 dB
L_{Ceq} - L_{Aeq}	9.7 dB
L_{AIeq}	52.6 dB
L_{Aeq}	50.4 dB
L_{AIeq} - L_{Aeq}	2.3 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
L_{eq}	50.4		60.1		67.9	
$L_{S(max)}$	67.1	2018/09/30 12:10:44	78.8	2018/09/30 12:10:44	84.5	2018/09/30 12:09:11
$L_{F(max)}$	71.1	2018/09/30 12:06:14	81.5	2018/09/30 12:10:44	89.1	2018/09/30 12:09:11
$L_{I(max)}$	73.4	2018/09/30 12:06:14	83.5	2018/09/30 12:10:44	90.9	2018/09/30 12:09:11
$L_{S(min)}$	31.3	2018/09/30 12:11:25	45.3	2018/09/30 12:08:48	49.6	2018/09/30 12:08:44
$L_{F(min)}$	30.4	2018/09/30 12:11:24	43.3	2018/09/30 12:08:55	47.0	2018/09/30 12:08:44
$L_{I(min)}$	31.1	2018/09/30 12:11:16	46.2	2018/09/30 12:05:37	51.3	2018/09/30 12:05:25
$L_{Peak(max)}$	85.3	2018/09/30 12:06:14	89.2	2018/09/30 12:10:44	92.3	2018/09/30 12:09:11

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	56.1 dB
LAS10.00	54.1 dB
LAS33.30	47.9 dB
LAS50.00	42.6 dB
LAS66.60	39.3 dB
LAS90.00	34.3 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Calibration Change	2018-09-30	12:00:05									
2	Run	2018-09-30	12:00:15									
3		2018-09-30	12:00:15	50.6	71.0	74.1	54.0	53.3	52.6	52.2	49.9	45.0
4		2018-09-30	12:00:25	39.4	65.7	68.7	43.0	42.1	40.5	39.5	38.8	37.9
5		2018-09-30	12:00:35	37.9	62.9	76.0	42.3	41.2	38.5	36.9	35.9	34.3
6		2018-09-30	12:00:45	37.3	64.1	74.5	41.4	40.2	37.1	36.7	35.4	33.6
7		2018-09-30	12:00:55	36.1	52.1	70.7	37.9	37.9	37.0	36.0	33.9	33.5
8		2018-09-30	12:01:05	40.1	58.1	70.8	43.2	42.9	38.0	37.9	37.5	36.2
9		2018-09-30	12:01:15	52.5	66.1	76.1	54.0	53.7	53.2	52.6	52.1	44.5
10		2018-09-30	12:01:25	50.2	68.8	75.9	51.5	51.0	50.6	50.5	50.4	49.8
11		2018-09-30	12:01:35	40.5	56.9	73.3	48.1	46.5	41.9	40.4	39.6	38.6
12		2018-09-30	12:01:45	52.6	69.4	81.7	56.1	55.7	52.7	48.4	45.0	40.6
13		2018-09-30	12:01:55	52.1	68.4	76.8	56.2	56.1	55.0	52.2	49.2	45.9
14		2018-09-30	12:02:05	46.5	64.1	76.9	50.1	48.4	44.7	43.6	43.1	42.7
15		2018-09-30	12:02:15	58.6	74.6	82.1	61.0	60.8	59.7	58.0	57.1	54.4
16		2018-09-30	12:02:25	50.8	68.5	83.0	53.8	53.6	52.3	51.0	49.9	48.8
17		2018-09-30	12:02:35	48.6	63.2	78.4	50.2	50.1	48.3	47.8	47.4	47.1
18		2018-09-30	12:02:45	48.3	64.6	76.9	51.2	51.1	50.5	49.6	46.3	42.6
19		2018-09-30	12:02:55	41.2	59.1	78.8	42.9	42.7	41.9	41.4	40.8	39.4
20		2018-09-30	12:03:05	39.3	66.9	76.1	42.4	41.9	40.6	39.7	37.7	35.5
21		2018-09-30	12:03:15	49.8	73.2	74.1	54.0	52.1	49.3	42.0	39.5	36.2
22		2018-09-30	12:03:25	54.0	70.4	80.2	56.8	56.3	54.8	54.1	52.9	52.0
23		2018-09-30	12:03:35	48.0	66.4	82.1	52.6	52.4	49.9	47.0	44.2	43.1
24		2018-09-30	12:03:45	41.5	58.1	85.3	44.9	44.6	44.0	41.9	39.1	35.8
25		2018-09-30	12:03:55	50.1	69.5	78.2	54.0	53.6	46.7	43.4	40.3	37.8
26		2018-09-30	12:04:05	49.7	69.2	74.6	56.0	55.4	52.2	48.6	44.6	39.6
27		2018-09-30	12:04:15	47.9	63.2	77.6	50.5	50.4	48.4	45.9	43.2	40.1
28		2018-09-30	12:04:25	47.2	63.8	74.3	50.8	50.5	49.8	47.2	44.2	42.3
29		2018-09-30	12:04:35	40.3	55.1	79.9	42.0	41.9	41.5	41.2	40.9	37.7
30		2018-09-30	12:04:45	34.6	52.1	75.6	36.4	36.3	35.0	34.4	34.3	33.8
31		2018-09-30	12:04:55	34.1	52.1	68.1	35.1	34.9	34.3	34.0	33.6	33.3
32		2018-09-30	12:05:05	36.5	56.9	67.4	39.6	38.7	37.1	35.8	34.8	33.8
33		2018-09-30	12:05:15	34.3	52.1	66.9	35.8	35.5	34.1	33.9	33.7	33.5
34		2018-09-30	12:05:25	39.3	67.1	68.7	42.7	42.5	40.3	34.8	34.1	33.6
35		2018-09-30	12:05:35	36.8	61.6	68.3	38.9	38.5	37.8	37.1	36.7	35.8
36		2018-09-30	12:05:45	36.3	56.9	79.9	38.0	37.1	36.4	36.3	35.9	35.2
37		2018-09-30	12:05:55	39.2	52.1	88.9	40.4	40.0	39.1	38.5	38.3	37.1
38		2018-09-30	12:06:05	59.9	85.3	84.7	65.3	63.9	57.7	53.5	49.0	41.8
39		2018-09-30	12:06:15	53.7	75.6	76.5	62.0	61.2	56.4	51.2	47.4	43.9
40		2018-09-30	12:06:25	40.1	66.6	69.2	42.6	42.5	41.4	40.9	39.8	37.5
41		2018-09-30	12:06:35	45.8	66.1	73.7	48.1	48.0	47.0	42.0	39.3	36.7
42		2018-09-30	12:06:45	46.4	71.4	76.9	51.4	51.0	49.0	44.8	41.6	38.9
43		2018-09-30	12:06:55	39.3	59.9	82.9	42.1	41.6	40.1	39.5	38.4	35.8
44		2018-09-30	12:07:05	51.3	68.9	76.4	55.1	54.9	51.8	42.9	36.6	36.1
45		2018-09-30	12:07:15	51.5	76.4	76.7	55.8	54.8	51.5	51.0	50.8	49.3
46		2018-09-30	12:07:25	50.4	72.7	74.3	53.2	52.8	51.2	50.6	49.5	47.5
47		2018-09-30	12:07:35	41.4	65.1	67.7	45.7	44.6	43.0	42.0	39.5	36.6
48		2018-09-30	12:07:45	42.4	58.1	67.7	45.3	44.8	43.7	42.6	42.1	39.8
49		2018-09-30	12:07:55	36.9	60.5	77.6	40.7	39.1	37.4	35.6	34.8	34.0
50		2018-09-30	12:08:05	34.2	52.1	73.1	37.5	37.0	34.6	34.1	33.8	33.2
51		2018-09-30	12:08:15	53.2	71.5	73.2	57.6	57.2	53.7	46.4	43.3	36.9
52		2018-09-30	12:08:25	54.4	72.2	74.2	57.2	56.9	55.4	54.7	54.3	49.3
53		2018-09-30	12:08:35	39.7	55.1	65.3	45.9	44.8	41.2	40.5	39.2	37.6
54		2018-09-30	12:08:45	34.8	52.1	77.7	36.7	36.2	35.2	35.0	34.7	33.9
55		2018-09-30	12:08:55	36.3	55.1	88.2	39.8	39.0	36.4	35.3	34.4	33.3
56		2018-09-30	12:09:05	41.5	59.1	92.3	44.4	43.6	39.7	38.9	38.5	36.6
57		2018-09-30	12:09:15	53.6	73.9	88.8	56.2	56.0	54.8	53.2	51.4	48.1
58		2018-09-30	12:09:25	49.9	68.6	82.8	53.6	52.7	47.2	45.1	44.3	42.3
59		2018-09-30	12:09:35	48.3	66.6	82.2	54.9	53.6	51.4	48.9	44.6	39.1
60		2018-09-30	12:09:45	35.7	52.1	71.9	37.7	36.8	35.5	35.0	34.1	33.4
61		2018-09-30	12:09:55	51.0	72.1	76.5	54.4	53.8	51.9	50.7	48.3	41.9
62		2018-09-30	12:10:05	40.6	55.1	70.8	46.8	45.8	41.2	40.8	40.5	39.9
63		2018-09-30	12:10:15	50.0	67.8	75.9	54.4	54.0	46.9	43.2	40.1	39.0
64		2018-09-30	12:10:25	50.4	67.9	76.0	55.3	54.8	52.5	51.3	47.2	43.5
65		2018-09-30	12:10:35	62.6	79.5	89.5	66.8	66.5	60.7	59.5	55.1	46.9
66		2018-09-30	12:10:45	54.2	71.1	80.2	63.2	61.6	57.4	54.1	52.5	51.6
67		2018-09-30	12:10:55	40.4	60.5	84.1	48.4	47.2	42.8	40.4	37.7	36.3
68		2018-09-30	12:11:05	33.4	52.1	84.8	34.8	34.7	33.9	33.3	33.0	32.8
69		2018-09-30	12:11:15	32.0	56.9	84.4	32.8	32.6	32.2	32.0	31.9	31.6
70		2018-09-30	12:11:25	38.8	68.1	80.8	43.9	42.2	38.8	34.2	33.4	32.9
71		2018-09-30	12:11:35	47.3	64.4	87.8	49.2	48.8	48.3	47.6	45.1	40.0
72		2018-09-30	12:11:45	56.1	72.2	84.9	58.4	58.2	57.3	55.2	51.9	48.0
73		2018-09-30	12:11:55	50.3	68.8	81.1	56.7	55.9	52.7	49.8	47.9	44.8
74		2018-09-30	12:12:05	40.1	55.1	78.3	44.0	43.7	42.9	40.7	37.6	34.5

75		2018-09-30	12:12:15	35.5	52.1	78.6	36.8	36.6	36.0	35.3	34.2	33.8
76		2018-09-30	12:12:25	46.6	66.9	79.4	51.8	49.3	40.7	40.5	40.2	37.6
77		2018-09-30	12:12:35	48.3	68.0	77.2	52.7	52.5	51.4	47.9	44.3	39.6
78		2018-09-30	12:12:45	37.2	61.1	77.6	40.1	39.5	38.1	37.6	36.6	34.9
79		2018-09-30	12:12:55	41.8	61.6	76.1	45.9	43.9	39.5	36.6	34.4	33.4
80		2018-09-30	12:13:05	56.8	78.8	81.3	59.7	59.2	55.7	53.9	52.6	49.0
81		2018-09-30	12:13:15	51.8	79.2	80.5	60.4	59.3	54.1	49.9	45.6	42.2
82		2018-09-30	12:13:25	38.0	55.1	87.5	42.2	42.0	40.8	36.8	35.0	33.1
83		2018-09-30	12:13:35	35.2	55.1	86.6	37.8	37.7	35.1	32.8	32.7	32.4
84		2018-09-30	12:13:45	51.6	74.9	83.3	55.4	55.2	52.8	46.2	41.4	37.9
85		2018-09-30	12:13:55	45.6	66.2	84.1	53.0	51.8	48.3	45.3	43.2	41.8
86		2018-09-30	12:14:05	49.7	67.4	76.2	54.2	53.2	45.7	43.8	42.1	39.6
87		2018-09-30	12:14:15	51.6	69.0	77.0	55.4	55.2	53.1	51.4	49.5	47.5
88		2018-09-30	12:14:25	51.0	65.5	81.4	53.0	52.5	50.8	50.6	49.5	48.6
89		2018-09-30	12:14:35	49.9	71.6	77.0	53.5	53.2	52.5	50.0	47.4	44.1
90		2018-09-30	12:14:45	42.3	64.1	83.8	44.0	43.8	43.2	42.2	41.6	40.7
91		2018-09-30	12:14:55	47.7	63.2	82.5	50.2	49.8	49.3	46.5	43.4	42.0
92		2018-09-30	12:15:05	43.7	69.3	81.4	49.3	48.9	44.6	43.2	41.6	38.6
93		2018-09-30	12:15:15	37.2	52.1	70.2	37.3	37.3	37.3	37.2	37.2	37.2
94	Stop	2018-09-30	12:15:16									

Summary	
File Name	NSA7.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	NSA7
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-30 12:20:49
Stop	2018-09-30 12:35:51
Duration	00:15:01.4
Run Time	00:15:01.4
Pause	00:00:00.0
Pre Calibration	2018-09-30 12:19:32
Post Calibration	None
Calibration Deviation	—

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.3 dB		
	A	C	Z
Under Range Peak	75.8	72.8	77.8 dB
Under Range Limit	26.2	26.4	31.8 dB
Noise Floor	17.0	17.3	22.5 dB

Results		
L_{Aeq}	47.8 dB	
LAE	77.3 dB	
EA	5.988 µPa²h	
LZ_{peak} (max)	2018-09-30 12:31:23	89.1 dB
LAS_{max}	2018-09-30 12:31:23	66.3 dB
LAS_{min}	2018-09-30 12:27:47	29.3 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	18	167.7 s
LAS > 55.0 dB (Exceedance Counts / Duration)	4	22.8 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	47.8	47.8	-99.9	47.8	47.8	-99.9	-99.9	dB

L_{Ceq}	58.5 dB
L_{Aeq}	47.8 dB
L_{Ceq} - L_{Aeq}	10.7 dB
L_{AIeq}	49.3 dB
L_{Aeq}	47.8 dB
L_{AIeq} - L_{Aeq}	1.6 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
L_{eq}	47.8		58.5		64.1	
$L_{S(max)}$	66.3	2018/09/30 12:31:23	77.9	2018/09/30 12:31:23	79.9	2018/09/30 12:34:54
$L_{F(max)}$	69.1	2018/09/30 12:31:22	79.6	2018/09/30 12:31:22	84.8	2018/09/30 12:34:54
$L_{I(max)}$	71.0	2018/09/30 12:31:22	80.3	2018/09/30 12:31:22	87.1	2018/09/30 12:34:54
$L_{S(min)}$	29.3	2018/09/30 12:27:47	41.6	2018/09/30 12:26:06	46.9	2018/09/30 12:26:08
$L_{F(min)}$	28.5	2018/09/30 12:27:45	39.5	2018/09/30 12:26:05	44.0	2018/09/30 12:26:07
$L_{I(min)}$	29.2	2018/09/30 12:27:46	42.7	2018/09/30 12:26:37	49.1	2018/09/30 12:33:04
$L_{Peak(max)}$	84.9	2018/09/30 12:31:22	88.8	2018/09/30 12:31:22	89.1	2018/09/30 12:31:23

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	52.1 dB
LAS10.00	50.6 dB
LAS33.30	46.1 dB
LAS50.00	42.8 dB
LAS66.60	37.8 dB
LAS90.00	32.1 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Calibration Change	2018-09-30	12:19:32									
2	Run	2018-09-30	12:20:49									
3		2018-09-30	12:20:49	48.0	75.2	76.7	53.0	52.1	49.1	48.0	47.0	45.8
4		2018-09-30	12:20:59	41.2	56.8	70.8	45.5	45.1	42.5	41.6	40.0	38.8
5		2018-09-30	12:21:09	39.4	55.1	75.4	41.2	41.1	38.9	38.5	37.8	37.0
6		2018-09-30	12:21:19	46.2	62.0	79.0	47.8	47.5	46.5	46.2	45.7	42.9
7		2018-09-30	12:21:29	45.2	59.0	74.5	46.3	46.2	45.6	45.4	44.8	44.0
8		2018-09-30	12:21:39	42.9	56.8	75.4	44.1	44.0	43.7	43.3	42.8	40.7
9		2018-09-30	12:21:49	45.3	61.1	75.6	46.3	45.9	45.3	45.0	44.4	43.1
10		2018-09-30	12:21:59	49.6	64.8	74.9	51.1	50.9	50.4	49.9	49.3	46.9
11		2018-09-30	12:22:09	49.5	64.6	78.1	50.8	50.8	50.6	50.1	46.6	45.5
12		2018-09-30	12:22:19	49.9	63.5	79.1	52.2	52.0	50.4	49.8	49.2	48.1
13		2018-09-30	12:22:29	45.1	61.1	78.1	48.1	48.0	47.0	45.9	44.2	42.0
14		2018-09-30	12:22:39	48.4	65.8	75.6	51.5	51.3	48.4	45.9	43.1	40.7
15		2018-09-30	12:22:49	47.1	63.5	72.7	51.3	51.2	49.1	46.5	45.0	42.0
16		2018-09-30	12:22:59	36.7	55.1	72.1	41.8	40.7	37.6	36.3	35.4	34.5
17		2018-09-30	12:23:09	45.0	60.5	73.3	46.6	46.3	45.6	44.6	43.8	41.8
18		2018-09-30	12:23:19	46.1	62.5	73.8	48.8	48.0	44.9	44.4	43.5	42.7
19		2018-09-30	12:23:29	50.4	65.5	78.7	52.0	51.7	51.2	50.6	49.6	48.9
20		2018-09-30	12:23:39	42.5	58.1	74.5	47.9	47.4	44.9	42.6	39.1	36.3
21		2018-09-30	12:23:49	48.4	68.0	70.3	51.9	51.2	46.4	43.1	37.3	34.4
22		2018-09-30	12:23:59	53.3	71.5	74.9	55.7	55.7	54.7	53.4	52.1	50.5
23		2018-09-30	12:24:09	39.6	58.1	74.6	48.4	47.1	41.1	38.4	37.8	37.4
24		2018-09-30	12:24:19	47.3	61.6	75.1	49.0	48.9	48.3	46.5	44.9	40.5
25		2018-09-30	12:24:29	49.1	63.8	72.6	50.6	50.3	49.3	48.5	48.3	48.0
26		2018-09-30	12:24:39	47.7	64.8	75.6	50.7	50.6	48.0	47.5	46.8	46.5
27		2018-09-30	12:24:49	48.7	65.7	74.0	50.7	50.5	49.8	49.5	48.2	45.1
28		2018-09-30	12:24:59	47.7	66.2	80.9	50.8	50.2	48.1	46.1	41.3	39.3
29		2018-09-30	12:25:09	52.3	66.7	83.2	54.3	54.1	52.9	51.8	51.3	50.5
30		2018-09-30	12:25:19	49.2	63.2	74.3	50.7	50.7	50.2	49.4	48.9	48.0
31		2018-09-30	12:25:29	44.8	61.6	71.1	47.4	47.1	46.4	45.8	43.7	41.6
32		2018-09-30	12:25:39	40.3	58.1	78.9	44.6	44.1	42.3	41.4	36.1	31.7
33		2018-09-30	12:25:49	31.3	52.0	74.9	31.7	31.6	31.4	31.3	31.2	30.9
34		2018-09-30	12:25:59	33.1	62.0	72.9	35.6	34.7	33.0	32.5	32.1	31.2
35		2018-09-30	12:26:09	32.2	52.0	76.9	32.7	32.6	32.4	32.0	31.9	31.7
36		2018-09-30	12:26:19	31.6	52.0	76.9	32.8	32.6	32.1	31.9	31.4	30.5
37		2018-09-30	12:26:29	33.6	52.0	72.2	36.7	36.6	33.3	32.7	31.8	31.0
38		2018-09-30	12:26:39	37.9	59.0	77.3	40.9	40.1	34.7	34.0	33.3	31.5
39		2018-09-30	12:26:49	44.7	59.8	74.3	46.3	46.1	45.6	44.8	43.8	42.7
40		2018-09-30	12:26:59	36.8	52.0	81.3	40.1	39.5	38.8	38.1	37.2	32.3
41		2018-09-30	12:27:09	36.8	55.1	76.5	41.0	39.3	35.5	34.2	33.1	30.9
42		2018-09-30	12:27:19	46.9	63.2	71.3	48.5	48.4	47.6	46.9	45.7	43.3
43		2018-09-30	12:27:29	38.5	55.1	79.4	44.4	44.0	41.0	36.9	33.8	32.0
44		2018-09-30	12:27:39	30.6	60.5	76.5	32.0	31.9	31.5	30.5	29.8	29.5
45		2018-09-30	12:27:49	32.5	59.0	79.4	35.5	34.1	32.4	32.0	31.1	30.3
46		2018-09-30	12:27:59	33.8	65.3	78.1	34.0	33.7	32.8	32.3	31.9	31.1
47		2018-09-30	12:28:09	47.1	64.3	75.8	50.6	50.5	47.2	43.1	38.0	36.6
48		2018-09-30	12:28:19	50.0	63.5	78.1	50.7	50.6	50.3	50.2	50.0	49.5
49		2018-09-30	12:28:29	43.0	66.0	72.4	48.3	47.7	45.9	43.3	38.9	35.2
50		2018-09-30	12:28:39	35.2	52.0	72.2	37.3	36.2	34.2	33.9	33.5	33.1
51		2018-09-30	12:28:49	47.3	62.0	73.4	49.1	49.0	48.4	47.8	44.2	39.5
52		2018-09-30	12:28:59	42.5	59.0	73.3	46.5	46.4	44.7	43.8	41.7	36.3
53		2018-09-30	12:29:09	32.8	52.0	71.5	34.2	33.8	33.0	32.9	32.7	32.5
54		2018-09-30	12:29:19	39.2	63.2	71.4	43.8	42.1	36.9	34.9	34.3	33.3
55		2018-09-30	12:29:29	47.0	60.5	70.7	48.3	48.2	47.4	47.1	46.2	45.2
56		2018-09-30	12:29:39	41.2	63.2	76.1	45.0	44.2	43.4	41.7	40.3	37.4
57		2018-09-30	12:29:49	38.3	59.0	69.8	42.1	41.6	39.6	37.0	35.7	32.8
58		2018-09-30	12:29:59	42.2	64.6	74.7	47.8	44.2	37.9	35.4	34.5	33.1
59		2018-09-30	12:30:09	46.5	71.1	79.6	51.2	49.8	49.2	46.0	40.1	36.3
60		2018-09-30	12:30:19	47.3	65.5	79.0	50.6	49.4	46.7	43.5	39.5	36.7
61		2018-09-30	12:30:29	53.3	67.2	75.7	54.5	54.5	53.9	53.5	52.7	51.7
62		2018-09-30	12:30:39	45.6	64.1	75.3	50.6	50.0	48.4	45.8	43.0	39.9
63		2018-09-30	12:30:49	47.9	65.3	75.2	51.5	50.0	47.6	45.6	41.8	40.0
64		2018-09-30	12:30:59	49.3	65.7	73.5	51.6	51.4	50.9	49.6	48.5	47.0
65		2018-09-30	12:31:09	49.4	65.7	77.0	53.0	52.9	49.5	45.8	42.6	40.9
66		2018-09-30	12:31:19	62.4	84.9	89.1	66.1	65.9	64.0	61.0	57.4	54.6
67		2018-09-30	12:31:29	51.5	69.7	76.8	55.1	54.6	53.5	53.0	49.7	45.2
68		2018-09-30	12:31:39	41.8	55.1	75.5	44.4	43.8	43.3	42.6	41.6	39.2
69		2018-09-30	12:31:49	35.6	52.0	73.5	39.0	38.7	37.5	35.4	34.1	33.1
70		2018-09-30	12:31:59	32.1	52.0	71.8	32.7	32.6	32.3	32.2	32.1	31.8
71		2018-09-30	12:32:09	32.1	52.0	69.8	32.9	32.6	32.3	32.0	31.8	31.3
72		2018-09-30	12:32:19	32.4	52.0	71.5	32.9	32.8	32.5	32.3	32.0	31.7
73		2018-09-30	12:32:29	46.1	66.5	70.2	50.1	47.9	44.7	40.2	38.4	35.6
74		2018-09-30	12:32:39	48.2	63.8	73.5	51.4	51.1	49.1	48.1	47.6	47.2

75		2018-09-30	12:32:49	37.0	55.1	68.1	44.0	42.9	38.6	37.4	36.9	34.5
76		2018-09-30	12:32:59	31.9	52.0	63.9	33.6	33.4	32.1	31.7	31.6	31.5
77		2018-09-30	12:33:09	32.0	52.0	66.6	32.6	32.5	32.0	31.8	31.7	31.4
78		2018-09-30	12:33:19	32.8	52.0	65.1	35.3	34.5	32.6	32.2	32.0	31.8
79		2018-09-30	12:33:29	33.7	52.0	64.7	34.7	34.5	33.8	33.4	32.6	32.3
80		2018-09-30	12:33:39	45.2	61.6	69.3	47.7	47.5	45.5	45.0	41.4	35.8
81		2018-09-30	12:33:49	44.3	60.5	67.1	47.4	47.2	44.7	43.8	42.8	42.5
82		2018-09-30	12:33:59	46.1	64.8	70.6	47.5	47.3	46.7	46.1	45.7	44.2
83		2018-09-30	12:34:09	38.0	55.1	69.7	43.5	43.4	39.0	35.9	34.8	34.1
84		2018-09-30	12:34:19	47.5	62.8	76.9	51.1	51.1	45.9	38.8	37.6	37.1
85		2018-09-30	12:34:29	54.2	70.8	81.5	57.4	57.2	55.9	53.2	51.8	47.9
86		2018-09-30	12:34:39	44.0	59.0	77.5	47.6	47.2	45.8	44.9	41.4	39.2
87		2018-09-30	12:34:49	38.2	67.0	88.8	39.5	39.3	38.4	38.1	37.7	37.4
88		2018-09-30	12:34:59	47.6	65.1	82.4	50.4	50.1	48.8	47.5	43.0	38.9
89		2018-09-30	12:35:09	43.5	59.8	83.0	47.5	47.1	44.2	43.2	42.7	41.9
90		2018-09-30	12:35:19	43.1	61.1	80.9	45.6	45.2	44.4	43.3	42.5	40.0
91		2018-09-30	12:35:29	36.6	61.1	78.4	38.2	38.0	37.1	36.9	36.3	35.8
92		2018-09-30	12:35:39	35.8	64.1	73.5	38.0	37.8	36.6	35.6	34.9	33.4
93		2018-09-30	12:35:49	34.5	52.0	73.1	34.3	34.2	34.0	33.7	33.6	33.5
94	Stop	2018-09-30	12:35:51									

Summary	
File Name	NSA9.001
Serial Number	0003330
Model	Model 831
Firmware Version	2.314
User	Carlos
Location	NSA9
Job Description	NextEra
Note	

Measurement Description	
Start	2018-09-30 12:45:53
Stop	2018-09-30 13:05:03
Duration	00:19:10.8
Run Time	00:19:10.8
Pause	00:00:00.0
Pre Calibration	2018-09-30 12:45:19
Post Calibration	None
Calibration Deviation	---

Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRM831			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Gain	0.0 dB			
Overload	143.3 dB			
	A	C	Z	
Under Range Peak	75.9	72.9	77.9	dB
Under Range Limit	26.2	26.4	31.9	dB
Noise Floor	17.0	17.3	22.5	dB

Results		
LAeq	48.2 dB	
LAE	78.8 dB	
EA	8.397 µPa²h	
LZpeak (max)	2018-09-30 12:52:37	88.2 dB
LASmax	2018-09-30 12:52:37	71.3 dB
LASmin	2018-09-30 13:00:56	32.7 dB
SEA	-99.9 dB	
LAS > 50.0 dB (Exceedance Counts / Duration)	32	128.1 s
LAS > 55.0 dB (Exceedance Counts / Duration)	9	36.6 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	48.2	48.2	-99.9	48.2	48.2	-99.9	-99.9	dB

LCeq	56.1 dB
LAeq	48.2 dB
LCeq - LAeq	8.0 dB
LAIeq	55.7 dB
LAeq	48.2 dB
LAIeq - LAeq	7.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	48.2		56.1		66.7	
Ls(max)	71.3	2018/09/30 12:52:37	71.9	2018/09/30 12:52:37	77.9	2018/09/30 12:56:28
Lf(max)	75.4	2018/09/30 12:52:37	75.8	2018/09/30 12:52:36	81.0	2018/09/30 12:56:27
Li(max)	79.3	2018/09/30 12:52:37	79.2	2018/09/30 12:52:37	82.8	2018/09/30 12:56:27
Ls(min)	32.7	2018/09/30 13:00:56	46.9	2018/09/30 12:54:05	50.9	2018/09/30 12:53:46
Lf(min)	31.0	2018/09/30 12:53:14	42.7	2018/09/30 12:54:20	48.3	2018/09/30 12:53:40
Li(min)	32.3	2018/09/30 13:00:55	47.7	2018/09/30 12:53:20	51.8	2018/09/30 12:54:17
Lpeak(max)	88.5	2018/09/30 12:52:36	88.1	2018/09/30 12:52:37	88.2	2018/09/30 12:52:37

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Statistics	
LAS5.00	52.0 dB
LAS10.00	49.1 dB
LAS33.30	43.5 dB
LAS50.00	41.0 dB
LAS66.60	38.8 dB
LAS90.00	35.9 dB

Record #	Record Type	Date	Time	LAeq	LApeak	LZpeak	LA5.00	LA10.00	LA33.30	LA50.00	LA66.60	LA90.00
1	Run	2018-09-30	12:45:52									
2		2018-09-30	12:45:53	42.4	62.8	75.1	45.6	45.2	42.4	41.7	40.2	38.5
3		2018-09-30	12:46:03	38.7	64.4	76.3	42.4	41.9	38.8	37.8	37.6	37.2
4		2018-09-30	12:46:13	38.3	56.8	77.3	39.6	39.1	38.4	38.1	37.8	37.4
5		2018-09-30	12:46:23	38.7	56.8	75.9	39.9	39.1	38.3	38.1	37.9	37.3
6		2018-09-30	12:46:33	41.6	59.0	71.2	44.5	44.5	42.4	40.8	40.4	37.9
7		2018-09-30	12:46:43	37.2	52.1	70.1	39.3	39.0	37.6	37.3	37.0	35.5
8		2018-09-30	12:46:53	34.4	52.1	74.8	35.2	35.0	34.5	34.3	34.1	33.6
9		2018-09-30	12:47:03	36.4	59.8	80.7	40.2	36.6	35.3	34.9	34.6	34.1
10		2018-09-30	12:47:13	38.8	69.9	71.5	40.9	40.4	39.1	38.8	38.4	37.3
11		2018-09-30	12:47:23	36.3	67.5	72.4	39.2	38.0	36.3	35.9	35.6	35.3
12		2018-09-30	12:47:33	39.7	66.8	80.6	42.2	41.7	39.8	39.0	37.9	36.6
13		2018-09-30	12:47:43	38.0	64.8	80.1	40.0	39.9	38.8	38.0	37.4	36.8
14		2018-09-30	12:47:53	37.0	56.8	85.2	39.1	38.7	37.0	36.6	36.0	35.5
15		2018-09-30	12:48:03	38.0	73.8	85.4	39.7	39.3	38.5	38.2	37.7	36.7
16		2018-09-30	12:48:13	38.8	68.6	78.4	39.7	39.5	38.8	38.4	38.3	36.9
17		2018-09-30	12:48:23	43.2	62.1	76.8	44.2	44.1	43.5	42.8	41.9	40.8
18		2018-09-30	12:48:33	44.0	56.8	77.6	45.5	45.2	44.2	43.6	43.2	42.2
19		2018-09-30	12:48:43	43.2	59.0	79.3	45.3	45.0	43.8	43.4	43.1	42.3
20		2018-09-30	12:48:53	43.0	58.1	78.0	43.8	43.5	43.1	42.8	42.5	41.2
21		2018-09-30	12:49:03	41.1	65.3	74.3	43.1	42.9	41.1	40.9	40.8	40.7
22		2018-09-30	12:49:13	41.2	61.6	74.7	43.5	43.1	41.2	40.4	40.0	39.2
23		2018-09-30	12:49:23	40.4	56.8	75.3	42.1	42.0	41.5	40.9	40.3	39.2
24		2018-09-30	12:49:33	41.2	55.1	75.1	42.6	42.4	42.0	41.3	39.7	38.4
25		2018-09-30	12:49:43	40.9	55.1	74.0	41.9	41.8	41.2	40.8	40.4	39.8
26		2018-09-30	12:49:53	41.7	56.8	73.2	43.4	43.2	42.2	41.6	41.0	40.4
27		2018-09-30	12:50:03	40.3	55.1	72.1	42.2	42.0	40.3	39.5	38.7	37.8
28		2018-09-30	12:50:13	41.7	55.1	78.5	43.2	43.1	42.3	42.0	41.6	40.5
29		2018-09-30	12:50:23	38.7	52.1	75.0	40.7	40.6	39.9	39.5	38.5	36.5
30		2018-09-30	12:50:33	35.6	56.8	68.2	37.0	36.7	35.9	35.3	35.0	34.6
31		2018-09-30	12:50:43	36.6	59.0	84.8	37.2	37.1	36.6	36.3	36.2	36.0
32		2018-09-30	12:50:53	36.1	67.4	77.0	37.9	37.2	36.6	36.4	36.2	34.7
33		2018-09-30	12:51:03	41.2	80.2	81.4	46.5	44.6	41.4	38.7	36.7	33.7
34		2018-09-30	12:51:13	46.3	65.9	78.4	48.4	48.1	47.0	46.1	45.0	41.2
35		2018-09-30	12:51:23	46.2	64.8	73.7	48.3	47.9	46.8	45.9	45.0	43.3
36		2018-09-30	12:51:33	45.3	64.6	73.6	47.2	46.9	46.0	45.3	44.6	43.0
37		2018-09-30	12:51:43	45.3	66.0	75.0	47.4	46.8	45.6	44.9	44.3	43.3
38		2018-09-30	12:51:53	47.5	65.9	75.4	49.3	48.7	47.1	46.4	45.7	44.5
39		2018-09-30	12:52:03	47.1	68.1	76.0	50.7	50.3	48.7	47.3	46.0	44.3
40		2018-09-30	12:52:13	45.6	66.0	73.1	48.1	47.8	46.2	45.1	44.0	41.8
41		2018-09-30	12:52:23	58.9	82.4	84.4	63.9	62.5	59.0	57.5	48.0	45.0
42		2018-09-30	12:52:33	64.9	88.5	88.2	70.1	69.7	65.8	61.9	58.7	52.9
43		2018-09-30	12:52:43	54.4	76.1	75.2	57.9	57.6	53.1	51.8	50.0	46.1
44		2018-09-30	12:52:53	52.1	78.2	78.1	57.1	56.2	53.7	51.9	50.9	48.6
45		2018-09-30	12:53:03	49.9	70.9	80.9	53.2	52.8	50.8	49.6	48.4	46.7
46		2018-09-30	12:53:13	43.6	66.5	77.0	49.1	48.3	45.2	42.6	40.7	37.3
47		2018-09-30	12:53:23	47.4	68.2	73.0	50.5	50.2	48.8	46.6	44.6	41.1
48		2018-09-30	12:53:33	46.7	70.0	73.2	51.5	51.2	46.0	44.4	42.5	40.3
49		2018-09-30	12:53:43	47.6	71.4	71.7	52.1	50.8	47.1	45.7	43.5	41.3
50		2018-09-30	12:53:53	43.1	66.0	71.1	47.9	47.1	45.2	42.8	41.1	39.9
51		2018-09-30	12:54:03	47.7	72.6	73.9	52.4	51.0	47.3	46.1	45.1	38.9
52		2018-09-30	12:54:13	47.4	67.9	71.7	50.0	49.6	48.0	46.4	44.6	43.2
53		2018-09-30	12:54:23	46.4	68.5	74.0	49.9	49.4	47.7	46.5	44.0	42.6
54		2018-09-30	12:54:33	47.0	67.9	77.8	49.6	48.6	47.6	46.5	44.5	41.1
55		2018-09-30	12:54:43	48.7	70.8	75.7	54.0	52.8	49.1	47.4	45.9	42.7
56		2018-09-30	12:54:53	45.3	65.1	79.7	48.6	48.1	46.5	45.3	44.5	41.9
57		2018-09-30	12:55:03	46.3	69.0	80.1	49.2	48.8	47.5	46.0	44.4	41.0
58		2018-09-30	12:55:13	46.7	71.0	83.4	50.3	49.2	46.2	45.2	43.6	41.4
59		2018-09-30	12:55:23	50.5	69.8	80.1	54.7	54.3	51.0	48.1	47.1	45.4
60		2018-09-30	12:55:33	50.4	70.3	77.1	53.1	52.6	51.1	50.4	47.4	46.1
61		2018-09-30	12:55:43	52.7	71.9	81.4	57.0	56.4	52.9	50.8	49.1	47.9
62		2018-09-30	12:55:53	46.8	68.9	75.8	51.4	50.7	48.5	46.7	45.1	43.0
63		2018-09-30	12:56:03	45.5	67.4	78.4	49.5	48.1	46.0	41.9	40.4	37.8
64		2018-09-30	12:56:13	43.2	67.7	82.4	47.8	47.2	44.6	43.5	42.4	39.8
65		2018-09-30	12:56:23	46.3	67.6	85.4	49.2	48.5	46.7	44.9	43.8	42.0
66		2018-09-30	12:56:33	38.5	60.5	83.7	46.0	44.9	39.3	38.1	37.8	37.6
67		2018-09-30	12:56:43	35.4	58.1	80.8	38.9	38.3	36.4	35.8	35.2	33.9
68		2018-09-30	12:56:53	36.6	61.1	78.2	38.7	38.1	36.9	36.0	34.4	33.6
69		2018-09-30	12:57:03	36.0	52.1	73.5	37.4	36.9	36.4	36.1	35.8	35.4
70		2018-09-30	12:57:13	36.0	52.1	73.5	36.6	36.6	36.3	36.1	35.9	35.5
71		2018-09-30	12:57:23	36.9	52.1	72.2	37.6	37.5	37.2	37.0	36.2	35.2
72		2018-09-30	12:57:33	38.9	55.1	76.7	40.8	40.6	39.5	39.0	38.4	36.3
73		2018-09-30	12:57:43	37.2	55.1	78.4	38.8	38.7	36.6	36.3	36.2	36.0
74		2018-09-30	12:57:53	39.6	52.1	83.8	41.6	41.6	40.2	38.9	38.1	37.5

75		2018-09-30	12:58:03	43.0	56.8	84.6	45.2	44.4	42.5	41.2	41.1	39.6
76		2018-09-30	12:58:13	44.3	59.0	79.9	46.0	45.8	44.8	44.4	44.2	43.4
77		2018-09-30	12:58:23	40.8	55.1	75.7	43.5	43.4	42.4	40.9	40.0	37.8
78		2018-09-30	12:58:33	42.4	68.6	77.8	48.6	46.8	41.2	39.2	38.1	37.0
79		2018-09-30	12:58:43	36.5	52.1	79.9	37.2	37.1	36.8	36.5	36.2	35.7
80		2018-09-30	12:58:53	39.2	55.1	84.1	40.3	40.2	39.7	39.4	39.1	37.6
81		2018-09-30	12:59:03	34.3	52.1	77.7	35.7	35.4	34.9	34.4	33.9	33.7
82		2018-09-30	12:59:13	34.6	55.1	83.7	36.2	36.0	34.7	34.4	34.1	33.7
83		2018-09-30	12:59:23	42.9	64.8	81.8	49.3	47.8	40.8	38.5	37.9	37.1
84		2018-09-30	12:59:33	47.0	67.0	79.6	50.2	49.9	48.4	46.0	43.6	38.9
85		2018-09-30	12:59:43	39.9	69.3	80.4	42.8	42.6	41.6	40.5	38.3	37.2
86		2018-09-30	12:59:53	38.3	56.8	83.6	40.5	40.2	39.5	38.6	37.0	35.8
87		2018-09-30	13:00:03	36.4	52.1	80.6	38.9	38.4	37.1	35.3	33.9	33.0
88		2018-09-30	13:00:13	38.6	52.1	84.8	41.2	40.5	38.7	37.7	37.1	35.6
89		2018-09-30	13:00:23	44.0	59.0	81.5	46.8	46.6	44.2	43.2	42.1	39.8
90		2018-09-30	13:00:33	36.1	55.1	83.4	40.0	38.8	37.5	36.6	36.2	34.8
91		2018-09-30	13:00:43	34.6	52.1	83.7	35.5	35.4	35.1	34.7	33.9	33.1
92		2018-09-30	13:00:53	34.2	63.5	83.9	36.1	36.0	34.1	33.7	33.3	32.9
93		2018-09-30	13:01:03	37.0	72.4	84.0	39.0	38.4	37.1	36.6	35.9	35.2
94		2018-09-30	13:01:13	39.0	59.0	83.9	40.4	40.1	39.3	38.7	38.2	37.0
95		2018-09-30	13:01:23	44.1	66.0	80.5	47.2	47.1	45.1	42.6	41.0	39.7
96		2018-09-30	13:01:33	38.5	63.5	81.5	39.6	39.4	38.7	38.5	38.3	38.0
97		2018-09-30	13:01:43	39.6	55.1	83.9	42.3	41.7	40.1	38.7	37.9	37.2
98		2018-09-30	13:01:53	41.1	58.1	79.0	44.9	44.2	41.1	40.2	39.6	38.9
99		2018-09-30	13:02:03	41.7	56.8	78.4	44.1	43.9	41.6	41.0	40.2	39.7
100		2018-09-30	13:02:13	46.9	65.3	78.6	50.4	50.2	48.8	41.5	40.1	38.7
101		2018-09-30	13:02:23	47.0	69.2	81.9	51.3	50.4	46.5	45.8	43.9	42.0
102		2018-09-30	13:02:33	53.3	71.2	76.5	56.1	55.7	53.1	52.0	51.2	47.5
103		2018-09-30	13:02:43	55.4	70.9	79.9	58.4	58.2	56.0	55.0	53.8	52.4
104		2018-09-30	13:02:53	48.8	62.5	74.5	53.6	52.4	49.7	49.5	48.8	47.2
105		2018-09-30	13:03:03	49.8	68.7	74.9	54.1	53.2	49.5	48.6	47.4	45.9
106		2018-09-30	13:03:13	42.8	55.1	71.3	44.5	44.2	43.7	43.2	42.4	41.7
107		2018-09-30	13:03:23	37.8	55.1	74.3	41.9	40.6	38.8	37.9	37.0	36.4
108		2018-09-30	13:03:33	38.9	55.1	76.9	40.2	40.0	38.8	38.5	38.0	37.3
109		2018-09-30	13:03:43	41.9	67.0	76.2	43.1	42.9	42.5	42.1	40.9	40.6
110		2018-09-30	13:03:53	41.7	64.6	79.2	42.7	42.7	42.0	41.5	41.1	39.6
111		2018-09-30	13:04:03	39.8	55.1	75.7	42.7	41.8	40.1	40.1	39.5	39.1
112		2018-09-30	13:04:13	40.1	65.1	70.3	44.4	43.2	39.5	39.3	38.8	37.4
113		2018-09-30	13:04:23	37.8	55.1	68.2	39.3	38.9	37.5	37.2	36.9	36.6
114		2018-09-30	13:04:33	43.7	59.0	68.4	46.5	46.4	43.9	41.4	40.0	38.9
115		2018-09-30	13:04:43	43.9	58.1	69.5	46.4	46.3	45.0	44.1	42.6	41.6
116		2018-09-30	13:04:53	42.3	58.1	73.6	44.1	44.0	42.4	42.0	41.6	41.2
117		2018-09-30	13:05:03	43.2	55.1	72.2	43.9	43.9	43.8	43.7	43.6	43.6
118	Stop	2018-09-30	13:05:03									

Baseline Noise Survey
Weather Data

Station: Paso Robles Municipal
ID: KPRB

Start date: 9/26/2018 **End date:** 10/1/2018

Day	Time	Temperature		Hourly Wind	Max Gust	Precipitation	Humidity	Daily max	Daily min
		F	C	mph	mph	in	%	F	F
9/26/2018	0:00	48	8.89			0.00	67%	52.00	34.00
	1:00	45	7.22			0.00	69%		
	2:00	44.1	6.72			0.00	71%		
	3:00	46	7.78			0.00	75%		
	4:00	44.1	6.72			0.00	77%		
	5:00	43	6.11			0.00	77%		
	6:00	42.1	5.61			0.00	80%		
	7:00	46.9	8.28			0.00	80%		
	8:00	48.9	9.39			0.00	69%		
	9:00	48.9	9.39			0.00	52%		
	10:00	46.9	8.28	4.6		0.00	34%		
	11:00	45	7.22	4.6		0.00	23%		
	12:00	43	6.11			0.00	17%		
	13:00	43	6.11	4.6		0.00	15%		
	14:00	37	2.78	6.9		0.00	11%		
	15:00	34	1.11	11.5		0.00	9%		
	16:00	50	10.00	13.8		0.00	25%		
	17:00	51.1	10.61	12.7		0.00	33%		
	18:00	50	10.00	13.8		0.00	40%		
	19:00	52	11.11	8.1		0.00	49%		
	20:00	50	10.00	9.2		0.00	54%		
	21:00	50	10.00	5.8		0.00	60%		
	22:00	48.9	9.39			0.00	64%		
	23:00	48.9	9.39			0.00	72%		

Baseline Noise Survey
Weather Data

Station: Paso Robles Municipal
ID: KPRB

Start date: 9/26/2018 **End date:** 10/1/2018

Day	Time	Temperature		Hourly Wind	Max Gust	Precipitation	Humidity	Daily max	Daily min
		F	C	mph	mph	in	%	F	F
9/27/2018	0:00	48.9	9.39			0.00	74%	51.10	32.00
	1:00	48.9	9.39	3.5		0.00	83%		
	2:00	48.9	9.39			0.00	86%		
	3:00	45	7.22			0.00	80%		
	4:00	44.1	6.72			0.00	80%		
	5:00	44.1	6.72			0.00	83%		
	6:00	43	6.11	3.5		0.00	83%		
	7:00	46.9	8.28			0.00	80%		
	8:00	50	10.00			0.00	72%		
	9:00	48.9	9.39			0.00	56%		
	10:00	50	10.00			0.00	44%		
	11:00	48	8.89	3.5		0.00	31%		
	12:00	46	7.78	3.5		0.00	22%		
	13:00	39.9	4.39			0.00	13%		
	14:00	32	0.00	6.9		0.00	9%		
	15:00	46.9	8.28	13.8		0.00	19%		
	16:00	48	8.89	16.1		0.00	25%		
	17:00	48.9	9.39	13.8		0.00	31%		
	18:00	50	10.00	10.4		0.00	40%		
	19:00	51.1	10.61			0.00	49%		
	20:00	48.9	9.39	5.8		0.00	50%		
	21:00	51.1	10.61	5.8		0.00	61%		
	22:00	51.1	10.61	3.5		0.00	70%		
	23:00	51.1	10.61	3.5		0.00	78%		

Baseline Noise Survey
Weather Data

Station: Paso Robles Municipal
ID: KPRB

Start date: 9/26/2018 **End date:** 10/1/2018

Day	Time	Temperature		Hourly Wind	Max Gust	Precipitation	Humidity	Daily max	Daily min
		F	C	mph	mph	in	%	F	F
9/28/2018	0:00	51.1	10.61			0.00	81%	52.00	45.00
	1:00	50	10.00			0.00	83%		
	2:00	48.9	9.39			0.00	86%		
	3:00	48	8.89			0.00	86%		
	4:00	46	7.78			0.00	86%		
	5:00	45	7.22			0.00	86%		
	6:00	46	7.78			0.00	86%		
	7:00	48.9	9.39			0.00	96%		
	8:00	51.1	10.61			0.00	97%		
	9:00	52	11.11	3.5		0.00	78%		
	10:00	52	11.11	4.6		0.00	59%		
	11:00	52	11.11	4.6		0.00	44%		
	12:00	52	11.11	6.9		0.00	35%		
	13:00	48	8.89	12.7		0.00	27%		
	14:00	48.9	9.39	13.8		0.00	29%		
	15:00	48.9	9.39	18.4		0.00	33%		
	16:00	50	10.00	19.6	25.3	0.00	41%		
	17:00	50	10.00	16.1		0.00	47%		
	18:00	52	11.11	12.7		0.00	60%		
	19:00	51.1	10.61	11.5		0.00	70%		
	20:00	52	11.11	9.2		0.00	78%		
	21:00	51.1	10.61	6.9		0.00	78%		
	22:00	51.1	10.61	8.1		0.00	84%		
	23:00	51.1	10.61	4.6		0.00	90%		

Baseline Noise Survey
Weather Data

Station: Paso Robles Municipal
ID: KPRB

Start date: 9/26/2018 **End date:** 10/1/2018

Day	Time	Temperature		Hourly Wind	Max Gust	Precipitation	Humidity	Daily max	Daily min
		F	C	mph	mph	in	%	F	F
9/29/2018	0:00	48.9	9.39	5.8		0.00	86%	52.00	48.00
	1:00	50	10.00	5.8		0.00	89%		
	2:00	51.1	10.61	8.1		0.00	86%		
	3:00	52	11.11	8.1		0.00	89%		
	4:00	52	11.11	5.8		0.00	87%		
	5:00	51.1	10.61	5.8		0.00	84%		
	6:00	50	10.00	4.6		0.00	80%		
	7:00	50	10.00	3.5		0.00	77%		
	8:00	51.1	10.61	3.5		0.00	81%		
	9:00	48.9	9.39	3.5		0.00	69%		
	10:00	50	10.00	4.6		0.00	65%		
	11:00	48.9	9.39	4.6		0.00	54%		
	12:00	48	8.89	4.6		0.00	47%		
	13:00	48	8.89	5.8		0.00	40%		
	14:00	48	8.89	8.1		0.00	38%		
	15:00	48	8.89	12.7		0.00	40%		
	16:00	48.9	9.39	12.7		0.00	44%		
	17:00	50	10.00	12.7		0.00	49%		
	18:00	50	10.00	10.4		0.00	58%		
	19:00	50	10.00	10.4		0.00	67%		
	20:00	50	10.00			0.00	72%		
	21:00	50	10.00	8.1		0.00	77%		
	22:00	48.9	9.39			0.00	77%		
	23:00	48	8.89	3.5		0.00	83%		

Baseline Noise Survey
Weather Data

Station: Paso Robles Municipal
ID: KPRB

Start date: 9/26/2018 **End date:** 10/1/2018

Day	Time	Temperature		Hourly Wind	Max Gust	Precipitation	Humidity	Daily max	Daily min
		F	C	mph	mph	in	%	F	F
9/30/2018	0:00	48	8.89			0.00	83%	54.00	44.10
	1:00	45	7.22	3.5		0.00	83%		
	2:00	44.1	6.72			0.00	83%		
	3:00	46	7.78			0.00	86%		
	4:00	46.9	8.28			0.00	83%		
	5:00	46	7.78	5.8		0.00	80%		
	6:00	48	8.89	5.8		0.00	83%		
	7:00	48	8.89	8.1		0.00	83%		
	8:00	51.1	10.61	6.9		0.00	86%		
	9:00	52	11.11	3.5		0.00	78%		
	10:00	54	12.22	3.5		0.00	70%		
	11:00	53.1	11.72	5.8		0.00	55%		
	12:00	52	11.11	3.5		0.00	46%		
	13:00	51.1	10.61			0.00	39%		
	14:00	48.9	9.39	4.6		0.00	33%		
	15:00	48.9	9.39	13.8		0.00	33%		
	16:00	50	10.00	15.0		0.00	39%		
	17:00	48.9	9.39	13.8		0.00	42%		
	18:00	52	11.11	4.6		0.00	56%		
	19:00	52	11.11	3.5		0.00	59%		
	20:00	51.1	10.61	6.9		0.00	63%		
	21:00	53.1	11.72	6.9		0.00	75%		
	22:00	53.1	11.72	4.6		0.00	81%		
	23:00	51.1	10.61	4.6		0.00	84%		

Baseline Noise Survey
Weather Data

Station: Paso Robles Municipal
ID: KPRB

Start date: 9/26/2018 **End date:** 10/1/2018

Day	Time	Temperature		Hourly Wind	Max Gust	Precipitation	Humidity	Daily max	Daily min
		F	C	mph	mph	in	%	F	F
10/1/2018	0:00	50	10.00	3.5		0.00	86%	51.10	28.90
	1:00	48	8.89			0.00	89%		
	2:00	46.9	8.28			0.00	89%		
	3:00	45	7.22	4.6		0.00	86%		
	4:00	45	7.22			0.00	86%		
	5:00	43	6.11	3.5		0.00	86%		
	6:00	44.1	6.72	3.5		0.00	86%		
	7:00	46.9	8.28			0.00	89%		
	8:00	48.9	9.39			0.00	80%		
	9:00	51.1	10.61			0.00	70%		
	10:00	50	10.00			0.00	54%		
	11:00	48	8.89			0.00	41%		
	12:00	43	6.11			0.00	28%		
	13:00	39.9	4.39	8.1		0.00	21%		
	14:00	33.1	0.61	8.1		0.00	15%		
	15:00	33.1	0.61	10.4		0.00	15%		
	16:00	28.9	-1.72	12.7		0.00	14%		
	17:00	30	-1.11	8.1		0.00	16%		
	18:00	30	-1.11	8.1		0.00	19%		
	19:00	34	1.11	5.8		0.00	27%		
	20:00	33.1	0.61	3.5		0.00	29%		
	21:00	45	7.22	3.5		0.00	48%		
	22:00	45	7.22	3.5		0.00	52%		
	23:00	46	7.78	3.5		0.00	60%		

Appendix D.
Field Logs

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Baseline Noise Survey
Monitoring Locations

Location: NSA1

Coordinates	Lat:	35.555495
	Lon:	-120.683139
	Elevation (ft):	808

Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3330		S/N:	23950
Microphone	Model :	377B02			
	S/N:	306236			
Monitoring	Start Time:	13:30	**Calibrations**	Pre-Test:	12:45 - 114.00
	End Time:	13:47		Post-Test:	113.97

Location Description
NSA 1 - Ranch West of susbtation

Parameter	30-Sep										
	13:30	13:47									
Duration hh:mm		17:00									
Memory	99%	99%									
Battery	8.5	8.5									
Exceedance Events		18									
Overall Peak		92.20									
Overall Laeq		48.10									
LDN		48.10									
Day		48.10									
Night		-									

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
	30-Sep	13:31	traffic
	30-Sep	13:31	horses

Baseline Noise Survey
Monitoring Locations

Location: NSA3

Coordinates	Lat:	35.554613				
	Lon:	-120.687715				
	Elevation (ft):	845				
Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831	
	S/N:	3330		S/N:	23950	
Microphone	Model :	377B02				
	S/N:	306236				
Monitoring	Start Time:	11:10	**Calibrations**	Pre-Test:	11:10	11:25
	End Time:	11:25		Post-Test:	114.03	113.98

Location Description
NSA 3 - House West of Substation

Parameter	30-Sep											
	11:10	11:25										
Duration hh:mm		0:15										
Memory	99%	99%										
Battery	8	8										
Exceedance Events		35										
Overall Peak		86.00										
Overall Laeq		46.30										
LDN		46.30										
Day		46.30										
Night		-										

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
		11:25	Truck
		11:25	Wind

Baseline Noise Survey
Monitoring Locations

Location: NSA5

Coordinates	Lat:	35.55608
	Lon:	-120.688986
	Elevation (ft):	823

Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3330		S/N:	23950
Microphone	Model :	377B02			
	S/N:	306236			
Monitoring	Start Time:	10:40	**Calibrations**	Pre-Test:	10:37 - 113.97
	End Time:	10:59		Post-Test:	11:00 - 114.02

Location Description
NSA5 - House west of substation

Parameter	30-Sep										
	10:40	10:59									
Duration hh:mm		0:19									
Memory	99%	99%									
Battery	8	8									
Exceedance Events		0									
Overall Peak		87.00									
Overall Laeq		38.00									
LDN		38.00									
Day		38.00									
Night		-									

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)

Baseline Noise Survey
Monitoring Locations

Location: NSA6

Coordinates	Lat:	35.558346			
	Lon:	-120.687571			
	Elevation (ft):	753			
Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3330		S/N:	23950
Microphone	Model :	377B02			
	S/N:	306236			
Monitoring	Start Time:	12:00	**Calibrations**	Pre-Test:	11:59 -114.03
	End Time:	12:15		Post-Test:	12:16 - 113.97

Location Description
NSA6 - House Northwest of substation

Parameter	30-Sep										
	12:00	12:15									
Duration hh:mm		0:15									
Memory	99%	99%									
Battery	8	8									
Exceedance Events		24									
Overall Peak		92.30									
Overall Laeq		50.40									
LDN		50.40									
Day		50.40									
Night											

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
	30-Sep	12:14	Traffic

Baseline Noise Survey
Monitoring Locations

Location: NSA7

Coordinates	Lat:	35.557838
	Lon:	-120.687105
	Elevation (ft):	757

Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3330		S/N:	23950
Microphone	Model :	377B02			
	S/N:	306236			
Monitoring	Start Time:	12:20	**Calibrations**	Pre-Test:	114.03
	End Time:	12:35		Post-Test:	113.99

Location Description
NSA7 - House Northwest of substation

Parameter	30-Sep										
	12:20	12:35									
Duration hh:mm		0:15									
Memory	99%	99%									
Battery	8	8									
Exceedance Events		18									
Overall Peak		89.10									
Overall Laeq		47.80									
LDN		47.80									
Day		47.80									
Night		-									

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
			Traffic

Baseline Noise Survey
Monitoring Locations

Location: NSA9

Coordinates	Lat:	35.560392			
	Lon:	-120.685893			
	Elevation (ft):	827			
Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3330		S/N:	23950
Microphone	Model :	377B02			
	S/N:	306236			
Monitoring	Start Time:	12:45	**Calibrations**	Pre-Test:	12:45 - 114.00
	End Time:	13:05		Post-Test:	113.97

Location Description
NSA9 - House Northwest of Substation

Parameter	30-Sep										
	12:45	13:05									
Duration hh:mm		0:19									
Memory	99%	99%									
Battery	8	8									
Exceedance Events		32									
Overall Peak		88.20									
Overall Laeq		48.20									
LDN		48.20									
Day		48.20									
Night		-									

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
			traffic
			chickens
			dog

Baseline Noise Survey
Monitoring Locations

Location: OS_1

Coordinates	Lat:	35.555402°				
	Lon:	-120.681287°				
	Elevation (ft):	814				
Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831	
	S/N:	3174		S/N:	51306	
Microphone	Model :	377B02				
	S/N:	177014				
Monitoring	Start Time:	10:31	**Calibrations**	Pre-Test:	113.97	9/26/2018 8:18
	End Time:			Post-Test:	114.06	9/26/2018 8:53

114.05

Location Description
Templeton Substation - Access Gate

Parameter	26-Sep		27-Sep		28-Sep		29-Sep		30-Sep		1-Oct
	10:31	15:51	9:35	16:34	7:42	15:44	8:53		9:13		9:47
Duration hh:mm		5:19	23:05	30:02	45:11	53:13	70:23		94:41		119:15
Memory	99%	99%	99%	99%	99%	99%	99%		99%		99%
Battery	16hr	15.2	14.5	14.8	14.3	14.6	13.4		12.7		5.2
Exceedance Events		31	156	205	261	346	422		525		685
Overall Peak		101.50	101.50	101.50	108.90	105.60	105.60		105.60		105.60
Overall Laeq		42.90	44.20	44.00	44.10	44.20	43.90		43.70		43.80
LDN		42.90	50.40	50.40	50.20	50.20	49.70		49.50		49.60
Day		42.90	44.40	44.00	44.30	44.40	44.30		44.20		44.30
Night		-	44.00	44.00	43.60	43.60	43.10		42.90		43.00

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
Substation	26-Sep	10:30	Templeton Station
Lines	26-Sep	10:30	Transmission lines
Traffic	26-Sep	10:30	Distant traffic
Lines	27-Sep	9:36	Templeton Station
Substation	27-Sep	9:36	Transmission lines

Baseline Noise Survey
Monitoring Locations

Location: OS_2

Coordinates	Lat:	35.554778
	Lon:	-120.681997
	Elevation (ft):	806

Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3330		S/N:	23950
Microphone	Model :	377B02			
	S/N:	306236			
Monitoring	Start Time:	10:41	**Calibrations**	Pre-Test:	113.97 9/26 10:40
	End Time:	8:56		Post-Test:	113.92 9/30 9:18

Location Description
East corner of the Susbtastation

Parameter	26-Sep		27-Sep		28-Sep		29-Sep		30-Sep		
	10:41	15:54	9:42	16:36	7:46	15:47	8:56		9:16		
Duration hh:mm		5:13	23:01	29:55	45:05	53:06	70:16		94:35		
Memory	99%	99%	99%	99%	99%	99%	99%		99%		
Battery	16hr	15.2	14.8	16:48	13.6	14.5	13		11.8		
Exceedance Events		71	214	0:00	413	495	572		713		
Overall Peak		100.30	100.30	101.60	101.60	101.60	101.60		108.20		
Overall Laeq		41.30	44.90	44.40	44.70	44.50	44.10		43.80		
LDN		41.30	51.80	51.70	51.50	51.50	50.60		50.40		
Day		41.30	44.50	43.70	44.30	44.10	43.90		43.70		
Night		-	45.50	45.50	45.20	45.20	44.20		44.00		

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
	26-Sep	10:41	rooster
	26-Sep	10:41	horses

Baseline Noise Survey
Monitoring Locations

Location: OS_3

Coordinates	Lat:	35.554284			
	Lon:	-120.678908			
	Elevation (ft):	811			
Sound Meter	Model :	831	**Preamplifier**	Model :	PRM831
	S/N:	3558		S/N:	19136
Microphone	Model :	377B02			
	S/N:	305910			
Monitoring	Start Time:	10:56	**Calibrations**	Pre-Test:	114.03 10:55 9/26
	End Time:	10:00		Post-Test:	114.09 10:01 10/1

Location Description
Southeast corner of substation

Parameter	26-Sep		27-Sep		28-Sep		29-Sep		30-Sep		1-Oct
	10:56		9:54	16:43	7:55	15:54	9:05		8:58		10:00
Duration hh:mm			22:58	29:47	44:59	52:58	70:08		94:01		119:01
Memory	99%		9900%	99%	99%	99%	99%		99%		99%
Battery	16hr		14.7hr	14.8	13.8	14.2	12.2		12.2		2.9
Exceedance Events			45	234	438	581	634		781		1075
Overall Peak			104.20	104.20	104.20	106.30	106.30		106.30		107.70
Overall Laeq			45.10	44.60	45.00	44.90	44.40		44.20		44.20
LDN			51.60	51.50	51.40	51.40	50.70		50.40		50.50
Day			44.80	44.30	44.80	44.70	44.60		44.40		44.40
Night			45.20	45.20	45.00	45.00	44.20		43.90		44.10

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
			station
			traffic

Baseline Noise Survey
Monitoring Locations

Location: OS_4

Coordinates	Lat:	35.55633
	Lon:	-120.68021
	Elevation (ft):	831
Sound Meter	Model :	831
	S/N:	3559
Preamplifier	Model :	PRM831
	S/N:	29390
Microphone	Model :	377B02
	S/N:	305891
Monitoring	Start Time:	11:05
	End Time:	9:54
Calibrations	Pre-Test:	114.16 11:05 9/26
	Post-Test:	114.10 9:55 10/1

Location Description
Corner north of substation

Parameter	26-Sep		27-Sep		28-Sep		29-Sep		30-Sep		1-Oct
	11:05	15:48	9:49	16:40	7:50	15:52	9:00		9:08		9:53
Duration hh:mm		4:43	22:44	29:36	44:48	52:48	69:57		94:04		118:49
Memory	99%	99%	99%	2376:00:00	99%	99%	99%		99%		99%
Battery	16hr	15.3	14.7hr	355:12	14.2	14.2	13.6		11.3		4.1
Exceedance Events		429	1343	1961	2582	3317	4040		5142		5444
Overall Peak		106.50	106.50	106.50	106.50	106.50	106.50		106.50		106.50
Overall Laeq		49.00	48.10	48.30	47.90	48.20	47.90		47.50		47.50
LDN		49.00	52.60	52.60	52.30	52.40	52.20		51.90		52.00
Day		49.00	49.20	49.10	49.40	49.20	49.10		48.80		48.70
Night		-	45.40	54.40	45.10	45.10	44.80		44.50		44.70

Log:

Event	Day	Time	Comment (Dominant Background Noise Source)
	26-Sep	11:05	transmission lines
	26-Sep	11:05	traffic