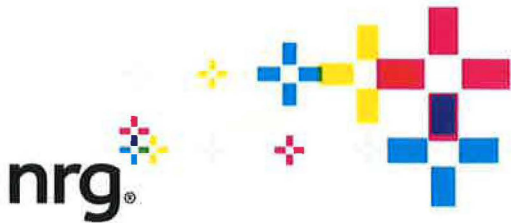


DOCKETED

Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	228031
Document Title:	AIR QUALITY QUARTERLY OPERATIONAL REPORT- FIRST QUARTER 2019
Description:	N/A
Filer:	Anwar Ali
Organization:	Carlsbad Energy Center LLC
Submitter Role:	Applicant
Submission Date:	5/1/2019 9:48:37 AM
Docketed Date:	5/1/2019



Carlsbad Energy Center LLC
804 Carnegie Center
Princeton, NJ 08540
Phone: 760-710-3970

April 30, 2019

Anwar Ali, Ph.D.
Compliance Project Manager
Carlsbad Energy Center Project (07-AFC-06C)
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, CA 95814

**RE: CARLSBAD ENERGY CENTER PROJECT, DOCKET NO. 07-AFC-06C
CONDITION OF CERTIFICATION, AQ-SC8
QUARTERLY OPERATIONAL REPORT, FIRST QUARTER 2019**

Dear Dr. Ali:

Carlsbad Energy Center LLC ("Project Owner") submits the first quarter 2019 Operational Report in compliance with the AFC Docket No. 07-AFC-06C, Conditions of Certification (COCs) AQ-SC8 for the amended Carlsbad Energy Center Project (ACECP) located at 4600 Carlsbad Boulevard, Carlsbad, California.

This report includes operational and emissions information that demonstrates the facility met all applicable conditions of certification during this operational period.

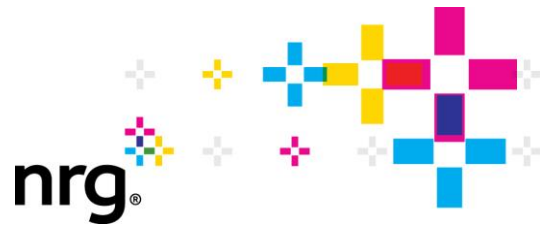
If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 710-3943.

Sincerely,

Paul Mattesich
Plant Manager
Carlsbad Energy Center LLC

Attached: Carlsbad Energy Center Project (07-AFC-06C), California Energy Commission, Quarterly Operational Report, First Quarter 2019,

Cc: File



Carlsbad Energy Center Project (07-AFC-06C)

**California Energy Commission
Quarterly Operational Report**

First Quarter 2019

***Submitted by: Carlsbad Energy Center LLC
Date Submitted: 4-30-2019***

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AQ-15: Startup Event Duration

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Attachment D Post Commercial Data Summary:

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AQ-28: CO Corrected 4.0 PPM 1-Hour Average Data

AQ-30: Ammonia Source Test and Calculated Corrected Ammonia Slip 5.0 PPM 1-Hour Average

AQ-31: NOx 42 PPM Limit

AQ-32: NOx 13.6 PPM Limit

AQ-33: NOX 22.6 PPM Limit

AQ-39: NOx, CO, and VOC Pound Per Operating Hour Summary

AQ-42: NOx 90 Pound Per Hour and 100 PPM Limit Summary

AQ-43: CO 248 Pound Per Hour and 400 PPM Limit Summary

Attachment E CEMS Startup/Shutdown Report:

AQ-40: NOx, CO, and VOC Pound Per Startup Summary

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AQ-40: VOC Portion Only

AQ-41: VOC Portion Only

Attachment I Encina Power Station Operations Statement:

AQ-47: Encina Emissions Summary Following CECP Startup

Attachment J Noncompliance Statement:

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Attachment K Diesel Fire Pump Operations Logs:

AQ-95: Fire Pump Hour Limit

AQ-105: Fire Pump Operating Log

Attachment L Verifications Not Required for First Quarter 2019:

AQ-44: Rolling 12-Month Annual Emissions Summary NO_x, CO, VOC, PM₁₀, and Sox

AQ-45: Rolling 12-Month Annual Emissions CO

AQ-49: Annual Operating Hours Summary

AQ-50: Annual Starts Per Turbine Summary

AQ-51: Commissioning Starts Per Turbine Summary

AQ-90: Initial Startup Notification

I. Summary

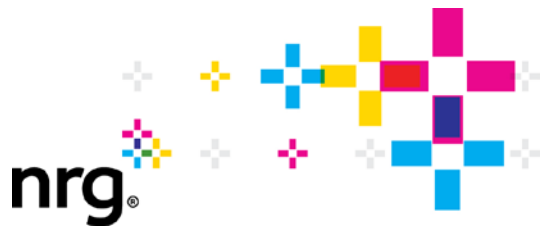
a. Project Quarterly Compliance Summary

The Carlsbad Energy Center Project (CECP) began commercial operation on December 12, 2018. In compliance with the California Energy Commission (Energy Commission) license, CECP submits the information herein demonstrating compliance with condition of certification AQ-SC8 quarterly reporting requirements.

This quarterly report includes data required by AQ-SC8 for the first quarter of 2019.

Attachment A SO2 Allowance Compliance Statement:

AQ-11: Annual SO2 Emission and Allowances



4950 Avenida Encinas
Carlsbad, CA 92008
Phone: 760-710-3970

April 30, 2019

Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT – SO2 COMPLIANCE STATEMENT

The following conditions required in AQ-SC8 Quarterly Report require an annual SO2 allowance and emission report that is generated annually by the EPA based on the prior year's EPA EDR submittals and will not be available until the fourth quarter Quarterly Operations Report:

- AQ-11

Attachment B Quality Assurance Plan Compliance Statement:

AQ-14: Shutdown Event Duration

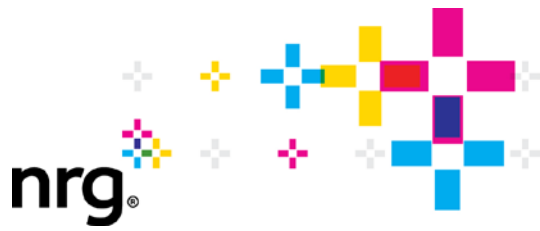
AQ-15: Startup Event Duration

AQ-24: CEMS Data Summaries (Part 60 Subpart KKKK,
and 40 CFR Part 75)

AQ-26: CEMS Minute Data Summary

AQ-75: Data Substitution Calculations

AQ-80: Natural Gas Fuel Flow Summary Per Unit



4950 Avenida Encinas
Carlsbad, CA 92008
Phone: 760-710-3970

April 30, 2019

Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT - QUALITY ASSURANCE
PLAN COMPLIANCE STATEMENT

The following conditions required in AQ-SC8 Quarterly Report are covered in the Quality Assurance Plan:

- AQ-14
- AQ-15
- AQ-24
- AQ-26
- AQ-75
- AQ-80

Attachment C Sulfur Content Lab Report:

AQ-22: Natural Gas Sulfur Content



March 15, 2019

Mr. Timothy R. Sisk
Carlsbad Energy Center LLC
4600 Carlsbad Blvd.
Carlsbad, CA 92008

**Subject: 1Q19 Quarterly Fuel Analysis Results for Carlsbad Energy Center
Report Number: 002AS-563212-RT-1319**

Dear Tim,

Montrose Air Quality Services, LLC (MAQS) collected two natural gas samples from Carlsbad Energy Center on February 8th, 2019. The samples were delivered to Quantum Analytical Services and analyzed for sulfur compounds by EPA Method ASTM D6228-98. The result of the analysis was 2.02 ppmv total reduced sulfur compounds as Sulfur. This letter presents the calculations from ppm to grains per hundred standard cubic feet.

$$\frac{2.02 \text{ scf S}}{10^6 \text{ scf fuel}} * \frac{32 \text{ lb}}{\text{lb-mole}} * \frac{\text{lb-mole}}{379.5 \text{ scf}} * \frac{100 \text{ scf}}{\text{hundred scf}} * \frac{7000 \text{ grains}}{\text{lb}} = \frac{0.12 \text{ grains S}}{\text{hundred scf}}$$

The lab report is attached for your reference. Please give me a call if you have any further questions or comments.

Sincerely,

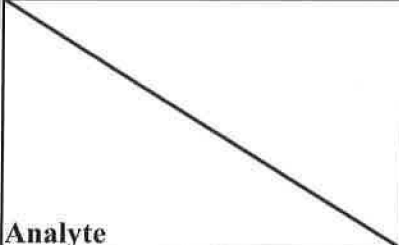
A handwritten signature in black ink, appearing to read "Rik Dupont", is written over a horizontal line.

Rik Dupont
Sr. Field Technician
Montrose Air Quality Services, LLC

ATTACHMENTS

CLIENT	MONTROSE
PROJECT NO:	NRG Energy
LABORATORY NO:	19-109
SAMPLING DATE:	02/08/19
RECEIVING DATE:	02/08/19
ANALYSIS DATE:	02/08/19
REPORT DATE:	02/11/19

Laboratory Analysis Report

Analysis Method	ASTM D6228-98		
Detection Limits	0.05 PPMV		
 Analyte	Client ID	1-Fuel	2-Fuel
	Sampling Date	2/8/2019	2/8/2019
	Sampling Time	0820	0822
	Lab ID	32418-3	32418-4
	Units	PPMV	PPMV
Hydrogen Sulfide	0.32	0.34	
Carbonyl Sulfide	<0.05	<0.05	
Methyl Mercaptan	<0.05	<0.05	
Ethyl Mercaptan	<0.05	<0.05	
t-Butyl Mercaptan	1.25	0.96	
Tetrahydrothiophene	0.83	0.60	
Un-Identified S Compounds	<0.05	<0.05	
TRS as H2S	2.39	1.90	
TRS as S	2.251	1.78	

TRS: Total Reduced Sulfur as Hydrogen Sulfide



Dr. Andrew Kitto

President

CLIENT MONTROSE
PROJECT NO: NRG Energy
LABORATORY NO: 19-109
SAMPLING DATE: 02/08/19
RECEIVING DATE: 02/08/19
ANALYSIS DATE: 02/08/19
REPORT DATE: 02/11/19

Quality Assurance Report

Sample ID: 2-Fuel

Lab ID: 32418-4

Analysis Method		ASTM D6228-98		
Detection Limit		0.05 PPMV		
Analyte	Aver. Conc. PPMV	Dil. Factor Ambient Air	DF*A/CF PPMV	% Sample† Recovery
Hydrogen Sulfide	0.35	1.0	0.35	101
Carbonyl Sulfide	<0.05	1.0	<0.05	N/A
Methyl Mercaptan	<0.05	1.0	<0.05	N/A
Ethyl Mercaptan	<0.05	1.0	<0.05	N/A
t-Butyl Mercaptan	0.96	1.0	0.97	101
Tetrahydrothiophene	0.60	1.0	0.59	99
Unidentified S Compounds	<0.05	1.0	<0.05	N/A
TRS as H2S	1.90	1.0	1.91	100

NA: Not Applicable



Dr. Andrew Kitto
President

19-109

CHAIN OF CUSTODY


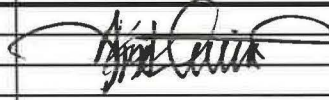
002AS-563212-RT-1319

CLIENT: NRG Energy PROJECT NUMBER: 002AS-563212 TEST DATE(S): 2/8/2019
 LOCATION: Carlsbad SAMPLER(S): RD
 SAMPLE LOCATION: Gas Line PROJECT MANAGER: JP
 TEST METHOD(S): ASTM D6228-98 DATE DUE: 2/18/2019
 OUTSIDE LAB REQUIRED?: Yes - Quantum Lab COMPLIANCE TEST? Yes

1617
3919-7
-8

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
2/8/2019	1112	1-Fuel	5L Tedlar Bag	1	RD	5 L Tedlar Bag
2/8/2019	1113	2-Fuel	5L Tedlar Bag	1	RD	5 L Tedlar Bag

5 of 6

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	2/8/2019 1313		2-8-19 13:15

ANALYSIS REQUIRED: Please report TRS as Sulfur in addition to H₂S
USE PO# PO1030689



Date of Last Revision 9/1/2017

Chain of Custody - DS834001 - Excel
Master Document Storage\Forms\Datasheets\Lab Forms

THIS IS THE LAST PAGE OF THIS DOCUMENT

If you have any questions, please contact one of the following individuals by email or phone.

Name: Rik Dupont
Title: Sr. Field Technician
Region: Western
E-Mail: Rdupont@montrose-env.com
Phone: (949) 379-9231

Name: Mr. Matt McCune
Title: Regional Vice President
Region: Western
E-Mail: MMccune@montrose-env.com
Phone: (714) 279-6777

Attachment D Post Commercial Data Summary:

AQ-27: NO_x Corrected 2.5 PPM 1-Hour Average Data

AQ-28: CO Corrected 4.0 PPM 1-Hour Average Data

AQ-30: Ammonia Source Test and Calculated Corrected Ammonia Slip 5.0 PPM 1-Hour Average

AQ-31: NO_x 42 PPM Limit

AQ-32: NO_x 13.6 PPM Limit

AQ-33: NO_x 22.6 PPM Limit

AQ-39: NO_x, CO, and VOC Pound Per Operating Hour Summary

AQ-42: NO_x 90 Pound Per Hour and 100 PPM Limit Summary

AQ-43: CO 248 Pound Per Hour and 400 PPM Limit Summary

Average Values Report
Generated: 4/23/2019 06:34Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 6Period Start: 1/1/2019 00:00
Period End: 3/31/2019 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 6NOxCorOP1 ppm	Average 6NOX#OP1HR LBS	Average 6COCorOP1 ppm	Average 6CO#OP1HR LBS	Average 6NH3CorOP1 ppm	Notes
01/01/2019 19:00	1.5	1.3	0.1	0.0	2.5	
01/01/2019 20:00	1.5	1.0	0.0	0.0	2.5	
01/02/2019 11:00	1.6	0.5	0.0	0.0	2.0	
01/02/2019 12:00	1.5	1.9	0.2	0.1	2.1	
01/02/2019 13:00	1.4	1.5	0.0	0.0	2.7	
01/02/2019 17:00	1.6	2.0	0.0	0.0	2.2	
01/02/2019 18:00	1.5	2.7	0.0	0.0	2.4	
01/02/2019 19:00	1.5	2.0	0.0	0.0	2.7	
01/03/2019 17:00	1.1	0.3	0.0	0.0	2.8	
01/03/2019 18:00	1.6	0.2	0.2	0.0	2.9	
01/04/2019 18:00	1.8	0.8	0.6	0.2	1.9	
01/04/2019 19:00	1.4	3.3	0.2	0.4	2.1	
01/04/2019 20:00	1.5	1.5	0.0	0.0	2.0	
01/04/2019 22:00	1.5	1.5	0.0	0.0	2.0	
01/05/2019 08:00	1.5	1.1	0.3	0.2	1.9	
01/06/2019 09:00	1.6	1.6	0.4	0.2	2.3	
01/06/2019 16:00	1.6	0.6	0.0	0.0	2.1	
01/06/2019 17:00	1.4	1.4	0.0	0.0	2.1	
01/07/2019 06:00	1.6	0.9	0.6	0.2	2.5	
01/07/2019 07:00	1.5	2.9	0.3	0.3	2.0	
01/07/2019 08:00	1.4	1.4	0.3	0.2	2.1	
01/07/2019 16:00	1.5	1.8	0.1	0.1	2.3	
01/07/2019 17:00	1.5	2.1	0.1	0.1	2.7	
01/07/2019 18:00	1.5	2.1	0.1	0.1	3.0	
01/07/2019 20:00	1.5	2.1	0.2	0.1	2.2	
01/07/2019 21:00	1.5	3.1	0.2	0.2	2.5	
01/07/2019 22:00	1.5	1.5	0.3	0.2	2.1	
01/08/2019 06:00	1.4	0.9	0.5	0.2	2.1	
01/08/2019 07:00	1.5	2.1	0.2	0.1	2.6	
01/08/2019 16:00	1.5	4.2	0.2	0.4	1.9	
01/08/2019 17:00	1.4	3.6	0.2	0.4	2.2	
01/08/2019 18:00	1.5	2.1	0.1	0.1	2.7	
01/08/2019 19:00	1.4	0.4	0.1	0.0	2.7	
01/09/2019 06:00	1.3	0.6	0.5	0.1	2.5	
01/09/2019 07:00	1.5	2.2	0.2	0.1	2.6	
01/09/2019 16:00	1.5	1.6	0.0	0.0	2.2	
01/09/2019 20:00	1.5	1.5	0.0	0.0	2.6	
01/09/2019 21:00	1.5	2.2	0.0	0.0	2.6	
01/09/2019 22:00	1.5	0.5	0.0	0.0	2.3	
01/10/2019 06:00	1.7	0.8	0.3	0.1	2.2	
01/10/2019 07:00	1.4	2.5	0.0	0.1	2.5	
01/10/2019 08:00	1.4	1.1	0.0	0.0	2.6	
01/10/2019 16:00	1.5	1.3	0.0	0.0	2.3	
01/10/2019 20:00	1.5	1.5	0.0	0.0	2.3	
01/10/2019 21:00	1.5	2.3	0.0	0.0	2.5	
01/10/2019 22:00	1.5	1.1	0.0	0.0	2.5	
01/11/2019 06:00	1.5	1.1	0.1	0.0	2.8	
01/11/2019 07:00	1.5	2.1	0.0	0.0	2.9	
01/11/2019 08:00	1.5	1.0	0.0	0.0	2.9	
01/11/2019 17:00	1.5	1.8	0.0	0.0	2.1	
01/11/2019 18:00	1.5	2.0	0.0	0.0	2.1	
01/11/2019 19:00	1.5	2.1	0.0	0.0	2.2	
01/11/2019 20:00	1.5	2.1	0.0	0.0	2.2	
01/11/2019 21:00	1.5	1.0	0.0	0.0	2.0	
01/12/2019 17:00	1.5	0.8	0.0	0.0	2.1	
01/12/2019 18:00	1.5	2.3	0.0	0.0	2.0	
01/12/2019 19:00	1.6	2.5	0.0	0.0	2.0	
01/12/2019 20:00	1.5	2.2	0.0	0.0	2.1	
01/12/2019 21:00	1.5	1.5	0.0	0.0	2.0	
01/13/2019 07:00	1.4	0.9	0.0	0.0	2.0	
01/13/2019 16:00	1.5	1.4	0.0	0.0	2.0	
01/13/2019 17:00	1.5	2.1	0.0	0.0	2.0	
01/13/2019 18:00	1.5	2.1	0.0	0.0	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
01/13/2019 19:00	1.5	2.2	0.0	0.0	2.0	
01/13/2019 20:00	1.5	2.1	0.0	0.0	2.0	
01/13/2019 21:00	1.5	2.0	0.0	0.0	1.9	
01/14/2019 06:00	1.6	1.7	0.1	0.0	2.0	
01/14/2019 07:00	1.5	2.9	0.0	0.0	2.1	
01/14/2019 08:00	1.5	4.7	0.1	0.1	1.8	
01/14/2019 09:00	1.5	4.5	0.0	0.1	1.6	
01/14/2019 10:00	1.5	4.7	0.1	0.2	1.5	
01/14/2019 11:00	1.5	5.5	0.1	0.2	1.6	
01/14/2019 12:00	1.5	5.1	0.1	0.1	1.6	
01/14/2019 13:00	1.5	4.9	0.0	0.0	1.7	
01/14/2019 14:00	1.4	3.7	0.0	0.0	1.7	
01/14/2019 15:00	1.5	2.1	0.0	0.0	2.1	
01/14/2019 16:00	1.5	2.1	0.0	0.0	2.1	
01/14/2019 17:00	1.5	3.2	0.0	0.0	1.8	
01/14/2019 18:00	1.5	3.0	0.0	0.0	1.8	
01/14/2019 19:00	1.5	2.2	0.0	0.0	2.1	
01/14/2019 20:00	1.5	2.2	0.0	0.0	2.2	
01/14/2019 21:00	1.5	2.1	0.0	0.0	2.3	
01/14/2019 22:00	1.5	1.1	0.0	0.0	2.1	
01/15/2019 06:00	1.5	1.3	0.1	0.1	1.8	
01/15/2019 07:00	1.5	3.8	0.0	0.0	1.9	
01/15/2019 08:00	1.5	2.9	0.0	0.0	2.0	
01/15/2019 09:00	1.5	3.0	0.0	0.0	2.1	
01/15/2019 10:00	1.5	3.0	0.0	0.0	2.0	
01/15/2019 11:00	1.5	3.1	0.0	0.0	2.0	
01/15/2019 12:00	1.5	4.0	0.0	0.0	1.9	
01/15/2019 13:00	1.5	4.2	0.0	0.0	1.8	
01/15/2019 14:00	1.4	2.4	0.0	0.0	2.0	
01/15/2019 15:00	1.5	2.8	0.0	0.1	2.2	
01/15/2019 16:00	1.5	2.1	0.0	0.0	2.2	
01/15/2019 17:00	1.5	2.1	0.0	0.0	2.2	
01/15/2019 18:00	1.5	3.0	0.0	0.0	1.9	
01/15/2019 19:00	1.5	3.1	0.0	0.0	1.9	
01/15/2019 20:00	1.5	3.0	0.0	0.0	2.1	
01/15/2019 21:00	1.5	2.1	0.0	0.0	2.0	
01/15/2019 22:00	1.5	0.5	0.0	0.0	2.0	
01/16/2019 06:00	1.5	1.5	0.0	0.0	2.0	
01/16/2019 07:00	1.5	3.3	0.0	0.0	1.9	
01/16/2019 08:00	1.5	2.7	0.0	0.0	2.0	
01/16/2019 09:00	1.5	1.1	0.0	0.0	2.1	
01/16/2019 14:00	1.3	0.3	0.0	0.0	2.0	
01/16/2019 15:00	1.6	2.6	0.0	0.0	2.1	
01/16/2019 16:00	1.5	3.9	0.0	0.0	1.7	
01/16/2019 17:00	1.5	4.4	0.1	0.3	1.7	
01/16/2019 18:00	1.5	4.8	0.0	0.1	1.6	
01/16/2019 19:00	1.5	4.3	0.0	0.0	1.5	
01/16/2019 20:00	1.5	4.7	0.0	0.0	1.5	
01/16/2019 21:00	1.5	3.7	0.0	0.0	1.6	
01/16/2019 22:00	1.4	1.6	0.0	0.0	1.9	
01/17/2019 06:00	1.5	1.5	0.0	0.0	2.0	
01/17/2019 07:00	1.5	2.2	0.0	0.0	2.0	
01/17/2019 08:00	1.5	2.1	0.0	0.0	2.0	
01/17/2019 16:00	1.5	1.0	0.0	0.0	2.1	
01/17/2019 17:00	1.5	2.6	0.0	0.0	1.9	
01/17/2019 18:00	1.6	1.8	0.1	0.0	1.8	
01/17/2019 19:00	1.4	2.9	0.0	0.0	1.7	
01/17/2019 22:00	1.5	1.3	0.0	0.0	2.1	
01/18/2019 06:00	1.6	1.5	0.0	0.0	2.1	
01/18/2019 07:00	1.5	2.0	0.0	0.0	2.1	
01/18/2019 17:00	1.8	1.6	0.3	0.1	2.0	
01/18/2019 18:00	1.3	2.8	0.3	0.4	2.1	
01/18/2019 19:00	1.5	1.8	0.3	0.2	2.1	
01/18/2019 22:00	1.5	1.5	0.2	0.1	2.0	
01/18/2019 23:00	1.5	1.4	0.2	0.1	2.1	
01/19/2019 16:00	1.5	0.4	0.3	0.0	2.2	
01/19/2019 17:00	1.5	3.5	0.3	0.4	1.7	
01/19/2019 18:00	1.4	2.1	0.5	0.4	1.6	
01/19/2019 19:00	1.5	3.0	0.3	0.4	1.8	
01/19/2019 20:00	1.5	2.8	0.3	0.3	1.9	
01/19/2019 21:00	1.5	1.8	0.3	0.2	1.9	
01/20/2019 06:00	1.5	0.9	0.2	0.1	2.2	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
01/20/2019 07:00	1.5	0.9	0.1	0.1	2.2	
01/20/2019 16:00	1.5	3.5	0.4	0.6	1.7	
01/20/2019 17:00	1.5	3.1	0.3	0.4	2.0	
01/20/2019 18:00	1.5	2.9	0.3	0.4	1.8	
01/21/2019 06:00	1.6	1.6	0.2	0.1	2.0	
01/21/2019 07:00	1.5	2.4	0.3	0.2	2.0	
01/21/2019 08:00	1.4	1.7	0.3	0.2	2.0	
01/21/2019 16:00	0.9	0.5	0.3	0.1	2.1	
01/21/2019 17:00	1.3	4.2	0.4	0.8	1.8	
01/21/2019 18:00	1.5	3.4	0.3	0.4	1.6	
01/21/2019 19:00	1.5	2.3	0.5	0.4	1.5	
01/21/2019 20:00	1.5	3.9	0.3	0.5	1.5	
01/21/2019 21:00	1.4	3.8	0.4	0.6	1.6	
01/21/2019 22:00	1.5	1.2	0.3	0.1	2.0	
01/22/2019 06:00	1.6	1.8	0.5	0.3	2.0	
01/22/2019 07:00	1.4	2.8	0.4	0.4	2.0	
01/22/2019 15:00	1.5	0.9	0.5	0.2	1.4	
01/22/2019 16:00	1.5	4.0	0.5	0.7	1.8	
01/22/2019 17:00	1.5	4.1	0.6	1.1	1.7	
01/22/2019 18:00	1.5	3.0	0.5	0.6	1.8	
01/22/2019 19:00	1.5	5.1	0.6	1.2	1.6	
01/22/2019 20:00	1.5	3.4	0.5	0.8	1.8	
01/22/2019 21:00	1.5	0.4	0.4	0.1	2.4	
01/23/2019 06:00	1.5	2.7	0.4	0.5	1.5	
01/23/2019 07:00	1.5	3.3	0.4	0.7	2.0	
01/23/2019 08:00	1.5	3.7	0.4	0.7	1.9	
01/23/2019 09:00	1.3	1.0	0.3	0.1	2.2	
01/23/2019 14:00	1.5	3.6	0.7	1.1	1.6	
01/23/2019 15:00	1.6	0.7	0.3	0.1	1.7	
01/23/2019 17:00	1.4	2.9	0.3	0.5	2.2	
01/23/2019 18:00	1.6	2.9	0.1	0.1	2.0	
01/23/2019 19:00	1.4	2.1	0.1	0.1	2.2	
01/24/2019 06:00	1.6	1.7	0.0	0.0	2.1	
01/24/2019 07:00	1.3	2.0	0.0	0.0	2.4	
01/24/2019 14:00	1.2	2.2	0.1	0.1	3.9	
01/24/2019 18:00	1.1	1.0	0.0	0.0	3.9	
01/24/2019 19:00	1.5	0.4	0.0	0.0	1.9	
01/25/2019 06:00	1.5	2.9	0.1	0.2	1.8	
01/25/2019 07:00	1.5	3.6	0.1	0.2	2.1	
01/25/2019 08:00	1.4	4.2	0.3	0.5	1.7	
01/25/2019 09:00	1.5	4.3	0.9	1.7	1.4	
01/25/2019 10:00	1.4	4.3	0.6	1.1	1.3	
01/25/2019 11:00	1.5	1.9	0.5	0.3	1.7	
01/25/2019 12:00	1.5	2.1	0.2	0.2	2.0	
01/25/2019 13:00	1.5	3.8	0.7	1.2	1.8	
01/25/2019 14:00	1.4	5.1	0.8	1.5	1.6	
01/25/2019 15:00	1.5	2.1	0.2	0.2	1.9	
01/25/2019 16:00	1.5	3.7	0.5	0.9	1.7	
01/25/2019 17:00	1.5	5.1	0.8	1.5	1.5	
01/25/2019 18:00	1.5	5.2	0.6	1.3	1.5	
01/25/2019 19:00	1.5	3.4	0.4	0.5	1.5	
01/25/2019 20:00	1.4	3.2	0.3	0.5	1.6	
01/25/2019 21:00	1.5	3.2	0.4	0.4	1.8	
01/25/2019 22:00	1.5	3.0	0.3	0.3	1.8	
01/25/2019 23:00	1.5	3.2	0.3	0.4	1.8	
01/26/2019 06:00	1.6	1.4	0.2	0.1	1.9	
01/26/2019 17:00	1.6	3.7	0.4	0.6	1.6	
01/26/2019 18:00	1.5	3.2	0.4	0.5	1.8	
01/26/2019 19:00	1.5	1.5	0.3	0.2	2.0	
01/27/2019 09:00	1.5	0.7	0.7	0.2	2.1	
01/27/2019 16:00	1.6	0.7	0.4	0.1	2.0	
01/27/2019 17:00	1.5	3.0	0.4	0.6	1.8	
01/27/2019 18:00	1.5	3.1	0.4	0.6	1.5	
01/27/2019 19:00	1.4	2.6	0.4	0.4	1.7	
01/27/2019 20:00	1.5	0.5	0.4	0.1	1.7	
01/28/2019 06:00	0.8	0.5	0.8	0.3	2.0	
01/28/2019 07:00	1.5	4.3	0.6	1.0	1.6	
01/28/2019 13:00	1.6	2.7	0.7	0.8	1.5	
01/28/2019 14:00	1.5	3.1	0.4	0.5	1.7	
01/28/2019 18:00	1.4	2.7	0.9	1.1	1.5	
01/28/2019 19:00	1.5	1.5	0.5	0.3	1.6	
01/29/2019 06:00	1.5	0.4	0.3	0.0	2.2	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
01/29/2019 07:00	1.5	0.9	0.3	0.1	2.3	
01/29/2019 17:00	1.2	0.7	1.0	0.4	1.8	
01/29/2019 18:00	1.5	4.6	0.6	1.2	1.5	
01/29/2019 19:00	1.4	3.2	0.5	0.7	1.6	
01/29/2019 20:00	1.5	2.3	0.5	0.5	2.0	
01/29/2019 21:00	1.5	2.1	0.4	0.3	2.1	
01/29/2019 22:00	1.5	2.0	0.4	0.3	2.0	
01/30/2019 06:00	1.6	1.9	0.5	0.3	1.7	
01/30/2019 07:00	1.5	2.9	0.5	0.6	1.8	
01/30/2019 08:00	1.5	2.0	0.5	0.4	2.1	
01/30/2019 16:00	1.6	1.9	0.5	0.4	1.6	
01/30/2019 17:00	1.5	2.4	0.5	0.5	2.0	
01/30/2019 18:00	1.5	2.5	0.5	0.5	1.8	
01/30/2019 19:00	1.5	2.4	0.5	0.4	1.7	
01/30/2019 20:00	1.5	3.0	0.5	0.6	1.6	
01/30/2019 21:00	1.5	2.1	0.5	0.4	2.0	
01/30/2019 22:00	1.5	1.9	0.5	0.4	2.0	
01/31/2019 06:00	1.5	0.8	0.8	0.2	2.1	
01/31/2019 07:00	1.5	2.0	0.5	0.4	2.2	
01/31/2019 08:00	1.5	2.1	0.5	0.4	2.2	
01/31/2019 17:00	1.5	2.2	0.5	0.4	2.1	
01/31/2019 18:00	1.4	2.6	0.5	0.5	1.8	
01/31/2019 19:00	1.5	3.1	0.5	0.7	1.6	
01/31/2019 20:00	1.6	0.6	0.5	0.1	1.7	
01/31/2019 21:00	1.5	1.4	0.5	0.3	1.4	
01/31/2019 22:00	1.5	3.0	0.5	0.6	1.6	
02/01/2019 06:00	1.5	1.4	0.5	0.3	1.7	
02/01/2019 07:00	1.5	2.0	0.5	0.4	2.0	
02/01/2019 16:00	1.5	0.4	0.0	0.0	2.1	
02/01/2019 17:00	1.5	2.0	0.0	0.0	2.1	
02/01/2019 18:00	1.5	2.0	0.0	0.0	2.1	
02/02/2019 07:00	1.5	1.8	0.2	0.2	1.8	
02/02/2019 08:00	1.6	2.9	0.0	0.0	2.0	
02/02/2019 09:00	1.4	2.5	0.0	0.0	1.9	
02/02/2019 10:00	1.5	2.3	0.0	0.0	1.8	
02/02/2019 11:00	1.5	2.4	0.0	0.0	1.8	
02/02/2019 12:00	1.5	2.6	0.0	0.0	1.9	
02/02/2019 13:00	1.6	2.9	0.0	0.0	1.8	
02/02/2019 14:00	1.4	3.1	0.1	0.2	1.9	
02/02/2019 15:00	1.5	2.5	0.0	0.0	1.8	
02/02/2019 16:00	1.5	2.8	0.0	0.0	1.9	
02/02/2019 17:00	1.5	2.5	0.0	0.0	1.7	
02/02/2019 18:00	1.5	2.3	0.0	0.0	1.7	
02/02/2019 19:00	1.5	2.3	0.0	0.0	1.7	
02/02/2019 20:00	1.5	2.3	0.0	0.0	1.8	
02/02/2019 21:00	1.5	2.4	0.0	0.0	1.8	
02/03/2019 17:00	1.5	2.0	0.0	0.0	1.6	
02/03/2019 18:00	1.5	2.9	0.0	0.0	1.6	
02/03/2019 19:00	1.5	2.8	0.0	0.0	1.6	
02/03/2019 20:00	1.5	2.3	0.1	0.1	1.9	
02/03/2019 21:00	1.5	2.9	0.0	0.0	1.7	
02/04/2019 06:00	1.5	1.4	0.0	0.0	2.2	
02/04/2019 07:00	1.5	3.0	0.0	0.0	1.7	
02/04/2019 08:00	1.5	2.9	0.0	0.0	1.5	
02/04/2019 09:00	1.5	3.7	0.0	0.0	1.5	
02/04/2019 10:00	1.4	2.9	0.0	0.0	1.7	
02/04/2019 15:00	1.4	0.6	0.1	0.0	1.9	
02/04/2019 16:00	1.4	3.0	0.0	0.0	1.9	
02/04/2019 17:00	1.6	2.6	0.0	0.0	2.2	
02/04/2019 18:00	1.4	1.9	0.0	0.0	2.1	
02/04/2019 19:00	1.5	2.1	0.0	0.0	2.0	
02/04/2019 20:00	1.5	2.1	0.0	0.0	2.0	
02/04/2019 21:00	1.5	2.1	0.0	0.0	2.0	
02/04/2019 22:00	1.5	2.8	0.0	0.0	2.0	
02/04/2019 23:00	1.5	2.0	0.0	0.0	2.0	
02/05/2019 06:00	1.5	1.0	0.2	0.1	1.6	
02/05/2019 07:00	1.5	2.5	0.0	0.0	1.8	
02/05/2019 08:00	1.4	0.4	0.0	0.0	2.0	
02/05/2019 16:00	2.0	0.5	0.0	0.0	1.8	
02/05/2019 17:00	1.5	1.9	0.0	0.0	1.9	
02/05/2019 18:00	1.5	2.5	0.0	0.0	2.1	
02/05/2019 19:00	1.5	2.6	0.0	0.0	2.1	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
02/05/2019 20:00	1.5	2.7	0.0	0.0	2.1	
02/05/2019 21:00	1.5	2.1	0.0	0.0	2.1	
02/05/2019 22:00	1.4	0.6	0.0	0.0	2.4	
02/06/2019 06:00	1.1	1.7	0.1	0.0	1.9	
02/06/2019 07:00	1.5	2.7	0.0	0.0	2.0	
02/06/2019 17:00	1.5	0.4	0.0	0.0	1.8	
02/06/2019 18:00	1.5	3.2	0.1	0.1	1.7	
02/06/2019 19:00	1.5	5.1	0.1	0.3	1.6	
02/06/2019 20:00	1.4	2.1	0.0	0.0	2.2	
02/07/2019 06:00	1.6	2.6	0.1	0.1	1.8	
02/07/2019 07:00	1.4	2.5	0.1	0.1	1.8	
02/07/2019 18:00	1.8	0.4	0.1	0.0	1.5	
02/07/2019 19:00	1.5	0.7	0.2	0.1	2.1	
02/08/2019 06:00	1.4	3.4	0.2	0.3	1.6	
02/08/2019 07:00	1.5	1.8	0.1	0.1	1.8	
02/08/2019 18:00	1.5	1.5	0.0	0.0	2.1	
02/08/2019 19:00	1.5	1.9	0.0	0.0	2.1	
02/09/2019 06:00	1.5	0.9	0.0	0.0	2.1	
02/09/2019 07:00	1.5	0.4	0.0	0.0	2.1	
02/12/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/12/2019 07:00	1.5	1.9	0.0	0.0	2.2	
02/12/2019 15:00	1.5	2.3	0.0	0.0	1.9	
02/12/2019 16:00	1.5	2.0	0.0	0.0	2.0	
02/12/2019 17:00	1.5	2.6	0.0	0.0	1.9	
02/12/2019 18:00	1.4	3.4	0.2	0.4	1.7	
02/12/2019 19:00	1.5	2.9	0.0	0.0	1.8	
02/12/2019 20:00	1.5	1.3	0.1	0.0	2.3	
02/12/2019 21:00	1.5	2.1	0.0	0.0	2.3	
02/12/2019 22:00	1.4	1.9	0.0	0.0	2.3	
02/13/2019 06:00	1.6	1.7	0.0	0.0	2.0	
02/13/2019 07:00	1.5	2.3	0.0	0.0	2.0	
02/13/2019 08:00	1.5	2.1	0.0	0.0	2.2	
02/13/2019 09:00	1.5	2.2	0.0	0.0	2.0	
02/13/2019 15:00	1.5	1.4	0.0	0.0	2.1	
02/13/2019 16:00	1.5	2.0	0.0	0.0	2.2	
02/13/2019 17:00	1.5	3.3	0.1	0.3	1.9	
02/13/2019 18:00	1.5	3.6	0.3	0.6	1.8	
02/13/2019 19:00	1.5	2.6	0.0	0.0	2.1	
02/13/2019 20:00	1.5	2.2	0.0	0.0	2.1	
02/13/2019 21:00	1.5	2.0	0.0	0.0	2.1	
02/13/2019 22:00	1.5	2.0	0.0	0.0	2.1	
02/14/2019 06:00	1.6	1.2	0.1	0.0	1.9	
02/14/2019 07:00	1.5	2.3	0.0	0.0	2.1	
02/14/2019 08:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 09:00	1.5	2.1	0.0	0.0	1.9	
02/14/2019 10:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 11:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 12:00	1.5	2.2	0.0	0.0	2.1	
02/14/2019 13:00	1.5	2.2	0.0	0.0	2.0	
02/14/2019 14:00	1.5	2.1	0.0	0.0	1.9	
02/14/2019 15:00	1.5	2.7	0.1	0.1	2.0	
02/14/2019 16:00	1.5	2.4	0.0	0.0	2.1	
02/14/2019 17:00	1.5	2.2	0.0	0.0	1.9	
02/14/2019 18:00	1.5	2.3	0.0	0.0	2.0	
02/14/2019 19:00	1.4	2.8	0.0	0.0	1.8	
02/14/2019 20:00	1.5	2.2	0.0	0.0	2.1	
02/14/2019 21:00	1.5	2.2	0.0	0.0	2.0	
02/14/2019 22:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 23:00	1.5	2.1	0.0	0.0	2.1	
02/15/2019 06:00	1.4	0.6	0.1	0.0	2.1	
02/15/2019 07:00	1.5	2.2	0.0	0.0	2.1	
02/15/2019 08:00	1.5	2.4	0.0	0.0	2.1	
02/15/2019 09:00	1.4	2.6	0.0	0.0	2.1	
02/15/2019 10:00	1.5	2.0	0.0	0.0	2.1	
02/15/2019 14:00	1.5	1.5	0.0	0.0	2.1	
02/15/2019 15:00	1.5	2.1	0.0	0.0	2.0	
02/15/2019 16:00	1.5	2.2	0.0	0.0	2.0	
02/15/2019 17:00	1.5	2.1	0.0	0.0	1.9	
02/15/2019 18:00	1.5	2.1	0.0	0.0	1.9	
02/15/2019 19:00	1.5	2.1	0.0	0.0	1.9	
02/15/2019 20:00	1.5	2.3	0.0	0.0	1.9	
02/15/2019 21:00	1.5	2.5	0.0	0.0	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
02/15/2019 22:00	1.5	2.0	0.0	0.0	2.0	
02/16/2019 09:00	1.1	0.6	0.1	0.0	1.7	
02/16/2019 10:00	1.5	4.6	0.1	0.2	1.5	
02/16/2019 11:00	1.5	5.0	0.1	0.2	1.6	
02/16/2019 12:00	1.4	3.0	0.3	0.4	1.5	
02/16/2019 13:00	1.5	5.0	0.2	0.4	1.5	
02/16/2019 14:00	1.4	1.1	0.3	0.1	1.6	
02/16/2019 17:00	1.5	2.5	0.0	0.0	1.7	
02/16/2019 18:00	1.5	3.2	0.0	0.0	1.8	
02/16/2019 19:00	1.5	3.4	0.0	0.1	1.8	
02/16/2019 20:00	1.4	2.1	0.0	0.0	2.2	
02/16/2019 21:00	1.6	3.2	0.0	0.0	1.9	
02/16/2019 22:00	1.5	3.4	0.0	0.0	1.9	
02/16/2019 23:00	1.5	0.7	0.0	0.0	1.8	
02/17/2019 10:00	1.5	2.6	0.0	0.0	1.8	
02/17/2019 11:00	1.5	3.4	0.0	0.0	1.9	
02/17/2019 12:00	1.5	3.1	0.0	0.0	1.9	
02/17/2019 13:00	1.5	3.8	0.1	0.2	1.9	
02/17/2019 14:00	1.5	3.0	0.0	0.0	1.8	
02/17/2019 15:00	1.5	3.5	0.0	0.1	1.9	
02/17/2019 16:00	1.4	3.6	0.1	0.1	1.7	
02/17/2019 17:00	1.5	2.6	0.0	0.0	1.9	
02/17/2019 18:00	1.5	5.0	0.2	0.3	1.7	
02/17/2019 19:00	1.4	1.4	0.1	0.1	1.9	
02/17/2019 20:00	1.5	2.5	0.0	0.0	2.0	
02/17/2019 21:00	1.5	2.8	0.0	0.0	1.8	
02/17/2019 22:00	1.5	3.1	0.0	0.0	1.8	
02/17/2019 23:00	1.5	2.3	0.0	0.0	2.1	
02/18/2019 06:00	1.5	1.4	0.0	0.0	2.3	
02/18/2019 07:00	1.5	2.0	0.0	0.0	2.5	
02/18/2019 08:00	1.5	2.1	0.0	0.0	2.5	
02/18/2019 09:00	1.5	2.1	0.0	0.0	2.4	
02/18/2019 16:00	1.5	1.4	0.0	0.0	2.0	
02/18/2019 17:00	1.5	3.2	0.0	0.1	2.0	
02/18/2019 18:00	1.4	4.2	0.1	0.2	1.8	
02/18/2019 19:00	1.6	0.5	0.0	0.0	1.9	
02/18/2019 21:00	1.5	1.5	0.0	0.0	2.4	
02/18/2019 22:00	1.5	2.1	0.0	0.0	2.5	
02/18/2019 23:00	1.5	2.0	0.0	0.0	2.6	
02/19/2019 06:00	1.5	1.1	0.2	0.1	2.1	
02/19/2019 07:00	1.4	1.9	0.0	0.0	2.4	
02/20/2019 16:00	1.5	1.4	0.0	0.0	2.0	
02/20/2019 17:00	1.5	2.1	0.0	0.0	2.0	
02/20/2019 18:00	1.5	2.2	0.0	0.0	2.0	
02/20/2019 19:00	1.4	2.3	0.0	0.0	2.0	
02/20/2019 20:00	1.4	1.9	0.0	0.0	2.1	
02/20/2019 21:00	1.5	2.0	0.0	0.0	2.1	
02/21/2019 18:00	1.4	3.8	0.2	0.3	1.6	
02/21/2019 19:00	1.5	5.0	0.2	0.5	1.5	
02/21/2019 20:00	1.5	3.9	0.1	0.2	1.6	
02/21/2019 21:00	1.5	2.0	0.2	0.2	1.7	
02/21/2019 22:00	1.5	3.4	0.1	0.2	2.0	
02/22/2019 06:00	1.5	1.4	0.0	0.0	2.2	
02/22/2019 07:00	1.5	1.9	0.0	0.0	2.4	
02/22/2019 08:00	1.5	2.0	0.0	0.0	2.2	
02/22/2019 17:00	1.4	0.9	0.2	0.1	1.6	
02/22/2019 18:00	1.5	2.2	0.0	0.0	2.2	
02/22/2019 19:00	1.5	2.5	0.0	0.0	2.0	
02/22/2019 20:00	1.5	2.1	0.0	0.0	2.5	
02/22/2019 21:00	1.5	2.3	0.0	0.0	2.3	
02/22/2019 22:00	1.5	2.3	0.0	0.0	2.2	
02/22/2019 23:00	1.5	0.4	0.0	0.0	2.6	
02/23/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/23/2019 07:00	1.5	1.9	0.0	0.0	2.5	
02/23/2019 12:00	1.4	4.4	0.2	0.5	1.6	
02/23/2019 13:00	1.5	3.0	0.4	0.5	1.6	
02/23/2019 14:00	1.4	4.8	0.3	0.7	1.7	
02/23/2019 15:00	1.6	3.2	0.0	0.0	1.8	
02/23/2019 16:00	1.5	3.7	0.2	0.3	1.8	
02/23/2019 17:00	1.5	2.3	0.0	0.0	2.1	
02/23/2019 18:00	1.5	2.5	0.0	0.0	2.1	
02/23/2019 19:00	1.4	2.6	0.1	0.1	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
02/23/2019 20:00	1.5	2.3	0.0	0.0	2.0	
02/23/2019 21:00	1.5	2.1	0.0	0.0	2.3	
02/23/2019 22:00	1.5	2.1	0.0	0.0	2.6	
02/24/2019 06:00	1.5	1.6	0.0	0.0	2.2	
02/24/2019 07:00	1.5	2.2	0.0	0.0	2.4	
02/24/2019 16:00	1.5	0.4	0.0	0.0	1.9	
02/24/2019 17:00	1.5	2.2	0.0	0.0	2.0	
02/24/2019 18:00	1.4	2.1	0.0	0.0	2.1	
02/24/2019 19:00	1.5	2.1	0.0	0.0	2.2	
02/24/2019 20:00	1.5	2.2	0.0	0.0	2.0	
02/24/2019 21:00	1.5	1.4	0.2	0.1	2.1	
02/24/2019 22:00	1.5	2.1	0.0	0.0	2.0	
02/25/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/25/2019 07:00	1.5	2.0	0.0	0.0	2.1	
02/25/2019 17:00	1.5	2.3	0.1	0.1	1.9	
02/25/2019 18:00	1.4	3.3	0.2	0.3	1.8	
02/25/2019 19:00	1.5	2.6	0.0	0.0	2.1	
02/25/2019 20:00	1.5	2.9	0.1	0.1	1.8	
02/25/2019 21:00	1.5	2.4	0.0	0.0	2.1	
02/25/2019 22:00	1.5	2.0	0.0	0.0	2.0	
02/26/2019 06:00	1.5	1.4	0.0	0.0	2.2	
02/26/2019 07:00	1.6	2.6	0.0	0.0	2.3	
02/26/2019 08:00	1.5	3.2	0.1	0.1	2.1	
02/26/2019 09:00	1.5	3.8	0.2	0.2	1.7	
02/26/2019 10:00	1.4	2.8	0.4	0.5	1.7	
02/26/2019 11:00	1.5	2.5	0.2	0.2	1.7	
02/26/2019 14:00	1.5	4.3	0.3	0.5	1.6	
02/26/2019 15:00	1.5	5.5	0.3	0.6	1.7	
02/26/2019 16:00	1.5	3.1	0.1	0.2	2.0	
02/26/2019 17:00	1.5	3.6	0.1	0.3	2.1	
02/26/2019 18:00	1.4	5.2	0.3	0.6	1.8	
02/26/2019 19:00	1.5	5.1	0.3	0.5	1.7	
02/26/2019 20:00	1.5	4.9	0.3	0.6	1.7	
02/26/2019 21:00	1.5	2.6	0.0	0.0	2.0	
02/26/2019 22:00	1.5	0.5	0.0	0.0	2.2	
02/27/2019 06:00	1.4	1.4	0.0	0.0	2.0	
02/27/2019 07:00	1.5	2.1	0.0	0.0	2.0	
02/27/2019 08:00	1.5	2.6	0.0	0.0	2.1	
02/27/2019 16:00	1.5	1.4	0.0	0.0	2.0	
02/27/2019 17:00	1.6	3.0	0.0	0.1	2.0	
02/27/2019 18:00	1.5	3.3	0.1	0.1	1.8	
02/27/2019 19:00	1.4	3.0	0.4	0.6	1.7	
02/27/2019 20:00	1.4	4.6	0.2	0.4	1.6	
02/27/2019 21:00	1.5	2.2	0.0	0.0	2.3	
02/27/2019 22:00	1.5	0.5	0.0	0.0	1.9	
02/28/2019 06:00	1.5	1.5	0.0	0.0	2.0	
02/28/2019 07:00	1.5	2.1	0.0	0.0	2.0	
02/28/2019 08:00	1.5	2.6	0.0	0.0	2.2	
02/28/2019 17:00	1.5	0.6	0.0	0.0	2.1	
02/28/2019 18:00	1.5	5.1	0.2	0.4	2.0	
02/28/2019 19:00	1.5	5.6	0.2	0.5	1.9	
02/28/2019 20:00	1.5	3.4	0.2	0.2	1.8	
02/28/2019 21:00	1.5	2.0	0.0	0.0	2.3	
02/28/2019 22:00	1.4	1.4	0.1	0.1	2.0	
03/01/2019 06:00	1.4	2.2	0.1	0.1	1.8	
03/01/2019 07:00	1.5	3.1	0.1	0.1	2.1	
03/01/2019 08:00	1.5	2.1	0.0	0.0	2.2	
03/01/2019 09:00	1.6	2.5	0.0	0.0	2.1	
03/01/2019 10:00	1.3	1.5	0.1	0.1	2.5	
03/01/2019 11:00	1.5	2.1	0.1	0.1	2.2	
03/01/2019 12:00	1.5	2.1	0.0	0.0	2.2	
03/01/2019 13:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 14:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 15:00	1.5	2.2	0.0	0.0	2.2	
03/01/2019 16:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 17:00	1.5	2.6	0.0	0.1	2.0	
03/01/2019 18:00	1.5	5.1	0.3	0.6	1.7	
03/01/2019 19:00	1.5	3.6	0.2	0.3	1.6	
03/01/2019 20:00	1.4	5.0	0.3	0.7	1.7	
03/01/2019 21:00	1.6	4.9	0.3	0.6	1.7	
03/01/2019 22:00	1.3	2.0	0.4	0.4	1.7	
03/02/2019 07:00	1.4	2.1	0.2	0.1	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
03/02/2019 08:00	1.5	2.6	0.1	0.1	2.0	
03/02/2019 09:00	1.5	2.3	0.0	0.0	1.8	
03/02/2019 10:00	1.5	2.5	0.0	0.0	1.9	
03/02/2019 17:00	1.6	2.9	0.0	0.1	2.1	
03/02/2019 18:00	1.4	5.1	0.2	0.5	1.9	
03/02/2019 19:00	1.5	2.2	0.0	0.0	2.3	
03/02/2019 20:00	1.4	4.0	0.2	0.3	1.9	
03/03/2019 06:00	1.5	1.8	0.1	0.1	2.3	
03/03/2019 19:00	1.5	0.2	0.0	0.0	2.2	
03/03/2019 20:00	1.5	2.1	0.2	0.1	2.4	
03/03/2019 21:00	1.5	0.4	0.0	0.0	2.2	
03/04/2019 06:00	1.5	1.8	0.0	0.0	2.2	
03/04/2019 07:00	1.4	0.9	0.0	0.0	2.1	
03/04/2019 18:00	1.5	4.1	0.2	0.4	2.0	
03/04/2019 19:00	1.5	5.5	0.2	0.5	2.0	
03/04/2019 20:00	1.5	5.3	0.2	0.5	2.0	
03/04/2019 21:00	1.6	4.2	0.1	0.3	2.0	
03/04/2019 22:00	1.4	3.1	0.2	0.2	1.9	
03/04/2019 23:00	1.5	2.2	0.1	0.1	2.3	
03/05/2019 06:00	1.5	1.5	0.1	0.1	2.1	
03/05/2019 07:00	1.5	2.5	0.1	0.1	2.1	
03/05/2019 08:00	1.5	2.3	0.1	0.1	2.1	
03/05/2019 09:00	1.5	2.9	0.2	0.2	2.1	
03/05/2019 10:00	1.5	2.4	0.1	0.1	2.4	
03/05/2019 11:00	1.5	2.3	0.1	0.1	2.2	
03/05/2019 12:00	1.5	2.5	0.1	0.1	2.1	
03/05/2019 13:00	1.5	1.7	0.4	0.2	1.9	
03/05/2019 14:00	1.3	0.4	0.1	0.0	2.3	
03/05/2019 15:00	1.4	0.9	0.0	0.0	2.1	
03/05/2019 16:00	1.5	2.2	0.0	0.0	2.1	
03/05/2019 17:00	1.5	3.5	0.1	0.3	2.0	
03/05/2019 18:00	1.5	3.6	0.2	0.4	1.8	
03/05/2019 19:00	1.5	2.0	0.0	0.0	2.1	
03/05/2019 20:00	1.5	2.6	0.1	0.1	2.1	
03/05/2019 21:00	1.5	1.5	0.0	0.0	2.2	
03/06/2019 06:00	1.6	2.3	0.1	0.1	1.8	
03/06/2019 07:00	1.4	4.0	0.2	0.4	1.6	
03/06/2019 08:00	1.5	3.4	0.2	0.2	1.8	
03/06/2019 09:00	1.5	3.2	0.1	0.1	1.9	
03/06/2019 10:00	1.5	3.0	0.1	0.1	1.9	
03/06/2019 18:00	1.5	1.7	0.0	0.0	2.1	
03/06/2019 19:00	1.5	2.9	0.1	0.1	1.9	
03/07/2019 08:00	1.5	1.3	0.3	0.2	1.9	
03/07/2019 09:00	1.7	3.3	0.1	0.1	1.7	
03/07/2019 18:00	1.5	3.9	0.2	0.4	1.7	
03/07/2019 19:00	1.4	4.2	0.2	0.4	1.7	
03/07/2019 20:00	1.5	0.9	0.0	0.0	2.1	
03/08/2019 10:00	1.6	1.6	0.0	0.0	2.0	
03/08/2019 11:00	1.4	0.6	0.2	0.0	2.1	
03/09/2019 16:00	1.8	0.0	0.1	0.0	2.0	
03/09/2019 17:00	1.6	2.9	0.1	0.2	1.9	
03/09/2019 18:00	1.5	4.6	0.3	0.6	1.6	
03/09/2019 19:00	1.3	1.0	0.1	0.1	2.0	
03/10/2019 07:00	1.5	2.2	0.1	0.1	1.9	
03/10/2019 08:00	1.5	3.4	0.1	0.1	1.9	
03/10/2019 09:00	1.5	3.0	0.1	0.1	1.9	
03/10/2019 19:00	1.5	1.1	0.4	0.1	2.0	
03/10/2019 20:00	1.5	2.1	0.1	0.1	2.1	
03/10/2019 21:00	1.5	0.4	0.1	0.0	2.0	
03/11/2019 05:00	1.4	2.2	0.2	0.2	1.8	
03/11/2019 06:00	1.5	5.5	0.2	0.5	1.7	
03/11/2019 07:00	1.5	2.2	0.0	0.0	2.3	
03/11/2019 08:00	1.4	2.5	0.0	0.0	1.9	
03/11/2019 09:00	1.5	0.5	0.1	0.0	2.1	
03/11/2019 14:00	1.5	4.1	0.3	0.5	1.6	
03/11/2019 15:00	1.4	3.0	0.2	0.3	2.0	
03/11/2019 16:00	1.6	2.9	0.2	0.2	2.0	
03/11/2019 17:00	1.5	3.5	0.2	0.4	1.9	
03/11/2019 18:00	1.4	4.3	0.3	0.6	1.8	
03/11/2019 19:00	1.5	2.3	0.1	0.1	2.0	
03/11/2019 20:00	1.4	2.6	0.2	0.2	1.8	
03/11/2019 21:00	1.5	2.1	0.4	0.3	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
03/12/2019 05:00	1.6	2.1	0.2	0.2	2.0	
03/12/2019 06:00	1.5	4.0	0.2	0.4	1.7	
03/12/2019 07:00	1.6	1.5	0.3	0.1	2.1	
03/12/2019 08:00	1.2	0.4	0.1	0.0	2.7	
03/12/2019 12:00	1.5	1.7	0.2	0.1	2.1	
03/12/2019 13:00	1.5	1.9	0.3	0.3	2.1	
03/12/2019 18:00	1.2	1.8	0.2	0.2	2.0	
03/12/2019 19:00	1.6	0.5	0.1	0.0	2.0	
03/13/2019 05:00	1.6	3.6	0.2	0.3	1.7	
03/13/2019 06:00	1.6	1.6	0.2	0.1	1.8	
03/13/2019 07:00	1.5	1.7	0.2	0.2	1.7	
03/13/2019 08:00	1.5	4.2	0.3	0.6	1.7	
03/13/2019 09:00	1.2	0.0	0.3	0.0	2.4	
03/13/2019 17:00	1.6	2.0	0.6	0.4	1.8	
03/13/2019 18:00	1.5	4.3	0.3	0.6	1.6	
03/13/2019 19:00	1.5	3.2	0.3	0.3	1.8	
03/13/2019 20:00	1.5	2.9	0.2	0.2	1.9	
03/13/2019 21:00	1.5	2.2	0.2	0.2	2.1	
03/13/2019 22:00	1.5	2.0	0.2	0.2	2.4	
03/14/2019 05:00	1.2	0.7	0.3	0.1	1.6	
03/14/2019 06:00	1.4	3.1	0.2	0.3	1.9	
03/14/2019 15:00	1.5	1.9	0.1	0.1	2.1	
03/14/2019 16:00	1.6	3.1	0.2	0.3	2.5	
03/14/2019 17:00	1.4	2.0	0.1	0.1	2.4	
03/14/2019 18:00	1.5	2.2	0.1	0.1	2.2	
03/14/2019 19:00	1.5	0.4	0.2	0.0	2.1	
03/14/2019 20:00	1.5	1.0	0.1	0.1	2.0	
03/14/2019 21:00	1.5	2.0	0.2	0.1	2.3	
03/15/2019 19:00	1.5	1.5	0.1	0.1	2.2	
03/15/2019 20:00	1.5	1.3	0.3	0.2	2.1	
03/15/2019 21:00	1.4	0.4	0.1	0.0	2.3	
03/16/2019 11:00	1.5	1.8	0.3	0.2	2.0	
03/16/2019 12:00	1.5	2.5	0.3	0.2	2.3	
03/16/2019 13:00	1.5	2.3	0.2	0.2	2.3	
03/16/2019 16:00	1.5	1.7	0.2	0.1	2.0	
03/16/2019 18:00	1.3	1.4	0.2	0.2	2.4	
03/16/2019 19:00	1.4	2.3	0.2	0.2	2.1	
03/17/2019 18:00	1.5	2.6	0.2	0.2	2.2	
03/17/2019 19:00	1.5	2.0	0.1	0.1	2.3	
03/17/2019 20:00	1.5	1.5	0.1	0.1	2.3	
03/18/2019 16:00	1.5	2.2	0.3	0.2	1.7	
03/18/2019 17:00	1.5	2.8	0.2	0.3	2.3	
03/18/2019 18:00	1.4	2.3	0.2	0.3	2.1	
03/18/2019 19:00	1.5	1.3	0.4	0.2	1.9	
03/19/2019 07:00	1.5	3.0	0.4	0.5	1.7	
03/19/2019 08:00	1.5	4.7	0.5	0.9	1.8	
03/19/2019 09:00	1.5	5.2	0.4	0.9	1.9	
03/19/2019 10:00	1.5	5.3	0.5	1.1	1.8	
03/19/2019 11:00	1.5	4.5	0.4	0.7	1.6	
03/19/2019 12:00	1.5	5.1	0.4	0.9	1.8	
03/19/2019 13:00	1.5	5.0	0.4	1.0	1.8	
03/19/2019 14:00	1.5	5.1	0.4	0.9	1.8	
03/19/2019 15:00	1.4	3.0	0.3	0.4	2.1	
03/19/2019 16:00	1.5	2.2	0.2	0.2	2.2	
03/19/2019 17:00	1.6	2.5	0.2	0.2	1.9	
03/19/2019 18:00	1.4	2.5	0.2	0.3	2.1	
03/19/2019 19:00	1.5	0.9	0.2	0.1	2.0	
03/20/2019 05:00	1.5	0.4	0.2	0.0	2.0	
03/20/2019 06:00	1.6	2.6	0.2	0.2	2.0	
03/20/2019 07:00	1.4	4.5	0.6	1.2	1.7	
03/20/2019 08:00	1.5	2.2	0.5	0.4	1.7	
03/20/2019 09:00	1.5	4.7	0.4	0.8	1.6	
03/20/2019 10:00	1.4	3.8	0.4	0.7	1.7	
03/20/2019 11:00	1.5	2.2	0.3	0.2	2.0	
03/20/2019 12:00	1.5	4.3	0.5	0.9	1.8	
03/20/2019 13:00	1.5	2.4	0.2	0.3	2.0	
03/20/2019 14:00	1.5	2.9	0.3	0.3	1.9	
03/20/2019 15:00	1.5	1.1	0.2	0.1	2.4	
03/20/2019 17:00	1.4	0.4	0.1	0.0	1.9	
03/20/2019 18:00	1.5	2.1	0.1	0.1	2.0	
03/20/2019 19:00	1.5	1.5	0.2	0.1	2.0	
03/22/2019 19:00	1.5	1.5	0.2	0.1	2.2	

Period Start:	Average	Average	Average	Average	Average	Notes
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm	
03/22/2019 20:00	1.5	0.9	0.1	0.0	2.1	
03/23/2019 07:00	1.5	2.2	0.2	0.1	2.0	
03/23/2019 08:00	1.5	3.3	0.2	0.2	2.0	
03/23/2019 09:00	1.3	0.6	0.3	0.1	2.2	
03/23/2019 19:00	1.5	1.5	0.1	0.1	2.1	
03/23/2019 20:00	1.5	0.4	0.2	0.0	2.0	
03/23/2019 21:00	1.9	1.0	0.7	0.2	1.9	
03/23/2019 22:00	1.1	0.6	0.3	0.1	2.0	
03/24/2019 19:00	1.5	2.0	0.2	0.1	2.1	
03/24/2019 20:00	1.5	2.8	0.2	0.2	2.4	
03/24/2019 21:00	1.5	0.9	0.1	0.0	2.2	
03/25/2019 05:00	1.7	1.4	0.2	0.1	2.1	
03/25/2019 06:00	1.4	2.0	0.1	0.1	2.1	
03/25/2019 07:00	1.5	0.9	0.1	0.0	2.1	
03/25/2019 11:00	1.5	2.2	0.3	0.2	2.0	
03/25/2019 12:00	1.5	3.1	0.3	0.3	2.0	
03/25/2019 13:00	1.5	3.0	0.3	0.3	2.0	
03/25/2019 18:00	1.5	3.0	0.3	0.4	1.9	
03/25/2019 19:00	1.4	3.1	0.2	0.3	2.3	
03/25/2019 20:00	1.5	0.4	0.1	0.0	2.4	
03/26/2019 06:00	1.4	2.7	0.2	0.2	2.0	
03/26/2019 07:00	1.3	0.4	0.2	0.0	2.3	
03/26/2019 17:00	1.1	0.2	0.3	0.0	1.6	
03/26/2019 18:00	1.4	1.5	0.3	0.2	2.1	
03/26/2019 19:00	1.5	2.0	0.1	0.1	2.0	
03/26/2019 20:00	1.5	0.9	0.2	0.1	2.0	
03/26/2019 21:00	1.6	0.5	0.1	0.0	2.0	
03/26/2019 22:00	1.5	1.5	0.1	0.1	2.3	
03/27/2019 06:00	1.6	1.8	0.2	0.1	2.0	
03/27/2019 07:00	1.4	0.9	0.3	0.1	2.2	
03/27/2019 16:00	1.6	1.7	0.2	0.1	2.1	
03/27/2019 18:00	1.2	1.0	0.4	0.2	1.9	
03/27/2019 19:00	1.4	2.1	0.3	0.3	2.0	
03/28/2019 05:00	1.2	0.8	0.3	0.1	2.0	
03/28/2019 06:00	1.5	3.3	0.3	0.3	2.1	
03/28/2019 07:00	1.5	2.1	0.2	0.2	2.2	
03/28/2019 08:00	1.5	2.1	0.2	0.2	2.1	
03/28/2019 11:00	1.5	1.8	0.3	0.2	2.2	
03/28/2019 12:00	1.5	1.7	0.4	0.3	2.1	
03/28/2019 13:00	1.5	2.4	0.2	0.2	2.3	
03/28/2019 14:00	1.5	2.5	0.2	0.2	2.3	
03/28/2019 15:00	1.5	2.5	0.2	0.2	2.5	
03/28/2019 17:00	1.1	0.8	0.3	0.1	2.1	
03/28/2019 18:00	1.4	2.7	0.2	0.3	2.1	
03/28/2019 19:00	1.5	0.4	0.2	0.0	2.1	
03/29/2019 05:00	1.1	0.3	0.3	0.0	2.4	
03/29/2019 06:00	1.5	1.2	0.3	0.1	2.5	
03/29/2019 11:00	1.5	1.5	0.2	0.1	2.7	
03/29/2019 12:00	1.4	2.0	0.2	0.2	2.1	
03/29/2019 13:00	1.5	2.0	0.2	0.2	2.0	
03/29/2019 18:00	1.5	0.5	0.2	0.0	2.0	
03/29/2019 19:00	1.5	1.0	0.2	0.1	2.2	
03/30/2019 05:00	1.9	1.1	0.4	0.1	2.0	
03/30/2019 06:00	1.2	0.9	0.4	0.2	2.4	
03/30/2019 11:00	1.9	1.5	0.6	0.3	2.4	
03/30/2019 12:00	1.4	2.4	0.3	0.3	2.4	
03/30/2019 13:00	1.5	2.1	0.3	0.2	2.7	
03/30/2019 17:00	1.5	1.5	0.2	0.1	2.2	
03/30/2019 18:00	1.5	2.1	0.2	0.2	2.2	
03/30/2019 19:00	1.5	2.1	0.2	0.2	2.1	
03/30/2019 20:00	1.5	2.1	0.2	0.2	2.5	
03/30/2019 21:00	1.5	2.0	0.2	0.2	2.7	
03/31/2019 05:00	1.5	0.4	0.3	0.0	2.0	
03/31/2019 06:00	1.5	1.0	0.3	0.1	2.1	
03/31/2019 12:00	1.6	1.5	0.3	0.2	2.6	
03/31/2019 13:00	1.5	2.3	0.3	0.3	2.4	
03/31/2019 14:00	1.5	2.7	0.3	0.4	2.4	
03/31/2019 17:00	1.7	1.9	0.2	0.2	2.4	
03/31/2019 18:00	1.5	1.8	0.5	0.3	2.6	
03/31/2019 19:00	1.5	2.6	0.3	0.3	2.3	
03/31/2019 20:00	1.5	2.0	0.3	0.2	2.8	
03/31/2019 21:00	1.5	0.4	0.3	0.0	2.9	

Period Start:	Average 6NOxCorOP1 ppm	Average 6NOX#OP1HR LBS	Average 6COCorOP1 ppm	Average 6CO#OP1HR LBS	Average 6NH3CorOP1 ppm	Notes
Final Average*	1.5	2.3	0.2	0.2	2.0	
Maximum*	2.0	5.6	1.0	1.7	3.9	
	02/05/2019 16:00	02/28/2019 19:00	01/29/2019 17:00	01/25/2019 9:00	01/24/2019 18:00	
Minimum*	0.8	0.0	0.0	0.0	1.3	
	01/28/2019 6:00	03/13/2019 9:00	03/11/2019 8:00	03/31/2019 21:00	01/25/2019 10:00	

* Does not include Invalid Averaging Periods ("N/A")

Average Values Report
Generated: 4/23/2019 06:35Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 7Period Start: 1/1/2019 00:00
Period End: 3/31/2019 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 7NOxCorOP1 ppm	Average 7NOX#OP1HR LBS	Average 7COCorOP1 ppm	Average 7CO#OP1HR LBS	Average 7NH3CorOP1 ppm	Notes
01/01/2019 19:00	1.5	1.1	0.0	0.0	1.0	
01/01/2019 20:00	1.5	1.0	0.0	0.0	1.1	
01/02/2019 12:00	1.5	2.7	0.0	0.0	1.1	
01/02/2019 13:00	1.5	1.7	0.0	0.0	1.4	
01/02/2019 17:00	1.5	1.7	0.0	0.0	1.3	
01/02/2019 18:00	1.5	2.7	0.0	0.0	1.2	
01/02/2019 19:00	1.5	2.0	0.0	0.0	1.3	
01/03/2019 17:00	1.4	0.3	0.0	0.0	1.3	
01/03/2019 18:00	1.5	0.3	0.0	0.0	1.4	
01/04/2019 18:00	1.5	0.8	0.0	0.0	1.0	
01/04/2019 19:00	1.5	2.6	0.0	0.0	1.4	
01/04/2019 20:00	1.5	1.5	0.0	0.0	1.5	
01/04/2019 22:00	1.5	1.5	0.0	0.0	1.3	
01/05/2019 07:00	1.5	0.1	0.1	0.0	1.6	
01/05/2019 08:00	1.5	1.5	0.0	0.0	1.3	
01/06/2019 17:00	1.4	1.4	0.0	0.0	1.5	
01/07/2019 06:00	1.5	1.0	0.0	0.0	1.3	
01/07/2019 07:00	1.5	2.8	0.1	0.1	1.0	
01/07/2019 08:00	1.5	1.5	0.0	0.0	1.2	
01/07/2019 16:00	1.5	1.6	0.0	0.0	1.5	
01/07/2019 17:00	1.5	2.1	0.0	0.0	1.2	
01/07/2019 18:00	1.5	2.0	0.0	0.0	1.2	
01/07/2019 20:00	1.5	2.1	0.0	0.0	1.4	
01/07/2019 21:00	1.5	3.1	0.0	0.0	1.3	
01/07/2019 22:00	1.5	1.5	0.0	0.0	1.4	
01/08/2019 06:00	1.3	0.6	0.0	0.0	1.3	
01/08/2019 07:00	1.5	2.1	0.0	0.0	1.2	
01/08/2019 18:00	1.5	2.0	0.0	0.0	1.3	
01/08/2019 19:00	1.5	0.4	0.0	0.0	1.5	
01/09/2019 06:00	1.5	0.7	0.0	0.0	1.6	
01/09/2019 07:00	1.5	2.1	0.0	0.0	1.3	
01/09/2019 16:00	1.6	1.6	0.0	0.0	1.5	
01/09/2019 20:00	1.5	1.5	0.0	0.0	1.3	
01/09/2019 21:00	1.5	2.2	0.0	0.0	1.6	
01/09/2019 22:00	1.5	0.5	0.0	0.0	1.6	
01/10/2019 06:00	1.6	0.8	0.0	0.0	1.4	
01/10/2019 07:00	1.5	2.5	0.0	0.0	1.4	
01/10/2019 08:00	1.5	1.1	0.0	0.0	1.1	
01/10/2019 16:00	1.5	1.3	0.0	0.0	1.4	
01/10/2019 20:00	1.5	1.5	0.0	0.0	1.3	
01/10/2019 21:00	1.5	2.3	0.0	0.0	1.4	
01/10/2019 22:00	1.5	1.1	0.0	0.0	1.3	
01/11/2019 06:00	1.5	0.7	0.0	0.0	1.4	
01/11/2019 07:00	1.4	2.0	0.0	0.0	1.3	
01/11/2019 08:00	1.5	1.0	0.0	0.0	1.3	
01/11/2019 16:00	1.6	0.4	0.0	0.0	1.5	
01/11/2019 17:00	1.5	2.2	0.0	0.0	1.4	
01/11/2019 18:00	1.5	2.1	0.0	0.0	1.6	
01/11/2019 19:00	1.5	2.0	0.0	0.0	1.7	
01/11/2019 20:00	1.5	2.1	0.0	0.0	1.7	
01/11/2019 21:00	1.4	0.9	0.0	0.0	1.8	
01/12/2019 17:00	1.5	0.6	0.0	0.0	1.3	
01/12/2019 18:00	1.5	2.3	0.0	0.0	1.5	
01/12/2019 19:00	1.5	2.3	0.0	0.0	1.7	
01/12/2019 20:00	1.5	2.3	0.0	0.0	1.6	
01/12/2019 21:00	1.4	1.4	0.0	0.0	1.5	
01/13/2019 07:00	1.6	0.6	0.0	0.0	1.5	
01/13/2019 16:00	1.5	1.4	0.0	0.0	1.2	
01/13/2019 17:00	1.5	2.0	0.0	0.0	1.4	
01/13/2019 18:00	1.5	2.0	0.0	0.0	2.0	
01/13/2019 19:00	1.5	2.2	0.0	0.0	1.9	
01/13/2019 20:00	1.5	2.1	0.0	0.0	1.9	
01/13/2019 21:00	1.5	2.0	0.0	0.0	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
01/14/2019 06:00	1.6	1.0	0.0	0.0	1.5	
01/14/2019 07:00	1.5	2.8	0.1	0.2	1.8	
01/14/2019 08:00	1.4	4.5	0.2	0.5	1.6	
01/14/2019 09:00	1.5	4.4	0.0	0.0	1.5	
01/14/2019 10:00	1.5	4.6	0.0	0.0	1.5	
01/14/2019 11:00	1.5	5.0	0.0	0.0	1.5	
01/14/2019 12:00	1.5	5.1	0.0	0.0	1.6	
01/14/2019 13:00	1.5	4.7	0.0	0.0	1.6	
01/14/2019 14:00	1.5	3.7	0.0	0.0	1.6	
01/14/2019 15:00	1.4	2.0	0.0	0.0	1.8	
01/14/2019 16:00	1.5	2.2	0.0	0.0	1.7	
01/14/2019 17:00	1.5	3.0	0.0	0.0	1.6	
01/14/2019 18:00	1.5	2.9	0.0	0.0	1.6	
01/14/2019 19:00	1.5	2.2	0.0	0.0	1.9	
01/14/2019 20:00	1.5	2.2	0.0	0.0	1.8	
01/14/2019 21:00	1.5	2.1	0.0	0.0	1.8	
01/14/2019 22:00	1.5	1.1	0.0	0.0	1.7	
01/15/2019 06:00	1.4	0.8	0.0	0.0	1.7	
01/15/2019 07:00	1.5	3.7	0.0	0.1	1.6	
01/15/2019 08:00	1.5	3.0	0.0	0.0	1.7	
01/15/2019 09:00	1.5	3.0	0.0	0.0	1.5	
01/15/2019 10:00	1.5	3.0	0.0	0.0	1.5	
01/15/2019 11:00	1.5	3.0	0.0	0.0	1.7	
01/15/2019 12:00	1.5	3.8	0.0	0.0	1.7	
01/15/2019 13:00	1.5	4.2	0.0	0.0	1.5	
01/15/2019 14:00	1.5	2.3	0.0	0.0	1.7	
01/15/2019 15:00	1.5	2.8	0.0	0.0	1.8	
01/15/2019 16:00	1.5	2.0	0.0	0.0	1.4	
01/15/2019 17:00	1.5	2.1	0.0	0.0	1.8	
01/15/2019 18:00	1.4	3.0	0.0	0.0	1.6	
01/15/2019 19:00	1.5	3.2	0.0	0.0	1.6	
01/15/2019 20:00	1.5	2.9	0.0	0.0	1.7	
01/15/2019 21:00	1.5	2.1	0.0	0.0	1.8	
01/15/2019 22:00	1.5	0.4	0.0	0.0	2.1	
01/16/2019 06:00	1.5	1.4	0.0	0.0	1.6	
01/16/2019 07:00	1.5	3.2	0.0	0.0	1.8	
01/16/2019 08:00	1.5	2.7	0.0	0.0	1.7	
01/16/2019 09:00	1.4	1.1	0.0	0.0	2.0	
01/16/2019 14:00	1.5	0.4	0.0	0.0	1.7	
01/16/2019 15:00	1.5	2.4	0.0	0.0	1.6	
01/16/2019 16:00	1.5	3.8	0.0	0.0	1.5	
01/16/2019 17:00	1.5	4.4	0.0	0.1	1.5	
01/16/2019 18:00	1.5	4.8	0.0	0.0	1.4	
01/16/2019 19:00	1.5	4.2	0.0	0.0	1.5	
01/16/2019 20:00	1.5	4.7	0.0	0.0	1.5	
01/16/2019 21:00	1.5	3.8	0.0	0.0	1.5	
01/16/2019 22:00	1.5	1.7	0.0	0.0	1.8	
01/17/2019 06:00	1.5	1.4	0.0	0.0	1.8	
01/17/2019 07:00	1.5	2.2	0.0	0.0	2.0	
01/17/2019 08:00	1.5	2.0	0.0	0.0	2.1	
01/17/2019 15:00	1.5	1.7	0.0	0.0	1.2	
01/17/2019 16:00	1.4	2.3	0.0	0.0	1.6	
01/17/2019 17:00	1.5	2.7	0.0	0.0	1.7	
01/17/2019 18:00	1.5	3.1	0.0	0.0	1.6	
01/17/2019 19:00	1.4	3.0	0.0	0.0	1.6	
01/17/2019 22:00	1.5	1.3	0.0	0.0	1.6	
01/18/2019 06:00	1.5	1.4	0.0	0.0	1.7	
01/18/2019 07:00	1.5	2.0	0.0	0.0	1.9	
01/18/2019 19:00	1.5	1.5	0.0	0.0	1.7	
01/18/2019 22:00	1.5	1.4	0.0	0.0	1.6	
01/18/2019 23:00	1.5	1.4	0.0	0.0	1.7	
01/19/2019 06:00	1.5	1.4	0.0	0.0	1.5	
01/19/2019 07:00	1.5	1.3	0.0	0.0	1.9	
01/19/2019 16:00	1.5	0.4	0.0	0.0	1.6	
01/19/2019 17:00	1.5	3.4	0.0	0.0	1.6	
01/19/2019 18:00	1.5	3.3	0.0	0.0	1.7	
01/19/2019 19:00	1.5	3.1	0.0	0.0	1.6	
01/19/2019 20:00	1.5	2.9	0.0	0.0	1.6	
01/19/2019 21:00	1.5	1.7	0.0	0.0	1.8	
01/20/2019 06:00	1.5	0.9	0.0	0.0	1.4	
01/20/2019 07:00	1.5	0.9	0.0	0.0	1.5	
01/20/2019 17:00	1.4	2.2	0.0	0.0	1.6	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
01/20/2019 18:00	1.5	3.1	0.0	0.0	1.5	
01/21/2019 06:00	1.5	1.5	0.0	0.0	1.8	
01/21/2019 07:00	1.5	2.3	0.0	0.0	1.7	
01/21/2019 08:00	1.4	1.7	0.0	0.0	1.9	
01/21/2019 13:00	1.4	2.0	0.0	0.0	1.3	
01/21/2019 14:00	1.7	0.6	0.0	0.0	1.7	
01/22/2019 06:00	1.8	1.0	0.0	0.0	1.5	
01/22/2019 07:00	1.4	2.8	0.1	0.1	1.8	
01/22/2019 17:00	1.4	3.7	0.2	0.4	1.6	
01/22/2019 18:00	1.6	3.1	0.2	0.2	1.6	
01/22/2019 19:00	1.4	5.0	0.3	0.6	1.6	
01/22/2019 20:00	1.5	3.5	0.2	0.3	1.7	
01/22/2019 21:00	1.5	0.5	0.1	0.0	1.7	
01/23/2019 06:00	1.5	2.6	0.4	0.5	1.6	
01/23/2019 07:00	1.5	3.3	0.4	0.5	1.7	
01/23/2019 08:00	1.5	3.5	0.4	0.6	1.7	
01/23/2019 09:00	1.4	1.0	0.2	0.1	1.8	
01/23/2019 11:00	1.5	2.7	0.2	0.3	1.7	
01/23/2019 18:00	1.6	2.2	0.1	0.1	1.7	
01/23/2019 19:00	1.4	1.3	0.2	0.1	1.7	
01/24/2019 06:00	1.7	1.8	0.3	0.2	1.9	
01/24/2019 07:00	1.4	2.0	0.3	0.3	2.0	
01/24/2019 17:00	1.4	3.2	0.2	0.4	2.0	
01/24/2019 18:00	1.6	2.2	0.0	0.0	2.0	
01/24/2019 19:00	1.5	0.4	0.0	0.0	2.1	
01/25/2019 06:00	1.5	2.9	0.2	0.3	2.0	
01/25/2019 07:00	1.5	3.6	0.2	0.3	2.0	
01/25/2019 08:00	1.5	4.1	0.3	0.6	1.7	
01/25/2019 09:00	1.5	4.4	0.3	0.5	1.6	
01/25/2019 10:00	1.4	4.3	0.4	0.7	1.4	
01/25/2019 11:00	1.5	3.0	0.2	0.2	1.7	
01/25/2019 12:00	1.5	2.1	0.1	0.1	2.2	
01/25/2019 13:00	1.5	3.7	0.3	0.5	1.8	
01/25/2019 14:00	1.5	4.8	0.2	0.5	1.7	
01/25/2019 15:00	1.5	2.1	0.1	0.1	2.1	
01/25/2019 16:00	1.4	2.7	0.4	0.5	1.7	
01/25/2019 17:00	1.5	4.9	0.3	0.6	1.7	
01/25/2019 18:00	1.5	5.1	0.3	0.6	1.6	
01/25/2019 19:00	1.6	3.5	0.2	0.2	1.6	
01/25/2019 20:00	1.4	3.2	0.2	0.2	1.8	
01/25/2019 21:00	1.5	3.2	0.1	0.2	1.9	
01/25/2019 22:00	1.4	2.9	0.1	0.1	1.8	
01/25/2019 23:00	1.5	3.3	0.1	0.1	1.9	
01/26/2019 06:00	1.5	1.4	0.1	0.0	2.1	
01/26/2019 18:00	1.5	1.9	0.1	0.1	1.8	
01/26/2019 19:00	1.5	1.5	0.0	0.0	2.2	
01/27/2019 08:00	1.6	0.4	0.0	0.0	1.9	
01/27/2019 09:00	1.5	0.9	0.0	0.0	2.2	
01/27/2019 16:00	1.5	0.7	0.1	0.0	2.5	
01/27/2019 17:00	1.5	3.0	0.1	0.2	1.8	
01/27/2019 18:00	1.5	3.2	0.1	0.1	1.6	
01/27/2019 19:00	1.5	1.8	0.1	0.1	1.8	
01/27/2019 20:00	1.5	0.4	0.1	0.0	1.8	
01/28/2019 06:00	0.8	0.5	0.4	0.1	2.5	
01/28/2019 07:00	1.5	4.4	0.3	0.5	1.7	
01/28/2019 13:00	1.5	2.5	0.2	0.2	1.6	
01/28/2019 14:00	1.5	2.9	0.1	0.1	1.7	
01/28/2019 18:00	1.4	3.1	0.2	0.3	1.6	
01/28/2019 19:00	1.6	1.6	0.1	0.1	1.8	
01/29/2019 16:00	1.7	2.8	0.0	0.0	2.2	
01/29/2019 17:00	1.3	4.0	0.2	0.4	2.1	
01/29/2019 18:00	1.5	4.7	0.2	0.4	1.6	
01/29/2019 19:00	1.4	3.3	0.1	0.1	1.7	
01/29/2019 20:00	1.5	2.3	0.1	0.1	1.9	
01/29/2019 21:00	1.5	2.0	0.0	0.0	2.3	
01/29/2019 22:00	1.5	1.9	0.0	0.0	2.2	
01/30/2019 06:00	1.5	1.0	0.2	0.1	1.8	
01/30/2019 07:00	1.5	2.9	0.2	0.2	1.8	
01/30/2019 08:00	1.5	2.0	0.0	0.0	2.1	
01/30/2019 16:00	1.4	2.1	0.1	0.1	1.8	
01/30/2019 17:00	1.5	2.4	0.1	0.1	1.7	
01/30/2019 18:00	1.5	2.6	0.1	0.1	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
01/30/2019 19:00	1.5	2.4	0.0	0.0	1.9	
01/30/2019 20:00	1.4	2.9	0.1	0.1	1.7	
01/30/2019 21:00	1.5	2.1	0.0	0.0	2.1	
01/30/2019 22:00	1.5	1.9	0.0	0.0	2.1	
01/31/2019 06:00	1.5	1.3	0.1	0.0	1.9	
01/31/2019 07:00	1.5	2.0	0.0	0.0	2.1	
01/31/2019 08:00	1.5	2.1	0.0	0.0	2.1	
01/31/2019 17:00	1.5	2.1	0.0	0.0	2.2	
01/31/2019 18:00	1.5	2.6	0.1	0.1	1.8	
01/31/2019 19:00	1.4	1.9	0.3	0.2	1.7	
01/31/2019 20:00	1.6	0.6	0.2	0.0	1.8	
01/31/2019 21:00	1.5	1.4	0.1	0.0	1.6	
01/31/2019 22:00	1.5	2.9	0.1	0.1	1.5	
02/01/2019 06:00	1.5	1.5	0.1	0.1	1.9	
02/01/2019 07:00	1.5	2.0	0.0	0.0	2.2	
02/01/2019 16:00	1.6	0.4	0.0	0.0	1.8	
02/01/2019 17:00	1.5	2.0	0.0	0.0	2.2	
02/01/2019 18:00	1.5	1.9	0.0	0.0	2.4	
02/02/2019 07:00	23.9	2.7	0.0	0.0	-0.1	BRK-0008
02/04/2019 16:00	1.1	0.0	0.0	0.0	1.5	
02/04/2019 17:00	1.6	2.6	0.0	0.0	1.8	
02/04/2019 18:00	1.4	1.9	0.0	0.0	2.1	
02/04/2019 19:00	1.5	2.0	0.0	0.0	2.1	
02/04/2019 20:00	1.5	2.0	0.0	0.0	2.2	
02/04/2019 21:00	1.5	1.3	0.0	0.0	2.1	
02/04/2019 22:00	1.5	2.8	0.0	0.0	2.1	
02/04/2019 23:00	1.5	2.0	0.0	0.0	2.1	
02/05/2019 06:00	1.5	2.2	0.0	0.0	1.8	
02/05/2019 07:00	1.5	2.5	0.0	0.0	2.0	
02/05/2019 08:00	1.7	0.5	0.0	0.0	1.9	
02/05/2019 16:00	1.5	0.4	0.0	0.0	1.6	
02/05/2019 17:00	1.5	1.9	0.0	0.0	1.7	
02/05/2019 18:00	1.5	2.4	0.0	0.0	2.0	
02/05/2019 19:00	1.5	2.5	0.0	0.0	2.1	
02/05/2019 20:00	1.6	2.7	0.0	0.0	2.0	
02/05/2019 21:00	1.4	2.1	0.0	0.0	2.0	
02/05/2019 22:00	1.2	0.5	0.0	0.0	2.2	
02/06/2019 06:00	1.0	1.5	0.0	0.0	2.0	
02/06/2019 07:00	1.5	2.8	0.0	0.0	1.8	
02/06/2019 17:00	1.5	0.4	0.0	0.0	1.5	
02/06/2019 18:00	1.5	3.1	0.0	0.0	1.7	
02/06/2019 19:00	1.5	5.0	0.0	0.0	1.5	
02/06/2019 20:00	1.5	2.1	0.0	0.0	2.0	
02/07/2019 06:00	1.7	2.2	0.1	0.1	1.8	
02/07/2019 07:00	1.4	2.4	0.1	0.1	1.7	
02/07/2019 17:00	1.6	2.9	0.0	0.0	1.9	
02/07/2019 18:00	1.4	2.8	0.0	0.0	2.0	
02/07/2019 19:00	1.5	1.5	0.0	0.0	1.9	
02/08/2019 06:00	1.3	3.0	0.0	0.0	1.6	
02/08/2019 07:00	1.6	2.0	0.0	0.0	1.7	
02/08/2019 17:00	1.5	2.1	0.0	0.0	2.1	
02/08/2019 18:00	1.5	1.9	0.0	0.0	2.2	
02/08/2019 19:00	1.5	1.9	0.0	0.0	2.4	
02/09/2019 06:00	1.5	0.9	0.0	0.0	1.6	
02/09/2019 07:00	1.5	0.4	0.0	0.0	2.4	
02/09/2019 10:00	1.4	2.1	0.0	0.0	1.8	
02/12/2019 06:00	1.5	1.0	0.0	0.0	2.0	
02/12/2019 07:00	1.5	2.0	0.0	0.0	2.0	
02/12/2019 15:00	1.5	2.3	0.0	0.0	1.8	
02/12/2019 16:00	1.5	2.1	0.0	0.0	2.0	
02/12/2019 17:00	1.5	2.5	0.0	0.0	1.9	
02/12/2019 18:00	1.4	3.4	0.0	0.1	1.8	
02/12/2019 19:00	1.5	2.9	0.0	0.0	1.8	
02/12/2019 20:00	1.4	2.0	0.0	0.0	2.0	
02/12/2019 21:00	1.5	2.1	0.0	0.0	2.0	
02/12/2019 22:00	1.4	1.9	0.0	0.0	2.0	
02/13/2019 06:00	1.6	1.7	0.0	0.0	1.8	
02/13/2019 07:00	1.5	2.5	0.0	0.0	1.9	
02/13/2019 08:00	1.5	2.2	0.0	0.0	1.9	
02/13/2019 09:00	1.4	2.0	0.0	0.0	2.0	
02/13/2019 15:00	1.5	1.2	0.0	0.0	1.7	
02/13/2019 16:00	1.5	2.0	0.0	0.0	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
02/13/2019 17:00	1.5	3.3	0.0	0.0	1.8	
02/13/2019 18:00	1.5	3.6	0.1	0.2	1.7	
02/13/2019 19:00	1.5	2.6	0.0	0.0	2.0	
02/13/2019 20:00	1.5	2.2	0.0	0.0	2.0	
02/13/2019 21:00	1.5	2.0	0.0	0.0	1.9	
02/13/2019 22:00	1.5	2.0	0.0	0.0	2.1	
02/14/2019 06:00	1.5	1.5	0.0	0.0	1.9	
02/14/2019 07:00	1.5	2.3	0.0	0.0	2.1	
02/14/2019 08:00	1.5	2.1	0.0	0.0	2.1	
02/14/2019 09:00	1.5	2.1	0.0	0.0	2.1	
02/14/2019 10:00	1.5	2.0	0.0	0.0	2.1	
02/14/2019 11:00	1.5	2.1	0.0	0.0	2.1	
02/14/2019 12:00	1.4	2.1	0.0	0.0	2.2	
02/14/2019 13:00	1.5	2.2	0.0	0.0	2.1	
02/14/2019 14:00	1.5	2.0	0.0	0.0	2.1	
02/14/2019 15:00	1.5	2.5	0.0	0.0	2.1	
02/14/2019 16:00	1.5	1.4	0.0	0.0	2.2	
02/14/2019 17:00	1.5	2.2	0.0	0.0	2.0	
02/14/2019 18:00	1.5	2.3	0.0	0.0	2.1	
02/14/2019 19:00	1.4	2.7	0.0	0.0	1.7	
02/14/2019 20:00	1.5	2.2	0.0	0.0	2.0	
02/14/2019 21:00	1.5	2.1	0.0	0.0	2.2	
02/14/2019 22:00	1.5	2.1	0.0	0.0	2.1	
02/14/2019 23:00	1.5	2.1	0.0	0.0	2.1	
02/15/2019 06:00	1.5	1.5	0.0	0.0	2.0	
02/15/2019 07:00	1.5	2.1	0.0	0.0	2.1	
02/15/2019 08:00	1.5	2.4	0.0	0.0	2.2	
02/15/2019 09:00	1.4	2.5	0.0	0.0	2.2	
02/15/2019 10:00	1.5	2.0	0.0	0.0	2.1	
02/15/2019 14:00	1.5	1.5	0.0	0.0	2.0	
02/15/2019 15:00	1.5	2.0	0.0	0.0	2.1	
02/15/2019 16:00	1.5	2.1	0.0	0.0	2.0	
02/15/2019 17:00	1.5	1.3	0.0	0.0	2.0	
02/15/2019 18:00	1.5	2.1	0.0	0.0	2.1	
02/15/2019 19:00	1.5	2.1	0.0	0.0	2.0	
02/15/2019 20:00	1.5	2.2	0.0	0.0	1.9	
02/15/2019 21:00	1.5	2.4	0.0	0.0	1.9	
02/15/2019 22:00	1.5	2.0	0.0	0.0	2.0	
02/16/2019 06:00	1.5	0.9	0.0	0.0	1.2	
02/16/2019 07:00	1.5	4.7	0.0	0.0	1.4	
02/16/2019 08:00	1.5	1.2	0.0	0.0	1.4	
02/16/2019 16:00	1.3	3.2	0.0	0.0	2.0	
02/16/2019 17:00	1.6	3.6	0.0	0.0	1.8	
02/16/2019 18:00	1.5	3.1	0.0	0.0	1.9	
02/16/2019 19:00	1.5	3.3	0.0	0.1	1.9	
02/16/2019 20:00	1.4	2.1	0.0	0.0	2.1	
02/16/2019 21:00	1.5	3.0	0.0	0.0	1.7	
02/16/2019 22:00	1.5	3.4	0.0	0.0	1.9	
02/16/2019 23:00	1.5	0.7	0.0	0.0	2.0	
02/17/2019 08:00	1.5	2.3	0.1	0.1	1.5	
02/17/2019 09:00	1.5	4.9	0.0	0.0	1.6	
02/17/2019 10:00	5.1	10.2	0.0	0.0	1.9 BRK-0010	
02/17/2019 11:00	15.9	30.5	0.0	0.0	1.8 BRK-0010	
02/17/2019 12:00	1.5	3.1	0.0	0.0	2.0	
02/17/2019 13:00	1.5	3.7	0.0	0.0	2.0	
02/17/2019 14:00	1.5	3.0	0.0	0.0	1.9	
02/17/2019 15:00	1.5	3.4	0.0	0.1	1.9	
02/17/2019 16:00	1.4	3.5	0.0	0.0	1.7	
02/17/2019 17:00	1.5	2.5	0.0	0.0	1.9	
02/17/2019 18:00	1.4	5.0	0.0	0.0	1.7	
02/17/2019 19:00	1.5	2.3	0.0	0.0	1.9	
02/17/2019 20:00	1.5	2.4	0.0	0.0	2.1	
02/17/2019 21:00	1.5	2.8	0.0	0.0	1.7	
02/17/2019 22:00	1.5	3.1	0.0	0.0	1.8	
02/17/2019 23:00	1.5	2.2	0.0	0.0	2.0	
02/18/2019 06:00	1.5	1.4	0.0	0.0	2.0	
02/18/2019 07:00	1.4	2.0	0.0	0.0	2.2	
02/18/2019 08:00	1.5	2.0	0.0	0.0	2.1	
02/18/2019 09:00	1.5	2.0	0.0	0.0	2.1	
02/18/2019 16:00	1.5	1.0	0.0	0.0	1.9	
02/18/2019 17:00	1.5	2.9	0.0	0.0	2.3	
02/18/2019 18:00	1.5	4.2	0.0	0.0	1.8	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
02/18/2019 19:00	1.7	0.5	0.0	0.0	2.3	
02/18/2019 21:00	1.5	1.5	0.0	0.0	2.1	
02/18/2019 22:00	1.5	2.1	0.0	0.0	2.1	
02/18/2019 23:00	1.5	2.0	0.0	0.0	2.1	
02/19/2019 06:00	1.6	1.8	0.0	0.0	1.9	
02/19/2019 07:00	1.5	1.9	0.0	0.0	2.2	
02/19/2019 17:00	1.5	1.9	0.0	0.0	1.7	
02/19/2019 18:00	1.5	2.4	0.0	0.0	1.6	
02/19/2019 19:00	1.5	2.3	0.0	0.0	1.7	
02/19/2019 20:00	1.5	2.3	0.0	0.0	1.6	
02/19/2019 21:00	1.5	2.4	0.0	0.0	1.6	
02/19/2019 22:00	1.5	2.4	0.0	0.0	1.6	
02/19/2019 23:00	1.5	2.3	0.0	0.0	1.7	
02/20/2019 16:00	1.7	1.1	0.0	0.0	2.0	
02/20/2019 17:00	1.5	2.1	0.0	0.0	2.1	
02/20/2019 18:00	1.5	2.2	0.0	0.0	2.2	
02/20/2019 19:00	1.5	2.3	0.0	0.0	2.0	
02/20/2019 20:00	1.4	1.9	0.0	0.0	2.3	
02/20/2019 21:00	1.5	1.9	0.0	0.0	2.2	
02/21/2019 17:00	1.5	3.9	0.0	0.0	1.9	
02/21/2019 18:00	1.5	5.0	0.0	0.0	1.9	
02/21/2019 19:00	1.5	5.2	0.0	0.0	1.5	
02/21/2019 20:00	1.5	3.9	0.0	0.0	1.6	
02/21/2019 21:00	1.5	3.4	0.0	0.0	1.6	
02/21/2019 22:00	1.5	3.3	0.0	0.0	1.8	
02/22/2019 06:00	1.5	1.5	0.0	0.0	2.0	
02/22/2019 07:00	1.4	2.0	0.0	0.0	2.3	
02/22/2019 08:00	1.5	2.0	0.0	0.0	2.0	
02/22/2019 17:00	1.4	0.9	0.0	0.0	1.7	
02/22/2019 18:00	1.5	1.4	0.0	0.0	1.9	
02/22/2019 19:00	1.5	2.4	0.0	0.0	1.8	
02/22/2019 20:00	1.5	2.1	0.0	0.0	2.0	
02/22/2019 21:00	1.5	2.3	0.0	0.0	2.0	
02/22/2019 22:00	1.5	2.2	0.0	0.0	1.9	
02/22/2019 23:00	1.5	0.5	0.0	0.0	2.0	
02/23/2019 06:00	1.5	1.4	0.0	0.0	2.0	
02/23/2019 07:00	1.5	1.9	0.0	0.0	2.2	
02/23/2019 17:00	1.5	1.8	0.0	0.0	1.8	
02/23/2019 18:00	1.6	2.6	0.0	0.0	1.8	
02/23/2019 19:00	1.4	2.5	0.0	0.0	1.8	
02/23/2019 20:00	1.5	2.3	0.0	0.0	2.0	
02/23/2019 21:00	1.5	2.1	0.0	0.0	2.0	
02/23/2019 22:00	1.5	2.0	0.0	0.0	2.1	
02/24/2019 16:00	1.5	0.4	0.0	0.0	2.1	
02/24/2019 17:00	1.5	2.2	0.0	0.0	2.1	
02/24/2019 18:00	1.4	1.2	0.0	0.0	2.2	
02/24/2019 19:00	1.5	2.1	0.0	0.0	2.0	
02/24/2019 20:00	1.5	2.2	0.0	0.0	2.0	
02/24/2019 21:00	1.5	2.1	0.0	0.0	2.1	
02/24/2019 22:00	1.5	2.1	0.0	0.0	2.0	
02/25/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/25/2019 07:00	1.5	1.9	0.0	0.0	2.3	
02/25/2019 16:00	1.6	3.0	0.0	0.0	1.9	
02/25/2019 17:00	1.5	2.6	0.0	0.0	2.0	
02/25/2019 18:00	1.5	3.4	0.1	0.2	1.7	
02/25/2019 19:00	1.4	2.4	0.0	0.0	1.7	
02/25/2019 20:00	1.5	2.9	0.0	0.0	1.8	
02/25/2019 21:00	1.5	2.3	0.0	0.0	1.9	
02/25/2019 22:00	1.5	2.0	0.0	0.0	2.2	
02/26/2019 06:00	1.6	0.7	0.0	0.0	2.1	
02/26/2019 07:00	1.5	2.4	0.0	0.0	2.1	
02/26/2019 08:00	1.5	3.1	0.0	0.0	1.9	
02/26/2019 09:00	1.5	3.8	0.0	0.0	1.6	
02/26/2019 10:00	1.4	4.4	0.1	0.1	1.5	
02/26/2019 11:00	1.5	2.5	0.0	0.0	1.7	
02/26/2019 13:00	1.4	3.9	0.1	0.2	1.8	
02/26/2019 14:00	1.4	4.7	0.1	0.2	1.8	
02/26/2019 15:00	1.5	4.9	0.0	0.1	1.6	
02/26/2019 16:00	1.6	3.0	0.0	0.0	2.0	
02/26/2019 17:00	1.4	3.4	0.0	0.0	2.0	
02/26/2019 18:00	1.5	4.8	0.0	0.0	1.7	
02/26/2019 19:00	1.5	4.9	0.0	0.0	1.6	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
02/26/2019 20:00	1.5	4.6	0.0	0.0	1.6	
02/26/2019 21:00	1.5	2.6	0.0	0.0	1.8	
02/26/2019 22:00	1.4	0.5	0.0	0.0	1.8	
02/27/2019 06:00	1.4	1.5	0.0	0.0	1.9	
02/27/2019 07:00	1.5	2.0	0.0	0.0	2.2	
02/27/2019 08:00	1.5	1.3	0.0	0.0	2.1	
02/27/2019 16:00	1.5	1.4	0.0	0.0	1.9	
02/27/2019 17:00	1.5	2.8	0.0	0.0	2.0	
02/27/2019 18:00	1.5	3.4	0.0	0.0	1.7	
02/27/2019 19:00	1.4	4.7	0.1	0.2	1.7	
02/27/2019 20:00	1.5	4.8	0.0	0.0	1.6	
02/27/2019 21:00	1.5	2.2	0.0	0.0	2.0	
02/27/2019 22:00	1.5	0.5	0.0	0.0	2.1	
02/28/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/28/2019 07:00	1.5	2.0	0.0	0.0	2.2	
02/28/2019 08:00	1.5	2.5	0.0	0.0	2.1	
02/28/2019 15:00	1.5	3.4	0.0	0.0	1.5	
02/28/2019 16:00	1.5	2.2	0.0	0.0	1.9	
02/28/2019 17:00	1.5	2.6	0.0	0.0	2.2	
02/28/2019 18:00	1.5	4.6	0.0	0.0	1.9	
02/28/2019 19:00	1.5	5.1	0.0	0.0	1.7	
02/28/2019 20:00	1.5	2.1	0.0	0.0	1.8	
02/28/2019 21:00	1.5	2.1	0.0	0.0	2.0	
02/28/2019 22:00	1.5	1.4	0.0	0.0	2.0	
03/01/2019 06:00	1.4	2.2	0.0	0.0	1.7	
03/01/2019 07:00	1.5	3.1	0.0	0.0	1.9	
03/01/2019 08:00	1.5	2.1	0.0	0.0	2.3	
03/01/2019 09:00	1.6	2.4	0.0	0.0	2.3	
03/01/2019 10:00	1.4	2.2	0.0	0.0	2.2	
03/01/2019 11:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 12:00	1.5	2.1	0.0	0.0	2.2	
03/01/2019 13:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 14:00	1.5	2.0	0.0	0.0	2.4	
03/01/2019 15:00	1.5	2.2	0.0	0.0	2.1	
03/01/2019 16:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 17:00	1.5	2.4	0.0	0.0	2.1	
03/01/2019 18:00	1.5	4.8	0.0	0.1	1.7	
03/01/2019 19:00	1.6	4.0	0.0	0.0	1.5	
03/01/2019 20:00	1.4	4.9	0.0	0.0	1.7	
03/01/2019 21:00	1.6	2.9	0.1	0.1	1.7	
03/01/2019 22:00	1.3	2.0	0.1	0.1	1.7	
03/02/2019 07:00	1.4	2.0	0.0	0.0	1.9	
03/02/2019 08:00	1.5	2.6	0.0	0.0	1.8	
03/02/2019 09:00	1.5	2.3	0.0	0.0	2.0	
03/02/2019 10:00	1.5	2.5	0.0	0.0	1.9	
03/02/2019 17:00	1.6	2.9	0.0	0.0	2.0	
03/02/2019 18:00	1.4	4.6	0.0	0.0	1.8	
03/02/2019 19:00	1.6	2.3	0.0	0.0	2.1	
03/02/2019 20:00	1.4	3.9	0.0	0.0	1.8	
03/03/2019 06:00	1.5	1.7	0.0	0.0	2.3	
03/03/2019 18:00	1.4	4.0	0.0	0.0	1.9	
03/03/2019 19:00	1.5	2.7	0.0	0.0	2.0	
03/03/2019 20:00	1.5	1.5	0.0	0.0	2.3	
03/03/2019 21:00	1.5	0.4	0.0	0.0	2.4	
03/04/2019 06:00	1.5	1.8	0.0	0.0	2.1	
03/04/2019 07:00	1.5	0.9	0.0	0.0	2.2	
03/04/2019 17:00	1.7	3.1	0.0	0.0	2.2	
03/04/2019 18:00	1.3	4.6	0.0	0.1	1.8	
03/04/2019 19:00	1.5	4.8	0.0	0.1	1.7	
03/04/2019 20:00	1.5	4.9	0.1	0.1	1.8	
03/04/2019 21:00	1.6	4.0	0.0	0.0	1.8	
03/04/2019 22:00	1.4	3.0	0.0	0.0	1.8	
03/04/2019 23:00	1.5	2.2	0.0	0.0	1.7	
03/05/2019 06:00	1.4	1.5	0.0	0.0	1.9	
03/05/2019 07:00	1.5	2.5	0.0	0.0	1.9	
03/05/2019 08:00	1.5	2.3	0.0	0.0	2.1	
03/05/2019 09:00	1.5	2.9	0.1	0.1	1.9	
03/05/2019 10:00	1.5	2.3	0.0	0.0	1.9	
03/05/2019 11:00	1.5	2.3	0.0	0.0	1.8	
03/05/2019 12:00	1.5	1.4	0.0	0.0	1.9	
03/05/2019 13:00	1.5	2.6	0.0	0.0	1.6	
03/05/2019 14:00	1.5	0.4	0.0	0.0	1.8	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
03/05/2019 15:00	1.4	1.0	0.0	0.0	1.7	
03/05/2019 16:00	1.5	2.1	0.0	0.0	2.0	
03/05/2019 17:00	1.4	3.4	0.0	0.0	2.1	
03/05/2019 18:00	1.5	3.7	0.0	0.0	1.7	
03/05/2019 19:00	1.5	1.9	0.0	0.0	2.2	
03/05/2019 20:00	1.5	2.6	0.0	0.0	2.0	
03/05/2019 21:00	1.5	1.4	0.0	0.0	1.9	
03/06/2019 06:00	1.6	2.4	0.0	0.0	1.4	
03/06/2019 07:00	1.4	3.8	0.0	0.0	1.5	
03/06/2019 08:00	1.6	3.5	0.0	0.0	1.7	
03/06/2019 09:00	1.5	2.9	0.0	0.0	1.6	
03/06/2019 10:00	1.5	3.0	0.0	0.0	1.7	
03/06/2019 17:00	1.5	2.9	0.1	0.1	1.8	
03/06/2019 18:00	1.5	2.2	0.0	0.0	2.0	
03/06/2019 19:00	1.5	1.7	0.0	0.0	1.6	
03/07/2019 08:00	1.5	2.1	0.0	0.0	1.5	
03/07/2019 09:00	1.5	2.9	0.0	0.0	1.7	
03/07/2019 12:00	1.5	4.4	0.0	0.0	1.1	
03/07/2019 13:00	1.5	4.7	0.0	0.0	1.3	
03/07/2019 14:00	1.5	4.5	0.0	0.0	1.3	
03/07/2019 15:00	1.5	4.2	0.0	0.0	1.4	
03/07/2019 16:00	1.5	2.9	0.0	0.0	2.1	
03/07/2019 17:00	1.5	2.7	0.0	0.0	2.1	
03/07/2019 18:00	1.4	4.7	0.1	0.1	1.6	
03/07/2019 19:00	1.5	4.3	0.1	0.1	1.4	
03/07/2019 20:00	1.5	0.9	0.0	0.0	2.2	
03/08/2019 07:00	1.5	1.3	0.0	0.0	1.9	
03/08/2019 10:00	1.6	1.6	0.0	0.0	1.8	
03/08/2019 11:00	1.5	1.6	0.0	0.0	2.0	
03/08/2019 12:00	1.4	2.3	0.0	0.0	1.5	
03/09/2019 07:00	1.5	2.3	0.0	0.0	1.5	
03/09/2019 08:00	1.4	3.1	0.0	0.0	1.5	
03/09/2019 15:00	0.9	0.6	0.1	0.0	1.8	
03/09/2019 16:00	1.5	2.9	0.0	0.1	1.9	
03/09/2019 17:00	1.5	2.7	0.0	0.0	2.0	
03/09/2019 18:00	1.4	4.6	0.1	0.1	1.3	
03/09/2019 19:00	1.6	1.2	0.0	0.0	1.7	
03/10/2019 07:00	1.5	2.2	0.0	0.0	1.4	
03/10/2019 08:00	1.5	3.4	0.0	0.0	1.5	
03/10/2019 09:00	1.5	3.0	0.0	0.0	1.5	
03/10/2019 12:00	1.5	2.2	0.0	0.0	1.5	
03/10/2019 13:00	1.5	3.0	0.0	0.0	1.5	
03/10/2019 14:00	1.5	2.0	0.0	0.0	1.4	
03/10/2019 15:00	1.5	3.0	0.0	0.0	1.5	
03/10/2019 18:00	1.5	3.0	0.1	0.1	1.8	
03/10/2019 19:00	1.5	2.0	0.0	0.0	1.9	
03/10/2019 20:00	1.5	2.1	0.0	0.0	1.9	
03/10/2019 21:00	1.5	0.4	0.0	0.0	1.9	
03/11/2019 05:00	1.2	1.8	0.2	0.2	1.6	
03/11/2019 06:00	1.6	5.6	0.1	0.1	1.3	
03/11/2019 07:00	1.6	2.3	0.0	0.0	2.1	
03/11/2019 08:00	1.4	2.3	0.0	0.0	1.9	
03/11/2019 09:00	1.5	0.5	0.0	0.0	1.9	
03/11/2019 13:00	1.5	4.6	0.3	0.6	1.7	
03/11/2019 14:00	1.3	4.4	0.1	0.3	1.6	
03/11/2019 15:00	1.5	3.0	0.0	0.1	1.7	
03/11/2019 16:00	1.6	2.7	0.0	0.0	1.9	
03/11/2019 17:00	1.5	3.4	0.0	0.1	1.6	
03/11/2019 18:00	1.5	4.1	0.1	0.1	1.5	
03/11/2019 19:00	1.5	2.3	0.0	0.0	2.0	
03/11/2019 20:00	1.5	1.4	0.0	0.0	1.8	
03/11/2019 21:00	1.3	1.8	0.2	0.2	1.7	
03/12/2019 05:00	1.5	1.9	0.0	0.0	1.7	
03/12/2019 06:00	1.5	4.1	0.0	0.1	1.3	
03/12/2019 07:00	1.6	2.3	0.0	0.0	2.1	
03/12/2019 08:00	1.1	0.4	0.0	0.0	2.2	
03/12/2019 12:00	1.4	1.6	0.0	0.0	1.6	
03/12/2019 13:00	1.5	1.9	0.1	0.1	1.9	
03/12/2019 18:00	1.2	1.7	0.0	0.0	1.6	
03/12/2019 19:00	2.0	0.5	0.0	0.0	1.9	
03/13/2019 10:00	1.6	0.3	0.1	0.0	1.1	
03/13/2019 11:00	1.6	0.7	0.1	0.0	1.4	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
03/13/2019 12:00	1.5	4.2	0.1	0.1	1.4	
03/13/2019 13:00	1.5	4.5	0.1	0.1	1.3	
03/13/2019 14:00	1.5	4.5	0.1	0.1	1.3	
03/13/2019 15:00	1.5	4.4	0.1	0.1	1.2	
03/13/2019 17:00	1.6	1.9	0.0	0.0	1.9	
03/13/2019 18:00	1.4	3.2	0.2	0.3	1.4	
03/13/2019 19:00	1.5	3.1	0.0	0.0	1.7	
03/13/2019 20:00	1.5	3.0	0.0	0.0	1.7	
03/13/2019 21:00	1.5	2.1	0.0	0.0	2.1	
03/13/2019 22:00	1.5	2.0	0.0	0.0	2.1	
03/14/2019 05:00	1.0	0.6	0.1	0.0	1.5	
03/14/2019 06:00	1.5	3.1	0.1	0.1	1.4	
03/14/2019 15:00	1.5	1.9	0.0	0.0	1.7	
03/14/2019 16:00	1.5	2.9	0.0	0.0	2.3	
03/14/2019 17:00	1.4	2.0	0.0	0.0	1.8	
03/14/2019 18:00	1.5	2.2	0.0	0.0	1.9	
03/14/2019 19:00	1.5	0.4	0.0	0.0	2.3	
03/14/2019 20:00	1.5	0.9	0.0	0.0	2.0	
03/14/2019 21:00	1.5	1.9	0.0	0.0	2.1	
03/15/2019 19:00	1.5	1.5	0.0	0.0	1.8	
03/15/2019 20:00	1.5	1.9	0.0	0.0	2.3	
03/15/2019 21:00	1.5	0.4	0.0	0.0	2.3	
03/16/2019 11:00	1.5	1.1	0.0	0.0	1.6	
03/16/2019 12:00	1.5	2.4	0.0	0.0	1.7	
03/16/2019 13:00	1.5	2.2	0.0	0.0	1.7	
03/16/2019 16:00	1.5	1.7	0.0	0.0	1.6	
03/16/2019 18:00	1.4	1.4	0.1	0.1	2.3	
03/16/2019 19:00	1.4	2.2	0.0	0.0	1.6	
03/17/2019 15:00	1.9	0.5	0.0	0.0	1.9	
03/17/2019 16:00	1.6	1.5	0.0	0.0	1.9	
03/17/2019 19:00	1.5	1.5	0.0	0.0	1.7	
03/17/2019 20:00	1.5	1.5	0.0	0.0	1.6	
03/18/2019 06:00	1.6	1.2	0.0	0.0	1.6	
03/18/2019 16:00	1.5	2.2	0.0	0.0	1.5	
03/18/2019 17:00	1.6	2.8	0.0	0.1	2.0	
03/18/2019 18:00	1.4	2.3	0.0	0.1	1.8	
03/18/2019 19:00	1.5	1.2	0.0	0.0	1.9	
03/19/2019 06:00	1.5	2.9	0.0	0.1	1.9	
03/19/2019 07:00	1.5	4.5	0.1	0.1	1.4	
03/19/2019 08:00	1.5	4.5	0.1	0.3	1.5	
03/19/2019 09:00	1.5	4.8	0.1	0.2	1.5	
03/19/2019 10:00	1.5	4.8	0.1	0.3	1.3	
03/19/2019 11:00	1.5	4.3	0.1	0.1	1.4	
03/19/2019 12:00	1.5	4.8	0.1	0.3	1.5	
03/19/2019 13:00	1.5	5.1	0.1	0.3	1.5	
03/19/2019 14:00	1.5	4.9	0.1	0.3	1.6	
03/19/2019 15:00	1.5	3.2	0.1	0.1	1.7	
03/19/2019 16:00	1.5	2.1	0.0	0.0	2.0	
03/19/2019 17:00	1.6	2.4	0.0	0.0	1.9	
03/19/2019 18:00	1.4	2.3	0.0	0.0	2.1	
03/19/2019 19:00	1.4	0.9	0.0	0.0	2.2	
03/20/2019 05:00	1.4	0.4	0.0	0.0	1.5	
03/20/2019 06:00	1.6	2.6	0.0	0.0	1.9	
03/20/2019 07:00	1.2	2.7	0.4	0.6	1.8	
03/20/2019 08:00	1.5	3.6	0.1	0.2	1.4	
03/20/2019 09:00	1.5	4.4	0.2	0.3	1.3	
03/20/2019 10:00	1.5	3.8	0.2	0.4	1.4	
03/20/2019 11:00	1.5	2.2	0.0	0.0	1.8	
03/20/2019 12:00	1.4	4.0	0.3	0.6	1.6	
03/20/2019 13:00	1.5	2.4	0.0	0.0	1.8	
03/20/2019 14:00	1.5	2.8	0.0	0.0	1.6	
03/20/2019 15:00	1.5	1.1	0.0	0.0	1.8	
03/20/2019 17:00	1.5	0.4	0.0	0.0	1.6	
03/20/2019 18:00	1.5	2.0	0.0	0.0	2.0	
03/20/2019 19:00	1.5	1.4	0.0	0.0	2.1	
03/21/2019 05:00	1.7	1.6	0.0	0.0	1.8	
03/21/2019 06:00	1.3	1.9	0.2	0.2	1.5	
03/21/2019 08:00	1.5	2.2	0.0	0.0	1.5	
03/21/2019 09:00	1.5	3.1	0.0	0.0	1.6	
03/21/2019 10:00	1.5	3.0	0.0	0.0	1.5	
03/21/2019 11:00	1.5	2.5	0.0	0.0	1.5	
03/21/2019 12:00	1.5	2.6	0.0	0.0	1.4	

Period Start:	Average	Average	Average	Average	Average	Notes
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm	
03/21/2019 13:00	1.5	3.0	0.0	0.0	1.5	
03/21/2019 14:00	1.5	3.2	0.0	0.0	1.5	
03/21/2019 15:00	1.5	3.0	0.0	0.0	1.4	
03/21/2019 16:00	1.5	3.1	0.0	0.0	1.5	
03/21/2019 17:00	1.4	0.4	0.0	0.0	2.1	
03/22/2019 18:00	1.5	2.7	0.0	0.0	2.0	
03/22/2019 19:00	1.5	2.1	0.0	0.0	1.9	
03/22/2019 20:00	1.5	0.9	0.0	0.0	2.3	
03/23/2019 07:00	1.5	2.2	0.0	0.0	1.5	
03/23/2019 08:00	1.5	3.2	0.0	0.0	1.6	
03/23/2019 09:00	1.3	0.6	0.0	0.0	1.8	
03/23/2019 18:00	1.4	3.5	0.1	0.1	1.8	
03/23/2019 19:00	1.5	2.0	0.0	0.0	2.1	
03/23/2019 20:00	1.5	0.4	0.0	0.0	2.1	
03/23/2019 21:00	1.7	1.7	0.0	0.0	1.5	
03/23/2019 22:00	1.0	0.6	0.0	0.0	1.7	
03/24/2019 12:00	1.6	1.7	0.2	0.2	1.5	
03/24/2019 18:00	1.4	3.2	0.0	0.1	2.0	
03/24/2019 19:00	1.4	3.1	0.0	0.0	2.0	
03/24/2019 20:00	1.5	2.8	0.0	0.0	1.9	
03/24/2019 21:00	1.4	0.9	0.0	0.0	2.3	
03/25/2019 05:00	1.5	1.3	0.0	0.0	1.8	
03/25/2019 06:00	1.5	2.0	0.0	0.0	2.0	
03/25/2019 07:00	1.5	0.9	0.0	0.0	2.2	
03/25/2019 11:00	1.5	2.2	0.0	0.0	1.5	
03/25/2019 12:00	1.5	3.0	0.0	0.0	1.5	
03/25/2019 13:00	1.5	3.0	0.0	0.0	1.5	
03/25/2019 17:00	1.5	2.7	0.0	0.0	1.8	
03/25/2019 18:00	1.6	3.7	0.0	0.1	1.7	
03/25/2019 19:00	1.4	2.9	0.0	0.0	1.9	
03/25/2019 20:00	1.5	0.4	0.0	0.0	2.0	
03/26/2019 06:00	1.5	1.9	0.1	0.1	1.5	
03/26/2019 07:00	1.5	0.4	0.0	0.0	2.0	
03/26/2019 17:00	1.3	0.8	0.1	0.0	1.2	
03/26/2019 18:00	1.5	2.8	0.0	0.1	1.9	
03/26/2019 19:00	1.5	2.0	0.0	0.0	2.3	
03/26/2019 20:00	1.5	0.9	0.0	0.0	2.1	
03/26/2019 21:00	1.6	0.5	0.0	0.0	1.7	
03/26/2019 22:00	1.4	1.5	0.0	0.0	1.9	
03/27/2019 06:00	1.6	1.7	0.0	0.0	2.0	
03/27/2019 07:00	1.0	0.7	0.1	0.0	2.0	
03/27/2019 16:00	1.5	1.6	0.0	0.0	1.7	
03/27/2019 18:00	1.1	0.9	0.1	0.1	1.7	
03/27/2019 19:00	1.4	2.0	0.1	0.1	1.5	
03/28/2019 05:00	1.0	0.7	0.2	0.1	1.6	
03/28/2019 06:00	1.6	3.4	0.0	0.1	1.7	
03/28/2019 07:00	1.5	2.0	0.0	0.0	2.0	
03/28/2019 08:00	1.5	2.0	0.0	0.0	2.0	
03/28/2019 11:00	1.4	1.2	0.1	0.1	1.6	
03/28/2019 12:00	1.5	2.6	0.1	0.1	1.6	
03/28/2019 13:00	1.5	2.5	0.0	0.0	1.7	
03/28/2019 14:00	1.5	2.4	0.0	0.0	1.7	
03/28/2019 15:00	1.5	2.4	0.0	0.0	1.9	
03/28/2019 17:00	1.0	0.7	0.1	0.0	1.8	
03/28/2019 18:00	1.5	2.7	0.0	0.0	1.8	
03/28/2019 19:00	1.6	0.4	0.0	0.0	2.0	
03/29/2019 05:00	1.3	0.3	0.1	0.0	1.8	
03/29/2019 06:00	1.5	1.1	0.1	0.0	2.1	
03/29/2019 11:00	1.5	1.6	0.0	0.0	2.1	
03/29/2019 12:00	1.4	2.0	0.0	0.0	2.2	
03/29/2019 13:00	1.5	1.9	0.0	0.0	2.1	
03/29/2019 18:00	1.5	0.4	0.0	0.0	1.3	
03/29/2019 19:00	1.5	0.9	0.0	0.0	1.5	
03/30/2019 05:00	1.8	1.1	0.2	0.1	1.8	
03/30/2019 06:00	1.7	2.4	0.1	0.1	2.2	
03/30/2019 07:00	1.3	2.4	0.2	0.2	1.8	
03/30/2019 08:00	1.6	3.1	0.1	0.2	1.8	
03/30/2019 09:00	1.5	2.2	0.0	0.0	2.0	
03/30/2019 17:00	1.5	1.4	0.0	0.0	2.0	
03/30/2019 18:00	1.5	2.0	0.0	0.0	2.2	
03/30/2019 19:00	1.5	2.0	0.0	0.0	2.1	
03/30/2019 20:00	1.5	2.0	0.0	0.0	2.0	

Period Start:	Average 7NOxCorOP1 ppm	Average 7NOX#OP1HR LBS	Average 7COCorOP1 ppm	Average 7CO#OP1HR LBS	Average 7NH3CorOP1 ppm	Notes
03/30/2019 21:00	1.5	1.9	0.0	0.0	2.1	
03/31/2019 05:00	1.6	0.4	0.1	0.0	1.6	
03/31/2019 06:00	1.5	3.4	0.1	0.2	2.1	
03/31/2019 07:00	1.4	3.0	0.1	0.2	1.7	
03/31/2019 12:00	1.4	1.4	0.1	0.1	2.0	
03/31/2019 13:00	1.6	2.4	0.1	0.1	1.8	
03/31/2019 14:00	1.4	2.6	0.1	0.1	1.7	
03/31/2019 17:00	1.8	1.3	0.1	0.0	1.8	
03/31/2019 18:00	1.4	2.6	0.1	0.1	2.1	
03/31/2019 19:00	1.5	2.6	0.0	0.1	1.8	
03/31/2019 20:00	1.5	2.1	0.0	0.0	2.1	
03/31/2019 21:00	1.5	0.4	0.0	0.0	2.2	
Final Average*	1.5	2.4	0.0	0.0	1.8	
Maximum*	23.9	30.5	0.4	0.7	2.5	
	02/02/2019	02/17/2019	03/20/2019	01/25/2019	01/28/2019	
	7:00	11:00	7:00	10:00	6:00	
Minimum*	0.8	0.0	0.0	0.0	-0.1	
	01/28/2019	02/04/2019	03/31/2019	03/31/2019	02/02/2019	
	6:00	16:00	21:00	21:00	7:00	

* Does not include Invalid Averaging Periods ("N/A")

Average Values Report
Generated: 4/23/2019 06:36Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 8Period Start: 1/1/2019 00:00
Period End: 3/31/2019 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 8NOxCorOP1 ppm	Average 8NOX#OP1HR LBS	Average 8COCorOP1 ppm	Average 8CO#OP1HR LBS	Average 8NH3CorOP1 ppm	Notes
01/01/2019 19:00	1.5	1.2	0.0	0.0	1.9	
01/01/2019 20:00	1.5	0.9	0.0	0.0	1.9	
01/02/2019 12:00	1.5	2.4	0.4	0.3	1.9	
01/02/2019 13:00	1.5	1.6	0.1	0.1	2.3	
01/02/2019 17:00	1.6	0.7	0.0	0.0	2.6	
01/02/2019 18:00	1.7	0.0	0.0	0.0	2.5	
01/02/2019 19:00	1.5	1.9	0.0	0.0	2.3	
01/03/2019 17:00	1.5	0.4	0.0	0.0	1.8	
01/03/2019 18:00	1.6	0.2	0.0	0.0	2.6	
01/07/2019 16:00	1.7	0.9	0.4	0.2	2.6	
01/07/2019 17:00	1.5	1.9	0.2	0.2	2.4	
01/07/2019 18:00	1.5	1.8	0.1	0.1	2.5	
01/08/2019 06:00	1.3	0.9	0.7	0.3	2.0	
01/08/2019 07:00	1.5	2.1	0.3	0.3	2.2	
01/08/2019 18:00	1.6	1.9	0.1	0.1	2.3	
01/08/2019 19:00	1.5	0.5	0.1	0.0	2.4	
01/09/2019 06:00	1.4	0.6	0.4	0.1	2.6	
01/09/2019 07:00	1.5	2.1	0.4	0.4	2.3	
01/09/2019 16:00	1.6	1.6	0.2	0.2	2.0	
01/09/2019 20:00	1.8	1.7	0.1	0.1	2.3	
01/09/2019 21:00	1.7	2.5	0.2	0.2	2.3	
01/09/2019 22:00	1.7	0.5	0.1	0.0	2.3	
01/10/2019 16:00	1.5	0.8	0.0	0.0	2.2	
01/11/2019 06:00	1.5	0.9	0.0	0.0	2.4	
01/11/2019 07:00	1.5	1.9	0.0	0.0	2.5	
01/11/2019 08:00	1.5	0.9	0.0	0.0	2.4	
01/11/2019 16:00	1.6	0.4	0.0	0.0	2.0	
01/11/2019 17:00	1.5	2.2	0.0	0.0	2.2	
01/11/2019 18:00	1.5	2.1	0.0	0.0	2.4	
01/11/2019 19:00	1.5	2.1	0.0	0.0	2.4	
01/11/2019 20:00	1.5	2.1	0.0	0.0	2.3	
01/11/2019 21:00	1.5	0.9	0.0	0.0	2.4	
01/12/2019 17:00	1.5	0.8	0.0	0.0	2.5	
01/12/2019 18:00	1.5	2.3	0.0	0.0	2.2	
01/12/2019 19:00	1.6	2.5	0.0	0.0	2.2	
01/12/2019 20:00	1.5	2.2	0.0	0.0	2.3	
01/12/2019 21:00	1.4	1.5	0.0	0.0	2.2	
01/13/2019 07:00	1.5	0.8	0.0	0.0	2.3	
01/13/2019 16:00	1.4	1.2	0.0	0.0	2.3	
01/13/2019 17:00	1.5	1.9	0.0	0.0	2.3	
01/13/2019 18:00	1.5	1.9	0.0	0.0	2.4	
01/13/2019 19:00	1.5	2.0	0.0	0.0	2.3	
01/13/2019 20:00	1.5	2.0	0.0	0.0	2.4	
01/13/2019 21:00	1.5	1.8	0.0	0.0	2.4	
01/14/2019 07:00	1.7	1.1	0.0	0.0	2.3	
01/14/2019 08:00	1.4	4.7	0.9	1.8	2.4	
01/14/2019 09:00	1.5	4.4	0.6	1.1	2.2	
01/14/2019 10:00	1.4	4.3	0.8	1.6	2.4	
01/14/2019 11:00	1.3	4.8	0.8	1.6	2.5	
01/14/2019 12:00	1.4	4.8	0.7	1.4	2.3	
01/14/2019 13:00	1.5	4.9	0.8	1.6	2.3	
01/14/2019 14:00	1.4	3.8	0.4	0.8	2.4	
01/14/2019 15:00	1.5	2.0	0.0	0.0	2.6	
01/14/2019 16:00	1.5	2.1	0.0	0.0	2.5	
01/14/2019 17:00	1.5	3.1	0.1	0.1	2.2	
01/14/2019 18:00	1.5	2.9	0.0	0.0	2.1	
01/14/2019 19:00	1.5	2.1	0.0	0.0	2.4	
01/14/2019 20:00	1.5	2.2	0.0	0.0	2.2	
01/14/2019 21:00	1.5	2.1	0.0	0.0	2.3	
01/14/2019 22:00	1.5	1.2	0.0	0.0	2.3	
01/15/2019 16:00	1.7	1.3	0.0	0.0	2.5	
01/15/2019 17:00	1.5	2.1	0.0	0.0	2.5	
01/15/2019 18:00	1.4	3.0	0.0	0.0	2.1	

Period Start:	Average	Average	Average	Average	Average	Notes
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm	
01/15/2019 19:00	1.5	3.2	0.1	0.1	2.1	
01/15/2019 20:00	1.4	2.8	0.0	0.0	2.0	
01/15/2019 21:00	1.5	2.1	0.0	0.0	2.3	
01/15/2019 22:00	1.5	0.4	N/A	N/A	2.4	
01/16/2019 06:00	1.5	1.3	0.0	0.0	2.4	
01/16/2019 07:00	1.5	3.3	0.1	0.3	2.3	
01/16/2019 08:00	1.5	2.7	0.0	0.0	2.1	
01/16/2019 09:00	1.5	1.1	0.0	0.0	2.5	
01/16/2019 14:00	1.5	0.4	N/A	N/A	2.5	
01/16/2019 15:00	1.6	2.6	0.3	0.1	2.5	
01/16/2019 16:00	1.5	3.9	0.5	0.6	2.2	
01/16/2019 17:00	1.5	4.6	0.5	1.0	2.3	
01/16/2019 18:00	1.5	4.7	0.5	1.0	2.1	
01/16/2019 19:00	1.5	4.5	0.4	0.7	2.1	
01/16/2019 20:00	1.5	4.6	0.5	1.0	2.1	
01/16/2019 21:00	1.5	3.8	0.3	0.5	2.0	
01/16/2019 22:00	1.4	1.6	0.1	0.1	2.4	
01/17/2019 06:00	1.6	1.5	0.0	0.0	2.3	
01/17/2019 07:00	1.5	2.2	0.0	0.0	2.3	
01/17/2019 08:00	1.5	1.9	0.0	0.0	2.4	
01/17/2019 16:00	1.5	0.9	0.0	0.0	2.2	
01/17/2019 17:00	1.6	2.7	0.1	0.1	2.1	
01/17/2019 18:00	1.5	1.9	0.1	0.1	1.9	
01/17/2019 19:00	1.4	3.0	0.2	0.3	2.0	
01/18/2019 06:00	1.5	1.0	0.0	0.0	2.1	
01/18/2019 07:00	1.5	2.0	0.0	0.0	2.4	
01/18/2019 22:00	1.5	1.3	0.0	0.0	2.4	
01/18/2019 23:00	1.5	1.3	0.0	0.0	2.6	
01/19/2019 06:00	1.5	1.3	0.0	0.0	2.5	
01/19/2019 07:00	1.5	2.2	0.0	0.0	2.4	
01/19/2019 16:00	1.6	0.4	0.0	0.0	2.2	
01/19/2019 17:00	1.6	3.6	0.2	0.4	2.2	
01/19/2019 18:00	1.5	3.2	0.1	0.1	1.8	
01/19/2019 19:00	1.5	2.5	0.0	0.0	2.0	
01/19/2019 20:00	1.5	2.4	0.1	0.1	2.1	
01/19/2019 21:00	1.5	1.8	0.0	0.0	2.2	
01/20/2019 17:00	1.4	2.2	0.0	0.0	2.2	
01/20/2019 18:00	1.5	3.1	0.0	0.0	2.0	
01/21/2019 06:00	1.6	1.6	0.0	0.0	2.2	
01/21/2019 07:00	1.5	2.4	0.0	0.0	2.3	
01/21/2019 08:00	1.4	1.7	0.1	0.1	2.3	
01/21/2019 17:00	0.7	0.0	0.6	0.0	2.8	
01/21/2019 18:00	1.4	3.3	0.3	0.5	1.9	
01/21/2019 19:00	1.5	3.5	0.3	0.5	1.8	
01/21/2019 20:00	1.6	4.0	0.4	0.7	2.0	
01/21/2019 21:00	1.4	3.8	0.5	0.9	1.9	
01/21/2019 22:00	1.5	1.2	0.0	0.0	2.5	
01/22/2019 06:00	1.7	1.9	0.0	0.0	2.1	
01/22/2019 07:00	1.4	2.9	0.3	0.4	2.4	
01/22/2019 17:00	1.5	2.9	1.1	1.2	2.3	
01/22/2019 18:00	1.5	3.0	0.2	0.2	2.2	
01/22/2019 19:00	1.5	5.2	0.9	1.9	2.3	
01/22/2019 20:00	1.4	3.3	0.4	0.7	2.1	
01/22/2019 21:00	1.5	0.4	0.0	0.0	1.9	
01/23/2019 06:00	1.6	2.9	0.6	0.7	1.9	
01/23/2019 07:00	1.5	3.3	0.5	0.9	2.3	
01/23/2019 08:00	1.5	3.7	0.6	1.1	2.3	
01/23/2019 09:00	1.4	1.1	0.0	0.0	2.3	
01/23/2019 13:00	1.7	0.8	0.5	0.2	1.9	
01/23/2019 14:00	1.5	4.0	0.7	1.3	2.2	
01/23/2019 15:00	1.5	0.7	0.1	0.0	2.1	
01/23/2019 18:00	1.6	2.3	0.0	0.0	2.0	
01/23/2019 19:00	1.4	2.2	0.1	0.1	2.2	
01/24/2019 06:00	1.7	1.8	0.0	0.0	2.4	
01/24/2019 07:00	1.4	2.0	0.1	0.2	2.4	
01/24/2019 18:00	1.6	0.8	0.0	0.0	2.3	
01/24/2019 19:00	1.5	0.4	0.0	0.0	2.4	
01/25/2019 06:00	1.6	3.0	0.7	1.0	2.3	
01/25/2019 07:00	1.5	3.6	0.5	0.9	2.4	
01/25/2019 08:00	1.6	4.5	0.7	1.3	2.3	
01/25/2019 09:00	1.5	4.5	1.0	1.9	2.0	
01/25/2019 10:00	1.4	4.3	0.9	1.6	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm	
01/25/2019 11:00	1.5	2.9	0.2	0.2	2.1	
01/25/2019 12:00	1.6	2.1	0.0	0.0	2.4	
01/25/2019 13:00	1.6	4.0	0.5	1.2	2.4	
01/25/2019 14:00	1.4	4.5	1.0	2.0	2.5	
01/25/2019 15:00	1.5	2.0	0.0	0.0	2.4	
01/25/2019 16:00	1.5	3.7	0.5	0.9	2.2	
01/25/2019 17:00	1.5	5.1	0.8	1.7	2.3	
01/25/2019 18:00	1.5	5.3	0.9	1.8	2.2	
01/25/2019 19:00	1.4	3.0	0.4	0.6	2.1	
01/26/2019 06:00	1.6	1.4	0.0	0.0	2.4	
01/27/2019 09:00	1.5	0.7	0.0	0.0	2.3	
01/27/2019 16:00	1.8	0.8	0.4	0.1	2.6	
01/27/2019 17:00	1.5	3.1	0.3	0.5	2.2	
01/27/2019 18:00	1.5	3.1	0.3	0.4	1.9	
01/27/2019 19:00	1.5	2.6	0.2	0.2	2.1	
01/27/2019 20:00	1.5	0.5	N/A	N/A	2.1	
01/28/2019 06:00	1.0	0.7	0.9	0.4	2.9	
01/28/2019 07:00	1.4	4.3	0.7	1.2	2.2	
01/28/2019 17:00	1.6	2.8	0.2	0.3	2.2	
01/28/2019 18:00	1.4	4.0	0.8	1.4	2.3	
01/28/2019 19:00	1.5	1.5	0.3	0.2	2.2	
01/29/2019 06:00	1.5	0.4	0.0	0.0	1.6	
01/29/2019 07:00	1.5	0.9	0.0	0.0	2.2	
01/29/2019 17:00	1.3	2.0	0.5	0.5	2.5	
01/29/2019 18:00	1.5	4.7	0.5	1.1	2.1	
01/29/2019 19:00	1.4	3.3	0.2	0.3	2.3	
01/29/2019 20:00	1.5	2.3	0.0	0.0	2.3	
01/29/2019 21:00	1.5	2.0	0.0	0.0	2.5	
01/29/2019 22:00	1.5	1.9	0.0	0.0	2.5	
01/30/2019 06:00	1.4	1.0	0.0	0.0	2.0	
01/30/2019 07:00	1.5	2.8	0.1	0.2	2.0	
01/30/2019 08:00	1.5	2.0	0.0	0.0	2.4	
01/30/2019 16:00	1.6	2.4	0.3	0.4	2.2	
01/30/2019 17:00	1.5	2.2	0.0	0.0	2.2	
01/30/2019 18:00	1.5	2.7	0.1	0.2	2.4	
01/30/2019 19:00	1.5	2.4	0.0	0.0	2.1	
01/30/2019 20:00	1.4	3.0	0.1	0.2	1.9	
01/30/2019 21:00	1.5	2.0	0.0	0.0	2.4	
01/30/2019 22:00	1.5	1.9	0.0	0.0	2.4	
01/31/2019 06:00	1.6	1.3	0.0	0.0	2.4	
01/31/2019 07:00	1.5	2.0	0.0	0.0	2.5	
01/31/2019 08:00	1.5	2.1	0.0	0.0	2.5	
01/31/2019 17:00	1.5	2.1	0.0	0.0	2.6	
01/31/2019 18:00	1.5	2.7	0.1	0.1	2.1	
01/31/2019 19:00	1.4	1.9	0.3	0.3	2.0	
01/31/2019 20:00	1.5	0.6	0.2	0.1	1.6	
02/01/2019 06:00	1.5	1.5	0.0	0.0	2.1	
02/01/2019 07:00	1.5	1.9	0.0	0.0	2.4	
02/01/2019 16:00	1.6	0.4	0.0	0.0	2.1	
02/01/2019 17:00	1.5	1.9	0.0	0.0	2.6	
02/01/2019 18:00	1.5	1.8	0.0	0.0	2.6	
02/02/2019 07:00	1.5	0.3	0.0	0.0	1.6	
02/02/2019 08:00	1.6	3.1	0.1	0.1	2.3	
02/02/2019 09:00	1.4	2.4	0.1	0.2	2.5	
02/02/2019 10:00	1.5	2.3	0.0	0.0	2.3	
02/02/2019 11:00	1.5	2.4	0.0	0.0	2.2	
02/02/2019 12:00	1.5	2.8	0.1	0.1	2.4	
02/02/2019 13:00	1.7	3.0	0.0	0.1	2.3	
02/02/2019 14:00	1.3	3.0	0.3	0.5	2.7	
02/02/2019 15:00	1.5	2.5	0.0	0.0	2.3	
02/02/2019 16:00	1.6	3.0	0.2	0.2	2.5	
02/02/2019 17:00	1.5	1.9	0.1	0.1	2.3	
02/02/2019 18:00	1.5	2.1	0.0	0.0	2.0	
02/02/2019 19:00	1.5	2.5	0.0	0.0	2.2	
02/02/2019 20:00	1.5	2.4	0.0	0.0	2.2	
02/02/2019 21:00	1.5	2.6	0.1	0.1	2.4	
02/03/2019 06:00	1.5	1.3	0.0	0.0	1.9	
02/03/2019 07:00	1.5	1.7	0.0	0.0	2.3	
02/04/2019 06:00	1.5	1.3	0.0	0.0	1.8	
02/04/2019 07:00	1.5	3.0	0.5	0.6	2.1	
02/04/2019 08:00	1.5	2.8	0.4	0.5	1.9	
02/04/2019 09:00	1.6	3.7	0.5	0.8	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm	
02/04/2019 10:00	1.4	2.8	0.5	0.6	2.2	
02/04/2019 18:00	1.5	1.5	0.0	0.0	2.5	
02/04/2019 19:00	1.5	1.9	0.0	0.0	2.4	
02/04/2019 20:00	1.5	1.9	0.0	0.0	2.5	
02/04/2019 21:00	1.5	1.3	0.1	0.0	2.4	
02/04/2019 22:00	1.5	3.0	0.3	0.4	2.7	
02/04/2019 23:00	1.5	2.0	0.0	0.0	2.4	
02/05/2019 06:00	1.5	2.2	0.7	0.7	2.0	
02/05/2019 07:00	1.5	0.7	0.5	0.2	2.0	
02/05/2019 16:00	2.0	0.5	0.0	0.0	2.1	
02/05/2019 17:00	1.5	1.9	0.0	0.0	2.6	
02/05/2019 18:00	1.6	2.6	0.3	0.3	2.3	
02/05/2019 19:00	1.6	2.8	0.2	0.2	2.6	
02/05/2019 20:00	1.5	2.6	0.3	0.4	2.4	
02/05/2019 21:00	1.4	2.0	0.1	0.1	2.5	
02/05/2019 22:00	1.6	0.7	0.3	0.1	3.1	
02/06/2019 06:00	1.2	1.8	1.0	0.9	2.4	
02/06/2019 07:00	1.4	2.6	0.3	0.6	2.3	
02/06/2019 17:00	1.6	0.4	0.0	0.0	2.1	
02/06/2019 18:00	1.5	3.2	0.4	0.8	2.2	
02/06/2019 19:00	1.6	5.3	1.0	2.0	2.0	
02/06/2019 20:00	1.4	1.9	0.2	0.2	2.5	
02/07/2019 06:00	1.9	1.9	1.2	0.7	2.4	
02/07/2019 07:00	1.3	2.3	0.8	1.0	2.5	
02/07/2019 18:00	1.3	1.3	0.5	0.4	2.4	
02/07/2019 19:00	1.5	1.6	0.1	0.0	2.4	
02/08/2019 06:00	1.4	3.3	1.2	1.7	2.2	
02/08/2019 07:00	1.4	1.9	0.8	0.7	2.5	
02/08/2019 18:00	1.5	1.5	0.0	0.0	2.5	
02/08/2019 19:00	1.5	1.8	0.0	0.0	2.7	
02/09/2019 06:00	1.5	0.9	0.1	0.0	2.5	
02/09/2019 07:00	1.5	0.4	0.1	0.0	2.7	
02/12/2019 06:00	1.5	1.4	0.0	0.0	2.6	
02/12/2019 07:00	1.5	2.0	0.0	0.0	2.6	
02/12/2019 16:00	1.5	1.5	0.0	0.0	2.3	
02/12/2019 17:00	1.5	2.6	0.5	0.5	2.3	
02/12/2019 18:00	1.5	2.5	1.0	1.0	2.4	
02/12/2019 19:00	1.5	2.9	0.6	0.8	2.3	
02/12/2019 20:00	1.5	2.0	0.0	0.0	2.6	
02/12/2019 21:00	1.6	2.1	0.0	0.0	2.6	
02/12/2019 22:00	1.5	1.9	0.0	0.0	2.5	
02/13/2019 06:00	1.6	1.8	0.1	0.1	2.2	
02/13/2019 07:00	1.5	2.5	0.2	0.2	2.3	
02/13/2019 08:00	1.6	2.2	0.0	0.0	2.3	
02/13/2019 09:00	1.4	2.1	0.1	0.2	2.4	
02/13/2019 15:00	1.5	1.5	0.0	0.0	2.2	
02/13/2019 16:00	1.6	2.1	0.0	0.0	2.3	
02/13/2019 17:00	1.6	3.4	0.3	0.6	2.2	
02/13/2019 18:00	1.4	3.6	0.7	1.3	2.3	
02/13/2019 19:00	1.5	2.6	0.3	0.3	2.4	
02/13/2019 20:00	1.5	2.1	0.1	0.1	2.5	
02/13/2019 21:00	1.5	2.1	0.0	0.0	2.5	
02/13/2019 22:00	1.5	2.0	0.0	0.0	2.5	
02/14/2019 06:00	1.6	1.3	0.1	0.1	2.2	
02/14/2019 07:00	1.5	2.4	0.1	0.1	2.6	
02/14/2019 08:00	1.5	2.1	0.0	0.0	2.4	
02/14/2019 09:00	1.5	2.0	0.0	0.0	2.4	
02/14/2019 10:00	1.5	2.0	0.0	0.0	2.4	
02/14/2019 11:00	1.5	2.1	0.0	0.0	2.5	
02/14/2019 12:00	1.5	2.1	0.1	0.1	2.6	
02/14/2019 13:00	1.5	2.2	0.1	0.1	2.5	
02/14/2019 14:00	1.5	2.0	0.0	0.0	2.4	
02/14/2019 15:00	1.6	2.7	0.2	0.4	2.6	
02/14/2019 16:00	1.5	2.3	0.2	0.3	2.5	
02/14/2019 17:00	1.4	2.2	0.2	0.2	2.1	
02/14/2019 18:00	1.6	2.3	0.1	0.1	2.1	
02/14/2019 19:00	1.4	2.8	0.6	0.8	1.7	
02/14/2019 20:00	1.5	2.2	0.1	0.1	1.9	
02/14/2019 21:00	1.5	2.1	0.0	0.0	2.2	
02/14/2019 22:00	1.5	2.1	0.0	0.0	2.2	
02/14/2019 23:00	1.5	2.1	0.0	0.0	2.2	
02/15/2019 06:00	1.4	0.6	0.1	0.0	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm	
02/15/2019 07:00	1.5	2.1	0.0	0.0	2.2	
02/15/2019 08:00	1.6	2.5	0.1	0.1	2.3	
02/15/2019 09:00	1.5	2.8	0.3	0.5	2.3	
02/15/2019 10:00	1.5	1.9	0.0	0.0	2.2	
02/15/2019 14:00	1.5	1.5	0.1	0.1	2.0	
02/15/2019 15:00	1.5	2.0	0.0	0.0	2.2	
02/15/2019 16:00	1.5	2.2	0.1	0.1	2.1	
02/15/2019 17:00	1.5	2.0	0.0	0.0	2.3	
02/15/2019 18:00	1.6	2.0	0.0	0.0	2.2	
02/15/2019 19:00	1.5	2.1	0.1	0.1	2.1	
02/15/2019 20:00	1.5	2.2	0.1	0.1	2.1	
02/15/2019 21:00	1.5	2.5	0.3	0.3	1.8	
02/15/2019 22:00	1.5	2.0	0.0	0.0	2.1	
02/17/2019 17:00	1.5	2.6	0.4	0.4	1.6	
02/17/2019 18:00	1.5	5.0	1.4	3.0	2.0	
02/17/2019 19:00	1.5	2.2	0.4	0.4	2.0	
02/17/2019 20:00	1.6	1.8	0.4	0.3	2.1	
02/17/2019 21:00	1.5	2.7	0.8	1.0	1.8	
02/17/2019 22:00	1.6	3.2	0.9	1.2	1.7	
02/17/2019 23:00	1.5	2.3	0.4	0.4	2.1	
02/18/2019 06:00	1.5	1.4	0.3	0.2	2.0	
02/18/2019 07:00	1.5	1.9	0.2	0.2	1.9	
02/18/2019 08:00	1.5	1.9	0.2	0.2	2.0	
02/18/2019 09:00	1.5	1.9	0.2	0.2	1.9	
02/18/2019 16:00	1.5	1.4	0.2	0.1	1.9	
02/18/2019 17:00	1.6	3.3	0.7	1.3	2.4	
02/18/2019 18:00	1.4	4.1	1.4	2.5	2.2	
02/18/2019 19:00	1.5	0.4	0.2	0.0	2.0	
02/18/2019 21:00	1.6	1.4	0.3	0.2	2.1	
02/18/2019 22:00	1.5	2.0	0.3	0.2	2.2	
02/18/2019 23:00	1.5	1.9	0.2	0.2	2.0	
02/19/2019 06:00	1.5	1.1	0.9	0.4	1.9	
02/19/2019 07:00	1.5	1.9	0.3	0.2	2.1	
02/19/2019 17:00	1.5	1.9	0.8	0.6	1.7	
02/19/2019 18:00	1.5	2.3	0.6	0.6	1.6	
02/19/2019 19:00	1.5	2.4	0.6	0.6	1.6	
02/19/2019 20:00	1.5	2.3	0.7	0.7	2.2	
02/19/2019 21:00	1.5	2.3	0.8	0.7	2.2	
02/19/2019 22:00	1.5	2.3	0.8	0.8	2.2	
02/19/2019 23:00	1.5	2.3	0.9	0.8	2.2	
02/20/2019 06:00	1.6	2.0	1.2	1.0	1.5	
02/20/2019 07:00	1.6	2.8	1.4	1.7	1.5	
02/20/2019 16:00	1.5	1.4	0.3	0.2	2.0	
02/20/2019 17:00	1.5	2.1	0.4	0.3	2.3	
02/20/2019 18:00	1.6	2.1	0.4	0.3	2.3	
02/20/2019 19:00	1.5	2.3	0.6	0.6	2.1	
02/20/2019 20:00	1.5	1.2	0.3	0.2	2.5	
02/20/2019 21:00	1.5	1.9	0.3	0.3	2.4	
02/21/2019 18:00	1.4	3.7	2.1	3.4	2.1	
02/21/2019 19:00	1.5	5.1	1.8	3.7	1.8	
02/21/2019 20:00	1.5	3.9	1.4	2.3	1.8	
02/21/2019 21:00	1.5	3.5	1.4	1.9	1.8	
02/21/2019 22:00	1.5	3.3	1.3	2.2	2.2	
02/22/2019 06:00	1.6	1.5	0.5	0.3	2.0	
02/22/2019 07:00	1.5	1.8	0.4	0.3	2.0	
02/22/2019 08:00	1.5	2.0	0.5	0.5	2.0	
02/22/2019 17:00	1.4	0.9	2.3	0.9	2.0	
02/22/2019 18:00	1.5	2.2	0.6	0.6	2.0	
02/22/2019 19:00	1.5	2.5	0.8	0.8	1.8	
02/22/2019 20:00	1.5	2.0	0.5	0.5	2.1	
02/22/2019 21:00	1.5	2.3	0.7	0.7	2.0	
02/22/2019 22:00	1.5	2.2	0.8	0.7	1.9	
02/22/2019 23:00	1.5	0.4	0.5	0.1	2.1	
02/23/2019 06:00	1.5	0.9	0.6	0.2	1.9	
02/23/2019 07:00	1.5	1.8	0.6	0.5	2.0	
02/23/2019 17:00	1.5	1.9	0.8	0.6	1.8	
02/23/2019 18:00	1.6	2.6	0.8	0.8	1.8	
02/23/2019 19:00	1.4	2.5	1.0	1.1	1.8	
02/23/2019 20:00	1.5	2.2	0.7	0.6	2.1	
02/23/2019 21:00	1.5	2.1	0.6	0.6	2.1	
02/23/2019 22:00	1.5	1.9	0.5	0.4	2.2	
02/24/2019 06:00	1.5	1.6	1.0	0.6	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm	
02/24/2019 07:00	1.5	2.3	1.0	0.9	1.8	
02/24/2019 16:00	1.6	0.4	0.6	0.1	1.7	
02/24/2019 17:00	1.6	2.1	0.6	0.5	2.1	
02/24/2019 18:00	1.5	2.0	0.5	0.4	2.2	
02/24/2019 19:00	1.5	2.1	0.4	0.4	2.1	
02/24/2019 20:00	1.5	2.2	0.6	0.5	2.0	
02/24/2019 21:00	1.5	1.3	0.6	0.3	2.1	
02/24/2019 22:00	1.5	2.0	0.5	0.5	2.2	
02/25/2019 06:00	1.6	1.4	0.4	0.2	2.2	
02/25/2019 07:00	1.5	1.8	0.4	0.3	2.3	
02/25/2019 17:00	1.6	2.2	0.8	0.8	1.6	
02/25/2019 18:00	1.5	3.4	1.2	1.9	1.9	
02/25/2019 19:00	1.5	2.4	0.8	0.8	1.8	
02/25/2019 20:00	1.5	2.9	0.8	0.9	1.9	
02/25/2019 21:00	1.5	2.3	0.7	0.6	2.0	
02/25/2019 22:00	1.5	2.0	0.5	0.4	2.3	
02/26/2019 06:00	1.5	1.4	0.5	0.3	2.1	
02/26/2019 07:00	1.6	2.5	0.7	0.7	2.2	
02/26/2019 08:00	1.4	3.2	1.1	1.5	2.3	
02/26/2019 09:00	1.5	4.0	1.0	1.7	1.8	
02/26/2019 10:00	1.5	2.8	1.6	1.9	1.8	
02/26/2019 11:00	1.5	2.4	1.2	1.2	1.9	
02/26/2019 14:00	1.4	4.0	2.1	3.5	2.0	
02/26/2019 15:00	1.5	5.8	1.9	4.2	2.0	
02/26/2019 16:00	1.6	3.1	1.2	1.7	2.3	
02/26/2019 17:00	1.4	3.6	1.4	2.6	2.3	
02/26/2019 18:00	1.4	5.3	2.1	4.5	2.0	
02/26/2019 19:00	1.5	5.1	1.8	3.7	2.0	
02/26/2019 20:00	1.5	3.9	2.1	3.3	2.1	
02/27/2019 06:00	1.4	1.5	0.7	0.5	2.2	
02/27/2019 07:00	1.5	1.9	0.5	0.4	2.4	
02/27/2019 08:00	1.5	2.4	0.7	0.8	2.4	
02/27/2019 12:00	1.5	4.6	0.9	1.6	1.6	
02/27/2019 16:00	1.6	0.7	0.2	0.1	2.3	
02/27/2019 17:00	1.6	3.0	0.4	0.7	2.0	
02/27/2019 18:00	1.5	3.3	0.5	0.7	1.9	
02/27/2019 19:00	1.5	5.1	1.1	2.4	1.9	
02/27/2019 20:00	1.4	4.7	1.0	2.0	1.9	
02/27/2019 21:00	1.5	2.2	0.0	0.0	2.2	
02/27/2019 22:00	1.5	0.4	0.0	0.0	2.4	
02/28/2019 06:00	1.6	1.4	0.0	0.0	2.0	
02/28/2019 07:00	1.5	1.9	0.0	0.0	2.5	
02/28/2019 08:00	1.5	2.6	0.1	0.1	2.2	
02/28/2019 17:00	1.6	0.6	0.0	0.0	1.6	
02/28/2019 18:00	1.6	4.8	0.9	2.0	2.2	
02/28/2019 19:00	1.5	5.1	0.9	2.0	1.9	
02/28/2019 20:00	1.4	3.4	0.7	1.1	1.9	
02/28/2019 21:00	1.5	2.0	0.0	0.0	2.2	
02/28/2019 22:00	1.5	1.4	0.4	0.3	2.2	
03/01/2019 06:00	1.4	2.3	0.4	0.4	1.7	
03/01/2019 07:00	1.5	2.0	0.5	0.4	2.2	
03/01/2019 08:00	1.5	2.1	0.1	0.1	2.4	
03/01/2019 09:00	1.6	2.5	0.0	0.0	2.4	
03/01/2019 10:00	1.4	2.2	0.1	0.2	2.5	
03/01/2019 11:00	1.5	2.0	0.0	0.0	2.5	
03/01/2019 12:00	1.5	2.0	0.0	0.0	2.4	
03/01/2019 13:00	1.5	2.0	0.0	0.0	2.5	
03/01/2019 14:00	1.5	1.9	0.0	0.0	2.6	
03/01/2019 15:00	1.5	2.3	0.0	0.0	2.3	
03/01/2019 16:00	1.5	2.0	0.0	0.0	N/A	
03/01/2019 17:00	1.6	2.6	0.2	0.3	N/A	
03/01/2019 18:00	1.6	2.3	0.9	0.8	N/A	
03/01/2019 21:00	1.6	3.4	0.9	1.1	2.0	
03/01/2019 22:00	1.3	2.0	1.1	1.0	2.1	
03/02/2019 07:00	1.3	2.0	0.4	0.4	2.1	
03/02/2019 08:00	1.1	0.1	0.3	0.0	1.5	
03/02/2019 17:00	1.6	3.0	0.2	0.4	2.0	
03/02/2019 18:00	1.3	2.8	1.1	1.5	2.2	
03/02/2019 19:00	1.5	2.1	0.2	0.2	2.1	
03/02/2019 20:00	1.5	4.1	0.8	1.4	2.1	
03/03/2019 19:00	1.5	0.9	0.1	0.0	1.6	
03/03/2019 20:00	1.5	2.2	0.1	0.1	1.8	

Period Start:	Average	Average	Average	Average	Average	Notes
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm	
03/03/2019 21:00	1.5	0.4	0.0	0.0	1.6	
03/04/2019 06:00	1.6	2.0	0.3	0.2	2.4	
03/04/2019 07:00	1.5	0.9	0.0	0.0	2.1	
03/04/2019 18:00	1.3	1.3	1.2	0.7	2.0	
03/05/2019 15:00	1.5	1.0	0.2	0.1	1.4	
03/05/2019 16:00	1.5	2.2	0.1	0.1	1.9	
03/05/2019 17:00	1.6	3.7	0.6	1.3	2.0	
03/05/2019 18:00	1.4	3.5	0.8	1.4	1.8	
03/05/2019 19:00	1.5	1.9	0.1	0.1	2.2	
03/05/2019 20:00	1.6	1.2	0.2	0.1	1.9	
03/06/2019 18:00	1.5	1.7	0.2	0.2	1.5	
03/06/2019 19:00	1.5	1.7	0.8	0.6	1.7	
03/07/2019 18:00	1.4	3.8	1.3	2.2	1.8	
03/07/2019 19:00	1.5	4.3	1.1	2.1	1.7	
03/07/2019 20:00	1.5	0.9	0.1	0.0	1.7	
03/08/2019 10:00	1.6	1.5	0.2	0.1	1.5	
03/08/2019 11:00	1.5	2.3	0.3	0.3	1.9	
03/08/2019 12:00	1.4	2.4	0.9	0.9	1.6	
03/10/2019 19:00	1.5	1.6	0.0	0.0	1.5	
03/10/2019 20:00	1.5	2.1	0.0	0.0	1.8	
03/10/2019 21:00	1.5	0.4	0.0	0.0	1.6	
03/11/2019 05:00	1.4	2.1	1.2	1.2	2.0	
03/11/2019 06:00	1.5	5.4	1.1	2.4	1.9	
03/11/2019 07:00	1.4	1.1	0.2	0.2	2.3	
03/11/2019 14:00	1.5	4.0	1.4	2.2	1.8	
03/11/2019 15:00	1.5	3.0	0.7	1.2	2.0	
03/11/2019 16:00	1.6	2.9	0.5	0.8	1.9	
03/11/2019 17:00	1.5	3.6	0.9	1.5	1.8	
03/11/2019 18:00	1.4	4.0	1.2	2.3	2.0	
03/11/2019 19:00	1.6	2.3	0.2	0.2	1.9	
03/11/2019 20:00	1.5	2.6	0.5	0.6	1.5	
03/11/2019 21:00	1.6	2.2	1.3	1.2	2.3	
03/12/2019 05:00	1.6	2.2	0.5	0.5	1.9	
03/12/2019 06:00	1.5	4.0	1.1	1.9	1.6	
03/12/2019 07:00	1.6	2.2	0.1	0.1	2.3	
03/12/2019 08:00	1.1	0.3	0.4	0.1	2.7	
03/13/2019 17:00	1.5	2.4	1.1	1.3	1.8	
03/13/2019 18:00	1.4	2.8	1.6	1.8	1.7	
03/13/2019 19:00	1.5	3.2	1.1	1.4	1.7	
03/13/2019 20:00	1.5	3.0	0.9	1.2	1.8	
03/13/2019 21:00	1.5	2.1	0.2	0.2	2.3	
03/13/2019 22:00	1.5	1.9	0.2	0.1	2.3	
03/14/2019 05:00	1.1	0.6	1.2	0.5	1.9	
03/14/2019 06:00	1.4	3.0	0.8	1.2	1.7	
03/14/2019 16:00	1.9	0.8	0.7	0.2	2.6	
03/14/2019 17:00	1.4	2.0	0.4	0.3	1.9	
03/14/2019 18:00	1.5	2.2	0.4	0.4	2.0	
03/14/2019 19:00	1.5	0.4	0.3	0.1	1.9	
03/14/2019 20:00	1.6	0.9	0.1	0.0	2.3	
03/14/2019 21:00	1.5	1.9	0.1	0.1	2.2	
03/15/2019 19:00	1.5	1.5	0.2	0.1	1.6	
03/15/2019 20:00	1.5	1.9	0.1	0.1	2.2	
03/15/2019 21:00	1.5	0.4	0.3	0.0	1.7	
03/19/2019 18:00	1.6	0.7	0.6	0.2	1.5	
03/19/2019 19:00	1.5	0.9	0.5	0.2	1.4	
03/20/2019 05:00	1.6	0.4	0.5	0.1	1.3	
03/20/2019 06:00	1.7	2.6	0.6	0.6	1.4	
03/20/2019 07:00	1.4	4.4	2.0	4.0	1.8	
03/20/2019 08:00	1.6	0.9	1.3	0.5	1.4	
03/20/2019 09:00	1.6	3.3	1.5	1.9	1.3	
03/20/2019 10:00	1.4	3.8	1.6	2.7	1.5	
03/20/2019 11:00	1.5	2.2	0.6	0.5	1.9	
03/20/2019 12:00	1.5	4.4	1.7	3.2	1.8	
03/20/2019 13:00	1.5	2.3	0.7	0.8	1.6	
03/20/2019 14:00	1.5	0.9	0.4	0.2	2.0	
03/20/2019 17:00	1.6	0.4	0.4	0.1	1.3	
03/20/2019 18:00	1.5	2.0	0.4	0.4	1.4	
03/20/2019 19:00	1.5	1.4	0.4	0.2	1.4	
03/21/2019 05:00	1.9	1.9	1.0	0.8	1.8	
03/21/2019 06:00	1.2	1.9	2.1	2.1	1.9	
03/22/2019 05:00	1.5	1.7	1.2	0.8	2.0	
03/22/2019 06:00	1.6	0.9	0.6	0.2	2.1	

Period Start:	Average 8NOxCorOP1 ppm	Average 8NOX#OP1HR LBS	Average 8COCorOP1 ppm	Average 8CO#OP1HR LBS	Average 8NH3CorOP1 ppm	Notes
03/22/2019 19:00	1.5	1.2	0.9	0.4	1.7	
03/22/2019 20:00	1.5	0.9	0.5	0.2	1.5	
03/23/2019 11:00	1.4	0.7	1.2	0.4	1.3	
03/23/2019 12:00	1.5	3.5	1.3	1.9	1.7	
03/23/2019 13:00	1.5	3.0	1.1	1.3	1.4	
03/23/2019 19:00	1.6	1.5	0.5	0.3	1.4	
03/23/2019 20:00	1.5	0.4	0.6	0.1	1.7	
03/24/2019 19:00	1.6	2.0	1.1	0.9	2.0	
03/24/2019 20:00	1.5	2.8	0.9	1.0	2.1	
03/24/2019 21:00	1.5	0.9	0.5	0.2	1.5	
03/25/2019 05:00	1.6	1.4	0.9	0.5	1.8	
03/25/2019 06:00	1.5	1.9	0.5	0.4	1.6	
03/25/2019 07:00	1.5	0.9	0.4	0.2	1.6	
03/25/2019 18:00	1.5	3.0	1.8	2.4	1.9	
03/25/2019 19:00	1.4	3.0	1.2	1.9	2.1	
03/25/2019 20:00	1.5	0.4	0.6	0.1	1.9	
03/26/2019 17:00	1.1	0.2	1.4	0.2	1.5	
03/26/2019 18:00	1.5	1.5	0.7	0.5	1.6	
03/26/2019 19:00	1.5	1.9	0.5	0.5	1.4	
03/26/2019 20:00	1.5	0.8	0.6	0.2	1.4	
03/26/2019 21:00	1.7	0.5	0.4	0.1	1.5	
03/26/2019 22:00	1.4	1.5	0.5	0.3	2.0	
03/27/2019 06:00	1.7	1.8	0.5	0.3	1.4	
03/27/2019 07:00	1.3	0.9	2.1	0.8	2.6	
03/27/2019 16:00	1.6	1.7	0.8	0.6	1.8	
03/28/2019 17:00	1.2	0.8	2.3	0.9	2.1	
03/28/2019 18:00	1.5	2.7	1.0	1.3	1.7	
03/28/2019 19:00	1.7	0.4	0.6	0.1	1.9	
03/29/2019 05:00	1.2	0.3	0.5	0.1	2.0	
03/29/2019 06:00	1.5	1.2	0.8	0.4	2.1	
03/30/2019 05:00	2.0	1.2	1.7	0.6	2.2	
03/30/2019 06:00	1.2	0.9	0.9	0.4	2.1	
03/30/2019 17:00	1.6	0.8	0.7	0.2	1.9	
03/30/2019 18:00	1.5	1.8	0.7	0.6	2.4	
03/30/2019 19:00	1.5	1.9	0.7	0.6	2.2	
03/30/2019 20:00	1.5	2.0	0.7	0.6	2.2	
03/30/2019 21:00	1.5	1.8	0.8	0.6	2.4	
03/31/2019 05:00	1.6	0.4	0.8	0.1	1.9	
03/31/2019 06:00	1.5	0.9	0.7	0.3	2.2	
03/31/2019 17:00	1.6	1.9	1.1	0.7	1.9	
03/31/2019 18:00	1.4	2.8	1.1	1.3	2.3	
03/31/2019 19:00	1.4	2.6	1.3	1.5	2.0	
03/31/2019 20:00	1.5	2.0	1.1	1.0	2.4	
03/31/2019 21:00	1.5	0.4	1.1	0.2	2.5	
Final Average*	1.5	2.2	0.4	0.5	2.1	
Maximum*	2.0	5.8	2.3	4.5	3.1	
	03/30/2019 5:00	02/26/2019 15:00	03/28/2019 17:00	02/26/2019 18:00	02/05/2019 22:00	
Minimum*	0.7	0.0	0.0	0.0	1.3	
	01/21/2019 17:00	01/21/2019 17:00	03/10/2019 21:00	03/15/2019 21:00	03/23/2019 11:00	

* Does not include Invalid Averaging Periods ("N/A")

Average Values Report
Generated: 4/23/2019 06:37Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 9Period Start: 1/1/2019 00:00
Period End: 3/31/2019 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 9NOxCorOP1 ppm	Average 9NOX#OP1HR LBS	Average 9COCorOP1 ppm	Average 9CO#OP1HR LBS	Average 9NH3CorOP1 ppm	Notes
01/01/2019 18:00	1.6	1.3	0.1	0.1	2.3	
01/01/2019 19:00	1.5	2.0	0.0	0.0	2.0	
01/01/2019 20:00	1.5	0.9	0.0	0.0	2.0	
01/02/2019 12:00	1.5	1.7	0.3	0.2	1.5	
01/02/2019 13:00	1.6	1.8	0.0	0.0	2.0	
01/02/2019 17:00	1.7	0.7	0.0	0.0	2.2	
01/02/2019 19:00	1.5	1.9	0.0	0.0	2.3	
01/03/2019 17:00	1.4	0.3	0.0	0.0	2.0	
01/03/2019 18:00	1.5	0.4	0.0	0.0	2.0	
01/04/2019 22:00	1.6	0.9	0.3	0.1	1.8	
01/07/2019 16:00	1.5	1.1	0.0	0.0	2.1	
01/07/2019 17:00	1.5	1.7	0.0	0.0	2.1	
01/07/2019 18:00	1.4	1.9	0.0	0.0	2.2	
01/08/2019 06:00	1.4	0.7	0.0	0.0	1.8	
01/08/2019 07:00	1.5	2.2	0.0	0.0	1.8	
01/08/2019 18:00	1.5	2.0	0.0	0.0	2.0	
01/08/2019 19:00	1.5	0.4	0.0	0.0	2.0	
01/08/2019 21:00	1.5	4.7	0.0	0.0	1.4	
01/08/2019 22:00	1.5	5.0	0.0	0.0	1.5	
01/08/2019 23:00	1.5	5.3	0.0	0.0	1.7	
01/09/2019 06:00	1.4	0.7	0.0	0.0	2.0	
01/09/2019 07:00	1.5	2.1	0.0	0.0	1.8	
01/09/2019 16:00	1.6	1.6	0.0	0.0	1.7	
01/09/2019 20:00	1.5	1.4	0.0	0.0	2.0	
01/09/2019 21:00	1.5	2.2	0.0	0.0	2.0	
01/09/2019 22:00	1.5	0.5	0.0	0.0	2.1	
01/10/2019 06:00	1.7	0.8	0.0	0.0	1.8	
01/10/2019 07:00	1.5	2.5	0.0	0.0	1.8	
01/10/2019 08:00	1.5	1.0	0.0	0.0	1.9	
01/10/2019 16:00	1.5	1.3	0.0	0.0	2.1	
01/10/2019 20:00	1.5	1.5	0.0	0.0	2.1	
01/10/2019 21:00	1.5	2.3	0.0	0.0	2.0	
01/10/2019 22:00	1.5	1.1	0.0	0.0	2.0	
01/11/2019 06:00	1.5	0.7	0.0	0.0	2.0	
01/11/2019 07:00	1.5	2.0	0.0	0.0	2.0	
01/11/2019 08:00	1.5	1.0	0.0	0.0	2.1	
01/11/2019 16:00	1.6	0.4	0.0	0.0	1.9	
01/11/2019 17:00	1.5	2.2	0.0	0.0	1.9	
01/11/2019 18:00	1.5	2.0	0.0	0.0	2.1	
01/11/2019 19:00	1.5	2.1	0.0	0.0	2.1	
01/11/2019 20:00	1.5	2.1	0.0	0.0	2.0	
01/11/2019 21:00	1.5	1.0	0.0	0.0	2.0	
01/12/2019 17:00	1.5	0.6	0.1	0.0	2.1	
01/12/2019 18:00	1.5	2.2	0.0	0.0	1.9	
01/12/2019 19:00	1.5	2.4	0.0	0.0	1.9	
01/12/2019 20:00	1.5	2.2	0.0	0.0	1.9	
01/12/2019 21:00	1.4	1.5	0.0	0.0	1.8	
01/13/2019 07:00	1.6	0.6	0.1	0.0	1.9	
01/13/2019 16:00	1.5	1.4	0.0	0.0	2.1	
01/13/2019 17:00	1.5	2.0	0.0	0.0	2.1	
01/13/2019 18:00	1.5	2.0	0.0	0.0	2.0	
01/13/2019 19:00	1.5	2.2	0.0	0.0	1.9	
01/13/2019 20:00	1.5	2.0	0.0	0.0	1.9	
01/13/2019 21:00	1.5	2.0	0.0	0.0	1.8	
01/14/2019 07:00	1.6	0.6	0.1	0.0	1.8	
01/14/2019 08:00	1.5	4.7	0.1	0.2	1.8	
01/14/2019 09:00	1.5	4.5	0.0	0.0	1.6	
01/14/2019 10:00	1.5	4.7	0.1	0.1	1.6	
01/14/2019 11:00	1.5	5.5	0.1	0.1	1.6	
01/14/2019 12:00	1.5	5.3	0.0	0.0	1.7	
01/14/2019 13:00	1.5	5.1	0.0	0.0	1.7	
01/14/2019 14:00	1.5	3.8	0.0	0.0	1.8	
01/14/2019 15:00	1.5	2.1	0.0	0.0	2.1	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
01/14/2019 16:00	1.5	2.1	0.0	0.0	2.0	
01/14/2019 17:00	1.5	3.1	0.0	0.0	1.7	
01/14/2019 18:00	1.5	3.0	0.0	0.0	1.7	
01/14/2019 19:00	1.5	2.2	0.0	0.0	2.0	
01/14/2019 20:00	1.5	2.2	0.0	0.0	1.9	
01/14/2019 21:00	1.5	2.1	0.0	0.0	1.9	
01/14/2019 22:00	1.5	1.1	0.0	0.0	1.9	
01/15/2019 16:00	1.6	1.3	0.1	0.0	2.2	
01/15/2019 17:00	1.5	2.1	0.0	0.0	2.1	
01/15/2019 18:00	1.4	3.1	0.0	0.0	1.5	
01/15/2019 19:00	1.5	3.1	0.0	0.0	1.7	
01/15/2019 20:00	1.5	2.8	0.0	0.0	1.7	
01/15/2019 21:00	1.5	2.1	0.0	0.0	2.0	
01/15/2019 22:00	1.5	0.4	0.0	0.0	2.0	
01/16/2019 15:00	1.5	2.4	0.0	0.0	2.1	
01/16/2019 16:00	1.5	3.7	0.1	0.1	1.6	
01/16/2019 17:00	1.5	4.4	0.1	0.2	1.6	
01/16/2019 18:00	1.5	4.8	0.1	0.2	1.5	
01/16/2019 19:00	1.5	4.3	0.1	0.1	1.4	
01/16/2019 20:00	1.5	4.6	0.1	0.2	1.5	
01/16/2019 21:00	1.5	3.8	0.1	0.1	1.5	
01/16/2019 22:00	1.5	1.7	0.0	0.0	1.9	
01/17/2019 06:00	1.5	1.5	0.0	0.0	2.1	
01/17/2019 07:00	1.5	2.3	0.0	0.0	2.0	
01/17/2019 08:00	1.5	2.0	0.0	0.0	2.0	
01/17/2019 16:00	1.5	0.9	0.0	0.0	1.9	
01/17/2019 17:00	1.5	2.7	0.0	0.0	1.9	
01/17/2019 18:00	1.5	3.0	0.0	0.0	1.6	
01/17/2019 19:00	1.5	2.9	0.0	0.0	1.5	
01/17/2019 22:00	1.6	1.3	0.0	0.0	2.0	
01/18/2019 06:00	1.7	0.5	0.2	0.0	1.6	
01/18/2019 07:00	1.5	2.0	0.0	0.0	2.1	
01/18/2019 22:00	1.5	1.4	0.0	0.0	2.0	
01/18/2019 23:00	1.5	1.4	0.0	0.0	2.2	
01/19/2019 06:00	1.6	1.1	0.0	0.0	2.1	
01/19/2019 07:00	1.5	2.0	0.0	0.0	2.0	
01/19/2019 16:00	1.7	0.2	0.0	0.0	1.5	
01/19/2019 17:00	1.5	3.6	0.1	0.1	1.6	
01/19/2019 18:00	1.5	3.3	0.0	0.0	1.6	
01/19/2019 19:00	1.5	3.1	0.0	0.0	1.6	
01/19/2019 20:00	1.5	3.0	0.0	0.0	1.6	
01/19/2019 21:00	1.5	1.8	0.0	0.0	1.8	
01/20/2019 17:00	1.5	1.6	0.0	0.0	1.6	
01/20/2019 18:00	1.5	3.1	0.0	0.0	1.6	
01/21/2019 06:00	1.7	1.0	0.3	0.1	1.9	
01/21/2019 07:00	1.5	2.3	0.0	0.0	1.9	
01/21/2019 08:00	1.4	1.7	0.1	0.1	1.9	
01/21/2019 16:00	0.9	0.5	0.2	0.1	2.0	
01/21/2019 17:00	1.3	4.2	0.2	0.4	1.9	
01/21/2019 18:00	1.5	3.3	0.2	0.2	1.4	
01/21/2019 19:00	1.5	3.5	0.2	0.2	1.5	
01/21/2019 20:00	1.5	3.8	0.2	0.3	1.5	
01/21/2019 21:00	1.5	3.8	0.3	0.5	1.4	
01/21/2019 22:00	1.5	1.2	0.0	0.0	1.9	
01/22/2019 06:00	1.6	1.8	0.0	0.0	1.8	
01/22/2019 07:00	1.4	2.7	0.2	0.2	1.8	
01/22/2019 17:00	1.4	3.8	0.0	0.1	1.5	
01/22/2019 18:00	1.6	3.1	0.0	0.0	1.5	
01/22/2019 19:00	1.5	5.0	0.0	0.0	1.6	
01/22/2019 20:00	1.6	3.5	0.0	0.0	1.6	
01/22/2019 21:00	1.5	0.5	0.0	0.0	1.8	
01/23/2019 06:00	1.5	1.3	0.2	0.1	1.5	
01/23/2019 07:00	1.6	3.3	0.0	0.1	1.8	
01/23/2019 08:00	1.5	3.6	0.0	0.0	1.8	
01/23/2019 09:00	1.4	1.1	0.0	0.0	1.9	
01/23/2019 18:00	1.6	2.3	0.0	0.0	1.5	
01/23/2019 19:00	1.5	2.3	0.0	0.0	1.6	
01/24/2019 06:00	1.6	1.7	0.0	0.0	2.0	
01/24/2019 07:00	1.5	2.1	0.0	0.0	2.2	
01/24/2019 18:00	1.5	1.4	0.0	0.0	2.0	
01/24/2019 19:00	1.5	0.5	0.0	0.0	2.0	
01/25/2019 06:00	1.5	2.8	0.0	0.0	1.8	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
01/25/2019 07:00	1.6	3.6	0.0	0.0	1.9	
01/25/2019 08:00	1.4	3.9	0.1	0.1	1.7	
01/25/2019 09:00	1.5	4.4	0.1	0.2	1.4	
01/25/2019 10:00	1.4	4.3	0.0	0.0	1.4	
01/25/2019 11:00	1.5	2.9	0.0	0.0	1.5	
01/25/2019 12:00	1.5	1.3	0.0	0.0	2.0	
01/25/2019 13:00	1.5	3.8	0.1	0.2	1.7	
01/25/2019 14:00	1.4	5.0	0.0	0.0	1.7	
01/25/2019 15:00	1.5	2.1	0.0	0.0	2.0	
01/25/2019 16:00	1.4	3.5	0.0	0.0	1.7	
01/25/2019 17:00	1.5	5.1	0.0	0.0	1.6	
01/25/2019 18:00	1.5	5.1	0.0	0.0	1.7	
01/25/2019 19:00	1.5	3.1	0.0	0.0	1.5	
01/26/2019 06:00	1.5	1.4	0.0	0.0	1.7	
01/27/2019 08:00	1.5	0.4	0.0	0.0	1.8	
01/27/2019 09:00	1.5	0.9	0.0	0.0	2.0	
01/27/2019 16:00	1.5	0.6	0.0	0.0	2.2	
01/27/2019 17:00	1.5	2.9	0.0	0.0	1.6	
01/27/2019 18:00	1.5	3.2	0.0	0.0	1.5	
01/27/2019 19:00	1.5	2.7	0.0	0.0	1.6	
01/27/2019 20:00	1.5	0.5	0.0	0.0	2.0	
01/28/2019 06:00	0.8	0.6	0.0	0.0	2.3	
01/28/2019 07:00	1.5	2.7	0.1	0.2	1.7	
01/28/2019 18:00	1.4	2.8	0.1	0.1	1.5	
01/28/2019 19:00	1.6	1.6	0.0	0.0	1.5	
01/29/2019 06:00	1.6	0.4	0.0	0.0	2.2	
01/29/2019 07:00	1.5	0.9	0.0	0.0	2.1	
01/29/2019 17:00	1.3	1.8	0.0	0.0	1.8	
01/29/2019 18:00	1.5	4.7	0.0	0.0	1.6	
01/29/2019 19:00	1.5	3.2	0.0	0.0	1.6	
01/29/2019 20:00	1.5	2.3	0.0	0.0	1.8	
01/29/2019 21:00	1.5	2.0	0.0	0.0	2.1	
01/29/2019 22:00	1.4	1.9	0.0	0.0	2.1	
01/30/2019 06:00	1.5	1.9	0.0	0.0	1.6	
01/30/2019 07:00	1.5	2.8	0.0	0.0	1.6	
01/30/2019 08:00	1.5	2.0	0.0	0.0	2.0	
01/30/2019 16:00	1.5	1.3	0.2	0.1	1.6	
01/30/2019 17:00	1.5	2.4	0.0	0.0	1.6	
01/30/2019 18:00	1.5	2.5	0.0	0.0	1.9	
01/30/2019 19:00	1.6	2.4	0.0	0.0	1.8	
01/30/2019 20:00	1.4	3.0	0.0	0.0	1.6	
01/30/2019 21:00	1.5	2.1	0.0	0.0	2.0	
01/30/2019 22:00	1.5	1.9	0.0	0.0	2.1	
01/31/2019 06:00	1.6	1.3	0.0	0.0	1.8	
01/31/2019 07:00	1.5	2.0	0.0	0.0	2.0	
01/31/2019 08:00	1.5	2.1	0.0	0.0	1.8	
01/31/2019 17:00	1.5	2.1	0.0	0.0	2.1	
01/31/2019 18:00	1.5	2.6	0.0	0.0	1.8	
01/31/2019 19:00	1.4	3.0	0.0	0.0	1.6	
01/31/2019 20:00	1.6	0.6	0.0	0.0	1.5	
02/01/2019 06:00	1.5	1.5	0.0	0.0	1.7	
02/01/2019 07:00	1.5	1.2	0.0	0.0	2.0	
02/01/2019 16:00	1.6	0.4	0.0	0.0	1.6	
02/01/2019 17:00	1.5	2.0	0.0	0.0	1.9	
02/01/2019 18:00	1.5	1.9	0.0	0.0	2.1	
02/02/2019 07:00	1.5	2.4	0.0	0.0	1.6	
02/02/2019 08:00	1.6	2.8	0.0	0.0	1.7	
02/02/2019 09:00	1.4	2.5	0.0	0.0	1.8	
02/02/2019 10:00	1.5	2.2	0.0	0.0	1.7	
02/02/2019 11:00	1.5	2.4	0.0	0.0	1.8	
02/02/2019 12:00	1.5	2.5	0.0	0.0	1.9	
02/02/2019 13:00	1.6	2.8	0.0	0.0	1.8	
02/02/2019 14:00	1.4	3.0	0.0	0.0	1.9	
02/02/2019 15:00	1.5	2.5	0.0	0.0	1.8	
02/02/2019 16:00	1.5	2.7	0.0	0.0	2.0	
02/02/2019 17:00	1.5	2.5	0.0	0.0	1.7	
02/02/2019 18:00	1.5	2.2	0.0	0.0	1.7	
02/02/2019 19:00	1.5	1.8	0.0	0.0	1.8	
02/02/2019 20:00	1.5	1.9	0.0	0.0	1.9	
02/02/2019 21:00	1.5	2.4	0.0	0.0	1.8	
02/03/2019 06:00	1.6	1.3	0.0	0.0	2.3	
02/03/2019 07:00	1.5	1.7	0.0	0.0	2.3	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
02/03/2019 17:00	1.5	2.0	0.0	0.0	1.6	
02/03/2019 18:00	1.5	2.8	0.0	0.0	1.5	
02/03/2019 19:00	1.5	3.1	0.0	0.0	1.6	
02/03/2019 20:00	1.5	2.9	0.0	0.0	1.5	
02/03/2019 21:00	1.5	2.8	0.0	0.0	1.6	
02/04/2019 16:00	1.1	0.0	0.0	0.0	1.3	
02/04/2019 17:00	1.6	2.6	0.0	0.0	2.0	
02/04/2019 18:00	1.4	1.9	0.0	0.0	2.1	
02/04/2019 19:00	1.5	2.0	0.0	0.0	2.0	
02/04/2019 20:00	1.5	2.0	0.0	0.0	2.0	
02/04/2019 21:00	1.5	1.4	0.0	0.0	1.9	
02/04/2019 22:00	1.5	2.6	0.0	0.0	1.9	
02/04/2019 23:00	1.5	2.0	0.0	0.0	1.9	
02/05/2019 06:00	1.5	2.2	0.0	0.0	1.6	
02/05/2019 07:00	1.5	2.6	0.0	0.0	1.8	
02/05/2019 08:00	1.6	0.4	0.0	0.0	2.0	
02/05/2019 16:00	2.0	0.5	0.0	0.0	1.8	
02/05/2019 17:00	1.5	1.9	0.0	0.0	1.8	
02/05/2019 18:00	1.5	2.5	0.0	0.0	2.0	
02/05/2019 19:00	1.5	2.5	0.0	0.0	2.0	
02/05/2019 20:00	1.5	2.7	0.0	0.0	2.0	
02/05/2019 21:00	1.5	2.1	0.0	0.0	2.1	
02/05/2019 22:00	1.3	0.5	0.0	0.0	2.2	
02/06/2019 06:00	1.0	1.6	0.0	0.0	2.1	
02/06/2019 07:00	1.6	2.8	0.0	0.0	1.9	
02/06/2019 17:00	1.5	0.4	0.0	0.0	1.7	
02/06/2019 18:00	1.5	3.0	0.0	0.0	1.7	
02/06/2019 19:00	1.5	5.0	0.0	0.0	1.5	
02/06/2019 20:00	1.6	2.1	0.0	0.0	1.6	
02/07/2019 06:00	1.4	1.8	0.1	0.1	1.8	
02/07/2019 07:00	1.6	2.5	0.0	0.0	1.7	
02/07/2019 18:00	1.4	1.3	0.0	0.0	1.8	
02/07/2019 19:00	1.5	1.6	0.0	0.0	2.1	
02/08/2019 06:00	1.3	3.2	0.0	0.0	1.7	
02/08/2019 07:00	1.7	2.0	0.0	0.0	1.5	
02/08/2019 18:00	1.5	1.5	0.0	0.0	2.0	
02/08/2019 19:00	1.5	1.9	0.0	0.0	2.0	
02/09/2019 06:00	1.6	0.9	0.0	0.0	1.9	
02/09/2019 07:00	1.6	0.4	0.0	0.0	1.9	
02/10/2019 12:00	1.5	3.3	0.3	0.4	1.5	
02/10/2019 13:00	1.7	0.6	0.0	0.0	1.6	
02/12/2019 06:00	1.7	0.9	0.0	0.0	2.0	
02/12/2019 07:00	1.6	2.1	0.0	0.0	2.1	
02/12/2019 15:00	1.5	2.4	0.0	0.0	1.7	
02/12/2019 16:00	1.5	2.0	0.0	0.0	2.0	
02/12/2019 17:00	1.5	2.5	0.0	0.0	1.8	
02/12/2019 18:00	1.5	3.4	0.0	0.0	1.5	
02/12/2019 19:00	1.5	2.9	0.0	0.0	1.7	
02/12/2019 20:00	1.5	2.1	0.0	0.0	2.0	
02/12/2019 21:00	1.5	2.0	0.0	0.0	2.0	
02/12/2019 22:00	1.5	1.9	0.0	0.0	1.9	
02/13/2019 06:00	1.6	1.7	0.0	0.0	1.7	
02/13/2019 07:00	1.5	2.4	0.0	0.0	1.8	
02/13/2019 08:00	1.5	2.1	0.0	0.0	1.8	
02/13/2019 09:00	1.4	2.1	0.0	0.0	1.7	
02/13/2019 15:00	1.5	1.2	0.0	0.0	1.8	
02/13/2019 16:00	1.5	2.0	0.0	0.0	1.8	
02/13/2019 17:00	1.5	3.2	0.0	0.0	1.7	
02/13/2019 18:00	1.5	3.7	0.1	0.2	1.6	
02/13/2019 19:00	1.5	2.5	0.0	0.0	1.9	
02/13/2019 20:00	1.5	2.2	0.0	0.0	1.8	
02/13/2019 21:00	1.5	2.0	0.0	0.0	1.7	
02/13/2019 22:00	1.4	2.0	0.0	0.0	1.8	
02/14/2019 06:00	1.5	1.5	0.0	0.0	1.6	
02/14/2019 07:00	1.5	2.3	0.0	0.0	1.9	
02/14/2019 08:00	1.4	2.1	0.0	0.0	1.9	
02/14/2019 09:00	1.5	2.0	0.0	0.0	2.0	
02/14/2019 10:00	1.4	2.0	0.0	0.0	2.0	
02/14/2019 11:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 12:00	1.4	2.1	0.0	0.0	2.0	
02/14/2019 13:00	1.5	2.1	0.0	0.0	2.1	
02/14/2019 14:00	1.5	2.0	0.0	0.0	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
02/14/2019 15:00	1.5	2.5	0.0	0.0	2.0	
02/14/2019 16:00	1.5	1.3	0.0	0.0	2.0	
02/14/2019 17:00	1.5	2.2	0.0	0.0	1.9	
02/14/2019 18:00	1.5	2.2	0.0	0.0	1.9	
02/14/2019 19:00	1.5	2.8	0.0	0.0	1.7	
02/14/2019 20:00	1.5	2.2	0.0	0.0	1.9	
02/14/2019 21:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 22:00	1.5	2.1	0.0	0.0	2.0	
02/14/2019 23:00	1.5	2.0	0.0	0.0	2.0	
02/15/2019 06:00	1.5	1.4	0.0	0.0	1.9	
02/15/2019 07:00	1.5	2.1	0.0	0.0	2.0	
02/15/2019 08:00	1.5	2.3	0.0	0.0	2.0	
02/15/2019 09:00	1.4	2.5	0.0	0.0	2.0	
02/15/2019 10:00	1.5	1.9	0.0	0.0	1.9	
02/15/2019 14:00	1.5	1.5	0.0	0.0	1.8	
02/15/2019 15:00	1.5	2.0	0.0	0.0	2.0	
02/15/2019 16:00	1.5	2.1	0.0	0.0	1.9	
02/15/2019 17:00	1.5	1.3	0.0	0.0	2.0	
02/15/2019 18:00	1.5	2.0	0.0	0.0	2.0	
02/15/2019 19:00	1.5	2.1	0.0	0.0	1.8	
02/15/2019 20:00	1.5	2.2	0.0	0.0	1.9	
02/15/2019 21:00	1.5	2.5	0.0	0.0	1.8	
02/15/2019 22:00	1.5	1.9	0.0	0.0	1.9	
02/17/2019 17:00	1.5	2.5	0.0	0.0	1.8	
02/17/2019 18:00	1.4	5.0	0.0	0.0	1.8	
02/17/2019 19:00	1.5	2.3	0.0	0.0	1.9	
02/17/2019 20:00	1.5	2.5	0.0	0.0	2.1	
02/17/2019 21:00	1.5	2.7	0.0	0.0	1.8	
02/17/2019 22:00	1.5	3.0	0.0	0.0	1.8	
02/17/2019 23:00	1.5	2.3	0.0	0.0	2.1	
02/18/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/18/2019 07:00	1.5	1.9	0.0	0.0	2.3	
02/18/2019 08:00	1.5	2.0	0.0	0.0	2.2	
02/18/2019 09:00	1.5	2.0	0.0	0.0	2.1	
02/18/2019 16:00	1.5	1.0	0.0	0.0	2.1	
02/18/2019 17:00	1.5	3.0	0.0	0.0	2.2	
02/18/2019 18:00	1.4	4.1	0.0	0.0	1.8	
02/18/2019 19:00	1.7	0.5	0.0	0.0	2.2	
02/18/2019 21:00	1.6	1.5	0.0	0.0	2.3	
02/18/2019 22:00	1.5	2.0	0.0	0.0	2.3	
02/18/2019 23:00	1.5	1.9	0.0	0.0	2.3	
02/19/2019 06:00	1.5	1.8	0.0	0.0	1.8	
02/19/2019 07:00	1.5	1.9	0.0	0.0	2.1	
02/19/2019 17:00	1.6	1.9	0.0	0.0	1.7	
02/19/2019 18:00	1.5	2.4	0.0	0.0	1.8	
02/19/2019 19:00	1.5	2.3	0.0	0.0	2.0	
02/19/2019 20:00	1.5	2.3	0.0	0.0	1.9	
02/19/2019 21:00	1.5	2.3	0.0	0.0	1.9	
02/19/2019 22:00	1.5	2.3	0.0	0.0	1.8	
02/19/2019 23:00	1.5	2.3	0.0	0.0	1.9	
02/20/2019 06:00	1.4	1.2	0.0	0.0	1.6	
02/20/2019 07:00	1.6	3.0	0.0	0.0	1.5	
02/20/2019 16:00	1.5	1.4	0.0	0.0	1.8	
02/20/2019 17:00	1.5	2.1	0.0	0.0	1.9	
02/20/2019 18:00	1.5	2.1	0.0	0.0	1.9	
02/20/2019 19:00	1.5	2.4	0.0	0.0	1.9	
02/20/2019 20:00	1.5	1.9	0.0	0.0	2.0	
02/20/2019 21:00	1.5	1.9	0.0	0.0	1.8	
02/21/2019 18:00	1.4	3.8	0.0	0.0	1.7	
02/21/2019 19:00	1.5	4.8	0.0	0.0	1.6	
02/21/2019 20:00	1.5	4.0	0.0	0.0	1.6	
02/21/2019 21:00	1.5	3.4	0.0	0.0	1.6	
02/21/2019 22:00	1.5	3.3	0.0	0.0	1.9	
02/22/2019 06:00	1.5	1.4	0.0	0.0	2.1	
02/22/2019 07:00	1.5	1.9	0.0	0.0	2.2	
02/22/2019 08:00	1.5	1.3	0.0	0.0	1.9	
02/22/2019 17:00	1.5	0.9	0.2	0.1	1.6	
02/22/2019 18:00	1.6	2.3	0.0	0.0	1.8	
02/22/2019 19:00	1.5	2.5	0.0	0.0	1.7	
02/22/2019 20:00	1.5	2.1	0.0	0.0	1.9	
02/22/2019 21:00	1.5	2.2	0.0	0.0	2.1	
02/22/2019 22:00	1.5	2.2	0.0	0.0	1.9	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
02/22/2019 23:00	1.6	0.4	0.0	0.0	2.3	
02/23/2019 06:00	1.6	1.4	0.0	0.0	2.1	
02/23/2019 07:00	1.5	1.9	0.0	0.0	2.1	
02/23/2019 15:00	1.6	2.4	0.0	0.0	1.4	
02/23/2019 16:00	1.4	3.6	0.0	0.1	1.6	
02/23/2019 17:00	1.5	2.3	0.0	0.0	1.6	
02/23/2019 18:00	1.6	2.6	0.0	0.0	1.6	
02/23/2019 19:00	1.4	2.6	0.0	0.0	1.6	
02/23/2019 20:00	1.5	2.2	0.0	0.0	1.6	
02/23/2019 21:00	1.5	1.3	0.0	0.0	1.9	
02/23/2019 22:00	1.5	1.9	0.0	0.0	2.3	
02/24/2019 06:00	1.6	1.7	0.0	0.0	1.9	
02/24/2019 07:00	1.5	2.2	0.0	0.0	2.1	
02/24/2019 16:00	1.5	0.4	0.0	0.0	1.6	
02/24/2019 17:00	1.5	2.1	0.0	0.0	1.7	
02/24/2019 18:00	1.4	2.0	0.0	0.0	1.8	
02/24/2019 19:00	1.5	2.1	0.0	0.0	1.8	
02/24/2019 20:00	1.5	2.2	0.0	0.0	1.7	
02/24/2019 21:00	1.5	2.1	0.0	0.0	1.7	
02/24/2019 22:00	1.5	2.0	0.0	0.0	1.7	
02/25/2019 06:00	1.6	1.4	0.0	0.0	1.5	
02/25/2019 07:00	1.5	1.8	0.0	0.0	1.6	
02/25/2019 17:00	1.5	1.5	0.3	0.2	1.6	
02/25/2019 18:00	1.5	3.4	0.1	0.2	1.5	
02/25/2019 19:00	1.5	2.4	0.0	0.0	1.6	
02/25/2019 20:00	1.5	2.9	0.0	0.0	1.6	
02/25/2019 21:00	1.5	2.3	0.0	0.0	1.8	
02/25/2019 22:00	1.5	2.0	0.0	0.0	1.8	
02/26/2019 06:00	1.5	1.4	0.0	0.0	1.9	
02/26/2019 07:00	1.5	2.4	0.0	0.0	2.1	
02/26/2019 08:00	1.5	3.1	0.0	0.0	1.8	
02/26/2019 09:00	1.5	3.8	0.0	0.0	1.5	
02/26/2019 10:00	1.4	4.4	0.1	0.1	1.4	
02/26/2019 11:00	1.5	2.5	0.0	0.0	1.4	
02/26/2019 14:00	1.5	4.0	0.1	0.1	1.6	
02/26/2019 15:00	1.5	5.4	0.0	0.0	1.6	
02/26/2019 16:00	1.5	3.0	0.0	0.0	1.8	
02/26/2019 17:00	1.4	3.4	0.0	0.0	1.8	
02/26/2019 18:00	1.4	5.1	0.1	0.2	1.6	
02/26/2019 19:00	1.5	4.9	0.1	0.1	1.5	
02/26/2019 20:00	1.5	2.9	0.2	0.2	1.5	
02/26/2019 21:00	1.5	2.6	0.0	0.0	1.5	
02/26/2019 22:00	1.6	0.5	0.0	0.0	1.6	
02/27/2019 06:00	1.5	1.5	0.0	0.0	1.7	
02/27/2019 07:00	1.5	2.0	0.0	0.0	1.9	
02/27/2019 08:00	1.5	2.4	0.0	0.0	1.9	
02/27/2019 16:00	1.6	1.4	0.0	0.0	2.0	
02/27/2019 17:00	1.5	2.9	0.0	0.0	2.0	
02/27/2019 18:00	1.5	3.3	0.0	0.0	1.5	
02/27/2019 19:00	1.4	4.9	0.1	0.1	1.6	
02/27/2019 20:00	1.4	4.5	0.1	0.1	1.5	
02/27/2019 21:00	1.5	2.2	0.0	0.0	1.8	
02/27/2019 22:00	1.4	0.4	0.0	0.0	1.9	
02/28/2019 06:00	1.5	1.4	0.0	0.0	1.9	
02/28/2019 07:00	1.5	1.9	0.0	0.0	2.0	
02/28/2019 08:00	1.5	1.6	0.0	0.0	1.9	
02/28/2019 17:00	1.6	0.6	0.0	0.0	1.8	
02/28/2019 18:00	1.5	4.8	0.0	0.0	1.9	
02/28/2019 19:00	1.5	5.6	0.0	0.0	1.6	
02/28/2019 20:00	1.5	3.5	0.0	0.0	1.5	
02/28/2019 21:00	1.5	2.0	0.0	0.0	1.8	
02/28/2019 22:00	1.4	1.3	0.0	0.0	1.8	
03/01/2019 06:00	1.4	2.2	0.0	0.0	1.5	
03/01/2019 07:00	1.5	3.1	0.0	0.0	1.7	
03/01/2019 08:00	1.5	2.1	0.0	0.0	2.1	
03/01/2019 09:00	1.6	2.4	0.0	0.0	2.1	
03/01/2019 10:00	1.4	2.2	0.0	0.0	2.0	
03/01/2019 11:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 12:00	1.5	2.1	0.0	0.0	2.1	
03/01/2019 13:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 14:00	1.5	2.0	0.0	0.0	2.2	
03/01/2019 15:00	1.5	2.2	0.0	0.0	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
03/01/2019 16:00	1.5	2.0	0.0	0.0	2.0	
03/01/2019 17:00	1.5	2.4	0.0	0.0	2.0	
03/01/2019 18:00	1.5	2.5	0.2	0.2	1.6	
03/01/2019 19:00	1.5	4.2	0.0	0.0	1.4	
03/01/2019 20:00	1.4	4.8	0.1	0.1	1.7	
03/01/2019 21:00	1.6	4.8	0.1	0.1	1.6	
03/01/2019 22:00	1.3	2.1	0.1	0.1	1.7	
03/02/2019 07:00	1.4	2.0	0.0	0.0	1.7	
03/02/2019 08:00	1.5	2.6	0.0	0.0	1.7	
03/02/2019 09:00	1.5	2.3	0.0	0.0	1.9	
03/02/2019 10:00	1.5	2.4	0.0	0.0	1.9	
03/02/2019 15:00	1.4	1.1	0.0	0.0	1.7	
03/02/2019 16:00	1.5	3.4	0.0	0.0	1.9	
03/02/2019 17:00	1.6	2.9	0.0	0.0	2.1	
03/02/2019 18:00	1.4	5.0	0.0	0.0	1.7	
03/02/2019 19:00	1.5	2.2	0.0	0.0	1.9	
03/02/2019 20:00	1.4	3.8	0.0	0.0	1.7	
03/03/2019 06:00	1.5	1.2	0.1	0.1	2.2	
03/03/2019 19:00	1.6	0.9	0.0	0.0	1.6	
03/03/2019 20:00	1.5	2.2	0.0	0.0	2.2	
03/03/2019 21:00	1.5	0.4	0.0	0.0	2.3	
03/04/2019 06:00	1.5	1.9	0.0	0.0	2.1	
03/04/2019 07:00	1.6	0.9	0.0	0.0	2.0	
03/04/2019 18:00	1.4	4.0	0.0	0.0	1.7	
03/04/2019 19:00	1.5	5.3	0.0	0.0	1.6	
03/04/2019 20:00	1.5	5.2	0.0	0.0	1.6	
03/04/2019 21:00	1.6	4.1	0.0	0.0	1.7	
03/04/2019 22:00	1.4	3.2	0.0	0.0	1.6	
03/04/2019 23:00	1.6	2.2	0.0	0.0	1.8	
03/05/2019 06:00	1.5	1.6	0.0	0.0	1.8	
03/05/2019 07:00	1.5	2.4	0.0	0.0	1.7	
03/05/2019 08:00	1.5	2.3	0.0	0.0	1.9	
03/05/2019 09:00	1.5	2.9	0.0	0.1	1.7	
03/05/2019 10:00	1.5	1.4	0.0	0.0	1.7	
03/05/2019 11:00	1.5	2.3	0.0	0.0	1.7	
03/05/2019 12:00	1.5	2.5	0.0	0.0	1.8	
03/05/2019 13:00	1.4	2.6	0.0	0.0	1.6	
03/05/2019 14:00	1.5	0.4	0.0	0.0	1.7	
03/05/2019 15:00	1.5	1.0	0.0	0.0	1.7	
03/05/2019 16:00	1.5	2.2	0.0	0.0	1.9	
03/05/2019 17:00	1.5	3.4	0.0	0.0	2.0	
03/05/2019 18:00	1.5	3.7	0.0	0.0	1.6	
03/05/2019 19:00	1.5	1.9	0.0	0.0	2.2	
03/05/2019 20:00	1.5	1.2	0.0	0.0	2.1	
03/06/2019 18:00	1.5	1.7	0.0	0.0	1.8	
03/06/2019 19:00	1.4	2.9	0.0	0.0	1.5	
03/07/2019 18:00	1.4	4.0	0.0	0.0	1.4	
03/07/2019 19:00	1.5	4.4	0.0	0.0	1.5	
03/07/2019 20:00	1.5	0.9	0.0	0.0	2.0	
03/08/2019 10:00	1.7	0.9	0.0	0.0	1.7	
03/08/2019 11:00	1.5	2.3	0.0	0.0	1.7	
03/08/2019 12:00	1.3	2.3	0.0	0.0	1.5	
03/08/2019 15:00	1.8	4.3	0.0	0.0	1.5	
03/08/2019 16:00	1.5	1.1	0.0	0.0	1.3	
03/09/2019 07:00	1.5	2.2	0.0	0.0	1.4	
03/09/2019 08:00	1.5	3.1	0.0	0.0	1.3	
03/09/2019 17:00	1.6	2.7	0.0	0.0	1.8	
03/09/2019 18:00	1.4	4.5	0.0	0.0	1.4	
03/09/2019 19:00	1.6	1.1	0.0	0.0	1.5	
03/10/2019 12:00	1.5	2.1	0.0	0.0	1.4	
03/10/2019 13:00	1.5	2.9	0.0	0.0	1.3	
03/10/2019 14:00	1.5	3.0	0.0	0.0	1.4	
03/10/2019 15:00	1.5	2.9	0.0	0.0	1.3	
03/10/2019 16:00	1.6	0.1	0.0	0.0	0.4	
03/10/2019 19:00	1.5	1.7	0.0	0.0	1.8	
03/10/2019 20:00	1.5	2.1	0.0	0.0	1.8	
03/10/2019 21:00	1.5	0.4	0.0	0.0	1.8	
03/11/2019 05:00	1.3	0.4	0.1	0.0	1.9	
03/11/2019 06:00	1.4	5.1	0.1	0.1	1.6	
03/11/2019 07:00	1.6	2.3	0.0	0.0	1.7	
03/11/2019 08:00	1.4	2.3	0.0	0.0	1.7	
03/11/2019 09:00	1.5	0.5	0.0	0.0	1.7	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
03/11/2019 14:00	1.5	4.1	0.0	0.0	1.4	
03/11/2019 15:00	1.5	2.9	0.0	0.0	1.8	
03/11/2019 16:00	1.6	2.8	0.0	0.0	1.9	
03/11/2019 17:00	1.5	3.3	0.0	0.0	1.6	
03/11/2019 18:00	1.5	4.1	0.0	0.0	1.7	
03/11/2019 19:00	1.5	2.3	0.0	0.0	1.9	
03/11/2019 20:00	1.5	2.6	0.0	0.0	1.6	
03/11/2019 21:00	1.4	1.9	0.0	0.0	1.8	
03/12/2019 05:00	1.5	2.0	0.0	0.0	1.7	
03/12/2019 06:00	1.5	4.2	0.0	0.0	1.3	
03/12/2019 07:00	1.6	2.2	0.0	0.0	1.8	
03/12/2019 08:00	1.1	0.4	0.0	0.0	2.1	
03/12/2019 12:00	1.6	1.0	0.0	0.0	1.7	
03/12/2019 13:00	1.5	1.9	0.0	0.0	1.9	
03/13/2019 17:00	1.4	2.3	0.0	0.0	1.5	
03/13/2019 18:00	1.5	4.3	0.0	0.0	1.2	
03/13/2019 19:00	1.5	3.2	0.0	0.0	1.5	
03/13/2019 20:00	1.5	3.0	0.0	0.0	1.5	
03/13/2019 21:00	1.5	2.1	0.0	0.0	1.8	
03/13/2019 22:00	1.5	1.9	0.0	0.0	1.8	
03/14/2019 05:00	0.9	0.6	0.0	0.0	1.6	
03/14/2019 06:00	1.6	3.2	0.0	0.0	1.5	
03/14/2019 15:00	1.6	1.9	0.0	0.0	1.8	
03/14/2019 16:00	1.6	2.9	0.0	0.0	2.1	
03/14/2019 17:00	1.4	2.0	0.0	0.0	1.8	
03/14/2019 18:00	1.5	2.2	0.0	0.0	1.9	
03/14/2019 19:00	1.5	0.4	0.0	0.0	2.1	
03/14/2019 20:00	1.5	0.4	0.0	0.0	1.7	
03/14/2019 21:00	1.5	1.9	0.0	0.0	2.0	
03/15/2019 06:00	1.7	1.7	0.0	0.0	2.0	
03/15/2019 12:00	1.5	1.5	0.0	0.0	1.4	
03/15/2019 18:00	1.5	2.4	0.0	0.1	2.1	
03/15/2019 19:00	1.6	2.0	0.0	0.0	2.2	
03/15/2019 20:00	1.5	1.9	0.0	0.0	2.0	
03/15/2019 21:00	1.5	0.4	0.0	0.0	2.1	
03/16/2019 11:00	1.5	1.7	0.0	0.0	1.4	
03/16/2019 12:00	1.6	2.4	0.0	0.0	1.6	
03/16/2019 13:00	1.5	2.2	0.0	0.0	1.6	
03/16/2019 16:00	1.5	1.7	0.0	0.0	1.5	
03/16/2019 18:00	1.4	1.4	0.0	0.0	2.1	
03/16/2019 19:00	1.5	2.2	0.0	0.0	1.6	
03/17/2019 19:00	1.6	1.3	0.0	0.0	1.9	
03/17/2019 20:00	1.5	1.4	0.0	0.0	2.3	
03/18/2019 18:00	1.6	1.1	0.0	0.0	1.9	
03/18/2019 19:00	1.5	2.0	0.0	0.0	1.9	
03/19/2019 08:00	1.5	2.3	0.0	0.0	1.5	
03/19/2019 09:00	1.5	5.2	0.0	0.0	1.6	
03/19/2019 10:00	1.5	5.3	0.0	0.0	1.6	
03/19/2019 11:00	1.5	4.5	0.0	0.0	1.3	
03/19/2019 12:00	1.5	5.3	0.0	0.0	1.6	
03/19/2019 13:00	1.5	5.4	0.0	0.0	1.6	
03/19/2019 14:00	1.5	5.3	0.0	0.0	1.6	
03/19/2019 15:00	1.5	3.1	0.0	0.0	1.6	
03/19/2019 16:00	1.5	2.1	0.0	0.0	1.9	
03/19/2019 17:00	1.6	2.4	0.0	0.0	1.8	
03/19/2019 18:00	1.5	2.4	0.0	0.0	1.9	
03/19/2019 19:00	1.5	0.9	0.0	0.0	2.1	
03/20/2019 05:00	1.6	0.4	0.0	0.0	1.7	
03/20/2019 06:00	1.6	2.6	0.0	0.0	1.8	
03/20/2019 07:00	1.2	2.7	0.0	0.0	1.8	
03/20/2019 08:00	1.5	3.5	0.0	0.1	1.3	
03/20/2019 09:00	1.5	4.6	0.0	0.0	1.3	
03/20/2019 10:00	1.4	3.8	0.0	0.0	1.4	
03/20/2019 11:00	1.5	2.1	0.0	0.0	1.8	
03/20/2019 12:00	1.5	4.1	0.0	0.0	1.7	
03/20/2019 13:00	1.5	2.3	0.0	0.0	1.7	
03/20/2019 14:00	1.5	2.7	0.0	0.0	1.6	
03/20/2019 15:00	1.6	1.1	0.0	0.0	1.8	
03/20/2019 17:00	1.6	0.4	0.0	0.0	1.7	
03/20/2019 18:00	1.5	2.0	0.0	0.0	1.9	
03/20/2019 19:00	1.5	1.4	0.0	0.0	2.0	
03/21/2019 05:00	1.8	1.7	0.0	0.0	1.8	

Period Start:	Average	Average	Average	Average	Average	Notes
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm	
03/21/2019 06:00	1.2	1.9	0.0	0.0	1.6	
03/21/2019 08:00	1.5	2.1	0.0	0.0	1.4	
03/21/2019 09:00	1.5	3.1	0.0	0.0	1.4	
03/21/2019 10:00	1.5	3.0	0.0	0.0	1.4	
03/21/2019 11:00	1.5	3.1	0.0	0.0	1.4	
03/21/2019 12:00	1.5	3.0	0.0	0.0	1.3	
03/21/2019 13:00	1.5	3.0	0.0	0.0	1.3	
03/21/2019 14:00	1.5	2.2	0.1	0.1	1.4	
03/21/2019 15:00	1.5	3.0	0.0	0.0	1.3	
03/21/2019 16:00	1.5	3.1	0.0	0.0	1.4	
03/21/2019 17:00	1.5	0.4	0.0	0.0	1.4	
03/22/2019 05:00	1.7	1.7	0.0	0.0	1.7	
03/22/2019 06:00	1.5	0.9	0.0	0.0	1.7	
03/22/2019 19:00	1.5	1.5	0.0	0.0	1.8	
03/22/2019 20:00	1.5	0.9	0.0	0.0	2.2	
03/23/2019 10:00	1.5	2.3	0.0	0.0	1.3	
03/23/2019 11:00	1.5	3.9	0.0	0.0	1.5	
03/23/2019 12:00	1.5	3.4	0.0	0.0	1.5	
03/23/2019 13:00	1.5	2.9	0.0	0.0	1.4	
03/23/2019 19:00	1.6	1.5	0.0	0.0	2.1	
03/23/2019 20:00	1.5	0.4	0.0	0.0	2.1	
03/24/2019 19:00	1.5	1.9	0.0	0.0	1.8	
03/24/2019 20:00	1.6	1.7	0.0	0.0	1.7	
03/24/2019 21:00	1.5	0.9	0.0	0.0	2.1	
03/25/2019 05:00	1.6	1.3	0.0	0.0	1.8	
03/25/2019 06:00	1.5	2.0	0.0	0.0	1.8	
03/25/2019 07:00	1.5	0.9	0.0	0.0	1.9	
03/25/2019 18:00	1.5	2.8	0.0	0.0	1.5	
03/25/2019 19:00	1.4	2.9	0.0	0.0	1.8	
03/25/2019 20:00	1.5	0.4	0.0	0.0	1.9	
03/26/2019 17:00	1.3	0.8	0.0	0.0	1.3	
03/26/2019 18:00	1.5	2.8	0.0	0.0	1.8	
03/26/2019 19:00	1.5	1.9	0.0	0.0	2.1	
03/26/2019 20:00	1.5	0.9	0.0	0.0	2.0	
03/26/2019 21:00	1.7	0.5	0.0	0.0	1.8	
03/26/2019 22:00	1.4	1.5	0.0	0.0	1.9	
03/27/2019 06:00	1.7	1.7	0.0	0.0	2.0	
03/27/2019 07:00	1.2	0.8	0.0	0.0	2.1	
03/27/2019 16:00	1.5	1.6	0.0	0.0	1.7	
03/28/2019 05:00	0.8	0.0	0.3	0.0	1.2	
03/28/2019 06:00	1.5	2.6	0.1	0.1	1.4	
03/28/2019 17:00	1.1	0.5	0.0	0.0	1.9	
03/28/2019 18:00	1.5	2.7	0.0	0.0	1.7	
03/28/2019 19:00	1.7	0.4	0.0	0.0	1.9	
03/29/2019 05:00	1.4	0.4	0.0	0.0	1.6	
03/29/2019 06:00	1.5	1.2	0.0	0.0	1.9	
03/29/2019 08:00	1.5	1.7	0.0	0.0	1.7	
03/29/2019 09:00	1.4	2.2	0.0	0.0	1.7	
03/29/2019 18:00	1.6	0.4	0.0	0.0	1.4	
03/29/2019 19:00	1.5	0.9	0.0	0.0	2.0	
03/30/2019 05:00	1.8	1.1	0.0	0.0	1.9	
03/30/2019 06:00	1.4	1.0	0.0	0.0	1.8	
03/30/2019 12:00	1.5	1.2	0.0	0.0	1.8	
03/30/2019 13:00	1.5	2.1	0.0	0.0	1.8	
03/30/2019 17:00	1.5	1.0	0.0	0.0	2.0	
03/30/2019 18:00	1.5	1.9	0.0	0.0	2.1	
03/30/2019 19:00	1.5	2.0	0.0	0.0	2.0	
03/30/2019 20:00	1.5	2.0	0.0	0.0	2.0	
03/30/2019 21:00	1.5	1.9	0.0	0.0	1.9	
03/31/2019 05:00	1.7	0.4	0.0	0.0	1.7	
03/31/2019 06:00	1.6	0.9	0.0	0.0	1.7	
03/31/2019 17:00	1.6	1.9	0.0	0.0	1.7	
03/31/2019 18:00	1.4	2.7	0.0	0.0	1.9	
03/31/2019 19:00	1.5	2.6	0.0	0.0	1.7	
03/31/2019 20:00	1.5	2.1	0.0	0.0	2.0	
03/31/2019 21:00	1.5	0.4	0.0	0.0	2.1	
Final Average*	1.5	2.2	0.0	0.0	1.8	
Maximum*	2.0	5.6	0.3	0.5	2.3	
	02/05/2019 16:00	02/28/2019 19:00	03/28/2019 5:00	01/21/2019 21:00	03/17/2019 20:00	
Minimum*	0.8	0.0	0.0	0.0	0.4	
	03/28/2019	03/28/2019	03/31/2019	03/31/2019	03/10/2019	

Period Start:	Average 9NOxCorOP1 ppm	Average 9NOX#OP1HR LBS	Average 9COCorOP1 ppm	Average 9CO#OP1HR LBS	Average 9NH3CorOP1 ppm	Notes
	5:00	5:00	21:00	21:00	16:00	

* Does not include Invalid Averaging Periods ("N/A")

Average Values Report
Generated: 4/23/2019 06:34Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 10Period Start: 1/1/2019 00:00
Period End: 3/31/2019 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCoOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm	Notes
01/01/2019 18:00	1.5	0.9	0.1	0.0	1.9	
01/01/2019 19:00	1.5	1.0	0.1	0.0	1.6	
01/01/2019 20:00	1.6	0.4	0.0	0.0	1.9	
01/01/2019 21:00	1.5	1.5	0.0	0.0	2.0	
01/02/2019 17:00	1.9	0.4	0.1	0.0	2.3	
01/02/2019 19:00	1.9	2.5	0.0	0.0	1.8	
01/04/2019 06:00	1.5	0.7	0.1	0.0	1.8	
01/04/2019 18:00	1.6	0.4	0.0	0.0	N/A	
01/04/2019 19:00	1.5	2.1	0.0	0.0	1.7	
01/05/2019 06:00	1.6	1.1	0.0	0.0	2.0	
01/05/2019 07:00	1.7	2.1	0.1	0.1	2.3	
01/05/2019 09:00	1.5	1.9	0.0	0.0	1.7	
01/05/2019 10:00	1.5	2.5	0.0	0.0	1.9	
01/05/2019 11:00	1.6	3.0	0.1	0.1	1.8	
01/05/2019 12:00	1.4	2.3	0.1	0.1	1.8	
01/05/2019 13:00	1.5	0.5	0.0	0.0	1.6	
01/05/2019 14:00	1.5	0.4	0.0	0.0	1.4	
01/05/2019 15:00	1.6	1.0	0.0	0.0	1.8	
01/06/2019 08:00	1.6	2.3	0.1	0.1	1.7	
01/07/2019 06:00	1.6	0.3	0.0	0.0	1.7	
01/07/2019 07:00	1.6	0.3	0.1	0.0	N/A	
01/07/2019 16:00	1.5	0.4	0.0	0.0	1.6	
01/07/2019 17:00	1.5	2.3	0.0	0.0	1.6	
01/07/2019 18:00	1.5	1.1	0.0	0.0	1.6	
01/08/2019 07:00	1.4	2.2	0.1	0.1	1.6	
01/08/2019 08:00	1.5	0.5	0.1	0.0	1.8	
01/08/2019 16:00	1.5	0.4	0.0	0.0	1.7	
01/08/2019 17:00	1.5	2.1	0.0	0.0	1.9	
01/08/2019 18:00	1.5	2.2	0.0	0.0	1.8	
01/08/2019 19:00	1.4	0.5	0.0	0.0	1.7	
01/09/2019 06:00	1.5	0.7	0.1	0.0	1.6	
01/09/2019 07:00	1.5	2.8	0.2	0.3	1.7	
01/09/2019 08:00	1.5	2.2	0.1	0.1	1.8	
01/09/2019 16:00	1.6	1.7	0.1	0.0	1.6	
01/10/2019 06:00	1.5	0.7	0.1	0.0	1.7	
01/10/2019 07:00	1.5	2.2	0.1	0.1	1.6	
01/11/2019 06:00	1.5	1.1	0.1	0.1	1.6	
01/11/2019 07:00	1.5	1.8	0.1	0.1	1.5	
01/11/2019 15:00	1.5	2.1	0.6	0.7	1.8	
01/11/2019 16:00	1.5	2.1	0.1	0.1	1.7	
01/11/2019 17:00	1.5	2.2	0.1	0.1	1.7	
01/11/2019 18:00	1.4	2.2	0.1	0.1	1.6	
01/11/2019 19:00	1.4	2.2	0.1	0.1	1.7	
01/11/2019 20:00	1.5	2.2	0.1	0.1	1.7	
01/11/2019 21:00	1.5	2.3	0.1	0.1	1.6	
01/11/2019 22:00	1.6	2.1	0.1	0.1	1.8	
01/12/2019 07:00	1.5	1.0	0.1	0.0	1.6	
01/12/2019 08:00	1.5	0.4	0.1	0.0	1.8	
01/12/2019 15:00	1.4	2.7	0.9	1.2	1.9	
01/12/2019 16:00	1.5	2.3	0.0	0.0	1.7	
01/12/2019 17:00	1.5	2.2	0.0	0.0	1.7	
01/12/2019 18:00	1.5	2.2	0.0	0.0	1.6	
01/12/2019 19:00	1.4	0.7	0.2	0.1	1.7	
01/13/2019 17:00	1.5	1.1	0.0	0.0	1.5	
01/13/2019 18:00	1.5	2.3	0.0	0.0	1.5	
01/13/2019 19:00	1.5	2.2	0.0	0.0	1.5	
01/14/2019 06:00	1.5	1.1	0.1	0.0	1.7	
01/14/2019 07:00	1.5	4.3	0.9	1.8	1.8	
01/14/2019 08:00	1.5	3.8	0.9	1.9	1.9	
01/14/2019 09:00	1.5	2.4	0.0	0.0	1.6	
01/14/2019 12:00	1.5	5.0	1.6	3.3	2.4	
01/14/2019 13:00	1.4	2.1	0.0	0.0	1.7	
01/14/2019 14:00	1.4	2.2	0.0	0.0	1.7	

Period Start:	Average	Average	Average	Average	Average	Notes
	10NOxCrOP1 ppm	10NOX#OP1H LBS	10COCorOP1 ppm	10CO#OP1HR LBS	10NH3CrNS1 ppm	
01/14/2019 15:00	1.5	2.2	0.0	0.0	1.7	
01/14/2019 16:00	1.5	2.2	0.0	0.0	1.7	
01/14/2019 17:00	1.5	2.2	0.0	0.0	1.7	
01/14/2019 18:00	1.5	2.2	0.0	0.0	1.7	
01/14/2019 19:00	1.5	2.4	0.0	0.0	1.7	
01/14/2019 20:00	1.3	2.1	0.8	0.7	2.0	
01/15/2019 07:00	1.5	0.6	0.0	0.0	N/A	
01/15/2019 08:00	1.5	0.5	0.0	0.0	1.9	
01/15/2019 14:00	1.5	1.9	0.1	0.1	1.9	
01/15/2019 15:00	1.5	2.2	0.0	0.0	1.7	
01/15/2019 16:00	1.5	2.2	0.0	0.0	1.6	
01/15/2019 17:00	1.5	2.2	0.0	0.0	1.7	
01/15/2019 18:00	1.5	2.2	0.0	0.0	1.7	
01/15/2019 19:00	1.5	2.2	0.0	0.0	1.7	
01/15/2019 20:00	1.4	4.9	1.0	2.2	2.3	
01/15/2019 21:00	1.3	3.6	1.3	2.1	2.1	
01/16/2019 06:00	1.6	3.6	0.8	1.1	1.9	
01/16/2019 07:00	1.5	2.5	0.1	0.1	1.7	
01/16/2019 08:00	1.5	4.3	0.6	1.2	2.0	
01/16/2019 09:00	1.5	0.5	0.0	0.0	1.7	
01/16/2019 16:00	1.5	4.8	1.0	2.0	1.8	
01/16/2019 17:00	1.4	4.2	0.3	0.5	1.6	
01/16/2019 18:00	1.6	4.1	0.1	0.2	1.4	
01/16/2019 19:00	1.5	5.1	1.4	3.2	2.0	
01/16/2019 20:00	1.4	1.1	0.9	0.4	1.9	
01/16/2019 21:00	1.4	1.0	1.6	0.7	2.1	
01/16/2019 22:00	1.4	1.9	0.7	0.7	2.0	
01/17/2019 06:00	1.5	1.5	0.0	0.0	1.7	
01/17/2019 07:00	1.5	2.1	0.0	0.0	1.7	
01/17/2019 15:00	1.5	0.8	0.0	0.0	1.4	
01/17/2019 16:00	1.5	2.4	0.1	0.1	1.7	
01/17/2019 17:00	1.5	2.9	0.2	0.4	1.7	
01/18/2019 06:00	1.5	1.5	0.0	0.0	1.7	
01/18/2019 07:00	1.5	2.2	0.0	0.0	1.7	
01/18/2019 08:00	1.5	2.2	0.0	0.0	1.8	
01/18/2019 16:00	1.5	0.9	0.0	0.0	1.7	
01/18/2019 17:00	1.6	3.1	0.3	0.6	1.9	
01/18/2019 18:00	1.5	2.4	0.0	0.1	1.7	
01/18/2019 19:00	1.3	0.6	0.0	0.0	1.6	
01/19/2019 06:00	1.5	1.7	0.0	0.0	1.7	
01/19/2019 08:00	1.5	1.4	0.0	0.0	1.8	
01/19/2019 17:00	1.5	1.7	0.0	0.0	1.7	
01/19/2019 18:00	1.5	0.7	0.1	0.0	1.6	
01/19/2019 22:00	1.5	1.5	0.1	0.1	1.8	
01/19/2019 23:00	1.5	2.2	0.1	0.1	1.8	
01/20/2019 06:00	1.5	1.5	0.1	0.1	1.8	
01/20/2019 07:00	1.5	2.1	0.1	0.1	1.8	
01/20/2019 15:00	1.5	1.0	0.0	0.0	1.5	
01/20/2019 16:00	1.6	0.5	0.0	0.0	1.7	
01/20/2019 18:00	1.4	1.5	0.0	0.0	1.6	
01/20/2019 19:00	1.5	2.1	0.0	0.0	1.7	
01/21/2019 06:00	1.2	1.5	0.1	0.1	2.1	
01/21/2019 07:00	1.6	3.0	0.1	0.2	1.7	
01/21/2019 08:00	0.8	0.3	0.0	0.0	2.3	
01/21/2019 10:00	1.5	1.1	0.0	0.0	1.7	
01/21/2019 11:00	1.5	2.4	0.0	0.0	1.9	
01/21/2019 12:00	1.5	2.5	0.0	0.0	1.8	
01/21/2019 17:00	1.5	3.6	1.3	2.0	1.9	
01/21/2019 18:00	1.5	4.1	0.8	1.7	1.8	
01/21/2019 19:00	1.4	3.4	0.8	1.7	1.8	
01/21/2019 20:00	1.5	2.4	0.1	0.1	1.6	
01/21/2019 23:00	1.6	1.6	0.0	0.0	1.8	
01/22/2019 06:00	1.5	1.0	0.1	0.0	1.5	
01/22/2019 07:00	5.7	5.2	0.7	0.7	1.9	BRK-003
01/22/2019 16:00	1.1	0.5	0.2	0.0	1.6	
01/22/2019 17:00	1.4	2.9	0.2	0.4	1.6	
01/22/2019 18:00	1.5	2.5	0.1	0.1	1.5	
01/22/2019 19:00	1.6	4.3	0.7	1.5	1.9	
01/22/2019 20:00	1.8	0.9	0.1	0.0	1.7	
01/23/2019 06:00	7.1	5.6	0.5	0.5	1.8	BRK-004
01/23/2019 07:00	1.5	2.2	0.1	0.1	1.5	
01/23/2019 08:00	2.1	2.5	0.4	0.3	1.8	

Period Start:	Average	Average	Average	Average	Average	Notes
	10NOxCrOP1 ppm	10NOX#OP1H LBS	10COCorOP1 ppm	10CO#OP1HR LBS	10NH3CrNS1 ppm	
01/23/2019 12:00	1.6	0.8	0.3	0.1	1.4	
01/23/2019 13:00	1.8	1.9	0.3	0.2	1.5	
01/23/2019 17:00	1.8	2.2	0.0	0.0	1.6	
01/24/2019 06:00	1.5	1.6	0.1	0.1	1.7	
01/24/2019 07:00	1.5	2.1	0.1	0.1	1.7	
01/24/2019 17:00	1.4	3.3	1.1	1.9	2.0	
01/24/2019 18:00	1.5	4.7	1.7	3.3	1.7	
01/24/2019 19:00	1.6	1.1	0.1	0.0	1.7	
01/25/2019 06:00	1.3	0.8	0.5	0.2	2.0	
01/25/2019 07:00	1.6	2.3	0.9	0.9	2.1	
01/25/2019 09:00	1.6	1.2	2.2	1.0	1.7	
01/25/2019 10:00	1.7	6.1	1.7	3.7	1.7	
01/25/2019 11:00	1.6	5.9	1.6	3.4	1.6	
01/25/2019 12:00	1.6	1.5	1.6	0.9	1.6	
01/25/2019 13:00	1.7	1.7	1.5	1.0	1.9	
01/25/2019 14:00	1.6	1.3	2.2	1.1	2.1	
01/25/2019 17:00	1.6	4.3	1.9	3.5	1.8	
01/25/2019 19:00	1.7	4.2	1.4	2.1	1.7	
01/25/2019 20:00	1.0	0.6	0.3	0.1	1.7	
01/26/2019 08:00	1.3	0.4	0.1	0.0	1.7	
01/26/2019 09:00	1.5	1.6	0.0	0.0	1.7	
01/26/2019 15:00	1.6	2.2	0.1	0.1	1.6	
01/26/2019 17:00	1.0	0.7	1.3	0.5	2.1	
01/26/2019 18:00	1.4	1.2	0.2	0.2	1.8	
01/27/2019 15:00	1.5	1.6	0.0	0.0	1.8	
01/27/2019 16:00	1.5	2.1	0.0	0.0	1.8	
01/27/2019 17:00	1.6	2.9	0.3	0.6	1.9	
01/27/2019 18:00	1.4	2.4	0.2	0.4	1.8	
01/28/2019 07:00	1.5	2.1	0.2	0.2	2.1	
01/28/2019 14:00	1.5	1.4	0.0	0.0	1.7	
01/28/2019 15:00	1.4	2.3	0.1	0.1	1.7	
01/28/2019 16:00	1.6	2.3	0.0	0.0	1.7	
01/28/2019 17:00	1.5	4.4	0.7	1.3	1.5	
01/28/2019 18:00	1.5	2.9	0.5	0.9	1.8	
01/29/2019 15:00	1.5	1.5	0.0	0.0	1.6	
01/29/2019 16:00	1.5	2.2	0.0	0.0	1.7	
01/29/2019 17:00	1.6	3.7	0.4	0.9	2.1	
01/29/2019 18:00	1.3	3.8	0.4	0.9	1.9	
01/29/2019 19:00	1.5	2.3	0.0	0.0	1.8	
01/30/2019 07:00	1.5	2.7	0.6	0.8	1.9	
01/30/2019 15:00	1.6	1.5	0.0	0.0	1.5	
01/30/2019 16:00	1.6	2.6	0.0	0.0	1.8	
01/30/2019 17:00	1.6	5.7	1.3	2.8	1.9	
01/30/2019 18:00	1.4	4.8	0.9	1.8	1.8	
01/30/2019 19:00	1.5	3.2	1.2	1.6	1.8	
01/30/2019 20:00	1.6	0.7	0.5	0.2	1.9	
01/31/2019 16:00	1.5	1.4	0.0	0.0	1.6	
01/31/2019 18:00	1.4	3.1	0.9	1.3	1.8	
01/31/2019 19:00	1.6	0.5	0.1	0.0	1.6	
01/31/2019 20:00	1.1	0.2	0.5	0.1	1.8	
01/31/2019 21:00	1.6	3.2	0.2	0.3	1.6	
02/01/2019 06:00	1.5	0.5	0.1	0.0	1.7	
02/01/2019 07:00	1.5	2.1	0.7	0.7	2.2	
02/01/2019 17:00	1.5	2.0	0.0	0.0	1.7	
02/02/2019 18:00	1.5	1.4	0.1	0.1	1.6	
02/02/2019 21:00	1.5	1.4	0.1	0.1	1.8	
02/03/2019 16:00	1.5	0.9	0.1	0.1	1.7	
02/03/2019 17:00	1.5	2.1	0.2	0.2	1.5	
02/03/2019 18:00	1.5	0.5	0.2	0.0	1.5	
02/04/2019 06:00	1.6	1.7	0.2	0.2	1.6	
02/04/2019 07:00	1.5	2.2	0.2	0.2	1.7	
02/04/2019 08:00	1.5	2.1	0.2	0.2	1.5	
02/04/2019 16:00	1.5	0.4	0.2	0.0	1.7	
02/04/2019 17:00	1.5	2.2	0.2	0.2	1.7	
02/04/2019 18:00	1.5	2.2	0.2	0.2	1.7	
02/04/2019 19:00	1.5	2.3	0.2	0.2	1.5	
02/04/2019 20:00	1.5	2.2	0.2	0.2	1.6	
02/04/2019 21:00	1.5	2.1	0.2	0.2	1.7	
02/05/2019 06:00	1.5	1.5	0.2	0.1	1.6	
02/05/2019 07:00	1.5	2.4	0.2	0.2	1.9	
02/05/2019 17:00	1.5	1.0	0.2	0.1	1.5	
02/05/2019 18:00	1.5	1.9	0.3	0.2	1.6	

Period Start:	Average	Average	Average	Average	Average	Notes
	10NOxCrOP1 ppm	10NOX#OP1H LBS	10COCorOP1 ppm	10CO#OP1HR LBS	10NH3CrNS1 ppm	
02/05/2019 19:00	1.5	2.2	0.3	0.3	1.7	
02/05/2019 20:00	1.5	2.3	0.3	0.3	1.7	
02/05/2019 21:00	1.5	2.1	0.2	0.2	1.8	
02/06/2019 06:00	1.9	4.5	1.0	1.4	1.5	
02/06/2019 07:00	1.5	2.5	1.4	1.4	1.7	
02/06/2019 18:00	1.4	2.0	0.2	0.2	1.7	
02/06/2019 19:00	1.6	4.1	0.8	1.4	2.2	
02/07/2019 06:00	1.7	2.1	0.3	0.3	1.7	
02/07/2019 07:00	1.3	0.7	1.6	0.6	2.3	
02/11/2019 06:00	1.6	0.4	0.1	0.0	1.3	
02/11/2019 07:00	1.6	1.0	0.1	0.0	1.8	
02/12/2019 14:00	1.5	2.3	2.4	2.2	1.8	
02/12/2019 15:00	1.6	0.8	0.0	0.0	1.6	
02/12/2019 17:00	1.6	3.2	0.6	1.2	1.8	
02/12/2019 18:00	1.5	2.4	0.1	0.2	1.8	
02/12/2019 19:00	1.6	5.9	1.7	3.7	1.8	
02/12/2019 20:00	1.5	2.5	1.2	1.3	2.1	
02/13/2019 07:00	1.5	1.5	0.1	0.1	1.8	
02/13/2019 08:00	2.6	1.7	0.5	0.2	2.0	
02/13/2019 16:00	1.6	1.5	0.0	0.0	1.8	
02/13/2019 17:00	1.6	2.5	0.1	0.1	1.9	
02/13/2019 18:00	1.4	2.4	0.3	0.5	1.9	
02/13/2019 19:00	1.5	2.3	0.0	0.0	1.7	
02/13/2019 20:00	1.5	2.2	0.1	0.0	1.7	
02/13/2019 21:00	1.5	2.2	0.1	0.1	1.7	
02/14/2019 07:00	1.5	1.6	0.1	0.1	1.8	
02/14/2019 08:00	1.4	2.4	0.3	0.4	1.8	
02/14/2019 09:00	1.6	1.6	0.2	0.1	1.7	
02/14/2019 10:00	1.5	2.2	0.1	0.1	1.7	
02/14/2019 18:00	1.5	1.5	0.1	0.1	1.6	
02/15/2019 17:00	1.6	0.4	0.0	0.0	1.6	
02/15/2019 18:00	1.5	1.5	0.1	0.0	2.0	
02/15/2019 20:00	1.6	2.1	0.2	0.2	1.7	
02/15/2019 21:00	1.5	2.5	0.1	0.2	1.7	
02/15/2019 22:00	1.5	1.0	0.0	0.0	1.5	
02/16/2019 12:00	1.7	1.7	0.1	0.1	1.9	
02/16/2019 13:00	1.4	3.3	0.4	0.5	1.7	
02/16/2019 14:00	1.5	1.1	0.1	0.0	1.9	
02/16/2019 15:00	1.3	0.9	2.0	0.8	2.3	
02/16/2019 16:00	1.4	2.4	0.2	0.2	1.9	
02/16/2019 17:00	1.5	2.0	0.1	0.1	2.1	
02/16/2019 18:00	1.5	1.9	0.1	0.1	2.0	
02/16/2019 19:00	1.5	1.9	0.1	0.1	1.7	
02/16/2019 20:00	1.5	2.4	0.2	0.2	2.1	
02/16/2019 21:00	1.5	0.4	0.1	0.0	2.3	
02/17/2019 06:00	1.5	0.8	0.2	0.1	2.0	
02/17/2019 07:00	1.6	0.5	0.2	0.0	2.0	
02/17/2019 09:00	1.5	2.7	0.2	0.3	1.9	
02/17/2019 10:00	1.4	4.0	0.7	1.2	1.7	
02/17/2019 11:00	1.6	3.1	0.3	0.5	1.9	
02/17/2019 12:00	1.4	3.0	0.2	0.3	1.8	
02/17/2019 13:00	1.5	2.8	0.3	0.6	2.0	
02/17/2019 14:00	1.5	2.3	0.2	0.2	1.8	
02/17/2019 16:00	1.7	0.5	0.1	0.0	1.6	
02/17/2019 17:00	1.7	4.0	0.8	1.6	1.6	
02/17/2019 18:00	1.3	3.2	0.4	0.7	1.9	
02/17/2019 19:00	1.4	2.2	0.2	0.2	1.6	
02/17/2019 20:00	1.6	2.2	1.0	0.9	2.3	
02/18/2019 06:00	1.4	1.6	0.2	0.2	1.8	
02/18/2019 07:00	1.5	1.1	0.2	0.1	1.6	
02/18/2019 15:00	1.5	1.3	0.1	0.1	1.8	
02/18/2019 16:00	1.5	1.3	0.3	0.2	1.6	
02/18/2019 17:00	1.5	3.5	0.4	0.6	1.8	
02/18/2019 18:00	1.5	3.1	1.0	1.4	2.1	
02/18/2019 21:00	1.6	1.7	0.2	0.1	1.6	
02/19/2019 06:00	1.5	1.6	0.2	0.1	2.0	
02/19/2019 07:00	1.5	2.2	0.2	0.2	2.2	
02/19/2019 16:00	1.7	2.7	0.3	0.3	2.3	
02/19/2019 17:00	1.4	1.9	0.2	0.2	2.0	
02/19/2019 18:00	1.5	2.1	0.2	0.2	2.0	
02/19/2019 19:00	1.5	2.0	0.2	0.1	2.0	
02/19/2019 20:00	1.5	2.0	0.1	0.1	2.0	

Period Start:	Average	Average	Average	Average	Average	Notes
	10NOxCrOP1 ppm	10NOX#OP1H LBS	10COCorOP1 ppm	10CO#OP1HR LBS	10NH3CrNS1 ppm	
02/20/2019 06:00	1.6	0.3	0.2	0.0	2.0	
02/20/2019 07:00	1.6	0.9	0.2	0.1	2.2	
02/20/2019 16:00	1.4	2.4	0.3	0.3	1.7	
02/20/2019 17:00	1.7	2.9	1.0	1.3	2.3	
02/20/2019 18:00	1.5	1.9	0.2	0.2	2.1	
02/21/2019 17:00	1.5	3.5	0.7	1.3	2.1	
02/21/2019 18:00	1.5	2.3	0.2	0.2	1.7	
02/21/2019 19:00	1.5	2.3	0.2	0.2	1.7	
02/21/2019 20:00	1.9	5.8	1.5	3.2	1.7	
02/21/2019 21:00	1.8	6.7	2.1	4.5	1.7	
02/22/2019 16:00	1.5	1.8	0.3	0.2	1.8	
02/22/2019 17:00	1.5	2.3	0.2	0.2	2.1	
02/22/2019 18:00	1.5	2.1	0.2	0.2	2.0	
02/22/2019 19:00	1.5	2.1	0.2	0.2	2.1	
02/22/2019 20:00	1.8	2.4	1.4	1.4	2.1	
02/23/2019 11:00	1.7	0.4	0.1	0.0	1.9	
02/23/2019 12:00	1.5	2.0	0.0	0.0	2.0	
02/23/2019 14:00	1.6	1.8	0.1	0.1	2.1	
02/23/2019 15:00	1.5	2.1	0.0	0.0	2.1	
02/24/2019 10:00	1.6	0.4	0.1	0.0	N/A	
02/24/2019 11:00	1.5	2.9	0.2	0.3	1.8	
02/24/2019 17:00	1.6	0.4	0.0	0.0	1.8	
02/24/2019 18:00	1.6	1.0	0.0	0.0	2.1	
02/25/2019 06:00	1.5	1.6	0.2	0.1	1.7	
02/25/2019 07:00	1.8	2.2	0.9	0.8	2.1	
02/25/2019 17:00	1.6	2.9	0.6	1.1	1.9	
02/25/2019 18:00	1.4	2.4	0.2	0.3	1.9	
02/25/2019 19:00	1.5	2.6	0.6	1.0	1.9	
02/25/2019 21:00	1.5	1.5	0.1	0.1	1.7	
02/26/2019 06:00	1.5	1.6	0.1	0.1	1.8	
02/26/2019 07:00	1.5	2.2	0.1	0.1	1.8	
02/26/2019 11:00	2.1	1.3	2.0	0.8	2.3	
02/26/2019 12:00	1.4	3.5	1.8	2.8	1.8	
02/26/2019 13:00	1.7	4.5	1.2	2.2	1.8	
02/26/2019 14:00	1.5	1.3	2.1	1.0	2.0	
02/26/2019 15:00	1.6	2.5	1.8	1.8	1.9	
02/26/2019 16:00	1.5	4.4	0.8	1.6	1.9	
02/26/2019 17:00	1.4	3.6	0.3	0.4	1.9	
02/26/2019 18:00	1.8	6.5	1.6	3.5	1.9	
02/26/2019 19:00	1.5	3.9	0.6	1.0	2.0	
02/26/2019 20:00	1.4	3.2	0.3	0.4	1.7	
02/26/2019 21:00	1.5	2.8	0.2	0.2	1.8	
02/26/2019 22:00	1.5	2.3	0.1	0.1	1.8	
02/27/2019 15:00	1.5	0.4	0.0	0.0	1.7	
02/27/2019 16:00	1.5	2.3	0.0	0.0	1.7	
02/27/2019 17:00	1.5	3.6	0.4	0.8	2.0	
02/27/2019 18:00	1.6	4.9	1.3	2.8	2.0	
02/27/2019 19:00	1.8	6.4	1.5	3.3	1.8	
02/27/2019 20:00	1.4	2.7	0.2	0.3	1.9	
02/27/2019 21:00	1.5	2.4	0.1	0.1	2.1	
02/27/2019 22:00	1.5	2.2	0.1	0.1	1.8	
02/28/2019 09:00	1.4	0.3	0.1	0.0	N/A	
02/28/2019 10:00	1.6	1.7	0.2	0.1	2.0	
02/28/2019 17:00	1.5	1.6	0.1	0.1	2.1	
02/28/2019 18:00	1.8	6.0	1.2	2.6	1.8	
02/28/2019 19:00	1.2	3.0	0.2	0.4	2.0	
02/28/2019 20:00	1.5	2.2	0.0	0.0	1.6	
02/28/2019 21:00	1.5	2.3	0.0	0.0	1.6	
02/28/2019 22:00	1.5	2.3	0.1	0.1	1.8	
02/28/2019 23:00	1.5	0.5	0.1	0.0	1.9	
03/01/2019 06:00	1.9	3.9	0.9	1.4	1.9	
03/01/2019 07:00	1.7	1.5	1.2	0.7	2.1	
03/01/2019 17:00	2.2	1.4	1.1	0.4	2.2	
03/01/2019 18:00	1.7	6.0	1.2	2.7	1.9	
03/01/2019 19:00	1.3	4.5	0.9	1.9	2.1	
03/01/2019 20:00	1.5	2.5	0.1	0.1	1.8	
03/01/2019 21:00	1.5	2.4	0.1	0.1	1.9	
03/01/2019 22:00	1.5	2.4	0.1	0.1	1.9	
03/02/2019 08:00	1.5	1.0	0.4	0.1	2.1	
03/02/2019 10:00	1.5	1.5	0.3	0.2	1.7	
03/02/2019 12:00	1.6	0.8	0.4	0.1	1.6	
03/02/2019 13:00	1.5	3.2	0.4	0.7	1.7	

Period Start:	Average	Average	Average	Average	Average	Notes
	10NOxCrOP1 ppm	10NOX#OP1H LBS	10COCorOP1 ppm	10CO#OP1HR LBS	10NH3CrNS1 ppm	
03/02/2019 14:00	1.4	2.3	0.3	0.3	1.9	
03/02/2019 15:00	1.5	2.3	0.3	0.3	1.6	
03/02/2019 16:00	1.5	2.2	0.3	0.3	1.8	
03/02/2019 17:00	1.7	3.0	0.4	0.6	1.8	
03/02/2019 18:00	1.8	6.6	1.3	2.9	1.8	
03/02/2019 19:00	1.3	2.0	0.3	0.3	1.9	
03/02/2019 20:00	1.6	2.5	0.5	0.6	1.9	
03/03/2019 18:00	1.6	3.1	0.4	0.6	2.1	
03/03/2019 19:00	1.5	0.5	0.2	0.0	1.7	
03/04/2019 06:00	1.5	2.6	0.4	0.5	1.7	
03/04/2019 07:00	1.6	0.5	0.3	0.1	1.7	
03/04/2019 10:00	1.2	1.3	0.7	0.6	2.3	
03/04/2019 11:00	1.5	0.5	0.1	0.0	2.1	
03/04/2019 16:00	1.6	0.5	0.2	0.0	1.8	
03/04/2019 17:00	1.8	2.0	0.3	0.2	1.9	
03/04/2019 18:00	1.9	6.9	1.3	2.8	1.8	
03/04/2019 19:00	1.9	6.9	1.2	2.6	1.9	
03/04/2019 20:00	1.3	4.4	0.8	1.6	2.1	
03/04/2019 21:00	1.5	4.7	0.7	1.4	1.6	
03/04/2019 22:00	1.5	2.1	0.5	0.4	1.5	
03/05/2019 06:00	1.6	0.5	0.3	0.1	1.9	
03/05/2019 07:00	1.5	1.1	0.3	0.1	1.9	
03/05/2019 09:00	1.4	3.4	1.2	1.8	1.9	
03/05/2019 10:00	1.5	5.1	1.1	2.3	1.8	
03/05/2019 11:00	1.6	5.6	1.2	2.6	1.9	
03/05/2019 12:00	1.4	4.6	0.8	1.8	2.0	
03/05/2019 13:00	1.6	5.5	1.2	2.7	1.9	
03/05/2019 14:00	1.5	5.2	1.1	2.4	2.0	
03/05/2019 15:00	1.5	1.3	1.1	0.5	2.0	
03/05/2019 18:00	1.5	2.5	0.3	0.3	1.9	
03/05/2019 19:00	1.5	1.4	0.3	0.2	2.0	
03/05/2019 21:00	1.5	1.9	0.3	0.2	1.9	
03/05/2019 22:00	1.4	1.3	0.3	0.1	1.8	
03/05/2019 23:00	1.5	2.0	0.3	0.2	1.9	
03/06/2019 08:00	1.5	1.9	0.4	0.3	1.8	
03/06/2019 10:00	1.6	0.5	0.2	0.0	1.8	
03/06/2019 11:00	1.5	2.2	0.2	0.2	1.8	
03/06/2019 12:00	1.5	2.1	0.3	0.2	1.9	
03/06/2019 13:00	1.5	2.0	0.2	0.2	1.9	
03/06/2019 18:00	1.4	3.5	1.0	1.7	1.9	
03/07/2019 13:00	1.5	1.7	0.2	0.1	1.9	
03/07/2019 14:00	1.5	2.0	0.2	0.2	1.9	
03/07/2019 18:00	1.9	6.7	1.0	2.2	1.6	
03/07/2019 19:00	1.4	4.2	0.6	1.4	2.0	
03/07/2019 20:00	1.4	0.4	0.0	0.0	1.6	
03/08/2019 13:00	1.5	2.5	0.0	0.1	1.7	
03/08/2019 14:00	1.5	1.9	0.0	0.0	1.7	
03/10/2019 10:00	1.4	2.8	0.0	0.0	1.7	
03/10/2019 11:00	1.5	2.6	0.0	0.0	1.7	
03/10/2019 13:00	1.5	1.5	0.0	0.0	2.0	
03/10/2019 14:00	1.5	2.2	0.0	0.0	2.0	
03/10/2019 16:00	1.6	0.4	0.0	0.0	1.6	
03/10/2019 17:00	1.5	1.2	0.0	0.0	1.7	
03/10/2019 18:00	1.5	2.4	0.1	0.2	1.8	
03/10/2019 19:00	1.5	1.9	0.0	0.0	1.5	
03/10/2019 20:00	1.5	0.9	0.0	0.0	1.9	
03/11/2019 05:00	2.2	3.5	0.9	0.9	1.6	
03/11/2019 06:00	1.4	4.0	0.2	0.4	2.0	
03/11/2019 07:00	1.3	1.4	0.2	0.2	2.3	
03/11/2019 10:00	1.7	1.8	0.0	0.0	1.7	
03/11/2019 11:00	1.5	2.9	0.1	0.1	2.0	
03/11/2019 12:00	1.4	3.1	0.2	0.3	1.9	
03/11/2019 13:00	1.5	3.4	0.0	0.1	1.7	
03/11/2019 14:00	1.4	4.5	0.8	1.7	1.8	
03/11/2019 15:00	1.5	2.3	0.0	0.0	1.7	
03/11/2019 16:00	1.5	3.0	0.2	0.4	1.8	
03/11/2019 17:00	1.5	3.3	0.1	0.3	1.8	
03/11/2019 18:00	1.6	5.2	0.8	1.7	2.0	
03/11/2019 19:00	1.6	4.2	0.6	1.2	1.8	
03/11/2019 20:00	1.4	2.5	0.0	0.0	1.7	
03/11/2019 21:00	1.7	2.5	0.8	0.8	1.9	
03/12/2019 06:00	1.8	6.2	1.2	2.4	1.7	

Period Start:	Average	Average	Average	Average	Average	Notes
	10NOxCrOP1 ppm	10NOX#OP1H LBS	10COCorOP1 ppm	10CO#OP1HR LBS	10NH3CrNS1 ppm	
03/12/2019 07:00	1.4	3.1	0.6	0.8	2.2	
03/12/2019 12:00	1.6	2.5	0.5	0.7	1.9	
03/12/2019 18:00	1.5	2.8	0.2	0.2	1.6	
03/12/2019 19:00	1.5	2.4	0.0	0.0	1.8	
03/12/2019 20:00	1.5	3.0	0.0	0.0	1.9	
03/13/2019 06:00	1.5	1.5	0.0	0.0	2.0	
03/13/2019 07:00	1.7	2.7	0.0	0.0	2.1	
03/13/2019 08:00	1.4	1.8	0.0	0.0	2.2	
03/13/2019 10:00	1.5	3.2	0.2	0.3	1.7	
03/13/2019 11:00	1.5	2.6	0.0	0.0	1.7	
03/13/2019 12:00	1.5	1.6	0.0	0.0	1.9	
03/13/2019 13:00	1.5	0.3	0.0	0.0	1.9	
03/13/2019 15:00	1.4	1.0	0.0	0.0	1.8	
03/13/2019 19:00	1.6	3.0	0.0	0.1	1.5	
03/13/2019 20:00	1.6	5.0	0.7	1.6	1.9	
03/13/2019 21:00	0.9	0.5	0.0	0.0	2.0	
03/14/2019 05:00	1.4	2.0	0.0	0.0	1.9	
03/14/2019 06:00	1.5	2.4	0.0	0.0	1.7	
03/14/2019 07:00	1.5	2.6	0.0	0.0	1.8	
03/14/2019 08:00	1.5	1.6	0.0	0.0	1.6	
03/14/2019 18:00	1.5	0.5	0.0	0.0	1.7	
03/14/2019 19:00	1.5	2.5	0.0	0.0	1.8	
03/14/2019 20:00	1.4	0.5	0.0	0.0	1.9	
03/15/2019 05:00	1.6	0.6	0.0	0.0	1.8	
03/15/2019 06:00	1.3	1.3	0.0	0.0	1.9	
03/15/2019 09:00	1.9	0.6	0.0	0.0	2.0	
03/15/2019 10:00	1.5	2.3	0.0	0.0	2.0	
03/15/2019 11:00	1.1	1.2	0.8	0.6	1.9	
03/15/2019 18:00	1.6	1.4	0.0	0.0	1.9	
03/16/2019 11:00	1.3	1.5	0.3	0.2	1.7	
03/16/2019 12:00	1.5	2.3	0.0	0.0	1.7	
03/16/2019 15:00	1.5	1.5	0.0	0.0	1.9	
03/16/2019 18:00	1.5	1.5	0.0	0.0	1.8	
03/17/2019 11:00	1.6	1.5	0.0	0.0	2.0	
03/17/2019 12:00	1.5	2.2	0.0	0.0	1.8	
03/17/2019 13:00	1.5	2.4	0.0	0.0	1.9	
03/17/2019 14:00	1.5	2.4	0.0	0.0	1.8	
03/17/2019 18:00	1.5	1.0	0.0	0.0	1.8	
03/17/2019 19:00	1.5	1.0	0.0	0.0	1.7	
03/18/2019 05:00	1.6	0.5	0.0	0.0	1.8	
03/18/2019 06:00	1.6	0.9	0.0	0.0	2.0	
03/18/2019 12:00	1.5	0.7	0.0	0.0	2.1	
03/18/2019 17:00	2.0	0.8	0.1	0.0	1.8	
03/18/2019 18:00	1.4	2.4	0.4	0.7	1.8	
03/18/2019 19:00	1.3	0.5	0.0	0.0	1.7	
03/19/2019 08:00	1.8	4.6	1.2	1.9	1.7	
03/19/2019 09:00	1.8	1.6	0.9	0.5	1.7	
03/19/2019 10:00	1.7	2.9	1.4	1.5	1.6	
03/19/2019 11:00	1.8	6.8	1.2	2.6	1.8	
03/19/2019 12:00	1.8	6.9	1.1	2.5	1.6	
03/19/2019 13:00	1.8	6.5	1.0	2.2	1.9	
03/19/2019 15:00	1.5	1.5	0.0	0.0	1.7	
03/19/2019 18:00	1.5	1.5	0.0	0.0	1.7	
03/20/2019 05:00	2.1	0.8	0.2	0.1	1.8	
03/20/2019 06:00	1.4	3.4	0.3	0.5	1.7	
03/20/2019 07:00	1.4	1.0	0.9	0.4	1.8	
03/20/2019 09:00	1.4	2.5	0.7	0.8	1.6	
03/20/2019 10:00	1.6	5.8	1.2	2.6	1.9	
03/20/2019 17:00	1.5	1.6	0.0	0.0	1.6	
03/20/2019 18:00	1.5	1.5	0.0	0.0	1.6	
03/20/2019 20:00	1.6	1.6	0.0	0.0	1.8	
03/20/2019 21:00	1.8	0.1	0.0	0.0	2.4	
03/21/2019 05:00	1.9	1.5	0.0	0.0	1.6	
03/21/2019 06:00	1.4	2.4	1.5	1.5	2.0	
03/21/2019 11:00	1.5	2.6	0.0	0.0	1.6	
03/22/2019 05:00	1.7	0.4	0.0	0.0	1.6	
03/22/2019 06:00	1.5	0.9	0.0	0.0	1.8	
03/22/2019 18:00	1.6	1.0	0.0	0.0	1.8	
03/22/2019 19:00	1.5	0.4	0.0	0.0	2.0	
03/23/2019 09:00	1.6	0.9	0.0	0.0	1.9	
03/23/2019 10:00	1.5	1.9	0.0	0.0	2.2	
03/23/2019 11:00	1.5	2.0	0.0	0.0	2.1	

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCorOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm	Notes
03/23/2019 12:00	1.5	2.0	0.1	0.1	2.0	
03/23/2019 13:00	1.6	2.3	0.0	0.0	1.9	
03/23/2019 14:00	1.5	3.5	0.0	0.1	2.1	
03/23/2019 15:00	1.4	2.6	0.1	0.2	2.1	
03/23/2019 16:00	1.5	2.6	0.0	0.0	1.8	
03/24/2019 07:00	1.6	1.5	0.0	0.0	1.8	
03/24/2019 11:00	1.5	1.8	0.0	0.0	2.0	
03/24/2019 12:00	1.5	2.4	0.0	0.0	1.9	
03/24/2019 13:00	1.5	2.1	0.0	0.0	1.9	
03/24/2019 14:00	1.5	2.0	0.0	0.0	1.8	
03/24/2019 18:00	1.6	3.4	0.2	0.3	1.9	
03/24/2019 19:00	1.4	2.9	0.2	0.3	2.2	
03/24/2019 20:00	1.5	1.1	0.0	0.0	2.0	
03/25/2019 05:00	1.5	0.4	0.0	0.0	1.8	
03/25/2019 06:00	2.1	0.5	0.1	0.0	2.1	
03/25/2019 09:00	1.6	0.5	0.0	0.0	1.8	
03/25/2019 10:00	1.5	0.9	0.0	0.0	1.6	
03/25/2019 17:00	1.6	0.9	0.0	0.0	1.3	
03/25/2019 18:00	1.5	2.8	0.1	0.1	1.4	
03/25/2019 19:00	1.5	2.2	0.0	0.0	1.5	
03/26/2019 05:00	1.4	1.4	0.0	0.0	1.6	
03/26/2019 06:00	1.5	1.8	0.0	0.0	1.5	
03/26/2019 18:00	1.5	2.0	0.0	0.0	1.4	
03/26/2019 19:00	1.4	2.3	0.0	0.0	1.4	
03/26/2019 20:00	1.5	2.3	0.0	0.0	1.3	
03/26/2019 21:00	1.5	0.9	0.0	0.0	1.5	
03/27/2019 05:00	1.5	1.5	0.0	0.0	1.5	
03/27/2019 06:00	1.6	2.2	0.0	0.0	1.5	
03/28/2019 08:00	1.5	1.1	0.0	0.0	1.6	
03/28/2019 10:00	1.5	1.4	0.0	0.0	1.5	
03/28/2019 11:00	1.4	2.4	0.2	0.3	1.5	
03/28/2019 12:00	1.6	2.2	0.0	0.0	1.5	
03/28/2019 13:00	1.5	2.3	0.0	0.0	1.5	
03/28/2019 18:00	1.5	0.5	0.0	0.0	1.3	
03/28/2019 19:00	1.5	1.0	0.0	0.0	1.3	
03/29/2019 06:00	1.5	1.5	0.0	0.0	1.5	
03/29/2019 12:00	1.5	1.3	0.0	0.0	1.5	
03/30/2019 05:00	1.6	1.5	0.0	0.0	1.2	
03/30/2019 06:00	1.5	2.2	0.0	0.0	1.5	
03/30/2019 07:00	1.5	2.0	0.1	0.0	1.2	
03/30/2019 09:00	1.5	0.5	0.0	0.0	N/A	
03/30/2019 10:00	1.5	0.4	0.0	0.0	1.7	
03/30/2019 11:00	1.5	1.1	0.0	0.0	1.7	
03/30/2019 12:00	1.5	2.2	0.0	0.0	1.5	
03/30/2019 17:00	1.5	0.5	0.0	0.0	1.2	
03/30/2019 18:00	1.5	2.0	0.0	0.0	1.1	
03/31/2019 07:00	1.5	1.5	0.0	0.0	1.3	
03/31/2019 08:00	1.5	2.5	0.0	0.0	1.6	
03/31/2019 09:00	1.5	2.3	0.1	0.1	1.8	
03/31/2019 11:00	1.5	1.7	0.1	0.1	1.5	
03/31/2019 12:00	1.5	2.0	0.1	0.1	1.6	
03/31/2019 17:00	1.6	2.4	1.5	1.5	1.8	
03/31/2019 18:00	1.4	2.3	0.1	0.1	1.5	
03/31/2019 19:00	1.5	3.0	0.2	0.5	1.7	
03/31/2019 20:00	1.4	1.0	0.0	0.0	1.7	
Final Average*	1.5	2.2	0.3	0.4	1.8	
Maximum*	7.1	6.9	2.4	4.5	2.4	
	01/23/2019	03/19/2019	02/12/2019	02/21/2019	03/20/2019	
	6:00	12:00	14:00	21:00	21:00	
Minimum*	0.8	0.1	0.0	0.0	1.1	
	01/21/2019	03/20/2019	03/31/2019	03/31/2019	03/30/2019	
	8:00	21:00	20:00	20:00	18:00	

* Does not include Invalid Averaging Periods ("N/A")

Attachment E CEMS Startup/Shutdown Report:

AQ-40: NO_x, CO, and VOC Pound Per Startup Summary

AQ-41: NO_x, CO, and VOC Pound Per Shutdown Summary

Startup / ShutDown Report
 Generated: 4/23/2019 06:38
 StartUp/ShutDown Event Report NRG Carlsbad Unit 6
 Carlsbad Unit 6

Company: NRG Carlsbad
 Plant: 4600 Carlsbad Blvd
 City/St: Carlsbad, CA 92008

Period Start: 1/1/2019 00:00
 Period End: 3/31/2019 23:59
 Unit Name: Unit6

Events	Time	Duration (min)	Total		Total		Total		Total		NOx Lbs/Event	CO Lbs/Event
			6_GasFlow (kscfh)	Valid Mins	6Gross_MW (MW)	Valid Mins	6COLBHR (LBHR)	Valid Mins	6NOXLBHR (LBHR)	Valid Mins		
START_UP	01/01/2019 18:40 ~ 01/01/2019 19:04	25	8313.501	25	612.3	25	106.733	21	273.471	21	4.56	1.78
SHUT_DOWN	01/01/2019 20:29 ~ 01/01/2019 20:41	13	2225.2	13	67.6	13	0	13	26.211	13	0.44	0.00
START_UP	01/02/2019 11:26 ~ 01/02/2019 11:50	25	17134.6	25	1895	25	126.661	25	540.933	25	9.02	2.11
SHUT_DOWN	01/02/2019 13:43 ~ 01/02/2019 13:55	13	2110.5	13	56.9	13	0	13	22.01	13	0.37	0.00
START_UP	01/02/2019 16:53 ~ 01/02/2019 17:17	25	7820	25	559.5	25	133.595	25	147.849	25	2.46	2.23
SHUT_DOWN	01/02/2019 19:59 ~ 01/02/2019 20:11	13	2025.2	13	46.1	13	0	13	21.116	13	0.35	0.00
START_UP	01/03/2019 17:24 ~ 01/03/2019 17:48	25	13523.4	25	1368.2	25	84.661	25	412.415	25	6.87	1.41
SHUT_DOWN	01/03/2019 18:28 ~ 01/03/2019 18:40	13	2117.5	13	56.4	13	0.995	13	18.348	13	0.31	0.02
START_UP	01/04/2019 18:09 ~ 01/04/2019 18:33	25	11980.6	25	1125.2	25	113.087	18	297.134	18	4.95	1.88
SHUT_DOWN	01/04/2019 20:29 ~ 01/04/2019 20:41	13	2241.9	13	74.3	13	0	13	17.72	13	0.30	0.00
START_UP	01/04/2019 21:53 ~ 01/04/2019 22:17	25	8712.2	25	670.4	25	112.6	25	79.37	25	1.32	1.88
SHUT_DOWN	01/04/2019 22:59 ~ 01/04/2019 23:11	13	2089.8	13	55.4	13	0	13	17.628	13	0.29	0.00
START_UP	01/05/2019 07:24 ~ 01/05/2019 07:48	25	10674.2	25	942.2	25	80.387	23	266.986	23	4.45	1.34
SHUT_DOWN	01/05/2019 08:30 ~ 01/05/2019 08:42	13	2307.6	13	82.2	13	0	13	18.476	13	0.31	0.00
START_UP	01/06/2019 08:39 ~ 01/06/2019 09:03	25	19038.2	25	2147.7	25	87.351	18	368.218	18	6.14	1.46
SHUT_DOWN	01/06/2019 09:44 ~ 01/06/2019 09:56	13	2881.6	13	160.7	13	0.861	13	15.197	13	0.25	0.01
START_UP	01/06/2019 16:24 ~ 01/06/2019 16:48	25	11546.3	25	1055.3	25	57.946	25	236.256	25	3.94	0.97
SHUT_DOWN	01/06/2019 17:29 ~ 01/06/2019 17:41	13	2248.1	13	75.1	13	0.145	13	16.723	13	0.28	0.00
START_UP	01/07/2019 05:54 ~ 01/07/2019 06:18	25	10701.5	25	941.7	25	105.34	25	277.402	25	4.62	1.76
SHUT_DOWN	01/07/2019 08:29 ~ 01/07/2019 08:41	13	2321.3	13	82.5	13	1.082	13	17.554	13	0.29	0.02
START_UP	01/07/2019 15:54 ~ 01/07/2019 16:18	25	8179.5	25	589.9	25	69.657	25	204.639	25	3.41	1.16
SHUT_DOWN	01/07/2019 18:58 ~ 01/07/2019 19:10	13	2191.6	13	65.9	13	0.675	13	16.006	13	0.27	0.01
START_UP	01/07/2019 19:55 ~ 01/07/2019 20:19	25	11169.6	25	1003	25	16.846	25	89.233	25	1.49	0.28
SHUT_DOWN	01/07/2019 22:29 ~ 01/07/2019 22:41	13	2292.6	13	80	13	1.692	13	18.405	13	0.31	0.03
START_UP	01/08/2019 05:54 ~ 01/08/2019 06:18	25	8711.5	25	662.1	25	79.871	24	218.759	24	3.65	1.33
SHUT_DOWN	01/08/2019 07:58 ~ 01/08/2019 08:10	13	2171.2	13	59.2	13	0.907	13	18.596	13	0.31	0.02
START_UP	01/08/2019 15:39 ~ 01/08/2019 16:03	25	16777.8	25	1843.5	25	62.409	25	350.552	25	5.84	1.04
SHUT_DOWN	01/08/2019 19:13 ~ 01/08/2019 19:25	13	2126.8	13	57.5	13	0.491	13	17.691	13	0.29	0.01
START_UP	01/09/2019 05:54 ~ 01/09/2019 06:18	25	8646.701	25	650	25	89.667	25	229.039	25	3.82	1.49
SHUT_DOWN	01/09/2019 07:58 ~ 01/09/2019 08:10	13	2145.3	13	56.5	13	0.843	13	17.681	13	0.29	0.01
START_UP	01/09/2019 15:54 ~ 01/09/2019 16:18	25	8764.201	25	663.9	25	82.004	25	201.534	25	3.36	1.37
SHUT_DOWN	01/09/2019 16:59 ~ 01/09/2019 17:11	13	2014.7	13	44.7	13	0.121	13	14.188	13	0.24	0.00
START_UP	01/09/2019 19:53 ~ 01/09/2019 20:17	25	8168.9	25	590.4	25	90.515	25	149.392	25	2.49	1.51
SHUT_DOWN	01/09/2019 22:13 ~ 01/09/2019 22:25	13	2209.2	13	67.3	13	0.203	13	15.868	13	0.26	0.00
START_UP	01/10/2019 05:55 ~ 01/10/2019 06:19	25	9244.7	25	725.5	25	233.061	25	225.954	25	3.77	3.88
SHUT_DOWN	01/10/2019 08:29 ~ 01/10/2019 08:41	13	2008.3	13	46.1	13	0	13	15.859	13	0.26	0.00
START_UP	01/10/2019 15:54 ~ 01/10/2019 16:18	25	8041.9	25	570	25	74.467	25	198.194	25	3.30	1.24
SHUT_DOWN	01/10/2019 16:58 ~ 01/10/2019 17:10	13	2104.5	13	55.1	13	0.043	13	14.544	13	0.24	0.00
START_UP	01/10/2019 19:53 ~ 01/10/2019 20:17	25	9080.399	25	711.3	25	80.263	25	171.475	25	2.86	1.34
SHUT_DOWN	01/10/2019 22:29 ~ 01/10/2019 22:41	13	2057.8	13	49.9	13	1.129	13	14.809	13	0.25	0.02
START_UP	01/11/2019 05:54 ~ 01/11/2019 06:18	25	7982.199	25	571.1	25	178.249	15	189.652	15	3.16	2.97

SHUT_DOWN	01/11/2019	08:29	~	01/11/2019	08:41	13	1985.6	13	41	13	0	13	16.801	13	0.28	0.00
START_UP	01/11/2019	16:48	~	01/11/2019	17:12	25	8209.101	25	591.1	25	73.525	25	206.832	25	3.45	1.23
SHUT_DOWN	01/11/2019	21:28	~	01/11/2019	21:40	13	2124.2	13	55.9	13	0.043	13	15.519	13	0.26	0.00
START_UP	01/12/2019	16:54	~	01/12/2019	17:18	25	8052.501	25	576.6	25	99.179	20	210.114	20	3.50	1.65
SHUT_DOWN	01/12/2019	21:43	~	01/12/2019	21:55	13	2116	13	54.7	13	0	13	17.48	13	0.29	0.00
START_UP	01/13/2019	06:54	~	01/13/2019	07:18	25	8620.1	25	638.1	25	77.733	17	199.525	17	3.33	1.30
SHUT_DOWN	01/13/2019	07:59	~	01/13/2019	08:11	13	2247.1	13	73	13	0	13	19.402	13	0.32	0.00
START_UP	01/13/2019	15:54	~	01/13/2019	16:18	25	8157.999	25	585.1	25	92.22	24	194.287	25	3.24	1.54
SHUT_DOWN	01/13/2019	21:58	~	01/13/2019	22:10	13	2050	13	49.1	13	0.118	13	18.342	13	0.31	0.00
START_UP	01/14/2019	05:54	~	01/14/2019	06:18	25	11103.7	25	987.9	25	70.08	14	223.18	14	3.72	1.17
SHUT_DOWN	01/14/2019	22:28	~	01/14/2019	22:40	13	2059.3	13	51	13	0	13	15.669	13	0.26	0.00
START_UP	01/15/2019	05:56	~	01/15/2019	06:20	25	11258.1	25	1015.9	25	65.115	18	223.697	18	3.73	1.09
SHUT_DOWN	01/15/2019	22:13	~	01/15/2019	22:25	13	2120.9	13	57.5	13	0	13	16	13	0.27	0.00
START_UP	01/16/2019	05:54	~	01/16/2019	06:18	25	8101.901	25	581.6	25	0.166	4	7.595	4	0.13	0.00
SHUT_DOWN	01/16/2019	09:29	~	01/16/2019	09:41	13	2079.2	13	52.2	13	0	13	14.886	13	0.25	0.00
START_UP	01/16/2019	14:24	~	01/16/2019	14:48	25	8385.2	25	615.2	25	57.443	25	186.862	25	3.11	0.96
SHUT_DOWN	01/16/2019	22:43	~	01/16/2019	22:55	13	2216.8	13	70	13	0	13	11.387	13	0.19	0.00
START_UP	01/17/2019	05:53	~	01/17/2019	06:17	25	7906.5	25	571.3	25	218.953	25	190.363	25	3.17	3.65
SHUT_DOWN	01/17/2019	08:58	~	01/17/2019	09:10	13	2181.8	13	65.3	13	0	13	15.876	13	0.26	0.00
START_UP	01/17/2019	16:09	~	01/17/2019	16:33	25	8150.8	25	583.5	25	61.712	24	190.935	25	3.18	1.03
SHUT_DOWN	01/17/2019	19:58	~	01/17/2019	20:10	13	2117	13	55	13	0	13	8.411	13	0.14	0.00
START_UP	01/17/2019	21:53	~	01/17/2019	22:17	25	8861.801	25	678.8	25	105.16	25	77.975	25	1.30	1.75
SHUT_DOWN	01/17/2019	22:58	~	01/17/2019	23:10	13	2089.4	13	52.1	13	0	13	13.521	13	0.23	0.00
START_UP	01/18/2019	05:54	~	01/18/2019	06:18	25	10254.5	25	875.1	25	98.232	25	245.929	25	4.10	1.64
SHUT_DOWN	01/18/2019	07:58	~	01/18/2019	08:10	13	2080.7	13	49.3	13	0	13	14.99	13	0.25	0.00
START_UP	01/18/2019	17:09	~	01/18/2019	17:33	25	8103.3	25	581.2	25	74.907	25	195.347	25	3.26	1.25
SHUT_DOWN	01/18/2019	19:44	~	01/18/2019	19:56	13	2247.7	13	71.9	13	2.022	13	13.952	13	0.23	0.03
START_UP	01/18/2019	21:53	~	01/18/2019	22:17	25	7983.8	25	560.7	25	109.941	25	71.56	25	1.19	1.83
SHUT_DOWN	01/18/2019	23:43	~	01/18/2019	23:55	13	2159	13	59.8	13	1.337	13	17.239	13	0.29	0.02
START_UP	01/19/2019	16:24	~	01/19/2019	16:48	25	8344.1	25	613.7	25	129.633	25	228.042	25	3.80	2.16
SHUT_DOWN	01/19/2019	21:43	~	01/19/2019	21:55	13	2116.1	13	57	13	1.782	13	16.021	13	0.27	0.03
START_UP	01/20/2019	06:09	~	01/20/2019	06:33	25	8033.701	25	574.8	25	204.458	25	197.911	25	3.30	3.41
SHUT_DOWN	01/20/2019	07:28	~	01/20/2019	07:40	13	2097.1	13	51.9	13	1.179	13	18.446	13	0.31	0.02
START_UP	01/20/2019	15:39	~	01/20/2019	16:03	25	11548.8	25	1077.2	25	73.167	25	359.023	25	5.98	1.22
SHUT_DOWN	01/20/2019	18:59	~	01/20/2019	19:11	13	2267.7	13	75.6	13	2.329	13	10.775	13	0.18	0.04
START_UP	01/21/2019	05:54	~	01/21/2019	06:18	25	8223.7	25	596.7	25	86.031	25	210.59	25	3.51	1.43
SHUT_DOWN	01/21/2019	08:43	~	01/21/2019	08:55	13	2112	13	56.4	13	1.508	13	16.387	13	0.27	0.03
START_UP	01/21/2019	16:24	~	01/21/2019	16:48	25	11944.6	25	1128.4	25	119.154	25	310.309	25	5.17	1.99
SHUT_DOWN	01/21/2019	22:28	~	01/21/2019	22:40	13	2272.8	13	75.2	13	2.465	13	18	13	0.30	0.04
START_UP	01/22/2019	05:54	~	01/22/2019	06:18	25	8631.3	25	647.8	25	79.322	25	200.44	25	3.34	1.32
SHUT_DOWN	01/22/2019	07:58	~	01/22/2019	08:10	13	2110.4	13	57.7	13	2.351	13	18.35	13	0.31	0.04
START_UP	01/22/2019	15:24	~	01/22/2019	15:48	25	16314.3	25	1796.4	25	70.058	25	304.548	25	5.08	1.17
SHUT_DOWN	01/22/2019	21:13	~	01/22/2019	21:25	13	2000.7	13	41.4	13	1.98	13	24.096	13	0.40	0.03
START_UP	01/23/2019	05:54	~	01/23/2019	06:18	25	10970.7	25	963.7	25	73.899	25	244.58	25	4.08	1.23
SHUT_DOWN	01/23/2019	09:28	~	01/23/2019	09:40	13	2070	13	50.5	13	1.228	13	21.719	13	0.36	0.02
START_UP	01/23/2019	13:23	~	01/23/2019	13:47	25	12992	25	1273.4	25	71.197	21	205.125	21	3.42	1.19
SHUT_DOWN	01/23/2019	15:14	~	01/23/2019	15:26	13	2212.5	13	70.3	13	1.643	13	16.821	13	0.28	0.03
START_UP	01/23/2019	16:39	~	01/23/2019	17:03	25	17447	25	1963.9	25	131.517	25	140.194	25	2.34	2.19
SHUT_DOWN	01/23/2019	19:58	~	01/23/2019	20:10	13	2084.4	13	53.4	13	0.58	13	18.682	13	0.31	0.01
START_UP	01/24/2019	05:54	~	01/24/2019	06:18	25	8360.899	25	617.6	25	197.361	25	217.513	25	3.63	3.29
SHUT_DOWN	01/24/2019	07:58	~	01/24/2019	08:10	13	2082.5	13	53.8	13	0	13	18.54	13	0.31	0.00
START_UP	01/24/2019	13:39	~	01/24/2019	14:03	25	8733.899	25	671.2	25	81.104	25	164.398	25	2.74	1.35
SHUT_DOWN	01/24/2019	14:44	~	01/24/2019	14:56	13	2024.5	13	46.6	13	0.409	13	4.984	13	0.08	0.01
START_UP	01/24/2019	17:53	~	01/24/2019	18:17	25	8419.801	25	641.8	25	142.262	25	119.731	25	2.00	2.37

SHUT_DOWN	01/24/2019	19:13	~	01/24/2019	19:25	13	2158.4	13	61.4	13	0	13	16.833	13	0.28	0.00
START_UP	01/25/2019	05:54	~	01/25/2019	06:18	25	8775.8	25	680	25	91.684	25	228.661	25	3.81	1.53
SHUT_DOWN	01/25/2019	23:59	~	01/26/2019	00:11	13	2239.1	13	73.5	13	1.226	13	22.94	13	0.38	0.02
START_UP	01/26/2019	05:54	~	01/26/2019	06:18	25	8130.9	25	585.5	25	70.275	25	177.295	25	2.95	1.17
SHUT_DOWN	01/26/2019	06:58	~	01/26/2019	07:10	13	2256	13	73.6	13	1.325	13	18.03	13	0.30	0.02
START_UP	01/26/2019	16:39	~	01/26/2019	17:03	25	11495.1	25	1054.9	25	88.841	25	243.691	25	4.06	1.48
SHUT_DOWN	01/26/2019	19:43	~	01/26/2019	19:55	13	2109.6	13	57.4	13	1.853	13	18.07	13	0.30	0.03
START_UP	01/27/2019	08:24	~	01/27/2019	08:48	25	8163	25	591.9	25	78.591	22	207.299	22	3.45	1.31
SHUT_DOWN	01/27/2019	09:28	~	01/27/2019	09:40	13	2070.8	13	51.9	13	1.835	13	18.531	13	0.31	0.03
START_UP	01/27/2019	16:24	~	01/27/2019	16:48	25	8269.499	25	614.9	25	91.149	25	188.653	25	3.14	1.52
SHUT_DOWN	01/27/2019	20:13	~	01/27/2019	20:25	13	2148	13	61.6	13	2.504	13	18.579	13	0.31	0.04
START_UP	01/28/2019	06:24	~	01/28/2019	06:48	25	13350.2	25	1353.5	25	199.181	25	268.364	25	4.47	3.32
SHUT_DOWN	01/28/2019	07:59	~	01/28/2019	08:11	13	2205.8	13	70	13	2.632	13	16.393	13	0.27	0.04
START_UP	01/28/2019	12:53	~	01/28/2019	13:17	25	10758	25	952.9	25	76.671	25	193.775	25	3.23	1.28
SHUT_DOWN	01/28/2019	14:59	~	01/28/2019	15:11	13	2204.2	13	70.3	13	3.3	13	12.794	13	0.21	0.06
START_UP	01/28/2019	17:58	~	01/28/2019	18:22	25	13175.6	25	1328.5	25	192.123	25	187.309	25	3.12	3.20
SHUT_DOWN	01/28/2019	19:29	~	01/28/2019	19:41	13	1966.9	13	42.5	13	2.964	13	9.798	13	0.16	0.05
START_UP	01/29/2019	06:24	~	01/29/2019	06:48	25	7925.199	25	571.1	25	75.987	25	203.594	25	3.39	1.27
SHUT_DOWN	01/29/2019	07:28	~	01/29/2019	07:40	13	2076.8	13	54.8	13	2.022	13	16.639	13	0.28	0.03
START_UP	01/29/2019	17:08	~	01/29/2019	17:32	25	13797.1	25	1443.8	25	67.292	19	221.455	19	3.69	1.12
SHUT_DOWN	01/29/2019	22:58	~	01/29/2019	23:10	13	2025.7	13	49.4	13	2.818	13	14.41	13	0.24	0.05
START_UP	01/30/2019	05:53	~	01/30/2019	06:17	25	9234.3	25	758.7	25	173.414	25	211.086	25	3.52	2.89
SHUT_DOWN	01/30/2019	08:58	~	01/30/2019	09:10	13	2073.6	13	54.2	13	2.949	13	15.475	13	0.26	0.05
START_UP	01/30/2019	16:07	~	01/30/2019	16:31	25	8669.899	25	685.6	25	198.833	25	203.874	25	3.40	3.31
SHUT_DOWN	01/30/2019	22:58	~	01/30/2019	23:10	13	2068.5	13	53	13	3.151	13	15.18	13	0.25	0.05
START_UP	01/31/2019	06:05	~	01/31/2019	06:29	25	7828.8	25	563.7	25	132.552	10	158.065	10	2.63	2.21
SHUT_DOWN	01/31/2019	08:58	~	01/31/2019	09:10	13	1988.5	13	43.7	13	3.025	13	14.299	13	0.24	0.05
START_UP	01/31/2019	16:39	~	01/31/2019	17:03	25	10554.7	25	943.6	25	204.92	25	212.622	25	3.54	3.42
SHUT_DOWN	01/31/2019	20:13	~	01/31/2019	20:25	13	2045.5	13	50.6	13	3.241	13	13.029	13	0.22	0.05
START_UP	01/31/2019	21:08	~	01/31/2019	21:32	25	11310.9	25	1034.3	25	68.871	25	98.771	25	1.65	1.15
SHUT_DOWN	01/31/2019	22:59	~	01/31/2019	23:11	13	2190.9	13	68.7	13	3.436	13	15.569	13	0.26	0.06
START_UP	02/01/2019	05:54	~	02/01/2019	06:18	25	8451.801	25	629.6	25	210.725	25	191.907	25	3.20	3.51
SHUT_DOWN	02/01/2019	07:58	~	02/01/2019	08:10	13	2117.8	13	58.1	13	3.417	13	17.6	13	0.29	0.06
START_UP	02/01/2019	16:23	~	02/01/2019	16:47	25	8368.101	25	633.3	25	222.18	24	212.126	24	3.54	3.70
SHUT_DOWN	02/01/2019	18:58	~	02/01/2019	19:10	13	2120.9	13	59.4	13	0	13	15.589	13	0.26	0.00
START_UP	02/02/2019	06:53	~	02/02/2019	07:17	25	9148.1	25	738.9	25	179.974	12	186.293	12	3.10	3.00
SHUT_DOWN	02/02/2019	21:58	~	02/02/2019	22:10	13	2197.5	13	72.5	13	0	13	16.374	13	0.27	0.00
START_UP	02/03/2019	16:54	~	02/03/2019	17:18	25	10793.5	25	967.6	25	53.652	25	238.852	25	3.98	0.89
SHUT_DOWN	02/03/2019	21:59	~	02/03/2019	22:11	13	2120.8	13	62.2	13	0	13	15.83	13	0.26	0.00
START_UP	02/04/2019	05:54	~	02/04/2019	06:18	25	7987.301	25	577.4	25	66.955	25	177.662	25	2.96	1.12
SHUT_DOWN	02/04/2019	10:59	~	02/04/2019	11:11	13	2178.8	13	68.2	13	0	13	16.235	13	0.27	0.00
START_UP	02/04/2019	15:28	~	02/04/2019	15:52	25	17928.9	25	2051.6	25	144.404	25	303.035	25	5.05	2.41
SHUT_DOWN	02/04/2019	23:58	~	02/05/2019	00:10	13	2157.1	13	64.1	13	0	13	19.276	13	0.32	0.00
START_UP	02/05/2019	05:54	~	02/05/2019	06:18	25	11009.9	25	992.2	25	54.92	25	239.434	25	3.99	0.92
SHUT_DOWN	02/05/2019	08:13	~	02/05/2019	08:25	13	2060.7	13	54.3	13	0	13	17.624	13	0.29	0.00
START_UP	02/05/2019	16:24	~	02/05/2019	16:48	25	7926.3	25	577.8	25	92.808	25	192.186	25	3.20	1.55
SHUT_DOWN	02/05/2019	22:13	~	02/05/2019	22:25	13	2029.3	13	50.5	13	0	13	28.243	13	0.47	0.00
START_UP	02/06/2019	06:09	~	02/06/2019	06:33	25	14584.2	25	1561.5	25	74.186	25	350.352	25	5.84	1.24
SHUT_DOWN	02/06/2019	07:58	~	02/06/2019	08:10	13	2044.2	13	50.5	13	0	13	31.478	13	0.52	0.00
START_UP	02/06/2019	17:24	~	02/06/2019	17:48	25	9221.001	25	753.2	25	86.315	25	249.33	25	4.16	1.44
SHUT_DOWN	02/06/2019	20:58	~	02/06/2019	21:10	13	2082.3	13	53.2	13	0	13	30.888	13	0.51	0.00
START_UP	02/07/2019	05:54	~	02/07/2019	06:18	25	8126.4	25	592.3	25	97.496	25	203.904	25	3.40	1.62
SHUT_DOWN	02/07/2019	07:43	~	02/07/2019	07:55	13	2082.3	13	54.4	13	0	13	30.326	13	0.51	0.00
START_UP	02/07/2019	18:04	~	02/07/2019	18:28	25	10034.4	25	873.7	25	130.351	18	182.46	18	3.04	2.17

SHUT_DOWN	02/07/2019	19:43	~	02/07/2019	19:55	13	2191.4	13	66.2	13	0.08	13	21.906	13	0.37	0.00
START_UP	02/08/2019	05:54	~	02/08/2019	06:18	25	11706.1	25	1116.5	25	83.839	25	243.299	25	4.05	1.40
SHUT_DOWN	02/08/2019	07:28	~	02/08/2019	07:40	13	2142.3	13	59.2	13	0	13	23.298	13	0.39	0.00
START_UP	02/08/2019	17:49	~	02/08/2019	18:13	25	8145.999	25	585.7	25	117.765	25	193.134	25	3.22	1.96
SHUT_DOWN	02/08/2019	19:58	~	02/08/2019	20:10	13	2119.5	13	57.4	13	0	13	19.717	13	0.33	0.00
START_UP	02/09/2019	06:09	~	02/09/2019	06:33	25	8007.5	25	571.5	25	78.733	25	197.981	25	3.30	1.31
SHUT_DOWN	02/09/2019	07:13	~	02/09/2019	07:25	13	2066.4	13	51	13	0	13	18.133	13	0.30	0.00
START_UP	02/12/2019	05:54	~	02/12/2019	06:18	25	8143.5	25	579.7	25	91.705	25	236.567	25	3.94	1.53
SHUT_DOWN	02/12/2019	07:59	~	02/12/2019	08:11	13	2003.6	13	43.7	13	0	13	23.392	13	0.39	0.00
START_UP	02/12/2019	14:39	~	02/12/2019	15:03	25	9397.8	25	753.2	25	70.339	25	201.503	25	3.36	1.17
SHUT_DOWN	02/12/2019	22:58	~	02/12/2019	23:10	13	2094.9	13	54.7	13	0	13	22.251	13	0.37	0.00
START_UP	02/13/2019	05:54	~	02/13/2019	06:18	25	8624.7	25	646.7	25	48.321	25	197.579	25	3.29	0.81
SHUT_DOWN	02/13/2019	09:58	~	02/13/2019	10:10	13	2063.4	13	50.1	13	0	13	18.833	13	0.31	0.00
START_UP	02/13/2019	14:53	~	02/13/2019	15:17	25	8232	25	589.1	25	59.31	25	163.747	25	2.73	0.99
SHUT_DOWN	02/13/2019	22:58	~	02/13/2019	23:10	13	2096.1	13	54.5	13	0	13	14.042	13	0.23	0.00
START_UP	02/14/2019	05:54	~	02/14/2019	06:18	25	8185.201	25	591.5	25	84.205	12	149.219	12	2.49	1.40
SHUT_DOWN	02/14/2019	23:58	~	02/15/2019	00:10	13	2130.4	13	58.6	13	0	13	18.355	13	0.31	0.00
START_UP	02/15/2019	05:54	~	02/15/2019	06:18	25	8440.8	25	626.5	25	68.839	25	181.425	25	3.02	1.15
SHUT_DOWN	02/15/2019	10:58	~	02/15/2019	11:10	13	2069.5	13	50.5	13	0	13	17.681	13	0.29	0.00
START_UP	02/15/2019	13:53	~	02/15/2019	14:17	25	8933.101	25	687.3	25	67.535	25	145.773	25	2.43	1.13
SHUT_DOWN	02/15/2019	22:58	~	02/15/2019	23:10	13	2087.7	13	51.3	13	0	13	19	13	0.32	0.00
START_UP	02/16/2019	09:24	~	02/16/2019	09:48	25	16616.2	25	1808.8	25	87.424	25	332.315	25	5.54	1.46
SHUT_DOWN	02/16/2019	14:14	~	02/16/2019	14:26	13	2720.8	13	134.4	13	0.459	13	19.401	13	0.32	0.01
START_UP	02/16/2019	16:53	~	02/16/2019	17:17	25	12127.2	25	1140.3	25	78.077	25	109.01	25	1.82	1.30
SHUT_DOWN	02/16/2019	23:14	~	02/16/2019	23:26	13	2263.7	13	76.8	13	0	13	20.874	13	0.35	0.00
START_UP	02/17/2019	09:49	~	02/17/2019	10:13	25	12560.4	25	1207.9	25	78.599	25	289.29	25	4.82	1.31
SHUT_DOWN	02/17/2019	23:58	~	02/18/2019	00:10	13	2364.8	13	88.6	13	0	13	19.466	13	0.32	0.00
START_UP	02/18/2019	05:54	~	02/18/2019	06:18	25	8761.1	25	674.7	25	80.643	25	190.242	25	3.17	1.34
SHUT_DOWN	02/18/2019	09:58	~	02/18/2019	10:10	13	2106.1	13	56.8	13	0	13	24.572	13	0.41	0.00
START_UP	02/18/2019	15:54	~	02/18/2019	16:18	25	8256.6	25	609.6	25	68.23	25	177.937	25	2.97	1.14
SHUT_DOWN	02/18/2019	19:13	~	02/18/2019	19:25	13	2080.9	13	52.3	13	0	13	21.477	13	0.36	0.00
START_UP	02/18/2019	20:53	~	02/18/2019	21:17	25	8103.9	25	580.9	25	83.443	25	67.836	25	1.13	1.39
SHUT_DOWN	02/18/2019	23:58	~	02/19/2019	00:10	13	2064.2	13	50.4	13	0	13	24.44	13	0.41	0.00
START_UP	02/19/2019	05:54	~	02/19/2019	06:18	25	8520.4	25	639.8	25	77.406	17	187.787	17	3.13	1.29
SHUT_DOWN	02/19/2019	07:58	~	02/19/2019	08:10	13	2033.2	13	47.7	13	0	13	20.591	13	0.34	0.00
START_UP	02/19/2019	16:54	~	02/19/2019	17:18	25	3154.4	25	0	25	87.915	25	128.159	25	2.14	1.47
SHUT_DOWN	02/19/2019	17:19	~	02/19/2019	17:21	3	380	3	0	3	0	3	4.339	3	0.07	0.00
START_UP	02/19/2019	21:41	~	02/19/2019	21:58	18	2213.5	18	0	18	155.545	18	107.83	18	1.80	2.59
START_UP	02/20/2019	15:54	~	02/20/2019	16:18	25	11510.6	25	1081.4	25	80.662	25	337.491	25	5.62	1.34
SHUT_DOWN	02/20/2019	21:58	~	02/20/2019	22:10	13	2015.9	13	48.2	13	0	13	17.211	13	0.29	0.00
START_UP	02/21/2019	17:50	~	02/21/2019	18:14	25	15748.5	25	1697.8	25	81.413	25	305.404	25	5.09	1.36
SHUT_DOWN	02/21/2019	22:58	~	02/21/2019	23:10	13	2039.8	13	50.1	13	0	13	22.52	13	0.38	0.00
START_UP	02/22/2019	05:54	~	02/22/2019	06:18	25	8053.601	25	582	25	93.435	25	186.181	25	3.10	1.56
SHUT_DOWN	02/22/2019	08:58	~	02/22/2019	09:10	13	2118.7	13	57.3	13	0	13	20.996	13	0.35	0.00
START_UP	02/22/2019	17:24	~	02/22/2019	17:48	25	18786.2	25	2134.4	25	111.687	25	395.701	25	6.60	1.86
SHUT_DOWN	02/22/2019	23:13	~	02/22/2019	23:25	13	2050.3	13	48.5	13	0	13	24.214	13	0.40	0.00
START_UP	02/23/2019	05:54	~	02/23/2019	06:18	25	8062	25	576.6	25	100.99	25	183.194	25	3.05	1.68
SHUT_DOWN	02/23/2019	07:58	~	02/23/2019	08:10	13	2099.8	13	54.1	13	0	13	19.054	13	0.32	0.00
START_UP	02/23/2019	11:38	~	02/23/2019	12:02	25	9514.6	25	789.9	25	102.997	25	199.939	25	3.33	1.72
SHUT_DOWN	02/23/2019	22:58	~	02/23/2019	23:10	13	1981.6	13	41.5	13	0	13	23.081	13	0.38	0.00
START_UP	02/24/2019	05:54	~	02/24/2019	06:18	25	9222.101	25	738.7	25	93.977	25	204.556	25	3.41	1.57
SHUT_DOWN	02/24/2019	07:59	~	02/24/2019	08:11	13	2110.2	13	58.4	13	0	13	23.117	13	0.39	0.00
START_UP	02/24/2019	16:24	~	02/24/2019	16:48	25	8141.199	25	594.4	25	70.371	25	182.521	25	3.04	1.17
SHUT_DOWN	02/24/2019	22:58	~	02/24/2019	23:10	13	2028.9	13	47.3	13	0	13	19.428	13	0.32	0.00

START_UP	02/25/2019	05:54	~	02/25/2019	06:18	25	7984.5	25	574	25	124.534	25	187.872	25	3.13	2.08
SHUT_DOWN	02/25/2019	07:58	~	02/25/2019	08:10	13	2073.1	13	52.5	13	0	13	19.843	13	0.33	0.00
START_UP	02/25/2019	16:49	~	02/25/2019	17:13	25	8267.499	25	606.7	25	69.585	25	186.838	25	3.11	1.16
SHUT_DOWN	02/25/2019	22:58	~	02/25/2019	23:10	13	2040.6	13	48	13	0	13	19.38	13	0.32	0.00
START_UP	02/26/2019	05:54	~	02/26/2019	06:18	25	8278.801	25	608.9	25	95.267	25	190.614	25	3.18	1.59
SHUT_DOWN	02/26/2019	11:43	~	02/26/2019	11:55	13	2203.7	13	65.2	13	0.205	13	15.413	13	0.26	0.00
START_UP	02/26/2019	13:48	~	02/26/2019	14:12	25	14256.9	25	1473.2	25	100.934	25	116.92	25	1.95	1.68
SHUT_DOWN	02/26/2019	22:13	~	02/26/2019	22:25	13	2252.3	13	71.6	13	0	13	18.645	13	0.31	0.00
START_UP	02/27/2019	05:54	~	02/27/2019	06:18	25	8925.301	25	695.8	25	73.522	25	204.429	25	3.41	1.23
SHUT_DOWN	02/27/2019	08:58	~	02/27/2019	09:10	13	2042.8	13	47.9	13	0	13	17.705	13	0.30	0.00
START_UP	02/27/2019	15:54	~	02/27/2019	16:18	25	8044.6	25	574.1	25	58.482	25	174.267	25	2.90	0.97
SHUT_DOWN	02/27/2019	22:13	~	02/27/2019	22:25	13	2126.3	13	55.6	13	0	13	18.102	13	0.30	0.00
START_UP	02/28/2019	05:54	~	02/28/2019	06:18	25	8074	25	576.5	25	88.375	25	186.346	25	3.11	1.47
SHUT_DOWN	02/28/2019	08:58	~	02/28/2019	09:10	13	2329.9	13	83.4	13	0	13	18.68	13	0.31	0.00
START_UP	02/28/2019	17:19	~	02/28/2019	17:43	25	8267.7	25	610.5	25	69.885	25	186.606	25	3.11	1.16
SHUT_DOWN	02/28/2019	22:28	~	02/28/2019	22:40	13	2081.2	13	52.3	13	0	13	17.324	13	0.29	0.00
START_UP	03/01/2019	05:54	~	03/01/2019	06:18	25	8698.9	25	671.6	25	64.521	25	202.069	25	3.37	1.08
SHUT_DOWN	03/01/2019	22:29	~	03/01/2019	22:41	13	2151.7	13	61.1	13	0.933	13	9.721	13	0.16	0.02
START_UP	03/02/2019	06:54	~	03/02/2019	07:18	25	11144.2	25	1043.2	25	159.517	25	225.178	25	3.75	2.66
SHUT_DOWN	03/02/2019	10:58	~	03/02/2019	11:10	13	2351	13	88.6	13	0.197	13	14.682	13	0.24	0.00
START_UP	03/02/2019	16:35	~	03/02/2019	16:59	25	7855.899	25	573.5	25	119.622	25	166.752	25	2.78	1.99
SHUT_DOWN	03/02/2019	20:58	~	03/02/2019	21:10	13	2077.6	13	54.4	13	0.491	13	7.979	13	0.13	0.01
START_UP	03/03/2019	05:54	~	03/03/2019	06:18	25	7978.8	25	574	25	83.453	25	187.538	25	3.13	1.39
SHUT_DOWN	03/03/2019	06:58	~	03/03/2019	07:10	13	2037.5	13	50.6	13	0.251	13	14.279	13	0.24	0.00
START_UP	03/03/2019	19:09	~	03/03/2019	19:33	25	8257.299	25	608.3	25	60.032	25	199.679	25	3.33	1.00
SHUT_DOWN	03/03/2019	21:13	~	03/03/2019	21:25	13	2032.1	13	46.9	13	0.29	13	15.796	13	0.26	0.00
START_UP	03/04/2019	05:54	~	03/04/2019	06:18	25	8032	25	573.5	25	95.771	25	194.75	25	3.25	1.60
SHUT_DOWN	03/04/2019	07:28	~	03/04/2019	07:40	13	2047.3	13	51	13	0.201	13	15.807	13	0.26	0.00
START_UP	03/04/2019	17:48	~	03/04/2019	18:12	25	16644.2	25	1868.1	25	219.781	25	319.296	25	5.32	3.66
SHUT_DOWN	03/04/2019	23:58	~	03/05/2019	00:10	13	2233.3	13	75.8	13	0	13	19.346	13	0.32	0.00
START_UP	03/05/2019	05:54	~	03/05/2019	06:18	25	10084.6	25	874.3	25	53.778	25	234.525	25	3.91	0.90
SHUT_DOWN	03/05/2019	14:14	~	03/05/2019	14:26	13	2352	13	88.6	13	0.547	13	20.925	13	0.35	0.01
START_UP	03/05/2019	15:08	~	03/05/2019	15:32	25	8784.5	25	685.9	25	112.029	25	80.84	25	1.35	1.87
SHUT_DOWN	03/05/2019	21:43	~	03/05/2019	21:55	13	2023.7	13	47.1	13	0.427	13	15.978	13	0.27	0.01
START_UP	03/06/2019	05:54	~	03/06/2019	06:18	25	12116.3	25	1160.6	25	60.375	25	235.871	25	3.93	1.01
SHUT_DOWN	03/06/2019	10:59	~	03/06/2019	11:11	13	2312	13	82.3	13	0.64	13	14.542	13	0.24	0.01
START_UP	03/06/2019	17:47	~	03/06/2019	18:11	25	8327.8	25	620.7	25	80.188	25	178.395	25	2.97	1.34
SHUT_DOWN	03/06/2019	19:57	~	03/06/2019	20:09	13	2191.6	13	66.8	13	0.781	13	9.399	13	0.16	0.01
START_UP	03/07/2019	07:54	~	03/07/2019	08:18	25	11243.9	25	1015.7	25	238.878	19	242.17	19	4.04	3.98
SHUT_DOWN	03/07/2019	09:59	~	03/07/2019	10:11	13	2201.4	13	70	13	0.584	13	16.323	13	0.27	0.01
START_UP	03/07/2019	17:49	~	03/07/2019	18:13	25	15032.9	25	1608.1	25	64.724	25	257.157	25	4.29	1.08
SHUT_DOWN	03/07/2019	20:27	~	03/07/2019	20:39	13	2112.2	13	57.2	13	0	13	17.711	13	0.30	0.00
START_UP	03/08/2019	09:53	~	03/08/2019	10:17	25	7877.5	25	563.4	25	155.64	25	205.03	25	3.42	2.59
SHUT_DOWN	03/08/2019	11:12	~	03/08/2019	11:24	13	2320.3	13	76.2	13	0.738	13	16.31	13	0.27	0.01
START_UP	03/09/2019	16:34	~	03/09/2019	16:58	25	8575	25	656.9	25	138.627	25	244.757	25	4.08	2.31
SHUT_DOWN	03/09/2019	19:27	~	03/09/2019	19:39	13	2127.1	13	59.7	13	0.518	13	19.753	13	0.33	0.01
START_UP	03/10/2019	06:53	~	03/10/2019	07:17	25	11335.9	25	1049.3	25	173.517	25	274.995	25	4.58	2.89
SHUT_DOWN	03/10/2019	09:58	~	03/10/2019	10:10	13	2434.8	13	97	13	0.63	13	22.826	13	0.38	0.01
START_UP	03/10/2019	18:48	~	03/10/2019	19:12	25	8141.601	25	595.5	25	153.08	20	183.493	20	3.06	2.55
SHUT_DOWN	03/10/2019	21:12	~	03/10/2019	21:24	13	2143.2	13	60.5	13	0.803	13	17.928	13	0.30	0.01
START_UP	03/11/2019	05:08	~	03/11/2019	05:32	25	9904.2	25	856.5	25	156.804	25	225.623	25	3.76	2.61
SHUT_DOWN	03/11/2019	09:12	~	03/11/2019	09:24	13	2257.3	13	78.5	13	0.647	13	19.715	13	0.33	0.01
START_UP	03/11/2019	13:48	~	03/11/2019	14:12	25	15999.6	25	1732.1	25	216.087	25	230.113	25	3.84	3.60
SHUT_DOWN	03/11/2019	21:27	~	03/11/2019	21:39	13	2314.7	13	85.6	13	1.281	13	13.022	13	0.22	0.02

START_UP	03/12/2019	04:53	~	03/12/2019	05:17	25	7868.7	25	573.4	25	225.805	25	189.793	25	3.16	3.76
SHUT_DOWN	03/12/2019	08:12	~	03/12/2019	08:24	13	2096.9	13	57.1	13	0.573	13	15.649	13	0.26	0.01
START_UP	03/12/2019	11:52	~	03/12/2019	12:16	25	7996.5	25	582.1	25	122.367	25	156.965	25	2.62	2.04
SHUT_DOWN	03/12/2019	13:32	~	03/12/2019	13:44	13	2495.3	13	111.2	13	1.468	13	15.088	13	0.25	0.02
START_UP	03/12/2019	18:07	~	03/12/2019	18:31	25	12610.1	25	1270.8	25	209.185	25	217.569	25	3.63	3.49
SHUT_DOWN	03/12/2019	19:13	~	03/12/2019	19:25	13	1988.1	13	43.5	13	0.944	13	15.282	13	0.25	0.02
START_UP	03/13/2019	04:53	~	03/13/2019	05:17	25	15527.1	25	1706.3	25	176.283	25	326.673	25	5.44	2.94
SHUT_DOWN	03/13/2019	09:01	~	03/13/2019	09:13	13	2228.8	13	74.1	13	1.246	13	14.89	13	0.25	0.02
START_UP	03/13/2019	16:53	~	03/13/2019	17:17	25	8003.5	25	576.1	25	115.656	15	159.013	15	2.65	1.93
SHUT_DOWN	03/13/2019	22:57	~	03/13/2019	23:09	13	2212.8	13	68.5	13	1.287	13	20.784	13	0.35	0.02
START_UP	03/14/2019	05:23	~	03/14/2019	05:47	25	12562	25	1239.9	25	126.859	25	253.954	25	4.23	2.11
SHUT_DOWN	03/14/2019	06:57	~	03/14/2019	07:09	13	2139.5	13	58.1	13	0.68	13	19.88	13	0.33	0.01
START_UP	03/14/2019	14:39	~	03/14/2019	15:03	25	8080	25	580.7	25	196.84	25	191.08	25	3.18	3.28
SHUT_DOWN	03/14/2019	19:12	~	03/14/2019	19:24	13	2144.4	13	59.1	13	1.306	13	17.669	13	0.29	0.02
START_UP	03/14/2019	20:08	~	03/14/2019	20:32	25	8086.4	25	585.8	25	10.899	25	71.445	25	1.19	0.18
SHUT_DOWN	03/14/2019	21:57	~	03/14/2019	22:09	13	2151.1	13	62.1	13	1.097	13	24.822	13	0.41	0.02
START_UP	03/15/2019	18:48	~	03/15/2019	19:12	25	7939.8	25	573.3	25	146.173	25	211.158	25	3.52	2.44
SHUT_DOWN	03/15/2019	21:12	~	03/15/2019	21:24	13	2116.5	13	59.3	13	0.756	13	18.633	13	0.31	0.01
START_UP	03/16/2019	10:53	~	03/16/2019	11:17	25	9431.899	25	774.2	25	155.992	25	247.677	25	4.13	2.60
SHUT_DOWN	03/16/2019	13:57	~	03/16/2019	14:09	13	2261.2	13	76.8	13	1.651	13	16.401	13	0.27	0.03
START_UP	03/16/2019	15:52	~	03/16/2019	16:16	25	8914.4	25	701.9	25	105.379	25	82.004	25	1.37	1.76
SHUT_DOWN	03/16/2019	16:57	~	03/16/2019	17:09	13	2244.1	13	74.2	13	1.609	13	16.449	13	0.27	0.03
START_UP	03/16/2019	17:52	~	03/16/2019	18:16	25	10131.6	25	889.5	25	13.327	25	104.676	25	1.74	0.22
SHUT_DOWN	03/16/2019	19:57	~	03/16/2019	20:09	13	2245.4	13	72.6	13	1.07	13	16.486	13	0.27	0.02
START_UP	03/17/2019	17:39	~	03/17/2019	18:03	25	8062.999	25	596.5	25	77.301	25	214.255	25	3.57	1.29
SHUT_DOWN	03/17/2019	20:46	~	03/17/2019	20:58	13	2147.6	13	64.4	13	1.004	13	16.34	13	0.27	0.02
START_UP	03/18/2019	15:53	~	03/18/2019	16:17	25	11505.3	25	1083.5	25	121.034	25	282.466	25	4.71	2.02
SHUT_DOWN	03/18/2019	19:57	~	03/18/2019	20:09	13	2089.6	13	55.1	13	1.622	13	15.577	13	0.26	0.03
START_UP	03/19/2019	06:53	~	03/19/2019	07:17	25	17168.4	25	1942.5	25	220.793	25	371.732	25	6.20	3.68
SHUT_DOWN	03/19/2019	19:27	~	03/19/2019	19:39	13	2212.9	13	68.1	13	1.292	13	16.442	13	0.27	0.02
START_UP	03/20/2019	05:24	~	03/20/2019	05:48	25	8183.3	25	590.6	25	102.856	25	199.723	25	3.33	1.71
SHUT_DOWN	03/20/2019	15:28	~	03/20/2019	15:40	13	2062.7	13	49	13	1.224	13	16.724	13	0.28	0.02
START_UP	03/20/2019	17:23	~	03/20/2019	17:47	25	10724	25	950.5	25	68.823	25	99.032	25	1.65	1.15
SHUT_DOWN	03/20/2019	19:42	~	03/20/2019	19:54	13	2105.6	13	53.6	13	1.011	13	16.119	13	0.27	0.02
START_UP	03/22/2019	18:53	~	03/22/2019	19:17	25	7805.7	25	560.1	25	175.929	25	215.077	25	3.58	2.93
SHUT_DOWN	03/22/2019	20:27	~	03/22/2019	20:39	13	2110.2	13	58.2	13	1.005	13	15.551	13	0.26	0.02
START_UP	03/23/2019	06:53	~	03/23/2019	07:17	25	11115.8	25	1013.3	25	129.789	25	271.293	25	4.52	2.16
SHUT_DOWN	03/23/2019	09:13	~	03/23/2019	09:25	13	2430.1	13	97.9	13	1.601	13	19.133	13	0.32	0.03
START_UP	03/23/2019	18:51	~	03/23/2019	19:15	25	8120.4	25	588.9	25	169.255	25	192.127	25	3.20	2.82
SHUT_DOWN	03/23/2019	20:12	~	03/23/2019	20:24	13	2146.1	13	60.2	13	1.342	13	14.678	13	0.24	0.02
START_UP	03/23/2019	21:07	~	03/23/2019	21:31	25	11044.6	25	992	25	11.409	18	64.638	18	1.08	0.19
SHUT_DOWN	03/23/2019	22:13	~	03/23/2019	22:25	13	2266	13	78.3	13	1.644	13	11.715	13	0.20	0.03
START_UP	03/24/2019	18:53	~	03/24/2019	19:17	25	16605.6	25	1845.3	25	132.812	25	420.421	25	7.01	2.21
SHUT_DOWN	03/24/2019	21:27	~	03/24/2019	21:39	13	2087.4	13	54.6	13	1.071	13	16.21	13	0.27	0.02
START_UP	03/25/2019	05:08	~	03/25/2019	05:32	25	7814.1	25	563.1	25	169.875	25	199.535	25	3.33	2.83
SHUT_DOWN	03/25/2019	07:27	~	03/25/2019	07:39	13	2137.9	13	60.4	13	1.006	13	16.904	13	0.28	0.02
START_UP	03/25/2019	10:52	~	03/25/2019	11:16	25	10598	25	940	25	131.054	25	167.364	25	2.79	2.18
SHUT_DOWN	03/25/2019	13:58	~	03/25/2019	14:10	13	2240.9	13	74.9	13	1.861	13	12.393	13	0.21	0.03
START_UP	03/25/2019	17:49	~	03/25/2019	18:13	25	9223.4	25	764.6	25	136.787	25	170.207	25	2.84	2.28
SHUT_DOWN	03/25/2019	20:12	~	03/25/2019	20:24	13	2145.4	13	62.2	13	1.006	13	15.779	13	0.26	0.02
START_UP	03/26/2019	05:38	~	03/26/2019	06:02	25	8612.8	25	666.5	25	124.382	25	224.574	25	3.74	2.07
SHUT_DOWN	03/26/2019	07:12	~	03/26/2019	07:24	13	2162.8	13	64.8	13	1.344	13	16.461	13	0.27	0.02
START_UP	03/26/2019	17:23	~	03/26/2019	17:47	25	12582.4	25	1253.6	25	138.878	25	281.505	25	4.69	2.31
SHUT_DOWN	03/26/2019	20:27	~	03/26/2019	20:39	13	2102.2	13	54.4	13	1.534	13	15.33	13	0.26	0.03

START_UP	03/26/2019	21:22	~	03/26/2019	21:46	25	7922	25	574.2	25	84.923	25	74.945	25	1.25	1.42
SHUT_DOWN	03/26/2019	22:42	~	03/26/2019	22:54	13	2114.4	13	58.6	13	1.007	13	15.466	13	0.26	0.02
START_UP	03/27/2019	05:53	~	03/27/2019	06:17	25	8037.101	25	590.4	25	175.534	25	194.718	25	3.25	2.93
SHUT_DOWN	03/27/2019	07:13	~	03/27/2019	07:25	13	2509.5	13	108.3	13	2.402	13	10.102	13	0.17	0.04
START_UP	03/27/2019	15:53	~	03/27/2019	16:17	25	7983	25	578.3	25	134.684	25	190.702	25	3.18	2.24
SHUT_DOWN	03/27/2019	16:57	~	03/27/2019	17:09	13	2333.4	13	84.5	13	1.902	13	12.085	13	0.20	0.03
START_UP	03/27/2019	18:22	~	03/27/2019	18:46	25	15779.6	25	1712.5	25	112.785	25	156.26	25	2.60	1.88
SHUT_DOWN	03/27/2019	19:27	~	03/27/2019	19:39	13	2281.4	13	78.5	13	1.648	13	10.127	13	0.17	0.03
START_UP	03/28/2019	05:23	~	03/28/2019	05:47	25	9510.1	25	798.1	25	220.59	25	226.097	25	3.77	3.68
SHUT_DOWN	03/28/2019	08:57	~	03/28/2019	09:09	13	2165.6	13	60.5	13	1.641	13	14.717	13	0.25	0.03
START_UP	03/28/2019	10:52	~	03/28/2019	11:16	25	8252.2	25	598.4	25	114.972	25	75.999	25	1.27	1.92
SHUT_DOWN	03/28/2019	15:57	~	03/28/2019	16:09	13	2181	13	64.1	13	1.625	13	16.425	13	0.27	0.03
START_UP	03/28/2019	17:22	~	03/28/2019	17:46	25	12057.9	25	1166.9	25	147.401	25	111.703	25	1.86	2.46
SHUT_DOWN	03/28/2019	19:12	~	03/28/2019	19:24	13	2111.6	13	55.7	13	1.507	13	16.576	13	0.28	0.03
START_UP	03/29/2019	05:23	~	03/29/2019	05:47	25	10344.3	25	921.2	25	143.166	25	238.727	25	3.98	2.39
SHUT_DOWN	03/29/2019	06:27	~	03/29/2019	06:39	13	2112.3	13	57.2	13	1.911	13	17.792	13	0.30	0.03
START_UP	03/29/2019	10:52	~	03/29/2019	11:16	25	9324.8	25	765.8	25	115.653	25	199.314	25	3.32	1.93
SHUT_DOWN	03/29/2019	13:57	~	03/29/2019	14:09	13	2121.6	13	58	13	1.695	13	16.856	13	0.28	0.03
START_UP	03/29/2019	18:22	~	03/29/2019	18:46	25	8108.9	25	592.7	25	126.641	25	171.438	25	2.86	2.11
SHUT_DOWN	03/29/2019	19:27	~	03/29/2019	19:39	13	2150.2	13	61	13	1.646	13	15.331	13	0.26	0.03
START_UP	03/30/2019	05:23	~	03/30/2019	05:47	25	10086	25	877.3	25	126.645	25	223.497	25	3.72	2.11
SHUT_DOWN	03/30/2019	06:28	~	03/30/2019	06:40	13	2200.1	13	68.8	13	2.28	13	18.008	13	0.30	0.04
START_UP	03/30/2019	10:53	~	03/30/2019	11:17	25	8441.601	25	636.1	25	84.278	22	175.781	22	2.93	1.40
SHUT_DOWN	03/30/2019	13:58	~	03/30/2019	14:10	13	1980.5	13	43.9	13	2.022	13	16.205	13	0.27	0.03
START_UP	03/30/2019	16:52	~	03/30/2019	17:16	25	9821.9	25	839.2	25	118.814	25	154.057	25	2.57	1.98
SHUT_DOWN	03/30/2019	21:57	~	03/30/2019	22:09	13	2090.4	13	56.2	13	1.65	13	16.521	13	0.28	0.03
START_UP	03/31/2019	05:23	~	03/31/2019	05:47	25	7893.299	25	566.5	25	136.111	25	195.326	25	3.26	2.27
SHUT_DOWN	03/31/2019	06:28	~	03/31/2019	06:40	13	2111.1	13	56.3	13	2.149	13	19.104	13	0.32	0.04
START_UP	03/31/2019	11:52	~	03/31/2019	12:16	25	7981.9	25	586.1	25	109.934	25	179.549	25	2.99	1.83
SHUT_DOWN	03/31/2019	14:57	~	03/31/2019	15:09	13	2362.1	13	91.4	13	2.42	13	9.594	13	0.16	0.04
START_UP	03/31/2019	16:53	~	03/31/2019	17:17	25	8171.6	25	601.5	25	229	25	115.241	25	1.92	3.82
SHUT_DOWN	03/31/2019	21:12	~	03/31/2019	21:24	13	2088.8	13	56.7	13	2.203	13	17.125	13	0.29	0.04

Startup / ShutDown Report
 Generated: 4/23/2019 06:38
 StartUp/ShutDown Event Report NRG Carlsbad Unit 7
 Carlsbad Unit 7

Company: NRG Carlsbad
 Plant: 4600 Carlsbad Blvd
 City/St: Carlsbad, CA 92008

Period Start: 1/1/2019 00:00
 Period End: 3/31/2019 23:59
 Unit Name: Unit7

Events	Time	Duration (min)	Total		Total		Total		Total		NOx Lbs/Event	CO Lbs/Event
			7_GasFlow (kscfh)	Valid Mins	7Gross_MW (MW)	Valid Mins	7COLBHR (LBHR)	Valid Mins	7NOXLBHR (LBHR)	Valid Mins		
START_UP	01/01/2019 18:40 ~ 01/01/2019 19:04	25	8321.601	25	612	25	80.181	25	330.811	25	5.51	1.34
SHUT_DOWN	01/01/2019 20:29 ~ 01/01/2019 20:41	13	2265.4	13	72.4	13	0	13	15.826	13	0.26	0.00
START_UP	01/02/2019 11:26 ~ 01/02/2019 11:50	25	17248.4	25	1894.4	25	127.089	18	555.724	18	9.26	2.12
SHUT_DOWN	01/02/2019 13:43 ~ 01/02/2019 13:55	13	2125.5	13	59.4	13	0	13	12.196	13	0.20	0.00
START_UP	01/02/2019 16:54 ~ 01/02/2019 17:18	25	8068.4	25	580.8	25	139.055	25	202.288	25	3.37	2.32
SHUT_DOWN	01/02/2019 19:58 ~ 01/02/2019 20:10	13	2186.3	13	65.4	13	0	13	15.454	13	0.26	0.00
START_UP	01/03/2019 17:24 ~ 01/03/2019 17:48	25	13533.8	25	1364.4	25	62.605	25	482.892	25	8.05	1.04
SHUT_DOWN	01/03/2019 18:28 ~ 01/03/2019 18:40	13	2115.9	13	57	13	0	9	5.141	9	0.09	0.00
START_UP	01/04/2019 18:09 ~ 01/04/2019 18:33	25	11992.5	25	1124.4	25	86.633	25	349.26	25	5.82	1.44
SHUT_DOWN	01/04/2019 20:29 ~ 01/04/2019 20:41	13	2271.2	13	78.7	13	0	13	10.732	13	0.18	0.00
START_UP	01/04/2019 21:53 ~ 01/04/2019 22:17	25	8802.4	25	680.4	25	92.758	25	88.557	25	1.48	1.55
SHUT_DOWN	01/04/2019 22:59 ~ 01/04/2019 23:11	13	2065.7	13	52.6	13	0.038	13	8.666	13	0.14	0.00
START_UP	01/05/2019 07:24 ~ 01/05/2019 07:48	25	10715.2	25	945.1	25	76.459	13	284.113	13	4.74	1.27
SHUT_DOWN	01/05/2019 08:30 ~ 01/05/2019 08:42	13	2284.3	13	79.9	13	0	13	11.844	13	0.20	0.00
START_UP	01/06/2019 16:24 ~ 01/06/2019 16:48	25	11526.9	25	1049	25	44.334	14	308.932	14	5.15	0.74
SHUT_DOWN	01/06/2019 17:29 ~ 01/06/2019 17:41	13	2327.2	13	85.5	13	0	13	12.303	13	0.21	0.00
START_UP	01/07/2019 05:54 ~ 01/07/2019 06:18	25	10716.7	25	940.6	25	82.461	25	334.793	25	5.58	1.37
SHUT_DOWN	01/07/2019 08:29 ~ 01/07/2019 08:41	13	2340.3	13	85.6	13	0	13	12.868	13	0.21	0.00
START_UP	01/07/2019 15:54 ~ 01/07/2019 16:18	25	8168.3	25	590.4	25	48.789	25	252.118	25	4.20	0.81
SHUT_DOWN	01/07/2019 18:59 ~ 01/07/2019 19:11	13	1981.9	13	42.2	13	0	13	8.501	13	0.14	0.00
START_UP	01/07/2019 19:55 ~ 01/07/2019 20:19	25	11102	25	995.2	25	6.84	25	87.097	25	1.45	0.11
SHUT_DOWN	01/07/2019 22:29 ~ 01/07/2019 22:41	13	2299.5	13	81.2	13	0	13	10.448	13	0.17	0.00
START_UP	01/08/2019 05:54 ~ 01/08/2019 06:18	25	8701.199	25	659.5	25	58.017	25	273.404	25	4.56	0.97
SHUT_DOWN	01/08/2019 07:58 ~ 01/08/2019 08:10	13	2165.3	13	59.8	13	0.083	13	10.222	13	0.17	0.00
START_UP	01/08/2019 17:37 ~ 01/08/2019 18:01	25	8132.5	25	595.1	25	124.768	25	271.33	25	4.52	2.08
SHUT_DOWN	01/08/2019 19:13 ~ 01/08/2019 19:25	13	2141.1	13	59.6	13	0	13	8.694	13	0.14	0.00
START_UP	01/09/2019 05:54 ~ 01/09/2019 06:18	25	8631.499	25	647.7	25	71.513	25	294.886	25	4.91	1.19
SHUT_DOWN	01/09/2019 07:58 ~ 01/09/2019 08:10	13	2148.5	13	58.3	13	0	13	9.409	13	0.16	0.00
START_UP	01/09/2019 15:54 ~ 01/09/2019 16:18	25	8766.602	25	665.2	25	57.033	25	253.005	25	4.22	0.95
SHUT_DOWN	01/09/2019 16:58 ~ 01/09/2019 17:10	13	2169.3	13	63.7	13	0	13	7.249	13	0.12	0.00
START_UP	01/09/2019 19:53 ~ 01/09/2019 20:17	25	8134.9	25	587.1	25	88.776	25	190.785	25	3.18	1.48
SHUT_DOWN	01/09/2019 22:13 ~ 01/09/2019 22:25	13	2223.1	13	69.5	13	0	13	8.205	13	0.14	0.00
START_UP	01/10/2019 05:55 ~ 01/10/2019 06:19	25	9228.099	25	724	25	198.764	25	287.863	25	4.80	3.31
SHUT_DOWN	01/10/2019 08:29 ~ 01/10/2019 08:41	13	2056.3	13	50.4	13	0	13	8.354	13	0.14	0.00
START_UP	01/10/2019 15:54 ~ 01/10/2019 16:18	25	8051.9	25	571.6	25	58.675	25	250.84	25	4.18	0.98
SHUT_DOWN	01/10/2019 16:58 ~ 01/10/2019 17:10	13	2106	13	56.5	13	0	13	7.894	13	0.13	0.00
START_UP	01/10/2019 19:53 ~ 01/10/2019 20:17	25	9100.399	25	712.8	25	68.456	25	205.413	25	3.42	1.14
SHUT_DOWN	01/10/2019 22:29 ~ 01/10/2019 22:41	13	2111.3	13	56.2	13	0	13	8.237	13	0.14	0.00
START_UP	01/11/2019 05:54 ~ 01/11/2019 06:18	25	8009.999	25	573.6	25	118.352	25	268.814	25	4.48	1.97
SHUT_DOWN	01/11/2019 08:29 ~ 01/11/2019 08:41	13	1976.1	13	40.5	13	0	13	8.074	13	0.13	0.00
START_UP	01/11/2019 16:24 ~ 01/11/2019 16:48	25	9390.8	25	753.2	25	50.468	25	285.269	25	4.75	0.84

SHUT_DOWN	01/11/2019	21:28	~	01/11/2019	21:40	13	2136.7	13	57.5	13	0	13	9.009	13	0.15	0.00
START_UP	01/12/2019	16:54	~	01/12/2019	17:18	25	8075.9	25	579.9	25	69.459	25	284.783	25	4.75	1.16
SHUT_DOWN	01/12/2019	21:43	~	01/12/2019	21:55	13	2104	13	54.1	13	0	13	9.399	13	0.16	0.00
START_UP	01/13/2019	06:54	~	01/13/2019	07:18	25	8625.601	25	639.7	25	44.645	25	275.225	25	4.59	0.74
SHUT_DOWN	01/13/2019	07:58	~	01/13/2019	08:10	13	2117.6	13	56.5	13	0	13	9.673	13	0.16	0.00
START_UP	01/13/2019	15:54	~	01/13/2019	16:18	25	8136.8	25	584.5	25	62.633	25	265.945	25	4.43	1.04
SHUT_DOWN	01/13/2019	21:58	~	01/13/2019	22:10	13	2081	13	53.2	13	0	13	9.138	13	0.15	0.00
START_UP	01/14/2019	05:54	~	01/14/2019	06:18	25	11092.7	25	984.7	25	35.504	25	322.606	25	5.38	0.59
SHUT_DOWN	01/14/2019	22:28	~	01/14/2019	22:40	13	2073.2	13	53.5	13	0	13	7.782	13	0.13	0.00
START_UP	01/15/2019	05:56	~	01/15/2019	06:20	25	11225.1	25	1012.3	25	46.559	25	307.924	25	5.13	0.78
SHUT_DOWN	01/15/2019	22:13	~	01/15/2019	22:25	13	2111.3	13	57.3	13	0	13	8.139	13	0.14	0.00
START_UP	01/16/2019	05:54	~	01/16/2019	06:18	25	8119.3	25	584	25	0	4	8.294	4	0.14	0.00
SHUT_DOWN	01/16/2019	09:29	~	01/16/2019	09:41	13	2067.6	13	51.7	13	0	13	8.953	13	0.15	0.00
START_UP	01/16/2019	14:23	~	01/16/2019	14:47	25	8290	25	607.7	25	84.541	25	245.35	25	4.09	1.41
SHUT_DOWN	01/16/2019	22:43	~	01/16/2019	22:55	13	2165	13	64.7	13	0	13	8	13	0.13	0.00
START_UP	01/17/2019	05:53	~	01/17/2019	06:17	25	7896.899	25	571	25	171.917	25	257.303	25	4.29	2.87
SHUT_DOWN	01/17/2019	08:58	~	01/17/2019	09:10	13	2195.2	13	67.5	13	0	13	9.305	13	0.16	0.00
START_UP	01/17/2019	14:54	~	01/17/2019	15:18	25	16330.2	25	1784.6	25	212.499	25	363.994	25	6.07	3.54
SHUT_DOWN	01/17/2019	19:58	~	01/17/2019	20:10	13	2131.2	13	58	13	0	13	5.133	13	0.09	0.00
START_UP	01/17/2019	21:53	~	01/17/2019	22:17	25	8820.7	25	675.8	25	102.805	25	79.572	25	1.33	1.71
SHUT_DOWN	01/17/2019	22:58	~	01/17/2019	23:10	13	2115.6	13	55.9	13	0	13	8.016	13	0.13	0.00
START_UP	01/18/2019	05:54	~	01/18/2019	06:18	25	10292.1	25	879.5	25	59.014	25	313.308	25	5.22	0.98
SHUT_DOWN	01/18/2019	07:58	~	01/18/2019	08:10	13	2115.3	13	53.7	13	0	13	6.925	13	0.12	0.00
START_UP	01/18/2019	18:39	~	01/18/2019	19:03	25	9163.101	25	720.5	25	48.326	25	352.893	25	5.88	0.81
SHUT_DOWN	01/18/2019	19:44	~	01/18/2019	19:56	13	2228.6	13	70.2	13	0	13	9.035	13	0.15	0.00
START_UP	01/18/2019	21:53	~	01/18/2019	22:17	25	7969.4	25	560.9	25	89.422	25	87.579	25	1.46	1.49
SHUT_DOWN	01/18/2019	23:43	~	01/18/2019	23:55	13	2126.2	13	56.5	13	0	13	9.397	13	0.16	0.00
START_UP	01/19/2019	05:54	~	01/19/2019	06:18	25	8666.8	25	649.5	25	41.626	25	305.126	25	5.09	0.69
SHUT_DOWN	01/19/2019	07:58	~	01/19/2019	08:10	13	2248	13	71	13	0	13	9.575	13	0.16	0.00
START_UP	01/19/2019	16:24	~	01/19/2019	16:48	25	8303.1	25	610.9	25	76.685	25	277.926	25	4.63	1.28
SHUT_DOWN	01/19/2019	21:43	~	01/19/2019	21:55	13	2140.8	13	60.5	13	0	13	9.274	13	0.15	0.00
START_UP	01/20/2019	06:09	~	01/20/2019	06:33	25	7965	25	566.9	25	51.123	25	265.589	25	4.43	0.85
SHUT_DOWN	01/20/2019	07:28	~	01/20/2019	07:40	13	2137.7	13	57.2	13	0	13	9.492	13	0.16	0.00
START_UP	01/20/2019	16:50	~	01/20/2019	17:14	25	9884.6	25	831.5	25	56.297	25	308.242	25	5.14	0.94
SHUT_DOWN	01/20/2019	18:59	~	01/20/2019	19:11	13	2289.5	13	79.2	13	0	13	8.53	13	0.14	0.00
START_UP	01/21/2019	05:54	~	01/21/2019	06:18	25	8236.699	25	599.3	25	51.408	25	287.052	25	4.78	0.86
SHUT_DOWN	01/21/2019	08:43	~	01/21/2019	08:55	13	2132.5	13	59.6	13	0	13	10.339	13	0.17	0.00
START_UP	01/21/2019	13:08	~	01/21/2019	13:32	25	16154.4	25	1750.3	25	71.915	25	337.921	25	5.63	1.20
SHUT_DOWN	01/21/2019	14:13	~	01/21/2019	14:25	13	2102.7	13	53.7	13	0	13	6.135	13	0.10	0.00
START_UP	01/22/2019	05:54	~	01/22/2019	06:18	25	8584.8	25	643.1	25	69.229	25	316.436	25	5.27	1.15
SHUT_DOWN	01/22/2019	07:58	~	01/22/2019	08:10	13	2143.3	13	62	13	0	13	8.976	13	0.15	0.00
START_UP	01/22/2019	16:38	~	01/22/2019	17:02	25	8763.001	25	678	25	133.318	25	281.201	25	4.69	2.22
SHUT_DOWN	01/22/2019	21:13	~	01/22/2019	21:25	13	2053.7	13	47.2	13	0.466	13	16.21	13	0.27	0.01
START_UP	01/23/2019	05:54	~	01/23/2019	06:18	25	10966.1	25	961.8	25	65.657	25	336.46	25	5.61	1.09
SHUT_DOWN	01/23/2019	09:28	~	01/23/2019	09:40	13	2110.2	13	55.3	13	1.022	13	12.964	13	0.22	0.02
START_UP	01/23/2019	10:53	~	01/23/2019	11:17	25	17768.5	25	2004.9	25	79.36	25	145.986	25	2.43	1.32
SHUT_DOWN	01/23/2019	12:00	~	01/23/2019	12:12	13	2499.6	13	109.1	13	1.642	13	8.001	13	0.13	0.03
START_UP	01/23/2019	17:50	~	01/23/2019	18:14	25	9934.801	25	831	25	58.921	25	248.282	25	4.14	0.98
SHUT_DOWN	01/23/2019	19:58	~	01/23/2019	20:10	13	2120.2	13	58.1	13	1.093	13	10.133	13	0.17	0.02
START_UP	01/24/2019	05:53	~	01/24/2019	06:17	25	8041.299	25	588.8	25	183.965	24	302.112	24	5.04	3.07
SHUT_DOWN	01/24/2019	07:58	~	01/24/2019	08:10	13	2105.4	13	56.6	13	1.993	13	11.465	13	0.19	0.03
START_UP	01/24/2019	16:39	~	01/24/2019	17:03	25	10945.7	25	993.8	25	58.927	25	278.38	25	4.64	0.98
SHUT_DOWN	01/24/2019	19:13	~	01/24/2019	19:25	13	2136.4	13	59.8	13	0.46	13	9.951	13	0.17	0.01
START_UP	01/25/2019	05:54	~	01/25/2019	06:18	25	8812.1	25	683.5	25	69.225	25	325.101	25	5.42	1.15

SHUT_DOWN	01/25/2019	23:59	~	01/26/2019	00:11	13	2228.6	13	72.9	13	0.609	13	12.076	13	0.20	0.01
START_UP	01/26/2019	05:54	~	01/26/2019	06:18	25	8132.4	25	586.7	25	57.797	25	261.669	25	4.36	0.96
SHUT_DOWN	01/26/2019	06:58	~	01/26/2019	07:10	13	2252.3	13	73.9	13	0.553	13	8.968	13	0.15	0.01
START_UP	01/26/2019	17:54	~	01/26/2019	18:18	25	14753.4	25	1550.7	25	55.479	25	397.573	25	6.63	0.92
SHUT_DOWN	01/26/2019	19:43	~	01/26/2019	19:55	13	2105.8	13	58	13	0.418	13	9.601	13	0.16	0.01
START_UP	01/27/2019	08:24	~	01/27/2019	08:48	25	8152.801	25	592.4	25	52.677	25	299.928	25	5.00	0.88
SHUT_DOWN	01/27/2019	09:28	~	01/27/2019	09:40	13	2074.3	13	53.2	13	0.423	13	9.598	13	0.16	0.01
START_UP	01/27/2019	16:24	~	01/27/2019	16:48	25	8199.301	25	608.7	25	74.175	25	261.158	25	4.35	1.24
SHUT_DOWN	01/27/2019	20:13	~	01/27/2019	20:25	13	2151.7	13	63.1	13	1.023	13	10.214	13	0.17	0.02
START_UP	01/28/2019	06:24	~	01/28/2019	06:48	25	13364.2	25	1353.6	25	200.55	25	348.383	25	5.81	3.34
SHUT_DOWN	01/28/2019	07:59	~	01/28/2019	08:11	13	2293.7	13	81.4	13	1.119	13	7.45	13	0.12	0.02
START_UP	01/28/2019	12:53	~	01/28/2019	13:17	25	10709.6	25	950.8	25	56.533	25	250.283	25	4.17	0.94
SHUT_DOWN	01/28/2019	14:59	~	01/28/2019	15:11	13	2271.1	13	80.5	13	0.934	13	9.018	13	0.15	0.02
START_UP	01/28/2019	17:53	~	01/28/2019	18:17	25	11522.6	25	1091.5	25	107.003	25	251.608	25	4.19	1.78
SHUT_DOWN	01/28/2019	19:29	~	01/28/2019	19:41	13	2051	13	53.2	13	0.87	13	9.534	13	0.16	0.01
START_UP	01/29/2019	15:39	~	01/29/2019	16:03	25	11165.9	25	1034.2	25	335.332	25	475.942	25	7.93	5.59
SHUT_DOWN	01/29/2019	22:58	~	01/29/2019	23:10	13	2038.3	13	52.4	13	0.789	13	7.806	13	0.13	0.01
START_UP	01/30/2019	05:53	~	01/30/2019	06:17	25	9206.8	25	757.4	25	166.256	21	274.608	21	4.58	2.77
SHUT_DOWN	01/30/2019	08:58	~	01/30/2019	09:10	13	2064.1	13	53.7	13	0.668	13	7.924	13	0.13	0.01
START_UP	01/30/2019	15:54	~	01/30/2019	16:18	25	9064.1	25	729.6	25	60.03	25	282.124	25	4.70	1.00
SHUT_DOWN	01/30/2019	22:58	~	01/30/2019	23:10	13	2079.1	13	55.7	13	0.747	13	7.807	13	0.13	0.01
START_UP	01/31/2019	05:56	~	01/31/2019	06:20	25	8488.4	25	641.4	25	66.165	25	291.12	25	4.85	1.10
SHUT_DOWN	01/31/2019	08:58	~	01/31/2019	09:10	13	2006.5	13	46.3	13	0.942	13	6.463	13	0.11	0.02
START_UP	01/31/2019	16:38	~	01/31/2019	17:02	25	10254	25	919.5	25	187.484	25	291.333	25	4.86	3.12
SHUT_DOWN	01/31/2019	20:13	~	01/31/2019	20:25	13	2058.3	13	53	13	1.267	13	5.64	13	0.09	0.02
START_UP	01/31/2019	21:08	~	01/31/2019	21:32	25	11232.1	25	1028	25	68.778	25	115.039	25	1.92	1.15
SHUT_DOWN	01/31/2019	22:59	~	01/31/2019	23:11	13	2198.5	13	70.7	13	1.048	13	9.091	13	0.15	0.02
START_UP	02/01/2019	05:53	~	02/01/2019	06:17	25	8149.3	25	601.7	25	163.719	25	267.016	25	4.45	2.73
SHUT_DOWN	02/01/2019	07:58	~	02/01/2019	08:10	13	2136.8	13	60.8	13	0.891	13	9.185	13	0.15	0.01
START_UP	02/01/2019	16:23	~	02/01/2019	16:47	25	8350.101	25	635.4	25	172.616	15	298.858	25	4.98	2.88
SHUT_DOWN	02/01/2019	18:58	~	02/01/2019	19:10	13	2103.2	13	58.5	13	0	13	8.972	13	0.15	0.00
START_UP	02/02/2019	06:53	~	02/02/2019	07:17	25	9196.899	25	743.5	25	152.07	23	858.443	25	14.31	2.53
SHUT_DOWN	02/02/2019	07:23	~	02/02/2019	07:35	13	2055.3	13	49.8	13	0	13	222.066	13	3.70	0.00
START_UP	02/04/2019	16:34	~	02/04/2019	16:58	25	8542.301	25	661.3	25	106.246	25	343.093	25	5.72	1.77
SHUT_DOWN	02/04/2019	23:58	~	02/05/2019	00:10	13	2160	13	65.7	13	0	13	15.893	13	0.26	0.00
START_UP	02/05/2019	05:54	~	02/05/2019	06:18	25	11031.9	25	997.2	25	42.834	25	333.469	25	5.56	0.71
SHUT_DOWN	02/05/2019	08:13	~	02/05/2019	08:25	13	2091.5	13	58.8	13	0	12	14.301	13	0.24	0.00
START_UP	02/05/2019	16:24	~	02/05/2019	16:48	25	8016.7	25	588.4	25	193.332	19	271.354	25	4.52	3.22
SHUT_DOWN	02/05/2019	22:13	~	02/05/2019	22:25	13	2046.5	13	53	13	0	13	18.454	13	0.31	0.00
START_UP	02/06/2019	06:09	~	02/06/2019	06:33	25	14728.9	25	1576.5	25	46.197	25	489.712	25	8.16	0.77
SHUT_DOWN	02/06/2019	07:58	~	02/06/2019	08:10	13	2107.8	13	58.8	13	0	13	21.986	13	0.37	0.00
START_UP	02/06/2019	17:24	~	02/06/2019	17:48	25	9441.801	25	782.4	25	54.723	21	377.891	25	6.30	0.91
SHUT_DOWN	02/06/2019	20:58	~	02/06/2019	21:10	13	2075.8	13	52.8	13	0	13	17.984	13	0.30	0.00
START_UP	02/07/2019	05:54	~	02/07/2019	06:18	25	8261.3	25	606.5	25	47.957	19	282.137	19	4.70	0.80
SHUT_DOWN	02/07/2019	07:43	~	02/07/2019	07:55	13	2102.6	13	56.8	13	0	13	21.696	13	0.36	0.00
START_UP	02/07/2019	16:39	~	02/07/2019	17:03	25	16870.7	25	1882.2	25	33.879	25	430.442	25	7.17	0.56
SHUT_DOWN	02/07/2019	19:44	~	02/07/2019	19:56	13	2089.7	13	55.1	13	0	13	12.487	13	0.21	0.00
START_UP	02/08/2019	05:54	~	02/08/2019	06:18	25	11695.3	25	1111	25	51.653	25	332.178	25	5.54	0.86
SHUT_DOWN	02/08/2019	07:28	~	02/08/2019	07:40	13	2174	13	62.3	13	0	13	13.605	13	0.23	0.00
START_UP	02/08/2019	16:39	~	02/08/2019	17:03	25	11595.7	25	1073	25	209.256	25	287.544	25	4.79	3.49
SHUT_DOWN	02/08/2019	19:58	~	02/08/2019	20:10	13	2132.4	13	59.7	13	0	13	10.644	13	0.18	0.00
START_UP	02/09/2019	06:09	~	02/09/2019	06:33	25	8071.9	25	578.9	25	197.718	25	298.734	25	4.98	3.30
SHUT_DOWN	02/09/2019	07:13	~	02/09/2019	07:25	13	2077.6	13	52.8	13	0	13	9.742	13	0.16	0.00
START_UP	02/09/2019	09:38	~	02/09/2019	10:02	25	12903	25	1276.6	25	56.06	25	165.38	25	2.76	0.93

SHUT_DOWN	02/09/2019	10:43	~	02/09/2019	10:55	13	2043.2	13	48	13	0	12	9.229	13	0.15	0.00
START_UP	02/12/2019	05:54	~	02/12/2019	06:18	25	8248.4	25	589.7	25	190.473	16	312.774	16	5.21	3.17
SHUT_DOWN	02/12/2019	07:59	~	02/12/2019	08:11	13	2163.3	13	63.4	13	0	13	17.93	13	0.30	0.00
START_UP	02/12/2019	14:38	~	02/12/2019	15:02	25	9068.9	25	724.8	25	145.089	25	274.228	25	4.57	2.42
SHUT_DOWN	02/12/2019	22:58	~	02/12/2019	23:10	13	2074.4	13	52.7	13	0	13	9.587	13	0.16	0.00
START_UP	02/13/2019	05:53	~	02/13/2019	06:17	25	8361.1	25	622.2	25	126.315	25	268.383	25	4.47	2.11
SHUT_DOWN	02/13/2019	09:58	~	02/13/2019	10:10	13	2056.1	13	49.7	13	0	13	9.284	13	0.15	0.00
START_UP	02/13/2019	14:53	~	02/13/2019	15:17	25	8195.6	25	587.2	25	216.271	10	209.48	10	3.49	3.60
SHUT_DOWN	02/13/2019	22:58	~	02/13/2019	23:10	13	2106.8	13	56.9	13	0	13	8.76	13	0.15	0.00
START_UP	02/14/2019	05:54	~	02/14/2019	06:18	25	8236.1	25	598.8	25	199.714	25	259.623	25	4.33	3.33
SHUT_DOWN	02/14/2019	23:58	~	02/15/2019	00:10	13	2141	13	60.2	13	0	13	9.438	13	0.16	0.00
START_UP	02/15/2019	05:54	~	02/15/2019	06:18	25	8486.5	25	632.5	25	240.714	25	260.582	25	4.34	4.01
SHUT_DOWN	02/15/2019	10:58	~	02/15/2019	11:10	13	2105.4	13	56.1	13	0	13	9.139	13	0.15	0.00
START_UP	02/15/2019	13:53	~	02/15/2019	14:17	25	8906.6	25	688.4	25	50.698	25	181.337	25	3.02	0.84
SHUT_DOWN	02/15/2019	22:58	~	02/15/2019	23:10	13	2107.6	13	55	13	0	13	9.275	13	0.15	0.00
START_UP	02/16/2019	06:24	~	02/16/2019	06:48	25	17722.8	25	1957.7	25	170.758	25	410.373	25	6.84	2.85
SHUT_DOWN	02/16/2019	08:15	~	02/16/2019	08:27	13	2568.2	13	115.5	13	0	13	11.057	13	0.18	0.00
START_UP	02/16/2019	15:39	~	02/16/2019	16:03	25	9868.802	25	831	25	144.491	25	316.509	25	5.28	2.41
SHUT_DOWN	02/16/2019	23:14	~	02/16/2019	23:26	13	2296.1	13	81.9	13	0	13	11.087	13	0.18	0.00
START_UP	02/17/2019	07:54	~	02/17/2019	08:18	25	19033	25	2168.2	25	190.653	17	432.272	17	7.20	3.18
SHUT_DOWN	02/17/2019	23:58	~	02/18/2019	00:10	13	2432.2	13	98.7	13	0	13	10.782	13	0.18	0.00
START_UP	02/18/2019	05:54	~	02/18/2019	06:18	25	8806.399	25	679.8	25	191.497	25	267.035	25	4.45	3.19
SHUT_DOWN	02/18/2019	09:58	~	02/18/2019	10:10	13	2110.3	13	58.8	13	0	13	13.807	13	0.23	0.00
START_UP	02/18/2019	15:53	~	02/18/2019	16:17	25	7961.3	25	585.6	25	152.484	15	234.637	15	3.91	2.54
SHUT_DOWN	02/18/2019	19:13	~	02/18/2019	19:25	13	2105.9	13	56.3	13	0	13	11.307	13	0.19	0.00
START_UP	02/18/2019	20:53	~	02/18/2019	21:17	25	8062	25	578.3	25	59.889	25	85.427	25	1.42	1.00
SHUT_DOWN	02/18/2019	23:58	~	02/19/2019	00:10	13	2072.5	13	52.7	13	0	13	13.062	13	0.22	0.00
START_UP	02/19/2019	05:53	~	02/19/2019	06:17	25	8328.801	25	625.2	25	143.541	24	299.925	24	5.00	2.39
SHUT_DOWN	02/19/2019	07:58	~	02/19/2019	08:10	13	2051.6	13	50.7	13	0	13	13.024	13	0.22	0.00
START_UP	02/19/2019	16:54	~	02/19/2019	17:18	25	10684.9	25	926.6	25	30.69	25	320.298	25	5.34	0.51
SHUT_DOWN	02/19/2019	23:58	~	02/20/2019	00:10	13	2195.3	13	67.6	13	0	13	11.537	13	0.19	0.00
START_UP	02/20/2019	15:53	~	02/20/2019	16:17	25	10581.1	25	957.5	25	137.781	17	353.851	16	5.90	2.30
SHUT_DOWN	02/20/2019	21:58	~	02/20/2019	22:10	13	2014.9	13	49.5	13	0	13	8.706	13	0.15	0.00
START_UP	02/21/2019	16:38	~	02/21/2019	17:02	25	8122.6	25	607.5	25	131.517	25	300.837	25	5.01	2.19
SHUT_DOWN	02/21/2019	22:58	~	02/21/2019	23:10	13	2059.3	13	52.5	13	0	13	11.35	13	0.19	0.00
START_UP	02/22/2019	05:54	~	02/22/2019	06:18	25	8099.5	25	586.7	25	47.17	25	278.379	25	4.64	0.79
SHUT_DOWN	02/22/2019	08:58	~	02/22/2019	09:10	13	2127.2	13	59.4	13	0	13	11.639	13	0.19	0.00
START_UP	02/22/2019	17:24	~	02/22/2019	17:48	25	19103	25	2169.9	25	184.931	25	501.179	25	8.35	3.08
SHUT_DOWN	02/22/2019	23:13	~	02/22/2019	23:25	13	2049.8	13	49.1	13	0	13	12.113	13	0.20	0.00
START_UP	02/23/2019	05:54	~	02/23/2019	06:18	25	8157.099	25	585.4	25	47.453	25	269.061	25	4.48	0.79
SHUT_DOWN	02/23/2019	07:58	~	02/23/2019	08:10	13	2123.3	13	57.8	13	0	13	13.134	13	0.22	0.00
START_UP	02/23/2019	16:49	~	02/23/2019	17:13	25	9750.601	25	811.5	25	77.833	25	362.49	25	6.04	1.30
SHUT_DOWN	02/23/2019	22:58	~	02/23/2019	23:10	13	1973.3	13	40.6	13	0	13	11.031	13	0.18	0.00
START_UP	02/24/2019	16:24	~	02/24/2019	16:48	25	8209.999	25	602.5	25	189.988	25	292.175	25	4.87	3.17
SHUT_DOWN	02/24/2019	22:58	~	02/24/2019	23:10	13	2036.5	13	49.2	13	0	13	9.553	13	0.16	0.00
START_UP	02/25/2019	05:54	~	02/25/2019	06:18	25	8051.4	25	580	25	59.437	25	265.64	25	4.43	0.99
SHUT_DOWN	02/25/2019	07:58	~	02/25/2019	08:10	13	2078.1	13	53.6	13	0	13	10.895	13	0.18	0.00
START_UP	02/25/2019	15:38	~	02/25/2019	16:02	25	15948	25	1741.6	25	128.526	25	356.383	25	5.94	2.14
SHUT_DOWN	02/25/2019	22:58	~	02/25/2019	23:10	13	2064.8	13	51.9	13	0	13	8.637	13	0.14	0.00
START_UP	02/26/2019	05:54	~	02/26/2019	06:18	25	8361.4	25	618.6	25	209.411	25	259.094	25	4.32	3.49
SHUT_DOWN	02/26/2019	11:43	~	02/26/2019	11:55	13	2215.3	13	68.2	13	0	13	6.384	13	0.11	0.00
START_UP	02/26/2019	12:39	~	02/26/2019	13:03	25	9481.3	25	793.8	25	9.759	25	100.937	25	1.68	0.16
SHUT_DOWN	02/26/2019	22:13	~	02/26/2019	22:25	13	2245.3	13	71.9	13	0	13	9.32	13	0.16	0.00
START_UP	02/27/2019	05:53	~	02/27/2019	06:17	25	8469.2	25	645.5	25	144.514	25	268.245	25	4.47	2.41

SHUT_DOWN	02/27/2019	08:58	~	02/27/2019	09:10	13	2052.3	13	50.5	13	0	13	7.9	13	0.13	0.00
START_UP	02/27/2019	15:53	~	02/27/2019	16:17	25	7769.2	25	551.9	25	141.848	25	248.538	25	4.14	2.36
SHUT_DOWN	02/27/2019	22:13	~	02/27/2019	22:25	13	2153	13	59.3	13	0	13	9.23	13	0.15	0.00
START_UP	02/28/2019	05:54	~	02/28/2019	06:18	25	8107.4	25	582	25	255.145	25	261.715	25	4.36	4.25
SHUT_DOWN	02/28/2019	08:58	~	02/28/2019	09:10	13	2320.1	13	83.7	13	0	13	9.471	13	0.16	0.00
START_UP	02/28/2019	14:53	~	02/28/2019	15:17	25	16137.5	25	1782.3	25	190.097	24	365.482	24	6.09	3.17
SHUT_DOWN	02/28/2019	22:28	~	02/28/2019	22:40	13	2089.2	13	54.7	13	0	13	8.08	13	0.13	0.00
START_UP	03/01/2019	05:53	~	03/01/2019	06:17	25	8309.1	25	631	25	144.192	25	266.861	25	4.45	2.40
SHUT_DOWN	03/01/2019	22:29	~	03/01/2019	22:41	13	2169.6	13	64.4	13	0	13	8.199	13	0.14	0.00
START_UP	03/02/2019	06:54	~	03/02/2019	07:18	25	11214.8	25	1048.9	25	77.77	25	286.294	25	4.77	1.30
SHUT_DOWN	03/02/2019	10:58	~	03/02/2019	11:10	13	2358.6	13	90.6	13	0	13	10.068	13	0.17	0.00
START_UP	03/02/2019	16:35	~	03/02/2019	16:59	25	7845.499	25	574	25	93.312	25	243.361	25	4.06	1.56
SHUT_DOWN	03/02/2019	20:58	~	03/02/2019	21:10	13	2106.7	13	58.9	13	0	13	7.907	13	0.13	0.00
START_UP	03/03/2019	05:53	~	03/03/2019	06:17	25	7745.7	25	554.5	25	180.735	25	262.594	25	4.38	3.01
SHUT_DOWN	03/03/2019	06:58	~	03/03/2019	07:10	13	2025.5	13	51	13	0	13	8.583	13	0.14	0.00
START_UP	03/03/2019	17:38	~	03/03/2019	18:02	25	8550.5	25	673.4	25	179.274	25	290.454	25	4.84	2.99
SHUT_DOWN	03/03/2019	21:13	~	03/03/2019	21:25	13	2054.1	13	52.3	13	0	13	9.366	13	0.16	0.00
START_UP	03/04/2019	05:54	~	03/04/2019	06:18	25	8067.7	25	578.3	25	198.525	25	275.129	25	4.59	3.31
SHUT_DOWN	03/04/2019	07:28	~	03/04/2019	07:40	13	2045.3	13	52.7	13	0	13	9.334	13	0.16	0.00
START_UP	03/04/2019	16:38	~	03/04/2019	17:02	25	8053.1	25	601.5	25	136.309	25	302.07	25	5.03	2.27
SHUT_DOWN	03/04/2019	23:58	~	03/05/2019	00:10	13	2229.7	13	78.1	13	0	13	11.455	13	0.19	0.00
START_UP	03/05/2019	05:53	~	03/05/2019	06:17	25	9853.501	25	850.5	25	134.264	25	323.69	25	5.39	2.24
SHUT_DOWN	03/05/2019	14:13	~	03/05/2019	14:25	13	1973.8	13	42.9	13	0	13	8.103	13	0.14	0.00
START_UP	03/05/2019	15:08	~	03/05/2019	15:32	25	8730.1	25	683.8	25	13.77	25	90.064	25	1.50	0.23
SHUT_DOWN	03/05/2019	21:43	~	03/05/2019	21:55	13	2029.4	13	49.8	13	0	13	8.12	13	0.14	0.00
START_UP	03/06/2019	05:53	~	03/06/2019	06:17	25	11580.3	25	1096.4	25	121.485	25	296.033	25	4.93	2.02
SHUT_DOWN	03/06/2019	10:59	~	03/06/2019	11:11	13	2364.7	13	91.5	13	0	13	10.995	13	0.18	0.00
START_UP	03/06/2019	16:38	~	03/06/2019	17:02	25	7722.601	25	548.9	25	124.808	25	232.436	25	3.87	2.08
SHUT_DOWN	03/06/2019	19:57	~	03/06/2019	20:09	13	2177.1	13	67.2	13	0	13	5.865	13	0.10	0.00
START_UP	03/07/2019	07:53	~	03/07/2019	08:17	25	10858.9	25	973.9	25	141.429	25	339.12	25	5.65	2.36
SHUT_DOWN	03/07/2019	09:59	~	03/07/2019	10:11	13	2240.3	13	77.7	13	0	13	8.327	13	0.14	0.00
START_UP	03/07/2019	11:38	~	03/07/2019	12:02	25	15755.2	25	1727.8	25	126.009	25	123.216	25	2.05	2.10
SHUT_DOWN	03/07/2019	20:27	~	03/07/2019	20:39	13	2092.4	13	56.6	13	0	13	10.074	13	0.17	0.00
START_UP	03/08/2019	06:38	~	03/08/2019	07:02	25	8289.5	25	611.4	25	78.754	25	272.142	25	4.54	1.31
SHUT_DOWN	03/08/2019	07:42	~	03/08/2019	07:54	13	2210.1	13	70.9	13	0	13	10.624	13	0.18	0.00
START_UP	03/08/2019	09:52	~	03/08/2019	10:16	25	7918.2	25	570.8	25	99.194	25	95.991	25	1.60	1.65
SHUT_DOWN	03/08/2019	12:43	~	03/08/2019	12:55	13	2118.7	13	54.8	13	0	13	6.772	13	0.11	0.00
START_UP	03/09/2019	06:53	~	03/09/2019	07:17	25	11160.2	25	1014.1	25	146.887	25	380.418	25	6.34	2.45
SHUT_DOWN	03/09/2019	08:59	~	03/09/2019	09:11	13	2354.4	13	89.3	13	0	13	12.041	13	0.20	0.00
START_UP	03/09/2019	15:23	~	03/09/2019	15:47	25	9435.7	25	785.9	25	111.91	25	291.046	25	4.85	1.87
SHUT_DOWN	03/09/2019	19:27	~	03/09/2019	19:39	13	2134.1	13	62.3	13	0	13	10.241	13	0.17	0.00
START_UP	03/10/2019	06:53	~	03/10/2019	07:17	25	11519.3	25	1060	25	77.346	25	351.11	25	5.85	1.29
SHUT_DOWN	03/10/2019	09:58	~	03/10/2019	10:10	13	2462.9	13	103	13	0	13	11.924	13	0.20	0.00
START_UP	03/10/2019	11:52	~	03/10/2019	12:16	25	10752	25	961.6	25	88.073	25	107.737	25	1.80	1.47
SHUT_DOWN	03/10/2019	15:59	~	03/10/2019	16:11	13	2203.6	13	70.5	13	0	13	10.051	13	0.17	0.00
START_UP	03/10/2019	17:37	~	03/10/2019	18:01	25	8842.801	25	695.6	25	103.106	25	106.274	25	1.77	1.72
SHUT_DOWN	03/10/2019	21:12	~	03/10/2019	21:24	13	2141.4	13	62.2	13	0	13	9.25	13	0.15	0.00
START_UP	03/11/2019	05:08	~	03/11/2019	05:32	25	10044.6	25	869	25	69.322	25	307.235	25	5.12	1.16
SHUT_DOWN	03/11/2019	09:12	~	03/11/2019	09:24	13	2254.3	13	80	13	0	13	10.933	13	0.18	0.00
START_UP	03/11/2019	12:37	~	03/11/2019	13:01	25	11373.5	25	1072.2	25	88.824	25	235.642	25	3.93	1.48
SHUT_DOWN	03/11/2019	21:27	~	03/11/2019	21:39	13	2270.7	13	82	13	0.097	13	9.189	13	0.15	0.00
START_UP	03/12/2019	04:53	~	03/12/2019	05:17	25	7952.399	25	578.2	25	111.392	25	256.169	25	4.27	1.86
SHUT_DOWN	03/12/2019	08:12	~	03/12/2019	08:24	13	2087.3	13	58.2	13	0	13	7.976	13	0.13	0.00
START_UP	03/12/2019	11:52	~	03/12/2019	12:16	25	7997.799	25	582.8	25	97.175	25	211.19	25	3.52	1.62

SHUT_DOWN	03/12/2019	13:32	~	03/12/2019	13:44	13	2658	13	134.4	13	0	13	10.852	13	0.18	0.00
START_UP	03/12/2019	18:07	~	03/12/2019	18:31	25	12682.6	25	1274.7	25	138.888	25	261.495	25	4.36	2.31
SHUT_DOWN	03/12/2019	19:12	~	03/12/2019	19:24	13	2174.7	13	66.8	13	0	13	12.072	13	0.20	0.00
START_UP	03/13/2019	10:23	~	03/13/2019	10:47	25	16741.9	25	1888.9	25	122.678	25	467.082	25	7.78	2.04
SHUT_DOWN	03/13/2019	15:59	~	03/13/2019	16:11	13	2433.7	13	102.4	13	0.198	13	7.799	13	0.13	0.00
START_UP	03/13/2019	16:52	~	03/13/2019	17:16	25	8022.499	25	582.2	25	11.213	25	75.513	25	1.26	0.19
SHUT_DOWN	03/13/2019	22:58	~	03/13/2019	23:10	13	1997.3	13	44.8	13	0.119	13	9.971	13	0.17	0.00
START_UP	03/14/2019	05:23	~	03/14/2019	05:47	25	12588.1	25	1239.4	25	59.203	25	319.762	25	5.33	0.99
SHUT_DOWN	03/14/2019	06:57	~	03/14/2019	07:09	13	2122.2	13	56.4	13	0	13	13.387	13	0.22	0.00
START_UP	03/14/2019	14:38	~	03/14/2019	15:02	25	7860.7	25	561.2	25	95.888	25	249.558	25	4.16	1.60
SHUT_DOWN	03/14/2019	19:12	~	03/14/2019	19:24	13	2180.4	13	65.5	13	0	13	9.814	13	0.16	0.00
START_UP	03/14/2019	20:08	~	03/14/2019	20:32	25	8046.699	25	583.8	25	15.382	25	85.898	25	1.43	0.26
SHUT_DOWN	03/14/2019	21:58	~	03/14/2019	22:10	13	1968.6	13	41.5	13	0	13	13.422	13	0.22	0.00
START_UP	03/15/2019	18:48	~	03/15/2019	19:12	25	8010.299	25	579.3	25	71.692	25	281.705	25	4.70	1.19
SHUT_DOWN	03/15/2019	21:12	~	03/15/2019	21:24	13	2112.4	13	59.8	13	0.04	13	10.671	13	0.18	0.00
START_UP	03/16/2019	10:53	~	03/16/2019	11:17	25	9499.198	25	781.3	25	87.205	19	307.942	19	5.13	1.45
SHUT_DOWN	03/16/2019	13:58	~	03/16/2019	14:10	13	2038.8	13	51.4	13	0	13	8.073	13	0.13	0.00
START_UP	03/16/2019	15:52	~	03/16/2019	16:16	25	8847.699	25	697.3	25	113.992	25	98.496	25	1.64	1.90
SHUT_DOWN	03/16/2019	16:58	~	03/16/2019	17:10	13	1992.3	13	47.7	13	0	13	7.45	13	0.12	0.00
START_UP	03/16/2019	17:52	~	03/16/2019	18:16	25	9998.601	25	875.6	25	11.725	25	112.71	25	1.88	0.20
SHUT_DOWN	03/16/2019	19:57	~	03/16/2019	20:09	13	2283.3	13	78.7	13	0	13	10.257	13	0.17	0.00
START_UP	03/17/2019	15:23	~	03/17/2019	15:47	25	14875	25	1615.5	25	137.985	25	402.34	25	6.71	2.30
SHUT_DOWN	03/17/2019	16:29	~	03/17/2019	16:41	13	2183.5	13	72.2	13	0.219	13	5.825	13	0.10	0.00
START_UP	03/17/2019	18:47	~	03/17/2019	19:11	25	8128.401	25	616	25	91.696	25	100.453	25	1.67	1.53
SHUT_DOWN	03/17/2019	20:46	~	03/17/2019	20:58	13	2097.9	13	59.7	13	0.04	13	9.13	13	0.15	0.00
START_UP	03/18/2019	05:38	~	03/18/2019	06:02	25	7748.8	25	560.1	25	74.175	25	277.478	25	4.62	1.24
SHUT_DOWN	03/18/2019	06:42	~	03/18/2019	06:54	13	2113.7	13	61.6	13	0.082	13	9.231	13	0.15	0.00
START_UP	03/18/2019	15:53	~	03/18/2019	16:17	25	11530.6	25	1085.4	25	54.478	25	328.261	25	5.47	0.91
SHUT_DOWN	03/18/2019	19:57	~	03/18/2019	20:09	13	2121.2	13	60.5	13	0.124	13	8.142	13	0.14	0.00
START_UP	03/19/2019	05:38	~	03/19/2019	06:02	25	15775.8	25	1732.5	25	95.138	25	407.21	25	6.79	1.59
SHUT_DOWN	03/19/2019	19:28	~	03/19/2019	19:40	13	2008.2	13	44.7	13	0	13	8.453	13	0.14	0.00
START_UP	03/20/2019	05:24	~	03/20/2019	05:48	25	8337.2	25	608.8	25	216.597	25	283.142	25	4.72	3.61
SHUT_DOWN	03/20/2019	15:28	~	03/20/2019	15:40	13	2119.8	13	57.3	13	0	13	8.427	13	0.14	0.00
START_UP	03/20/2019	17:23	~	03/20/2019	17:47	25	10647.6	25	944	25	59.567	25	114.179	25	1.90	0.99
SHUT_DOWN	03/20/2019	19:42	~	03/20/2019	19:54	13	2106.5	13	55.3	13	0	13	8.521	13	0.14	0.00
START_UP	03/21/2019	05:08	~	03/21/2019	05:32	25	8163.4	25	582.1	25	74.249	25	272.046	25	4.53	1.24
SHUT_DOWN	03/21/2019	06:28	~	03/21/2019	06:40	13	2649.7	13	126.7	13	0	13	15.951	13	0.27	0.00
START_UP	03/21/2019	07:52	~	03/21/2019	08:16	25	10829.8	25	958.9	25	108.145	25	106.241	25	1.77	1.80
SHUT_DOWN	03/21/2019	17:12	~	03/21/2019	17:24	13	2156.6	13	61.9	13	0	13	10.124	13	0.17	0.00
START_UP	03/22/2019	17:38	~	03/22/2019	18:02	25	15264.6	25	1648.4	25	71.472	25	424.307	25	7.07	1.19
SHUT_DOWN	03/22/2019	20:27	~	03/22/2019	20:39	13	2091.5	13	57.1	13	0	13	9.567	13	0.16	0.00
START_UP	03/23/2019	06:53	~	03/23/2019	07:17	25	11191.6	25	1017.1	25	57.748	25	339.904	25	5.67	0.96
SHUT_DOWN	03/23/2019	09:13	~	03/23/2019	09:25	13	2483.1	13	106.3	13	0	13	11.897	13	0.20	0.00
START_UP	03/23/2019	17:38	~	03/23/2019	18:02	25	9711.399	25	821.7	25	42.929	25	304.734	25	5.08	0.72
SHUT_DOWN	03/23/2019	20:12	~	03/23/2019	20:24	13	2111.3	13	58	13	0	13	7.993	13	0.13	0.00
START_UP	03/23/2019	21:07	~	03/23/2019	21:31	25	11060.7	25	993.9	25	23.053	25	94.006	25	1.57	0.38
SHUT_DOWN	03/23/2019	22:13	~	03/23/2019	22:25	13	2239.9	13	75.9	13	0	13	9.814	13	0.16	0.00
START_UP	03/24/2019	11:53	~	03/24/2019	12:17	25	18221.6	25	2066.1	25	64.928	25	467.086	25	7.78	1.08
SHUT_DOWN	03/24/2019	12:59	~	03/24/2019	13:11	13	2405.6	13	97.2	13	0.851	13	6.991	13	0.12	0.01
START_UP	03/24/2019	17:37	~	03/24/2019	18:01	25	12013.9	25	1177.9	25	102.211	25	281.894	25	4.70	1.70
SHUT_DOWN	03/24/2019	21:27	~	03/24/2019	21:39	13	2091.6	13	57.2	13	0	13	9.112	13	0.15	0.00
START_UP	03/25/2019	05:08	~	03/25/2019	05:32	25	7937.9	25	571.8	25	78.255	25	279.027	25	4.65	1.30
SHUT_DOWN	03/25/2019	07:27	~	03/25/2019	07:39	13	2137.8	13	61.7	13	0	13	9.698	13	0.16	0.00
START_UP	03/25/2019	10:52	~	03/25/2019	11:16	25	10557.3	25	937.7	25	111.49	25	216.243	25	3.60	1.86

SHUT_DOWN	03/25/2019	13:58	~	03/25/2019	14:10	13	2271.6	13	80.7	13	0	13	9.883	13	0.16	0.00
START_UP	03/25/2019	16:37	~	03/25/2019	17:01	25	10863.3	25	990.8	25	82.683	25	143.838	25	2.40	1.38
SHUT_DOWN	03/25/2019	20:12	~	03/25/2019	20:24	13	2133.4	13	62	13	0	13	9.069	13	0.15	0.00
START_UP	03/26/2019	05:38	~	03/26/2019	06:02	25	8721.699	25	677.3	25	62.965	22	286.987	22	4.78	1.05
SHUT_DOWN	03/26/2019	07:12	~	03/26/2019	07:24	13	2150.6	13	64	13	0.384	13	9.534	13	0.16	0.01
START_UP	03/26/2019	17:23	~	03/26/2019	17:47	25	12761.9	25	1273.9	25	48.938	25	373.939	25	6.23	0.82
SHUT_DOWN	03/26/2019	20:27	~	03/26/2019	20:39	13	2123.5	13	58.1	13	0	13	8.704	13	0.15	0.00
START_UP	03/26/2019	21:22	~	03/26/2019	21:46	25	7905.5	25	572.9	25	65.616	25	90.296	25	1.50	1.09
SHUT_DOWN	03/26/2019	22:42	~	03/26/2019	22:54	13	2097.2	13	57.6	13	0	13	10.508	13	0.18	0.00
START_UP	03/27/2019	05:53	~	03/27/2019	06:17	25	8143.201	25	598.3	25	72.542	25	271.291	25	4.52	1.21
SHUT_DOWN	03/27/2019	07:13	~	03/27/2019	07:25	13	2483	13	106.8	13	0.464	13	8.608	13	0.14	0.01
START_UP	03/27/2019	15:53	~	03/27/2019	16:17	25	8057.8	25	585	25	60.332	25	276.164	25	4.60	1.01
SHUT_DOWN	03/27/2019	16:57	~	03/27/2019	17:09	13	2385.7	13	92.4	13	0	13	6.908	13	0.12	0.00
START_UP	03/27/2019	18:22	~	03/27/2019	18:46	25	15622.7	25	1689.1	25	116.851	25	180.466	25	3.01	1.95
SHUT_DOWN	03/27/2019	19:27	~	03/27/2019	19:39	13	2285.9	13	80.2	13	0.378	13	16.712	13	0.28	0.01
START_UP	03/28/2019	05:23	~	03/28/2019	05:47	25	9650.801	25	811.3	25	135.161	25	292.398	25	4.87	2.25
SHUT_DOWN	03/28/2019	08:57	~	03/28/2019	09:09	13	2181.2	13	64	13	0.386	13	9.254	13	0.15	0.01
START_UP	03/28/2019	10:52	~	03/28/2019	11:16	25	8138.499	25	590.1	25	118.566	16	74.554	16	1.24	1.98
SHUT_DOWN	03/28/2019	15:57	~	03/28/2019	16:09	13	2161.9	13	63.6	13	0.383	13	7.693	13	0.13	0.01
START_UP	03/28/2019	17:22	~	03/28/2019	17:46	25	12059.5	25	1169.3	25	126.729	25	121.699	25	2.03	2.11
SHUT_DOWN	03/28/2019	19:12	~	03/28/2019	19:24	13	2125.7	13	58.2	13	0.389	13	9.92	13	0.17	0.01
START_UP	03/29/2019	05:23	~	03/29/2019	05:47	25	10467.5	25	930.6	25	65.411	25	324.797	25	5.41	1.09
SHUT_DOWN	03/29/2019	06:27	~	03/29/2019	06:39	13	2096.8	13	56.4	13	0.728	13	9.247	13	0.15	0.01
START_UP	03/29/2019	10:52	~	03/29/2019	11:16	25	9309.601	25	765.7	25	86.089	25	259.444	25	4.32	1.43
SHUT_DOWN	03/29/2019	13:57	~	03/29/2019	14:09	13	2128.7	13	60.8	13	0.384	13	10.335	13	0.17	0.01
START_UP	03/29/2019	18:22	~	03/29/2019	18:46	25	8079.4	25	590.5	25	106.134	25	247.235	25	4.12	1.77
SHUT_DOWN	03/29/2019	19:27	~	03/29/2019	19:39	13	2125.2	13	59.3	13	0.388	13	8.868	13	0.15	0.01
START_UP	03/30/2019	05:23	~	03/30/2019	05:47	25	10162.1	25	880	25	64.353	25	312.478	25	5.21	1.07
SHUT_DOWN	03/30/2019	09:58	~	03/30/2019	10:10	13	2321.2	13	85.1	13	0.505	13	14.028	13	0.23	0.01
START_UP	03/30/2019	16:53	~	03/30/2019	17:17	25	9879.6	25	844.2	25	259.846	25	265.188	25	4.42	4.33
SHUT_DOWN	03/30/2019	21:57	~	03/30/2019	22:09	13	2086	13	56.6	13	0.385	13	9.085	13	0.15	0.01
START_UP	03/31/2019	05:23	~	03/31/2019	05:47	25	7978.399	25	573.5	25	66.439	25	274.715	25	4.58	1.11
SHUT_DOWN	03/31/2019	07:58	~	03/31/2019	08:10	13	2068.1	13	53	13	1.032	13	5.974	13	0.10	0.02
START_UP	03/31/2019	11:52	~	03/31/2019	12:16	25	7948.9	25	586	25	87.71	25	217.506	25	3.63	1.46
SHUT_DOWN	03/31/2019	14:58	~	03/31/2019	15:10	13	2080.3	13	58.2	13	1.09	13	6.49	13	0.11	0.02
START_UP	03/31/2019	16:53	~	03/31/2019	17:17	25	8123.199	25	598.1	25	237.708	19	154.782	19	2.58	3.96
SHUT_DOWN	03/31/2019	21:12	~	03/31/2019	21:24	13	2084.5	13	57.7	13	0.786	13	9.088	13	0.15	0.01

Startup / ShutDown Report
 Generated: 4/23/2019 06:39
 StartUp/ShutDown Event Report NRG Carlsbad Unit 8
 Carlsbad Unit 8

Company: NRG Carlsbad
 Plant: 4600 Carlsbad Blvd
 City/St: Carlsbad, CA 92008

Period Start: 1/1/2019 00:00
 Period End: 3/31/2019 23:59
 Unit Name: Unit8

Events	Time	Duration (min)	Total 8_GasFlow (kscfh)		Total 8Gross_MW (MW)		Total 8COLBHR (LBHR)		Total 8NOXLBHR (LBHR)		NOx Lbs/Event	CO Lbs/Event
			Valid Mins	8Gross_MW	Valid Mins	8COLBHR	Valid Mins	8NOXLBHR				
START_UP	01/01/2019 18:40 ~ 01/01/2019 19:04	25	8313.1	25	609.4	25	140.716	21	316.585	21	5.28	2.35
SHUT_DOWN	01/01/2019 20:28 ~ 01/01/2019 20:40	13	2090.7	13	48.8	13	0	13	15.705	13	0.26	0.00
START_UP	01/02/2019 11:42 ~ 01/02/2019 12:06	25	12158.6	25	1141.3	25	169.453	12	379.911	12	6.33	2.82
SHUT_DOWN	01/02/2019 13:43 ~ 01/02/2019 13:55	13	2198.9	13	63.9	13	0	13	12.47	13	0.21	0.00
START_UP	01/02/2019 16:54 ~ 01/02/2019 17:18	25	8073.899	25	578.1	25	47.674	25	228.072	25	3.80	0.79
SHUT_DOWN	01/02/2019 17:40 ~ 01/02/2019 17:52	13	1672.3	13	6.5	13	0	13	13.618	13	0.23	0.00
START_UP	01/02/2019 18:34 ~ 01/02/2019 18:58	25	8060.4	25	578.5	25	82.987	25	96.391	25	1.61	1.38
SHUT_DOWN	01/02/2019 19:59 ~ 01/02/2019 20:11	13	1981.9	13	39.4	13	0	13	15.602	13	0.26	0.00
START_UP	01/03/2019 17:24 ~ 01/03/2019 17:48	25	13463	25	1355.3	25	141.341	25	530.471	25	8.84	2.36
SHUT_DOWN	01/03/2019 18:28 ~ 01/03/2019 18:40	13	2177.3	13	60.4	13	0	13	10.913	13	0.18	0.00
START_UP	01/07/2019 15:54 ~ 01/07/2019 16:18	25	8150.3	25	584	25	145.634	25	292.325	25	4.87	2.43
SHUT_DOWN	01/07/2019 18:58 ~ 01/07/2019 19:10	13	2241.2	13	67.5	13	1.508	13	12.121	13	0.20	0.03
START_UP	01/08/2019 05:54 ~ 01/08/2019 06:18	25	8741.5	25	660.9	25	87.728	24	291.066	24	4.85	1.46
SHUT_DOWN	01/08/2019 07:59 ~ 01/08/2019 08:11	13	1994.3	13	38.4	13	1.985	13	10.213	13	0.17	0.03
START_UP	01/08/2019 17:39 ~ 01/08/2019 18:03	25	8007.8	25	575.7	25	35.363	25	265.059	25	4.42	0.59
SHUT_DOWN	01/08/2019 19:15 ~ 01/08/2019 19:27	13	2314.4	13	78.7	13	1.8	13	14.794	13	0.25	0.03
START_UP	01/09/2019 05:54 ~ 01/09/2019 06:18	25	8665.899	25	646.8	25	113.16	25	305.073	25	5.08	1.89
SHUT_DOWN	01/09/2019 07:58 ~ 01/09/2019 08:10	13	2183.3	13	59.8	13	2.501	13	11.062	13	0.18	0.04
START_UP	01/09/2019 15:54 ~ 01/09/2019 16:18	25	8769.801	25	661.1	25	147.337	25	248.348	25	4.14	2.46
SHUT_DOWN	01/09/2019 16:58 ~ 01/09/2019 17:10	13	2107.7	13	52	13	1.666	13	7.44	13	0.12	0.03
START_UP	01/09/2019 19:53 ~ 01/09/2019 20:17	25	8232.201	25	590.1	25	90.836	25	205.879	25	3.43	1.51
SHUT_DOWN	01/09/2019 22:13 ~ 01/09/2019 22:25	13	2266.2	13	71	13	1.785	13	9.664	13	0.16	0.03
START_UP	01/10/2019 15:54 ~ 01/10/2019 16:18	25	8087.4	25	571.7	25	88.27	19	269.038	19	4.48	1.47
SHUT_DOWN	01/10/2019 16:58 ~ 01/10/2019 17:10	13	2163.8	13	59.5	13	0	13	9.359	13	0.16	0.00
START_UP	01/11/2019 05:54 ~ 01/11/2019 06:18	25	8013.3	25	569.8	25	279.919	16	273.98	16	4.57	4.67
SHUT_DOWN	01/11/2019 08:29 ~ 01/11/2019 08:41	13	2029.5	13	44.1	13	0	13	10.74	13	0.18	0.00
START_UP	01/11/2019 16:24 ~ 01/11/2019 16:48	25	9402.1	25	750.5	25	84.656	25	296.505	25	4.94	1.41
SHUT_DOWN	01/11/2019 21:28 ~ 01/11/2019 21:40	13	2205.5	13	62.3	13	0	13	9.734	13	0.16	0.00
START_UP	01/12/2019 16:54 ~ 01/12/2019 17:18	25	8100.001	25	577.7	25	78.544	20	271.062	20	4.52	1.31
SHUT_DOWN	01/12/2019 21:43 ~ 01/12/2019 21:55	13	2214.9	13	63.9	13	0	13	10.716	13	0.18	0.00
START_UP	01/13/2019 06:54 ~ 01/13/2019 07:18	25	8635	25	636.4	25	77.435	18	265.701	18	4.43	1.29
SHUT_DOWN	01/13/2019 07:58 ~ 01/13/2019 08:10	13	2148.3	13	58.2	13	0.417	13	11.51	13	0.19	0.01
START_UP	01/13/2019 15:54 ~ 01/13/2019 16:18	25	8183.899	25	585	25	114.757	25	259.37	25	4.32	1.91
SHUT_DOWN	01/13/2019 21:58 ~ 01/13/2019 22:10	13	2114.4	13	54.4	13	0	13	10.198	13	0.17	0.00
START_UP	01/14/2019 07:01 ~ 01/14/2019 07:25	25	10893.5	25	958	25	231.684	15	347.389	15	5.79	3.86
SHUT_DOWN	01/14/2019 22:28 ~ 01/14/2019 22:40	13	2112.2	13	54.3	13	0	10	8.618	13	0.14	0.00
START_UP	01/15/2019 15:38 ~ 01/15/2019 16:02	25	8764.999	25	673.4	25	206.597	12	318.009	25	5.30	3.44
SHUT_DOWN	01/15/2019 22:13 ~ 01/15/2019 22:25	13	2177.2	13	61.7	13	0	5	8.701	13	0.15	0.00
START_UP	01/16/2019 05:54 ~ 01/16/2019 06:18	25	8123.7	25	581.2	25	0	4	11.227	4	0.19	0.00
SHUT_DOWN	01/16/2019 09:29 ~ 01/16/2019 09:41	13	2120.8	13	52.7	13	0	13	9.024	13	0.15	0.00
START_UP	01/16/2019 14:23 ~ 01/16/2019 14:47	25	8348.701	25	606.7	25	82.284	9	247.959	25	4.13	1.37

SHUT_DOWN	01/16/2019	22:43	~	01/16/2019	22:55	13	2179.9	13	63.4	13	0	12	9.33	13	0.16	0.00
START_UP	01/17/2019	05:53	~	01/17/2019	06:17	25	7882.1	25	565.1	25	56.564	14	240.025	24	4.00	0.94
SHUT_DOWN	01/17/2019	08:58	~	01/17/2019	09:10	13	2234.9	13	68.6	13	0	13	9.24	13	0.15	0.00
START_UP	01/17/2019	16:08	~	01/17/2019	16:32	25	7924.5	25	563.2	25	173.555	25	250.319	25	4.17	2.89
SHUT_DOWN	01/17/2019	19:58	~	01/17/2019	20:10	13	2169.7	13	59.2	13	0	13	6.259	13	0.10	0.00
START_UP	01/18/2019	06:09	~	01/18/2019	06:33	25	8095.101	25	578.9	25	256.024	25	274.213	25	4.57	4.27
SHUT_DOWN	01/18/2019	07:58	~	01/18/2019	08:10	13	2175.5	13	57.7	13	0	13	8.93	13	0.15	0.00
START_UP	01/18/2019	21:54	~	01/18/2019	22:18	25	8113.7	25	567.1	25	82.157	25	284.582	25	4.74	1.37
SHUT_DOWN	01/18/2019	23:43	~	01/18/2019	23:55	13	2112.8	13	51.9	13	0	13	9.79	13	0.16	0.00
START_UP	01/19/2019	05:54	~	01/19/2019	06:18	25	8672.9	25	644.9	25	95.316	25	303.332	25	5.06	1.59
SHUT_DOWN	01/19/2019	07:58	~	01/19/2019	08:10	13	2299.1	13	73.6	13	0	13	10.738	13	0.18	0.00
START_UP	01/19/2019	16:23	~	01/19/2019	16:47	25	8206.9	25	601	25	228.567	25	280.801	25	4.68	3.81
SHUT_DOWN	01/19/2019	21:43	~	01/19/2019	21:55	13	2188.1	13	63.2	13	0	13	9.8	13	0.16	0.00
START_UP	01/20/2019	16:50	~	01/20/2019	17:14	25	9855.7	25	824.7	25	150.026	18	319.281	25	5.32	2.50
SHUT_DOWN	01/20/2019	18:59	~	01/20/2019	19:11	13	2368.9	13	86.1	13	0	13	12.755	13	0.21	0.00
START_UP	01/21/2019	05:54	~	01/21/2019	06:18	25	8266	25	597.4	25	151.372	25	283.012	25	4.72	2.52
SHUT_DOWN	01/21/2019	08:43	~	01/21/2019	08:55	13	2174.4	13	61.1	13	0	13	10.376	13	0.17	0.00
START_UP	01/21/2019	17:34	~	01/21/2019	17:58	25	18566.2	25	2084.8	25	280.583	25	474.54	25	7.91	4.68
SHUT_DOWN	01/21/2019	22:28	~	01/21/2019	22:40	13	2315.9	13	77	13	0	13	10.838	13	0.18	0.00
START_UP	01/22/2019	05:54	~	01/22/2019	06:18	25	8608.3	25	642.6	25	114.914	25	264.167	25	4.40	1.92
SHUT_DOWN	01/22/2019	07:58	~	01/22/2019	08:10	13	2113.3	13	56.8	13	0	13	10.394	13	0.17	0.00
START_UP	01/22/2019	16:38	~	01/22/2019	17:02	25	8800.5	25	675.8	25	198.844	25	261.016	25	4.35	3.31
SHUT_DOWN	01/22/2019	21:13	~	01/22/2019	21:25	13	2092.3	13	47.4	13	0	13	17.038	13	0.28	0.00
START_UP	01/23/2019	05:54	~	01/23/2019	06:18	25	10981.5	25	958.4	25	87.974	25	318.628	25	5.31	1.47
SHUT_DOWN	01/23/2019	09:28	~	01/23/2019	09:40	13	2113.5	13	54.1	13	0	13	11.373	13	0.19	0.00
START_UP	01/23/2019	13:23	~	01/23/2019	13:47	25	12959.3	25	1262.4	25	99.743	25	291.318	25	4.86	1.66
SHUT_DOWN	01/23/2019	15:14	~	01/23/2019	15:26	13	2307.1	13	76.3	13	0.193	13	9.66	13	0.16	0.00
START_UP	01/23/2019	17:49	~	01/23/2019	18:13	25	9680.9	25	800.9	25	156.65	25	101.376	25	1.69	2.61
SHUT_DOWN	01/23/2019	19:58	~	01/23/2019	20:10	13	2182.1	13	62.2	13	0	13	10.677	13	0.18	0.00
START_UP	01/24/2019	05:54	~	01/24/2019	06:18	25	8345.2	25	612.3	25	60.002	25	283.231	25	4.72	1.00
SHUT_DOWN	01/24/2019	07:58	~	01/24/2019	08:10	13	2134.9	13	58.7	13	0.043	13	13.056	13	0.22	0.00
START_UP	01/24/2019	17:54	~	01/24/2019	18:18	25	8565.3	25	645.8	25	66.934	22	257.659	22	4.29	1.12
SHUT_DOWN	01/24/2019	19:13	~	01/24/2019	19:25	13	2211.3	13	66.4	13	0.047	13	11.418	13	0.19	0.00
START_UP	01/25/2019	05:54	~	01/25/2019	06:18	25	8816.701	25	680.8	25	121.314	25	304.384	25	5.07	2.02
SHUT_DOWN	01/25/2019	19:56	~	01/25/2019	20:08	13	2422.5	13	92.5	13	0	13	11.664	13	0.19	0.00
START_UP	01/26/2019	05:54	~	01/26/2019	06:18	25	8145.4	25	585.3	25	146.155	25	269.251	25	4.49	2.44
SHUT_DOWN	01/26/2019	06:59	~	01/26/2019	07:11	13	2060.4	13	48.4	13	0	13	10.191	13	0.17	0.00
START_UP	01/27/2019	08:24	~	01/27/2019	08:48	25	8178.5	25	589.6	25	75.612	22	281.695	22	4.69	1.26
SHUT_DOWN	01/27/2019	09:28	~	01/27/2019	09:40	13	2109.2	13	53.7	13	0	13	10.563	13	0.18	0.00
START_UP	01/27/2019	16:24	~	01/27/2019	16:48	25	8258.8	25	610.9	25	102.355	25	246.797	25	4.11	1.71
SHUT_DOWN	01/27/2019	20:13	~	01/27/2019	20:25	13	2209.3	13	66.8	13	0	10	10.562	13	0.18	0.00
START_UP	01/28/2019	06:23	~	01/28/2019	06:47	25	12520.8	25	1243.1	25	70.329	25	348.498	24	5.81	1.17
SHUT_DOWN	01/28/2019	07:59	~	01/28/2019	08:11	13	2457.2	13	100.2	13	0.408	13	9.472	13	0.16	0.01
START_UP	01/28/2019	16:39	~	01/28/2019	17:03	25	8971.801	25	711.4	25	77.613	25	296.841	25	4.95	1.29
SHUT_DOWN	01/28/2019	19:29	~	01/28/2019	19:41	13	2012.5	13	45.3	13	0	13	6.675	13	0.11	0.00
START_UP	01/29/2019	06:24	~	01/29/2019	06:48	25	7916	25	567.7	25	83.122	25	277.253	25	4.62	1.39
SHUT_DOWN	01/29/2019	07:28	~	01/29/2019	07:40	13	2148	13	61	13	0	13	9.605	13	0.16	0.00
START_UP	01/29/2019	17:08	~	01/29/2019	17:32	25	13706.6	25	1428.8	25	86.073	25	340.979	25	5.68	1.43
SHUT_DOWN	01/29/2019	22:58	~	01/29/2019	23:10	13	2096.8	13	56.6	13	0	13	9.092	13	0.15	0.00
START_UP	01/30/2019	05:53	~	01/30/2019	06:17	25	9259.3	25	757	25	37.675	19	267.92	21	4.47	0.63
SHUT_DOWN	01/30/2019	08:58	~	01/30/2019	09:10	13	2123.4	13	57.8	13	0	13	8.953	13	0.15	0.00
START_UP	01/30/2019	15:54	~	01/30/2019	16:18	25	9002.7	25	719.6	25	98.63	25	275.574	25	4.59	1.64
SHUT_DOWN	01/30/2019	22:58	~	01/30/2019	23:10	13	2123	13	58	13	0	13	9.213	13	0.15	0.00
START_UP	01/31/2019	05:56	~	01/31/2019	06:20	25	8503.699	25	638.2	25	128.717	25	275.009	25	4.58	2.15

SHUT_DOWN	01/31/2019	08:58	~	01/31/2019	09:10	13	2023.1	13	45.5	13	0	13	7.769	13	0.13	0.00
START_UP	01/31/2019	16:38	~	01/31/2019	17:02	25	10292.1	25	918.2	25	237.629	23	284.776	25	4.75	3.96
SHUT_DOWN	01/31/2019	20:13	~	01/31/2019	20:25	13	2082.3	13	53.5	13	0.078	13	6.749	13	0.11	0.00
START_UP	02/01/2019	05:53	~	02/01/2019	06:17	25	8155.8	25	598.6	25	51.452	25	272.493	25	4.54	0.86
SHUT_DOWN	02/01/2019	07:59	~	02/01/2019	08:11	13	2097.3	13	54.5	13	0	13	11.432	13	0.19	0.00
START_UP	02/01/2019	16:24	~	02/01/2019	16:48	25	8646.7	25	655.2	25	318.656	25	298.319	25	4.97	5.31
SHUT_DOWN	02/01/2019	18:58	~	02/01/2019	19:10	13	2145.3	13	60.5	13	0	13	9.926	13	0.17	0.00
START_UP	02/02/2019	07:28	~	02/02/2019	07:52	25	11886.4	25	1135.7	25	58.22	25	460.262	25	7.67	0.97
SHUT_DOWN	02/02/2019	21:58	~	02/02/2019	22:10	13	2234.1	13	75.2	13	0	13	10.635	13	0.18	0.00
START_UP	02/03/2019	05:53	~	02/03/2019	06:17	25	7653.5	25	549.7	25	36.168	25	245.719	25	4.10	0.60
SHUT_DOWN	02/03/2019	07:58	~	02/03/2019	08:10	13	2135.6	13	62.2	13	0	13	9.562	13	0.16	0.00
START_UP	02/04/2019	05:54	~	02/04/2019	06:18	25	8011.7	25	577.7	25	89.916	25	278.453	25	4.64	1.50
SHUT_DOWN	02/04/2019	10:59	~	02/04/2019	11:11	13	2249	13	75	13	0.81	13	9.055	13	0.15	0.01
START_UP	02/04/2019	17:49	~	02/04/2019	18:13	25	11884.4	25	1147.5	25	80.452	25	401.809	25	6.70	1.34
SHUT_DOWN	02/04/2019	23:58	~	02/05/2019	00:10	13	2209.4	13	68.5	13	0	13	12	13	0.20	0.00
START_UP	02/05/2019	05:54	~	02/05/2019	06:18	25	11047	25	991.3	25	114.906	25	355.462	25	5.92	1.92
SHUT_DOWN	02/05/2019	07:14	~	02/05/2019	07:26	13	2235.9	13	77.4	13	1.201	13	10.206	13	0.17	0.02
START_UP	02/05/2019	16:24	~	02/05/2019	16:48	25	8032.9	25	585.4	25	289.612	25	285.991	25	4.77	4.83
SHUT_DOWN	02/05/2019	22:13	~	02/05/2019	22:25	13	2240.4	13	74.1	13	0	13	17.396	13	0.29	0.00
START_UP	02/06/2019	06:09	~	02/06/2019	06:33	25	14638.8	25	1560.1	25	127.044	25	482.064	25	8.03	2.12
SHUT_DOWN	02/06/2019	07:58	~	02/06/2019	08:10	13	2056.3	13	50.4	13	0	13	26.303	13	0.44	0.00
START_UP	02/06/2019	17:24	~	02/06/2019	17:48	25	9412.301	25	771.8	25	80.519	25	357.105	25	5.95	1.34
SHUT_DOWN	02/06/2019	20:58	~	02/06/2019	21:10	13	2112.1	13	54.5	13	0.215	13	20.483	13	0.34	0.00
START_UP	02/07/2019	05:54	~	02/07/2019	06:18	25	8206.6	25	595	25	107.516	25	274.904	25	4.58	1.79
SHUT_DOWN	02/07/2019	07:43	~	02/07/2019	07:55	13	2123.5	13	58.1	13	0.297	13	23.662	13	0.39	0.00
START_UP	02/07/2019	18:04	~	02/07/2019	18:28	25	10180	25	883	25	86.316	25	302	25	5.03	1.44
SHUT_DOWN	02/07/2019	19:44	~	02/07/2019	19:56	13	2094	13	52.6	13	0	13	15.451	13	0.26	0.00
START_UP	02/08/2019	05:54	~	02/08/2019	06:18	25	11656	25	1104.9	25	96.822	25	338.545	25	5.64	1.61
SHUT_DOWN	02/08/2019	07:29	~	02/08/2019	07:41	13	1988.3	13	40.6	13	0	13	18.514	13	0.31	0.00
START_UP	02/08/2019	17:49	~	02/08/2019	18:13	25	8193.5	25	587.1	25	104.126	25	266	25	4.43	1.74
SHUT_DOWN	02/08/2019	19:58	~	02/08/2019	20:10	13	2212.8	13	66.1	13	0	13	11.369	13	0.19	0.00
START_UP	02/09/2019	06:09	~	02/09/2019	06:33	25	8056.501	25	573.7	25	105.654	25	279.255	25	4.65	1.76
SHUT_DOWN	02/09/2019	07:13	~	02/09/2019	07:25	13	2120	13	56.9	13	0.219	13	11.187	13	0.19	0.00
START_UP	02/12/2019	05:54	~	02/12/2019	06:18	25	8023.6	25	567.2	25	116.23	25	312.182	25	5.20	1.94
SHUT_DOWN	02/12/2019	07:59	~	02/12/2019	08:11	13	2053.4	13	49.7	13	0	13	18.298	13	0.30	0.00
START_UP	02/12/2019	15:52	~	02/12/2019	16:16	25	8296.6	25	598.7	25	263.103	25	255.328	25	4.26	4.39
SHUT_DOWN	02/12/2019	22:58	~	02/12/2019	23:10	13	2143.5	13	56.1	13	0	13	13.561	13	0.23	0.00
START_UP	02/13/2019	05:53	~	02/13/2019	06:17	25	8316.7	25	612.2	25	25.44	25	253.991	25	4.23	0.42
SHUT_DOWN	02/13/2019	09:58	~	02/13/2019	10:10	13	2098.5	13	50.6	13	0	13	9.802	13	0.16	0.00
START_UP	02/13/2019	14:53	~	02/13/2019	15:17	25	8147.6	25	575	25	282.858	25	225.98	25	3.77	4.71
SHUT_DOWN	02/13/2019	22:58	~	02/13/2019	23:10	13	2137	13	57.7	13	0	13	8.67	13	0.14	0.00
START_UP	02/14/2019	05:54	~	02/14/2019	06:18	25	8202.301	25	590.8	25	53.563	12	211.965	12	3.53	0.89
SHUT_DOWN	02/14/2019	23:58	~	02/15/2019	00:10	13	2141.3	13	58.5	13	0	13	10.441	13	0.17	0.00
START_UP	02/15/2019	05:54	~	02/15/2019	06:18	25	8503.3	25	627.7	25	92.764	25	241.329	25	4.02	1.55
SHUT_DOWN	02/15/2019	10:58	~	02/15/2019	11:10	13	2138.3	13	57	13	0	13	10.953	13	0.18	0.00
START_UP	02/15/2019	13:53	~	02/15/2019	14:17	25	8973.001	25	688.2	25	84.028	25	176.916	25	2.95	1.40
SHUT_DOWN	02/15/2019	22:58	~	02/15/2019	23:10	13	2149.2	13	56	13	0	13	11.49	13	0.19	0.00
START_UP	02/17/2019	16:36	~	02/17/2019	17:00	25	12945.4	25	1277.1	25	350.216	25	388.311	25	6.47	5.84
SHUT_DOWN	02/17/2019	23:58	~	02/18/2019	00:10	13	2446.3	13	97.2	13	3.012	13	13.021	13	0.22	0.05
START_UP	02/18/2019	05:54	~	02/18/2019	06:18	25	8820.8	25	670.9	25	82.036	25	249.546	25	4.16	1.37
SHUT_DOWN	02/18/2019	09:58	~	02/18/2019	10:10	13	2170.9	13	62.4	13	0.084	13	15.145	13	0.25	0.00
START_UP	02/18/2019	15:54	~	02/18/2019	16:18	25	8297.1	25	611.6	25	181.343	25	241.139	25	4.02	3.02
SHUT_DOWN	02/18/2019	19:13	~	02/18/2019	19:25	13	2151.7	13	58.7	13	0.521	13	12.933	13	0.22	0.01
START_UP	02/18/2019	20:53	~	02/18/2019	21:17	25	8105.7	25	575	25	77.172	25	84.006	25	1.40	1.29

SHUT_DOWN	02/18/2019	23:58	~	02/19/2019	00:10	13	2101.1	13	54.1	13	0.378	13	18.988	13	0.32	0.01
START_UP	02/19/2019	05:54	~	02/19/2019	06:18	25	8492.999	25	635.8	25	76.726	17	255.676	17	4.26	1.28
SHUT_DOWN	02/19/2019	07:58	~	02/19/2019	08:10	13	2065.9	13	51.7	13	0.243	13	17.005	13	0.28	0.00
START_UP	02/19/2019	16:54	~	02/19/2019	17:18	25	10687.9	25	921	25	64.685	25	309.642	25	5.16	1.08
SHUT_DOWN	02/19/2019	23:58	~	02/20/2019	00:10	13	2246.3	13	70.9	13	1.987	13	14.276	13	0.24	0.03
START_UP	02/20/2019	05:54	~	02/20/2019	06:18	25	10085.9	25	856.6	25	281.284	25	253.406	25	4.22	4.69
SHUT_DOWN	02/20/2019	07:59	~	02/20/2019	08:11	13	2576.8	13	120.3	13	4.961	13	13.994	13	0.23	0.08
START_UP	02/20/2019	15:53	~	02/20/2019	16:17	25	10597	25	951.2	25	178.876	25	336.003	25	5.60	2.98
SHUT_DOWN	02/20/2019	21:58	~	02/20/2019	22:10	13	2060.5	13	51.1	13	0.286	13	11.348	13	0.19	0.00
START_UP	02/21/2019	17:50	~	02/21/2019	18:14	25	15879.7	25	1696.8	25	125.134	25	388.241	25	6.47	2.09
SHUT_DOWN	02/21/2019	22:58	~	02/21/2019	23:10	13	2113.6	13	56.8	13	0.554	13	15.174	13	0.25	0.01
START_UP	02/22/2019	05:54	~	02/22/2019	06:18	25	8006.599	25	573.7	25	114.803	25	249.403	25	4.16	1.91
SHUT_DOWN	02/22/2019	08:58	~	02/22/2019	09:10	13	2169.4	13	62.8	13	0.742	13	16.957	13	0.28	0.01
START_UP	02/22/2019	17:24	~	02/22/2019	17:48	25	19039.1	25	2147.3	25	314.102	25	526.652	25	8.78	5.24
SHUT_DOWN	02/22/2019	23:13	~	02/22/2019	23:25	13	2053.4	13	46.8	13	0.884	13	16.031	13	0.27	0.01
START_UP	02/23/2019	05:54	~	02/23/2019	06:18	25	8122.199	25	575.5	25	101.727	17	238.198	17	3.97	1.70
SHUT_DOWN	02/23/2019	07:58	~	02/23/2019	08:10	13	2137.4	13	57.2	13	1.078	13	17.615	13	0.29	0.02
START_UP	02/23/2019	16:49	~	02/23/2019	17:13	25	9691.2	25	800.2	25	128.27	25	348.507	25	5.81	2.14
SHUT_DOWN	02/23/2019	22:58	~	02/23/2019	23:10	13	2018.1	13	43.5	13	0.771	13	12.827	13	0.21	0.01
START_UP	02/24/2019	05:54	~	02/24/2019	06:18	25	9261.6	25	733.1	25	105.151	25	280.684	25	4.68	1.75
SHUT_DOWN	02/24/2019	07:59	~	02/24/2019	08:11	13	2133	13	59.7	13	2.296	13	16.453	13	0.27	0.04
START_UP	02/24/2019	16:24	~	02/24/2019	16:48	25	8201.399	25	597	25	59.917	25	256.744	25	4.28	1.00
SHUT_DOWN	02/24/2019	22:58	~	02/24/2019	23:10	13	2081.1	13	51.7	13	0.78	13	11.205	13	0.19	0.01
START_UP	02/25/2019	05:54	~	02/25/2019	06:18	25	8051.6	25	571.1	25	183.162	25	258.345	25	4.31	3.05
SHUT_DOWN	02/25/2019	07:58	~	02/25/2019	08:10	13	2108.8	13	54.6	13	0.644	13	15.545	13	0.26	0.01
START_UP	02/25/2019	16:49	~	02/25/2019	17:13	25	8294.199	25	607.4	25	280.561	25	259.027	25	4.32	4.68
SHUT_DOWN	02/25/2019	22:58	~	02/25/2019	23:10	13	2096.8	13	53.6	13	0.631	13	12.138	13	0.20	0.01
START_UP	02/26/2019	05:54	~	02/26/2019	06:18	25	8345	25	608.8	25	99.365	25	248.606	25	4.14	1.66
SHUT_DOWN	02/26/2019	11:43	~	02/26/2019	11:55	13	2260	13	70.9	13	2.618	13	7.599	13	0.13	0.04
START_UP	02/26/2019	13:49	~	02/26/2019	14:13	25	14727.2	25	1535.9	25	165.675	25	140.048	25	2.33	2.76
SHUT_DOWN	02/26/2019	20:44	~	02/26/2019	20:56	13	2437.2	13	97	13	4.15	13	6.484	13	0.11	0.07
START_UP	02/27/2019	05:53	~	02/27/2019	06:17	25	8441.5	25	637.9	25	65.632	24	262.644	24	4.38	1.09
SHUT_DOWN	02/27/2019	08:58	~	02/27/2019	09:10	13	2118.1	13	55.1	13	0.962	13	11.211	13	0.19	0.02
START_UP	02/27/2019	11:39	~	02/27/2019	12:03	25	17074	25	1888.5	25	101.954	25	264.466	25	4.41	1.70
SHUT_DOWN	02/27/2019	13:00	~	02/27/2019	13:12	13	2196	13	67	13	2.186	13	7.69	13	0.13	0.04
START_UP	02/27/2019	15:53	~	02/27/2019	16:17	25	8011.9	25	566.9	25	81.849	25	158.907	25	2.65	1.36
SHUT_DOWN	02/27/2019	22:13	~	02/27/2019	22:25	13	2167.7	13	58.9	13	0	13	11.199	13	0.19	0.00
START_UP	02/28/2019	05:54	~	02/28/2019	06:18	25	8130.7	25	578.8	25	78.133	25	242.66	25	4.04	1.30
SHUT_DOWN	02/28/2019	08:58	~	02/28/2019	09:10	13	2349.7	13	83.9	13	0.567	13	12.887	13	0.21	0.01
START_UP	02/28/2019	17:18	~	02/28/2019	17:42	25	8087.1	25	591.6	25	396.584	25	242.228	25	4.04	6.61
SHUT_DOWN	02/28/2019	22:28	~	02/28/2019	22:40	13	2132.6	13	57.8	13	0.08	13	10.898	13	0.18	0.00
START_UP	03/01/2019	05:53	~	03/01/2019	06:17	25	8344.801	25	629.2	25	23.032	25	254.216	25	4.24	0.38
SHUT_DOWN	03/01/2019	18:28	~	03/01/2019	18:40	13	2129.6	13	61.2	13	1.814	13	7.317	13	0.12	0.03
START_UP	03/01/2019	20:53	~	03/01/2019	21:17	25	19282.1	25	2203.3	25	111.432	25	162.328	25	2.71	1.86
SHUT_DOWN	03/01/2019	22:29	~	03/01/2019	22:41	13	2169.9	13	61.3	13	1.483	13	6.679	13	0.11	0.02
START_UP	03/02/2019	06:54	~	03/02/2019	07:18	25	11251.1	25	1047.6	25	108.932	25	296.998	25	4.95	1.82
SHUT_DOWN	03/02/2019	08:03	~	03/02/2019	08:15	13	2361.6	13	89.6	13	0.812	13	10.046	13	0.17	0.01
START_UP	03/02/2019	16:35	~	03/02/2019	16:59	25	7815.4	25	566.3	25	230.882	25	254.09	25	4.23	3.85
SHUT_DOWN	03/02/2019	20:58	~	03/02/2019	21:10	13	2143.9	13	60.4	13	0.158	13	7.449	13	0.12	0.00
START_UP	03/03/2019	19:08	~	03/03/2019	19:32	25	8012.8	25	584.1	25	291.791	25	269.94	25	4.50	4.86
SHUT_DOWN	03/03/2019	21:13	~	03/03/2019	21:25	13	2101.2	13	53.7	13	0	13	10.484	13	0.17	0.00
START_UP	03/04/2019	05:54	~	03/04/2019	06:18	25	8097.9	25	573.1	25	69.098	25	258.298	25	4.30	1.15
SHUT_DOWN	03/04/2019	07:28	~	03/04/2019	07:40	13	2127.7	13	58.1	13	0.222	13	10.313	13	0.17	0.00
START_UP	03/04/2019	17:47	~	03/04/2019	18:11	25	15945.7	25	1764.3	25	232.847	25	386.182	25	6.44	3.88

SHUT_DOWN	03/04/2019	18:29	~	03/04/2019	18:41	13	2810.9	13	153	13	4.119	13	11.042	13	0.18	0.07
START_UP	03/05/2019	15:08	~	03/05/2019	15:32	25	8570.8	25	658.9	25	178.654	25	280.458	25	4.67	2.98
SHUT_DOWN	03/05/2019	20:33	~	03/05/2019	20:45	13	2272.5	13	75.4	13	1.089	13	8.009	13	0.13	0.02
START_UP	03/06/2019	17:47	~	03/06/2019	18:11	25	8378.1	25	616.8	25	65.466	25	262.428	25	4.37	1.09
SHUT_DOWN	03/06/2019	19:57	~	03/06/2019	20:09	13	2236.8	13	70.3	13	1.415	13	6.924	13	0.12	0.02
START_UP	03/07/2019	17:48	~	03/07/2019	18:12	25	14338	25	1502.9	25	236.678	25	374.873	25	6.25	3.94
SHUT_DOWN	03/07/2019	20:27	~	03/07/2019	20:39	13	2166.3	13	59	13	0.224	13	10.629	13	0.18	0.00
START_UP	03/08/2019	09:53	~	03/08/2019	10:17	25	8004.7	25	565.3	25	118.588	25	263.25	25	4.39	1.98
SHUT_DOWN	03/08/2019	12:43	~	03/08/2019	12:55	13	2182.4	13	56.6	13	1.327	13	8.097	13	0.13	0.02
START_UP	03/09/2019	16:38	~	03/09/2019	17:02	25	8117.4	25	575	25	0	1	0	1	0.00	0.00
SHUT_DOWN	03/09/2019	19:27	~	03/09/2019	19:39	13	2197.1	13	63.2	13	0	10	NA	0	0.00	0.00
START_UP	03/10/2019	18:48	~	03/10/2019	19:12	25	8250.1	25	594.2	25	146.397	25	281.576	25	4.69	2.44
SHUT_DOWN	03/10/2019	21:12	~	03/10/2019	21:24	13	2209.6	13	64.4	13	0	13	12.705	13	0.21	0.00
START_UP	03/11/2019	05:08	~	03/11/2019	05:32	25	10029.5	25	859.7	25	93.052	25	299.7	25	5.00	1.55
SHUT_DOWN	03/11/2019	07:58	~	03/11/2019	08:10	13	2440.8	13	101.2	13	1.933	13	25.191	13	0.42	0.03
START_UP	03/11/2019	13:49	~	03/11/2019	14:13	25	16561.6	25	1796.3	25	304.058	25	339.562	25	5.66	5.07
SHUT_DOWN	03/11/2019	21:27	~	03/11/2019	21:39	13	2376.9	13	89.9	13	2.457	13	7.699	13	0.13	0.04
START_UP	03/12/2019	04:53	~	03/12/2019	05:17	25	7970.701	25	572.2	25	154.111	25	252.238	25	4.20	2.57
SHUT_DOWN	03/12/2019	08:12	~	03/12/2019	08:24	13	2156.3	13	60.8	13	0.392	13	9.558	13	0.16	0.01
START_UP	03/12/2019	13:20	~	03/12/2019	13:44	25	9882.801	25	899.8	25	154.289	25	329.259	25	5.49	2.57
SHUT_DOWN	03/12/2019	13:45	~	03/12/2019	13:47	3	375.1	3	0	3	0	3	0.911	3	0.02	0.00
START_UP	03/13/2019	16:53	~	03/13/2019	17:17	25	8149.6	25	580.5	25	106.924	25	284.667	25	4.74	1.78
SHUT_DOWN	03/13/2019	22:58	~	03/13/2019	23:10	13	2047.6	13	44.7	13	0.346	13	12.157	13	0.20	0.01
START_UP	03/14/2019	05:23	~	03/14/2019	05:47	25	12614.6	25	1234.5	25	91.096	25	321.882	25	5.36	1.52
SHUT_DOWN	03/14/2019	06:57	~	03/14/2019	07:09	13	2150.9	13	57.5	13	0.302	13	12.254	13	0.20	0.01
START_UP	03/14/2019	16:22	~	03/14/2019	16:46	25	8977	25	716.4	25	95.061	25	323.669	25	5.39	1.58
SHUT_DOWN	03/14/2019	19:12	~	03/14/2019	19:24	13	2184.4	13	59.9	13	0.785	13	10.799	13	0.18	0.01
START_UP	03/14/2019	20:08	~	03/14/2019	20:32	25	8126.8	25	580	25	42.89	25	83.263	25	1.39	0.71
SHUT_DOWN	03/14/2019	21:57	~	03/14/2019	22:09	13	2184.2	13	60.8	13	0.084	13	17.888	13	0.30	0.00
START_UP	03/15/2019	18:48	~	03/15/2019	19:12	25	8061.099	25	579.4	25	93.621	25	274.414	25	4.57	1.56
SHUT_DOWN	03/15/2019	21:12	~	03/15/2019	21:24	13	2188.6	13	62.8	13	0.721	13	10.883	13	0.18	0.01
START_UP	03/19/2019	18:03	~	03/19/2019	18:27	25	10182.4	25	878.6	25	137.777	16	405.758	16	6.76	2.30
SHUT_DOWN	03/19/2019	19:28	~	03/19/2019	19:40	13	2056	13	45.5	13	1.162	13	9.79	13	0.16	0.02
START_UP	03/20/2019	05:24	~	03/20/2019	05:48	25	8347.3	25	600.8	25	58.53	25	279.762	25	4.66	0.98
SHUT_DOWN	03/20/2019	14:27	~	03/20/2019	14:39	13	2028.9	13	43.7	13	1.316	13	9.777	13	0.16	0.02
START_UP	03/20/2019	17:23	~	03/20/2019	17:47	25	10569.8	25	922.6	25	103.615	25	286.486	25	4.77	1.73
SHUT_DOWN	03/20/2019	19:42	~	03/20/2019	19:54	13	2206.4	13	63.4	13	1.447	13	10.94	13	0.18	0.02
START_UP	03/21/2019	05:08	~	03/21/2019	05:32	25	8102.2	25	568.9	25	94.184	25	263.381	25	4.39	1.57
SHUT_DOWN	03/21/2019	06:29	~	03/21/2019	06:41	13	2247.3	13	71.3	13	3.339	13	10.147	13	0.17	0.06
START_UP	03/22/2019	05:08	~	03/22/2019	05:32	25	18369.4	25	2064.1	25	201.182	25	548.574	25	9.14	3.35
SHUT_DOWN	03/22/2019	06:27	~	03/22/2019	06:39	13	2199.6	13	66.9	13	2.288	13	11.934	13	0.20	0.04
START_UP	03/22/2019	18:53	~	03/22/2019	19:17	25	7932.298	25	564	25	88.616	11	240.482	11	4.01	1.48
SHUT_DOWN	03/22/2019	20:27	~	03/22/2019	20:39	13	2165.7	13	62.1	13	1.639	13	10.381	13	0.17	0.03
START_UP	03/23/2019	11:19	~	03/23/2019	11:43	25	12025.3	25	1137.4	25	126.563	25	409.89	25	6.83	2.11
SHUT_DOWN	03/23/2019	13:58	~	03/23/2019	14:10	13	2375.2	13	89.9	13	3.524	13	12.865	13	0.21	0.06
START_UP	03/23/2019	18:50	~	03/23/2019	19:14	25	8180.5	25	588	25	307.378	25	224.232	25	3.74	5.12
SHUT_DOWN	03/23/2019	20:13	~	03/23/2019	20:25	13	1982.7	13	39.2	13	1.379	13	11.097	13	0.18	0.02
START_UP	03/24/2019	18:53	~	03/24/2019	19:17	25	16704	25	1840.4	25	140.172	25	509.196	25	8.49	2.34
SHUT_DOWN	03/24/2019	21:27	~	03/24/2019	21:39	13	2121.2	13	56.3	13	1.64	13	11.053	13	0.18	0.03
START_UP	03/25/2019	05:08	~	03/25/2019	05:32	25	7887.7	25	562.6	25	116.688	25	263.044	25	4.38	1.94
SHUT_DOWN	03/25/2019	07:28	~	03/25/2019	07:40	13	2038.4	13	48	13	0.631	13	14.3	13	0.24	0.01
START_UP	03/25/2019	17:50	~	03/25/2019	18:14	25	9698.699	25	818.8	25	163.679	25	287.113	25	4.79	2.73
SHUT_DOWN	03/25/2019	20:13	~	03/25/2019	20:25	13	2003.8	13	42.6	13	1.444	13	9.531	13	0.16	0.02
START_UP	03/26/2019	17:23	~	03/26/2019	17:47	25	12819.5	25	1269.1	25	128.548	25	364.203	25	6.07	2.14

SHUT_DOWN	03/26/2019	20:27 ~	03/26/2019	20:39	13	2152.8	13	59.3	13	1.884	13	10.386	13	0.17	0.03
START_UP	03/26/2019	21:22 ~	03/26/2019	21:46	25	7943.9	25	568.7	25	31.456	25	82.991	25	1.38	0.52
SHUT_DOWN	03/26/2019	22:42 ~	03/26/2019	22:54	13	2136.9	13	58.6	13	0.985	13	11.519	13	0.19	0.02
START_UP	03/27/2019	05:53 ~	03/27/2019	06:17	25	8183.9	25	594.4	25	104.376	25	249.592	25	4.16	1.74
SHUT_DOWN	03/27/2019	07:13 ~	03/27/2019	07:25	13	2504	13	105.2	13	4.624	13	8.095	13	0.13	0.08
START_UP	03/27/2019	15:53 ~	03/27/2019	16:17	25	8074.8	25	580.5	25	103.448	25	246.772	25	4.11	1.72
SHUT_DOWN	03/27/2019	16:57 ~	03/27/2019	17:09	13	2414.5	13	91.2	13	4.103	13	7.389	13	0.12	0.07
START_UP	03/28/2019	17:23 ~	03/28/2019	17:47	25	12723.6	25	1245.7	25	208.505	25	333.963	25	5.57	3.48
SHUT_DOWN	03/28/2019	19:12 ~	03/28/2019	19:24	13	2136.2	13	57.2	13	1.864	13	10.564	13	0.18	0.03
START_UP	03/29/2019	05:23 ~	03/29/2019	05:47	25	10481.7	25	922.3	25	101.417	25	306.913	25	5.12	1.69
SHUT_DOWN	03/29/2019	06:27 ~	03/29/2019	06:39	13	2111.6	13	56	13	1.133	13	10.994	13	0.18	0.02
START_UP	03/30/2019	05:23 ~	03/30/2019	05:47	25	10147.5	25	872.4	25	101.463	25	306.64	25	5.11	1.69
SHUT_DOWN	03/30/2019	06:28 ~	03/30/2019	06:40	13	2223.4	13	70	13	1.879	13	12.338	13	0.21	0.03
START_UP	03/30/2019	16:53 ~	03/30/2019	17:17	25	9940.6	25	840.8	25	113.769	25	267.723	25	4.46	1.90
SHUT_DOWN	03/30/2019	21:57 ~	03/30/2019	22:09	13	2130.9	13	57.5	13	2.38	13	10.457	13	0.17	0.04
START_UP	03/31/2019	05:23 ~	03/31/2019	05:47	25	7973.7	25	567.1	25	81.078	25	251.426	25	4.19	1.35
SHUT_DOWN	03/31/2019	06:28 ~	03/31/2019	06:40	13	2135	13	58.4	13	2.126	13	10.191	13	0.17	0.04
START_UP	03/31/2019	16:53 ~	03/31/2019	17:17	25	7942.701	25	573.5	25	183.332	25	256.642	25	4.28	3.06
SHUT_DOWN	03/31/2019	21:12 ~	03/31/2019	21:24	13	2099	13	55.8	13	2.942	13	10.163	13	0.17	0.05

Startup / ShutDown Report
 Generated: 4/23/2019 06:39
 StartUp/ShutDown Event Report NRG Carlsbad Unit 9
 Carlsbad Unit 9

Company: NRG Carlsbad
 Plant: 4600 Carlsbad Blvd
 City/St: Carlsbad, CA 92008

Period Start: 1/1/2019 00:00
 Period End: 3/31/2019 23:59
 Unit Name: Unit9

Events	Time	Duration (min)	Total		Total		Total		Total		NOx Lbs/Event	CO Lbs/Event
			9_GasFlow (kscfh)	Valid Mins	9Gross_MW (MW)	Valid Mins	9COLBHR (LBHR)	Valid Mins	9NOXLBHR (LBHR)	Valid Mins		
START_UP	01/01/2019 17:39 ~ 01/01/2019 18:03	25	8543.799	25	636.2	25	84.894	25	349.935	25	5.83	1.41
SHUT_DOWN	01/01/2019 20:29 ~ 01/01/2019 20:41	13	2225.8	13	67.2	13	0	13	24.701	13	0.41	0.00
START_UP	01/02/2019 11:42 ~ 01/02/2019 12:06	25	12232.9	25	1153.7	25	130.032	25	434.624	25	7.24	2.17
SHUT_DOWN	01/02/2019 13:43 ~ 01/02/2019 13:55	13	2164.9	13	63.6	13	0.046	13	19.448	13	0.32	0.00
START_UP	01/02/2019 16:54 ~ 01/02/2019 17:18	25	8036.7	25	579.2	25	71.555	25	207.216	25	3.45	1.19
SHUT_DOWN	01/02/2019 17:40 ~ 01/02/2019 17:52	13	1680.9	13	6.4	13	0	13	26.681	13	0.44	0.00
START_UP	01/02/2019 18:35 ~ 01/02/2019 18:59	25	8135.101	25	589.6	25	127.565	25	105.999	25	1.77	2.13
SHUT_DOWN	01/02/2019 19:58 ~ 01/02/2019 20:10	13	2166.6	13	62.9	13	0	13	20.315	13	0.34	0.00
START_UP	01/03/2019 17:24 ~ 01/03/2019 17:48	25	13543.1	25	1368.8	25	93.261	25	491.958	25	8.20	1.55
SHUT_DOWN	01/03/2019 18:28 ~ 01/03/2019 18:40	13	2163.5	13	62.4	13	0.812	8	10.041	8	0.17	0.01
START_UP	01/04/2019 21:54 ~ 01/04/2019 22:18	25	9617.3	25	789.6	25	125.141	18	335.694	18	5.59	2.09
SHUT_DOWN	01/04/2019 22:59 ~ 01/04/2019 23:11	13	2108.4	13	57.1	13	0.391	13	16.535	13	0.28	0.01
START_UP	01/07/2019 15:54 ~ 01/07/2019 16:18	25	8202.6	25	591.9	25	107.298	25	290.772	25	4.85	1.79
SHUT_DOWN	01/07/2019 18:58 ~ 01/07/2019 19:10	13	2227.3	13	69.8	13	0	13	15.079	13	0.25	0.00
START_UP	01/08/2019 05:54 ~ 01/08/2019 06:18	25	8741.3	25	664.9	25	83.72	25	273.15	25	4.55	1.40
SHUT_DOWN	01/08/2019 07:58 ~ 01/08/2019 08:10	13	2197.2	13	62.9	13	0	13	15.8	13	0.26	0.00
START_UP	01/08/2019 17:37 ~ 01/08/2019 18:01	25	8218.9	25	603.9	25	152.877	25	271.897	25	4.53	2.55
SHUT_DOWN	01/08/2019 19:13 ~ 01/08/2019 19:25	13	2177.8	13	63.6	13	0	13	14.729	13	0.25	0.00
START_UP	01/08/2019 20:38 ~ 01/08/2019 21:02	25	16319.8	25	1781.3	25	92.21	25	133.695	25	2.23	1.54
SHUT_DOWN	01/09/2019 00:00 ~ 01/09/2019 00:12	13	2763.2	13	137.6	13	0	13	15.839	13	0.26	0.00
START_UP	01/09/2019 05:54 ~ 01/09/2019 06:18	25	8653.5	25	651.3	25	99.712	25	239.368	25	3.99	1.66
SHUT_DOWN	01/09/2019 07:58 ~ 01/09/2019 08:10	13	2174.9	13	59.8	13	0	13	15.734	13	0.26	0.00
START_UP	01/09/2019 15:54 ~ 01/09/2019 16:18	25	8764.801	25	665.2	25	97.659	25	240.259	25	4.00	1.63
SHUT_DOWN	01/09/2019 16:58 ~ 01/09/2019 17:10	13	2126.3	13	57.9	13	0	13	12.359	13	0.21	0.00
START_UP	01/09/2019 19:53 ~ 01/09/2019 20:17	25	8215.9	25	594.3	25	97.651	25	179.471	25	2.99	1.63
SHUT_DOWN	01/09/2019 22:14 ~ 01/09/2019 22:26	13	2132.2	13	59.5	13	0	13	14.655	13	0.24	0.00
START_UP	01/10/2019 05:54 ~ 01/10/2019 06:18	25	8958.699	25	698	25	191.982	25	266.383	25	4.44	3.20
SHUT_DOWN	01/10/2019 08:29 ~ 01/10/2019 08:41	13	2101	13	54.4	13	0	13	14.494	13	0.24	0.00
START_UP	01/10/2019 15:54 ~ 01/10/2019 16:18	25	8081.3	25	573.8	25	87.691	25	247.64	25	4.13	1.46
SHUT_DOWN	01/10/2019 16:58 ~ 01/10/2019 17:10	13	2168.2	13	63.1	13	0	13	14.185	13	0.24	0.00
START_UP	01/10/2019 19:53 ~ 01/10/2019 20:17	25	9135.8	25	714.4	25	95.062	25	196.462	25	3.27	1.58
SHUT_DOWN	01/10/2019 22:29 ~ 01/10/2019 22:41	13	2346	13	85	13	0	13	13.749	13	0.23	0.00
START_UP	01/11/2019 05:54 ~ 01/11/2019 06:18	25	8060.1	25	578.2	25	140.595	25	255.489	25	4.26	2.34
SHUT_DOWN	01/11/2019 08:29 ~ 01/11/2019 08:41	13	2067.8	13	50.9	13	0	13	15.484	13	0.26	0.00
START_UP	01/11/2019 16:24 ~ 01/11/2019 16:48	25	9417.9	25	757.2	25	95.8	25	272.462	25	4.54	1.60
SHUT_DOWN	01/11/2019 21:29 ~ 01/11/2019 21:41	13	2005.8	13	41.5	13	0	13	15.713	13	0.26	0.00
START_UP	01/12/2019 16:54 ~ 01/12/2019 17:18	25	8109.3	25	583.3	25	97.236	25	266.544	25	4.44	1.62
SHUT_DOWN	01/12/2019 21:43 ~ 01/12/2019 21:55	13	2166.3	13	61.1	13	0	13	15.43	13	0.26	0.00
START_UP	01/13/2019 06:54 ~ 01/13/2019 07:18	25	8661.3	25	643.7	25	248.675	25	259.276	25	4.32	4.14
SHUT_DOWN	01/13/2019 07:58 ~ 01/13/2019 08:10	13	2153.9	13	60.4	13	0	13	16.39	13	0.27	0.00
START_UP	01/13/2019 15:54 ~ 01/13/2019 16:18	25	8189.8	25	589.8	25	88.514	25	250.173	25	4.17	1.48

SHUT_DOWN	01/13/2019	21:58 ~ 01/13/2019	22:10	13	2144.4	13	59.8	13	0	13	15.965	13	0.27	0.00
START_UP	01/14/2019	07:01 ~ 01/14/2019	07:25	25	10885	25	960.2	25	200.225	25	326.339	25	5.44	3.34
SHUT_DOWN	01/14/2019	22:28 ~ 01/14/2019	22:40	13	2128	13	59	13	0	13	13.514	13	0.23	0.00
START_UP	01/15/2019	15:38 ~ 01/15/2019	16:02	25	8766.4	25	677.7	25	158.407	25	304.15	25	5.07	2.64
SHUT_DOWN	01/15/2019	22:13 ~ 01/15/2019	22:25	13	2182.3	13	64.6	13	0	13	12.092	13	0.20	0.00
START_UP	01/16/2019	14:24 ~ 01/16/2019	14:48	25	8415.6	25	618.5	25	NA	0	NA	0	0.00	0.00
SHUT_DOWN	01/16/2019	22:43 ~ 01/16/2019	22:55	13	2130.3	13	59.5	13	0.04	13	10.897	13	0.18	0.00
START_UP	01/17/2019	05:53 ~ 01/17/2019	06:17	25	7901	25	571.8	25	199.525	25	230.571	25	3.84	3.33
SHUT_DOWN	01/17/2019	08:58 ~ 01/17/2019	09:10	13	2235.5	13	72.3	13	0	13	12.793	13	0.21	0.00
START_UP	01/17/2019	16:09 ~ 01/17/2019	16:33	25	8026.1	25	574	25	144.337	25	241.244	25	4.02	2.41
SHUT_DOWN	01/17/2019	19:58 ~ 01/17/2019	20:10	13	2178.3	13	63.2	13	0	13	8.215	13	0.14	0.00
START_UP	01/17/2019	21:53 ~ 01/17/2019	22:17	25	8877.001	25	680.6	25	129.474	25	86.295	25	1.44	2.16
SHUT_DOWN	01/17/2019	22:58 ~ 01/17/2019	23:10	13	2132.9	13	58	13	0	13	11.067	13	0.18	0.00
START_UP	01/18/2019	06:10 ~ 01/18/2019	06:34	25	8204.399	25	594.3	25	93.188	18	227.928	18	3.80	1.55
SHUT_DOWN	01/18/2019	07:59 ~ 01/18/2019	08:11	13	2022.8	13	42.1	13	0	13	12.758	13	0.21	0.00
START_UP	01/18/2019	21:54 ~ 01/18/2019	22:18	25	8092.5	25	570.6	25	109.351	25	271.827	25	4.53	1.82
SHUT_DOWN	01/18/2019	23:43 ~ 01/18/2019	23:55	13	2095.7	13	53.1	13	0	13	12.95	13	0.22	0.00
START_UP	01/19/2019	06:01 ~ 01/19/2019	06:25	25	7855.3	25	553.2	25	142.184	25	242.428	25	4.04	2.37
SHUT_DOWN	01/19/2019	07:58 ~ 01/19/2019	08:10	13	2335	13	79.8	13	0	13	15.806	13	0.26	0.00
START_UP	01/19/2019	16:30 ~ 01/19/2019	16:54	25	7902.601	25	560.1	25	123.045	25	242.663	25	4.04	2.05
SHUT_DOWN	01/19/2019	21:43 ~ 01/19/2019	21:55	13	2165.4	13	63	13	0	13	13.746	13	0.23	0.00
START_UP	01/20/2019	17:03 ~ 01/20/2019	17:27	25	11263	25	1018.2	25	94.502	25	270.56	25	4.51	1.58
SHUT_DOWN	01/20/2019	18:59 ~ 01/20/2019	19:11	13	2451.4	13	98.7	13	0.043	13	11.345	13	0.19	0.00
START_UP	01/21/2019	05:54 ~ 01/21/2019	06:18	25	8290.601	25	605.1	25	245.244	19	248.852	19	4.15	4.09
SHUT_DOWN	01/21/2019	08:43 ~ 01/21/2019	08:55	13	2167.3	13	63.1	13	0.045	13	15.434	13	0.26	0.00
START_UP	01/21/2019	16:24 ~ 01/21/2019	16:48	25	12049.5	25	1139.1	25	122.682	25	390.75	25	6.51	2.04
SHUT_DOWN	01/21/2019	22:29 ~ 01/21/2019	22:41	13	2066.6	13	50.6	13	0.04	13	15.228	13	0.25	0.00
START_UP	01/22/2019	05:54 ~ 01/22/2019	06:18	25	8670.099	25	650.4	25	88.522	25	263.459	25	4.39	1.48
SHUT_DOWN	01/22/2019	07:58 ~ 01/22/2019	08:10	13	2063.3	13	51.9	13	0.378	13	17.431	13	0.29	0.01
START_UP	01/22/2019	16:38 ~ 01/22/2019	17:02	25	8772.2	25	676.9	25	133.522	25	264.138	25	4.40	2.23
SHUT_DOWN	01/22/2019	21:13 ~ 01/22/2019	21:25	13	2105.3	13	52.9	13	0	13	23.815	13	0.40	0.00
START_UP	01/23/2019	05:54 ~ 01/23/2019	06:18	25	10997	25	965.1	25	87.848	25	315.844	25	5.26	1.46
SHUT_DOWN	01/23/2019	09:29 ~ 01/23/2019	09:41	13	2018.7	13	44.2	13	0	13	21.538	13	0.36	0.00
START_UP	01/23/2019	17:48 ~ 01/23/2019	18:12	25	9627.4	25	800	25	166.498	25	280.067	25	4.67	2.77
SHUT_DOWN	01/23/2019	19:58 ~ 01/23/2019	20:10	13	2192.5	13	66.2	13	0	13	15.856	13	0.26	0.00
START_UP	01/24/2019	05:53 ~ 01/24/2019	06:17	25	8130.901	25	596.5	25	235.489	25	286.435	25	4.77	3.92
SHUT_DOWN	01/24/2019	07:58 ~ 01/24/2019	08:10	13	2074.9	13	53.1	13	0	13	17.031	13	0.28	0.00
START_UP	01/24/2019	17:54 ~ 01/24/2019	18:18	25	8598.399	25	654.7	25	103.289	25	262.48	25	4.37	1.72
SHUT_DOWN	01/24/2019	19:14 ~ 01/24/2019	19:26	13	2011.8	13	43.9	13	0	13	13.674	13	0.23	0.00
START_UP	01/25/2019	05:54 ~ 01/25/2019	06:18	25	8790.999	25	680.6	25	118.135	25	308.212	25	5.14	1.97
SHUT_DOWN	01/25/2019	19:56 ~ 01/25/2019	20:08	13	2420.1	13	93.8	13	0	13	15.04	13	0.25	0.00
START_UP	01/26/2019	05:54 ~ 01/26/2019	06:18	25	8187.399	25	594	25	95.386	25	261.261	25	4.35	1.59
SHUT_DOWN	01/26/2019	06:59 ~ 01/26/2019	07:11	13	2065.2	13	51.9	13	0	13	14.407	13	0.24	0.00
START_UP	01/27/2019	08:24 ~ 01/27/2019	08:48	25	8077.5	25	584.6	25	143.889	25	308.646	25	5.14	2.40
SHUT_DOWN	01/27/2019	09:28 ~ 01/27/2019	09:40	13	2122.7	13	58.3	13	0	13	13.637	13	0.23	0.00
START_UP	01/27/2019	16:24 ~ 01/27/2019	16:48	25	8260.6	25	615.9	25	87.503	25	243.285	25	4.05	1.46
SHUT_DOWN	01/27/2019	20:13 ~ 01/27/2019	20:25	13	2202.5	13	68.5	13	0	13	14.25	13	0.24	0.00
START_UP	01/28/2019	06:23 ~ 01/28/2019	06:47	25	12543.3	25	1251.6	25	173.273	25	325.988	25	5.43	2.89
SHUT_DOWN	01/28/2019	07:59 ~ 01/28/2019	08:11	13	2515.6	13	109	13	0	13	13.591	13	0.23	0.00
START_UP	01/28/2019	17:56 ~ 01/28/2019	18:20	25	12252.4	25	1205.2	25	156.577	25	293.249	25	4.89	2.61
SHUT_DOWN	01/28/2019	19:29 ~ 01/28/2019	19:41	13	2000.5	13	46.5	13	0	13	11.566	13	0.19	0.00
START_UP	01/29/2019	06:24 ~ 01/29/2019	06:48	25	7966.601	25	576	25	218.421	25	267.649	25	4.46	3.64
SHUT_DOWN	01/29/2019	07:28 ~ 01/29/2019	07:40	13	2138.5	13	62.4	13	0	13	13.37	13	0.22	0.00
START_UP	01/29/2019	17:10 ~ 01/29/2019	17:34	25	14712.2	25	1590.8	25	158.341	25	345.1	25	5.75	2.64

SHUT_DOWN	01/29/2019	22:58	~	01/29/2019	23:10	13	2099.5	13	59.4	13	0	13	11.845	13	0.20	0.00
START_UP	01/30/2019	05:54	~	01/30/2019	06:18	25	9416.199	25	774.5	25	128.194	25	262.152	25	4.37	2.14
SHUT_DOWN	01/30/2019	08:58	~	01/30/2019	09:10	13	2131.5	13	61.7	13	0	13	12.14	13	0.20	0.00
START_UP	01/30/2019	15:54	~	01/30/2019	16:18	25	8955.3	25	718.6	25	148.858	25	269.225	25	4.49	2.48
SHUT_DOWN	01/30/2019	22:58	~	01/30/2019	23:10	13	2026.3	13	48.6	13	0	13	13.04	13	0.22	0.00
START_UP	01/31/2019	05:56	~	01/31/2019	06:20	25	8489.899	25	639	25	105.304	25	261.613	25	4.36	1.76
SHUT_DOWN	01/31/2019	08:58	~	01/31/2019	09:10	13	2044.2	13	51.2	13	0	13	12.902	13	0.22	0.00
START_UP	01/31/2019	16:38	~	01/31/2019	17:02	25	10269.7	25	920.6	25	206.793	25	272.864	25	4.55	3.45
SHUT_DOWN	01/31/2019	20:13	~	01/31/2019	20:25	13	2070.5	13	54	13	0	13	9.994	13	0.17	0.00
START_UP	02/01/2019	05:53	~	02/01/2019	06:17	25	8169.2	25	605.2	25	181.226	25	260.402	25	4.34	3.02
SHUT_DOWN	02/01/2019	07:59	~	02/01/2019	08:11	13	1964.9	13	40.8	13	0	13	15.57	13	0.26	0.00
START_UP	02/01/2019	16:23	~	02/01/2019	16:47	25	8423	25	640.6	25	194.13	25	281.283	25	4.69	3.24
SHUT_DOWN	02/01/2019	18:58	~	02/01/2019	19:10	13	2084.2	13	54.8	13	0	13	12.199	13	0.20	0.00
START_UP	02/02/2019	06:53	~	02/02/2019	07:17	25	9119.7	25	737.7	25	202.933	25	280.279	25	4.67	3.38
SHUT_DOWN	02/02/2019	21:58	~	02/02/2019	22:10	13	2238.3	13	77.9	13	0	13	13.149	13	0.22	0.00
START_UP	02/03/2019	05:53	~	02/03/2019	06:17	25	7644.5	25	553.2	25	160.288	25	240.301	25	4.01	2.67
SHUT_DOWN	02/03/2019	07:58	~	02/03/2019	08:10	13	2146.6	13	64.4	13	0	13	12.673	13	0.21	0.00
START_UP	02/03/2019	16:53	~	02/03/2019	17:17	25	10378	25	927.8	25	161.468	25	297.598	25	4.96	2.69
SHUT_DOWN	02/03/2019	21:59	~	02/03/2019	22:11	13	2203.1	13	72.1	13	0	13	11.279	13	0.19	0.00
START_UP	02/04/2019	16:34	~	02/04/2019	16:58	25	8531.601	25	659.4	25	137.093	25	279.866	25	4.66	2.28
SHUT_DOWN	02/04/2019	23:59	~	02/05/2019	00:11	13	1999	13	45.8	13	0	13	16.652	13	0.28	0.00
START_UP	02/05/2019	05:54	~	02/05/2019	06:18	25	11061.9	25	1000.8	25	80.017	25	314.942	25	5.25	1.33
SHUT_DOWN	02/05/2019	08:13	~	02/05/2019	08:25	13	2099.1	13	59.7	13	0	13	13.929	13	0.23	0.00
START_UP	02/05/2019	16:24	~	02/05/2019	16:48	25	8013.8	25	589.3	25	76.267	25	270.924	25	4.52	1.27
SHUT_DOWN	02/05/2019	22:13	~	02/05/2019	22:25	13	2097.3	13	58.3	13	0	13	26.941	13	0.45	0.00
START_UP	02/06/2019	06:09	~	02/06/2019	06:33	25	14675.9	25	1573.7	25	73.89	25	435.329	25	7.26	1.23
SHUT_DOWN	02/06/2019	07:58	~	02/06/2019	08:10	13	2101.6	13	57.3	13	0	13	31.909	13	0.53	0.00
START_UP	02/06/2019	17:24	~	02/06/2019	17:48	25	9484.501	25	787.9	25	75.681	25	360.79	25	6.01	1.26
SHUT_DOWN	02/06/2019	20:58	~	02/06/2019	21:10	13	2136.5	13	60.5	13	0	13	28.083	13	0.47	0.00
START_UP	02/07/2019	05:54	~	02/07/2019	06:18	25	8296.6	25	610.4	25	83.954	19	277.864	19	4.63	1.40
SHUT_DOWN	02/07/2019	07:43	~	02/07/2019	07:55	13	2145.9	13	61.8	13	0	13	30.555	13	0.51	0.00
START_UP	02/07/2019	18:04	~	02/07/2019	18:28	25	10186.1	25	887.9	25	102.209	25	292.888	25	4.88	1.70
SHUT_DOWN	02/07/2019	19:44	~	02/07/2019	19:56	13	2016.1	13	46.7	13	0	13	18.992	13	0.32	0.00
START_UP	02/08/2019	05:54	~	02/08/2019	06:18	25	11798.2	25	1124	25	201.379	25	322.294	25	5.37	3.36
SHUT_DOWN	02/08/2019	07:29	~	02/08/2019	07:41	13	2014.9	13	44.4	13	0	13	22.869	13	0.38	0.00
START_UP	02/08/2019	17:49	~	02/08/2019	18:13	25	8202.3	25	592	25	111.499	25	271.581	25	4.53	1.86
SHUT_DOWN	02/08/2019	19:59	~	02/08/2019	20:11	13	1992.1	13	43.7	13	0	13	15.979	13	0.27	0.00
START_UP	02/09/2019	06:09	~	02/09/2019	06:33	25	8103.9	25	580.9	25	227.532	25	269.977	25	4.50	3.79
SHUT_DOWN	02/09/2019	07:13	~	02/09/2019	07:25	13	2052.3	13	51.4	13	0	13	14.954	13	0.25	0.00
START_UP	02/10/2019	11:57	~	02/10/2019	12:21	25	17883.2	25	2000.2	25	239.067	25	423.842	25	7.06	3.98
SHUT_DOWN	02/10/2019	13:14	~	02/10/2019	13:26	13	2139	13	60.4	13	0	13	14.062	13	0.23	0.00
START_UP	02/12/2019	05:53	~	02/12/2019	06:17	25	7973.2	25	567.5	25	195.772	19	313.96	19	5.23	3.26
SHUT_DOWN	02/12/2019	07:59	~	02/12/2019	08:11	13	2062.7	13	51.7	13	0	13	25.532	13	0.43	0.00
START_UP	02/12/2019	14:38	~	02/12/2019	15:02	25	9111	25	726	25	194.252	25	268.547	25	4.48	3.24
SHUT_DOWN	02/12/2019	22:58	~	02/12/2019	23:10	13	2109.3	13	57.1	13	0	13	19.923	13	0.33	0.00
START_UP	02/13/2019	05:53	~	02/13/2019	06:17	25	8420.399	25	628.8	25	134.231	25	265.572	25	4.43	2.24
SHUT_DOWN	02/13/2019	09:58	~	02/13/2019	10:10	13	2091.6	13	54.2	13	0	13	13.583	13	0.23	0.00
START_UP	02/13/2019	14:53	~	02/13/2019	15:17	25	8217.7	25	589.6	25	70.723	10	190.221	10	3.17	1.18
SHUT_DOWN	02/13/2019	22:58	~	02/13/2019	23:10	13	2134.3	13	60.4	13	0	13	12.531	13	0.21	0.00
START_UP	02/14/2019	05:54	~	02/14/2019	06:18	25	8250	25	600	25	267.226	25	242.241	25	4.04	4.45
SHUT_DOWN	02/14/2019	23:58	~	02/15/2019	00:10	13	2152.5	13	61.4	13	0	13	14.248	13	0.24	0.00
START_UP	02/15/2019	05:54	~	02/15/2019	06:18	25	8523.7	25	636.7	25	77.641	25	243.421	25	4.06	1.29
SHUT_DOWN	02/15/2019	10:58	~	02/15/2019	11:10	13	2155.2	13	61.6	13	0	13	15.343	13	0.26	0.00
START_UP	02/15/2019	13:53	~	02/15/2019	14:17	25	8950.1	25	690	25	90.206	25	168.401	25	2.81	1.50

SHUT_DOWN	02/15/2019	22:58	~	02/15/2019	23:10	13	2132.7	13	58.6	13	0	13	15.271	13	0.25	0.00
START_UP	02/17/2019	16:36	~	02/17/2019	17:00	25	12929.2	25	1283.8	25	167.853	25	357.744	25	5.96	2.80
SHUT_DOWN	02/17/2019	23:59	~	02/18/2019	00:11	13	2111.8	13	58.5	13	0	13	15.796	13	0.26	0.00
START_UP	02/18/2019	05:54	~	02/18/2019	06:18	25	8831.601	25	683.4	25	177.413	25	258.618	25	4.31	2.96
SHUT_DOWN	02/18/2019	09:58	~	02/18/2019	10:10	13	2110.2	13	58.2	13	0	13	19.779	13	0.33	0.00
START_UP	02/18/2019	15:53	~	02/18/2019	16:17	25	7990.3	25	587.8	25	135.376	15	231.703	15	3.86	2.26
SHUT_DOWN	02/18/2019	19:13	~	02/18/2019	19:25	13	2129.2	13	58.2	13	0	13	18.795	13	0.31	0.00
START_UP	02/18/2019	20:53	~	02/18/2019	21:17	25	8112.9	25	583.8	25	84.991	25	91.462	25	1.52	1.42
SHUT_DOWN	02/18/2019	23:58	~	02/19/2019	00:10	13	2122.7	13	58.4	13	0	13	21.79	13	0.36	0.00
START_UP	02/19/2019	05:53	~	02/19/2019	06:17	25	8324.501	25	627.2	25	205.63	24	281.345	24	4.69	3.43
SHUT_DOWN	02/19/2019	07:58	~	02/19/2019	08:10	13	2092.3	13	55	13	0	13	21.938	13	0.37	0.00
START_UP	02/19/2019	16:54	~	02/19/2019	17:18	25	10727.8	25	933.2	25	62.958	25	309.38	25	5.16	1.05
SHUT_DOWN	02/19/2019	23:58	~	02/20/2019	00:10	13	2266.6	13	75.7	13	0	13	19.967	13	0.33	0.00
START_UP	02/20/2019	05:54	~	02/20/2019	06:18	25	10087.7	25	865.4	25	159.158	18	250.254	18	4.17	2.65
SHUT_DOWN	02/20/2019	07:59	~	02/20/2019	08:11	13	2690.1	13	137	13	0	13	17.145	13	0.29	0.00
START_UP	02/20/2019	15:53	~	02/20/2019	16:17	25	10595.3	25	959.7	25	136.081	25	319.703	25	5.33	2.27
SHUT_DOWN	02/20/2019	21:58	~	02/20/2019	22:10	13	2070.8	13	55.1	13	0	13	14.677	13	0.24	0.00
START_UP	02/21/2019	17:49	~	02/21/2019	18:13	25	14953.8	25	1607.8	25	204.142	25	364.25	25	6.07	3.40
SHUT_DOWN	02/21/2019	22:58	~	02/21/2019	23:10	13	2120	13	59.7	13	0	13	18.777	13	0.31	0.00
START_UP	02/22/2019	05:54	~	02/22/2019	06:18	25	8126.199	25	589	25	92.851	25	257.974	25	4.30	1.55
SHUT_DOWN	02/22/2019	08:58	~	02/22/2019	09:10	13	2175	13	64.3	13	0	13	18.031	13	0.30	0.00
START_UP	02/22/2019	17:24	~	02/22/2019	17:48	25	19103.6	25	2182.5	25	78.007	25	463.625	25	7.73	1.30
SHUT_DOWN	02/22/2019	23:13	~	02/22/2019	23:25	13	2060.4	13	50.3	13	0	13	21.418	13	0.36	0.00
START_UP	02/23/2019	05:54	~	02/23/2019	06:18	25	8166.4	25	586.7	25	95.718	25	252.989	25	4.22	1.60
SHUT_DOWN	02/23/2019	07:58	~	02/23/2019	08:10	13	2167.2	13	62.2	13	0	13	17.849	13	0.30	0.00
START_UP	02/23/2019	14:49	~	02/23/2019	15:13	25	12123.3	25	1133.3	25	96.872	25	339.259	25	5.65	1.61
SHUT_DOWN	02/23/2019	22:58	~	02/23/2019	23:10	13	2029.9	13	46.8	13	0.038	13	19.378	13	0.32	0.00
START_UP	02/24/2019	05:54	~	02/24/2019	06:18	25	9336	25	748.1	25	79.984	25	278.193	25	4.64	1.33
SHUT_DOWN	02/24/2019	07:59	~	02/24/2019	08:11	13	2128.7	13	60.5	13	0	13	19.905	13	0.33	0.00
START_UP	02/24/2019	16:24	~	02/24/2019	16:48	25	8243.5	25	606.4	25	198.951	25	263.55	25	4.39	3.32
SHUT_DOWN	02/24/2019	22:58	~	02/24/2019	23:10	13	2102.6	13	55.8	13	0	13	16.407	13	0.27	0.00
START_UP	02/25/2019	05:54	~	02/25/2019	06:18	25	8074.1	25	581.8	25	103.655	25	253.136	25	4.22	1.73
SHUT_DOWN	02/25/2019	07:58	~	02/25/2019	08:10	13	2156.2	13	62.1	13	0	13	16.047	13	0.27	0.00
START_UP	02/25/2019	16:48	~	02/25/2019	17:12	25	8019.101	25	586.9	25	184.265	25	262.231	25	4.37	3.07
SHUT_DOWN	02/25/2019	22:58	~	02/25/2019	23:10	13	2095.9	13	54.9	13	0	13	17.297	13	0.29	0.00
START_UP	02/26/2019	05:54	~	02/26/2019	06:18	25	8414.5	25	623.7	25	230.27	25	253.907	25	4.23	3.84
SHUT_DOWN	02/26/2019	11:43	~	02/26/2019	11:55	13	2278.3	13	73.9	13	0	13	10.467	13	0.17	0.00
START_UP	02/26/2019	13:49	~	02/26/2019	14:13	25	14528.2	25	1527	25	160.698	25	127.68	25	2.13	2.68
SHUT_DOWN	02/26/2019	22:13	~	02/26/2019	22:25	13	2296.3	13	76.4	13	0	13	13.911	13	0.23	0.00
START_UP	02/27/2019	05:53	~	02/27/2019	06:17	25	8494.4	25	647.8	25	176.436	25	261.775	25	4.36	2.94
SHUT_DOWN	02/27/2019	08:58	~	02/27/2019	09:10	13	2125.4	13	58.6	13	0	13	15.682	13	0.26	0.00
START_UP	02/27/2019	15:54	~	02/27/2019	16:18	25	8034.8	25	572.9	25	92.695	25	229.606	25	3.83	1.54
SHUT_DOWN	02/27/2019	22:13	~	02/27/2019	22:25	13	2209.1	13	64.7	13	0	13	15.257	13	0.25	0.00
START_UP	02/28/2019	05:54	~	02/28/2019	06:18	25	8154	25	586.5	25	82.922	25	245.721	25	4.10	1.38
SHUT_DOWN	02/28/2019	08:58	~	02/28/2019	09:10	13	2379.1	13	89.3	13	0.345	13	12.76	13	0.21	0.01
START_UP	02/28/2019	17:18	~	02/28/2019	17:42	25	8045.9	25	594	25	248.39	25	237.81	25	3.96	4.14
SHUT_DOWN	02/28/2019	22:28	~	02/28/2019	22:40	13	2136.3	13	58.9	13	0	13	12.802	13	0.21	0.00
START_UP	03/01/2019	05:53	~	03/01/2019	06:17	25	8361.601	25	635.5	25	144.816	25	245.554	25	4.09	2.41
SHUT_DOWN	03/01/2019	22:29	~	03/01/2019	22:41	13	2163.6	13	62	13	0	13	8.023	13	0.13	0.00
START_UP	03/02/2019	06:54	~	03/02/2019	07:18	25	11279.6	25	1058.2	25	123.367	25	273.221	25	4.55	2.06
SHUT_DOWN	03/02/2019	10:58	~	03/02/2019	11:10	13	2386.7	13	93.7	13	0	13	11.911	13	0.20	0.00
START_UP	03/02/2019	15:22	~	03/02/2019	15:46	25	16098.2	25	1787.1	25	227.274	24	324.113	24	5.40	3.79
SHUT_DOWN	03/02/2019	20:58	~	03/02/2019	21:10	13	2135.4	13	62.2	13	0	13	11.568	13	0.19	0.00
START_UP	03/03/2019	05:53	~	03/03/2019	06:17	25	7797.9	25	558.4	25	199.125	15	219.444	15	3.66	3.32

SHUT_DOWN	03/03/2019	06:58	~	03/03/2019	07:10	13	2043.8	13	52.7	13	0	13	12.865	13	0.21	0.00
START_UP	03/03/2019	19:08	~	03/03/2019	19:32	25	8059.7	25	594.6	25	163.438	25	268.709	25	4.48	2.72
SHUT_DOWN	03/03/2019	21:13	~	03/03/2019	21:25	13	2112.5	13	57.8	13	0	13	14.008	13	0.23	0.00
START_UP	03/04/2019	05:54	~	03/04/2019	06:18	25	8110.8	25	583.4	25	95.652	25	257.213	25	4.29	1.59
SHUT_DOWN	03/04/2019	07:28	~	03/04/2019	07:40	13	2105.3	13	58.8	13	0	13	13.136	13	0.22	0.00
START_UP	03/04/2019	17:47	~	03/04/2019	18:11	25	15901.2	25	1763.8	25	172.015	25	372.703	25	6.21	2.87
SHUT_DOWN	03/04/2019	23:58	~	03/05/2019	00:10	13	2319.1	13	87.6	13	0	13	16.792	13	0.28	0.00
START_UP	03/05/2019	05:53	~	03/05/2019	06:17	25	9866.101	25	853.8	25	186.953	25	297.448	25	4.96	3.12
SHUT_DOWN	03/05/2019	14:13	~	03/05/2019	14:25	13	2039.9	13	49.3	13	0	13	11.469	13	0.19	0.00
START_UP	03/05/2019	15:08	~	03/05/2019	15:32	25	8772.999	25	687.7	25	15.714	25	86.981	25	1.45	0.26
SHUT_DOWN	03/05/2019	20:33	~	03/05/2019	20:45	13	2279.9	13	78.7	13	0	13	11.578	13	0.19	0.00
START_UP	03/06/2019	17:46	~	03/06/2019	18:10	25	8026.6	25	593.6	25	201.821	25	255.804	25	4.26	3.36
SHUT_DOWN	03/06/2019	20:00	~	03/06/2019	20:12	13	2343.6	13	90.6	13	0	13	18.947	13	0.32	0.00
START_UP	03/07/2019	17:48	~	03/07/2019	18:12	25	14352.8	25	1517.1	25	196.898	25	338.618	25	5.64	3.28
SHUT_DOWN	03/07/2019	20:27	~	03/07/2019	20:39	13	2144.6	13	62.1	13	0	13	14.622	13	0.24	0.00
START_UP	03/08/2019	09:53	~	03/08/2019	10:17	25	8016.9	25	577.2	25	120.393	21	261.463	21	4.36	2.01
SHUT_DOWN	03/08/2019	12:43	~	03/08/2019	12:55	13	2157.4	13	57.6	13	0	13	12.147	13	0.20	0.00
START_UP	03/08/2019	14:37	~	03/08/2019	15:01	25	17317.1	25	1915.3	25	120.173	24	139.761	24	2.33	2.00
SHUT_DOWN	03/08/2019	16:14	~	03/08/2019	16:26	13	2471	13	101.8	13	0	13	15.845	13	0.26	0.00
START_UP	03/09/2019	06:53	~	03/09/2019	07:17	25	11215	25	1020.5	25	163.015	25	343.705	25	5.73	2.72
SHUT_DOWN	03/09/2019	08:59	~	03/09/2019	09:11	13	2493	13	106	13	0	13	15.191	13	0.25	0.00
START_UP	03/09/2019	16:38	~	03/09/2019	17:02	25	8033.7	25	581.2	25	108.43	25	253.278	25	4.22	1.81
SHUT_DOWN	03/09/2019	19:27	~	03/09/2019	19:39	13	2167.3	13	65	13	0	13	16.278	13	0.27	0.00
START_UP	03/10/2019	11:53	~	03/10/2019	12:17	25	11086.3	25	995	25	121.497	25	330.825	25	5.51	2.02
SHUT_DOWN	03/10/2019	16:01	~	03/10/2019	16:13	13	2785.9	13	146.8	13	0	13	24.54	13	0.41	0.00
START_UP	03/10/2019	18:47	~	03/10/2019	19:11	25	8094.4	25	596.4	25	164.626	25	165.918	25	2.77	2.74
SHUT_DOWN	03/10/2019	21:13	~	03/10/2019	21:25	13	1991.5	13	43.3	13	0	13	15.299	13	0.25	0.00
START_UP	03/11/2019	05:08	~	03/11/2019	05:32	25	10014.5	25	867.8	25	116.345	25	289.006	25	4.82	1.94
SHUT_DOWN	03/11/2019	09:12	~	03/11/2019	09:24	13	2281.5	13	82.3	13	0	13	18.008	13	0.30	0.00
START_UP	03/11/2019	13:49	~	03/11/2019	14:13	25	16546.4	25	1808.9	25	106.597	25	296.735	25	4.95	1.78
SHUT_DOWN	03/11/2019	21:27	~	03/11/2019	21:39	13	2332.1	13	87.8	13	0	13	10.848	13	0.18	0.00
START_UP	03/12/2019	04:53	~	03/12/2019	05:17	25	7994.7	25	584.5	25	158.885	25	245.073	25	4.08	2.65
SHUT_DOWN	03/12/2019	08:12	~	03/12/2019	08:24	13	2123.5	13	61.7	13	0	13	13.66	13	0.23	0.00
START_UP	03/12/2019	11:52	~	03/12/2019	12:16	25	8019.301	25	583.9	25	134.579	22	193.976	22	3.23	2.24
SHUT_DOWN	03/12/2019	13:33	~	03/12/2019	13:45	13	2337.2	13	88.2	13	0	13	12.297	13	0.20	0.00
START_UP	03/13/2019	16:53	~	03/13/2019	17:17	25	8121.9	25	587.3	25	110.639	25	264.227	25	4.40	1.84
SHUT_DOWN	03/13/2019	22:58	~	03/13/2019	23:10	13	2029	13	47.2	13	0	13	16.295	13	0.27	0.00
START_UP	03/14/2019	05:23	~	03/14/2019	05:47	25	12595.1	25	1242.7	25	98.522	25	293.064	25	4.88	1.64
SHUT_DOWN	03/14/2019	06:57	~	03/14/2019	07:09	13	2168.7	13	61	13	0	13	22.725	13	0.38	0.00
START_UP	03/14/2019	14:38	~	03/14/2019	15:02	25	7914.7	25	564.9	25	128.908	25	240.865	25	4.01	2.15
SHUT_DOWN	03/14/2019	19:13	~	03/14/2019	19:25	13	1988.1	13	41.1	13	0	13	13.456	13	0.22	0.00
START_UP	03/14/2019	20:08	~	03/14/2019	20:32	25	8054.899	25	583.9	25	6.087	17	72.787	17	1.21	0.10
SHUT_DOWN	03/14/2019	21:58	~	03/14/2019	22:10	13	1993.5	13	43.2	13	0	13	21.228	13	0.35	0.00
START_UP	03/15/2019	05:38	~	03/15/2019	06:02	25	8091	25	588.4	25	84.75	25	279.111	25	4.65	1.41
SHUT_DOWN	03/15/2019	06:42	~	03/15/2019	06:54	13	2098.1	13	54.8	13	0	13	18.375	13	0.31	0.00
START_UP	03/15/2019	11:37	~	03/15/2019	12:01	25	8581.501	25	665	25	111.716	21	218.51	21	3.64	1.86
SHUT_DOWN	03/15/2019	12:59	~	03/15/2019	13:11	13	2542.2	13	112.5	13	0	13	13.388	13	0.22	0.00
START_UP	03/15/2019	17:37	~	03/15/2019	18:01	25	7959.699	25	576.2	25	123.969	11	178.656	11	2.98	2.07
SHUT_DOWN	03/15/2019	21:13	~	03/15/2019	21:25	13	1967	13	42.2	13	0	13	14.595	13	0.24	0.00
START_UP	03/16/2019	10:53	~	03/16/2019	11:17	25	9527.601	25	784.3	25	118.474	25	290.846	25	4.85	1.97
SHUT_DOWN	03/16/2019	13:57	~	03/16/2019	14:09	13	2307.1	13	82.5	13	0	13	12.137	13	0.20	0.00
START_UP	03/16/2019	15:52	~	03/16/2019	16:16	25	8931.899	25	703.6	25	135.742	25	94.365	25	1.57	2.26
SHUT_DOWN	03/16/2019	16:57	~	03/16/2019	17:09	13	2303	13	80.5	13	0	13	14.556	13	0.24	0.00
START_UP	03/16/2019	17:52	~	03/16/2019	18:16	25	10106	25	888.9	25	6	25	118.458	25	1.97	0.10

SHUT_DOWN	03/16/2019	19:57	~	03/16/2019	20:09	13	2305.1	13	80.2	13	0	13	14.471	13	0.24	0.00
START_UP	03/17/2019	18:48	~	03/17/2019	19:12	25	8230.1	25	618.8	25	128.139	11	241.41	11	4.02	2.14
SHUT_DOWN	03/17/2019	20:46	~	03/17/2019	20:58	13	2094.6	13	58.3	13	0	13	11.414	13	0.19	0.00
START_UP	03/18/2019	18:03	~	03/18/2019	18:27	25	9926.3	25	847.1	25	122.121	25	357.474	25	5.96	2.04
SHUT_DOWN	03/18/2019	19:57	~	03/18/2019	20:09	13	2137.3	13	61.3	13	0	13	11.137	13	0.19	0.00
START_UP	03/19/2019	08:08	~	03/19/2019	08:32	25	13829.9	25	1425.9	25	212.998	25	353.351	25	5.89	3.55
SHUT_DOWN	03/19/2019	19:28	~	03/19/2019	19:40	13	2044	13	48.5	13	0	13	11.934	13	0.20	0.00
START_UP	03/20/2019	05:23	~	03/20/2019	05:47	25	8065.601	25	585.5	25	257.98	25	249.756	25	4.16	4.30
SHUT_DOWN	03/20/2019	15:28	~	03/20/2019	15:40	13	2142.1	13	58.7	13	0	13	12.687	13	0.21	0.00
START_UP	03/20/2019	17:23	~	03/20/2019	17:47	25	10584	25	934.5	25	109.231	25	118.852	25	1.98	1.82
SHUT_DOWN	03/20/2019	19:42	~	03/20/2019	19:54	13	2192.5	13	64.8	13	0	13	14.112	13	0.24	0.00
START_UP	03/21/2019	05:08	~	03/21/2019	05:32	25	8187.899	25	584.2	25	108.681	25	248.097	25	4.13	1.81
SHUT_DOWN	03/21/2019	06:29	~	03/21/2019	06:41	13	2206.8	13	68	13	0	13	12.736	13	0.21	0.00
START_UP	03/21/2019	07:52	~	03/21/2019	08:16	25	10805.8	25	956.6	25	186.062	25	101.25	25	1.69	3.10
SHUT_DOWN	03/21/2019	17:12	~	03/21/2019	17:24	13	2186	13	64.3	13	0	13	14.174	13	0.24	0.00
START_UP	03/22/2019	05:08	~	03/22/2019	05:32	25	18385.4	25	2083.6	25	119.552	25	515.881	25	8.60	1.99
SHUT_DOWN	03/22/2019	06:27	~	03/22/2019	06:39	13	2164.1	13	65	13	0	13	15.078	13	0.25	0.00
START_UP	03/22/2019	18:53	~	03/22/2019	19:17	25	7964.1	25	574.2	25	109.971	25	261.839	25	4.36	1.83
SHUT_DOWN	03/22/2019	20:27	~	03/22/2019	20:39	13	2122.2	13	60.1	13	0	13	13.109	13	0.22	0.00
START_UP	03/23/2019	10:08	~	03/23/2019	10:32	25	16449.5	25	1834.6	25	129.639	25	388.763	25	6.48	2.16
SHUT_DOWN	03/23/2019	13:58	~	03/23/2019	14:10	13	2371.6	13	91.6	13	0	13	12.876	13	0.21	0.00
START_UP	03/23/2019	18:49	~	03/23/2019	19:13	25	7854.6	25	568.3	25	202.126	24	217.084	24	3.62	3.37
SHUT_DOWN	03/23/2019	20:12	~	03/23/2019	20:24	13	2150.8	13	61.7	13	0	13	15.786	13	0.26	0.00
START_UP	03/24/2019	18:53	~	03/24/2019	19:17	25	16717.1	25	1859.7	25	112.504	25	455.813	25	7.60	1.88
SHUT_DOWN	03/24/2019	21:27	~	03/24/2019	21:39	13	2116	13	58.8	13	0	13	13.784	13	0.23	0.00
START_UP	03/25/2019	05:08	~	03/25/2019	05:32	25	7947.801	25	573.7	25	106.282	25	262.079	25	4.37	1.77
SHUT_DOWN	03/25/2019	07:27	~	03/25/2019	07:39	13	2169.2	13	64.9	13	0	13	13.609	13	0.23	0.00
START_UP	03/25/2019	17:50	~	03/25/2019	18:14	25	9764.6	25	836.2	25	120.465	25	281.327	25	4.69	2.01
SHUT_DOWN	03/25/2019	20:12	~	03/25/2019	20:24	13	2165.4	13	64.9	13	0	13	12.883	13	0.21	0.00
START_UP	03/26/2019	17:23	~	03/26/2019	17:47	25	12688.9	25	1263.4	25	141.528	25	335.311	25	5.59	2.36
SHUT_DOWN	03/26/2019	20:27	~	03/26/2019	20:39	13	2146.2	13	60.1	13	0	13	11.949	13	0.20	0.00
START_UP	03/26/2019	21:22	~	03/26/2019	21:46	25	7944.201	25	577	25	12.355	25	87.215	25	1.45	0.21
SHUT_DOWN	03/26/2019	22:42	~	03/26/2019	22:54	13	2120.9	13	59.5	13	0	13	13.519	13	0.23	0.00
START_UP	03/27/2019	05:53	~	03/27/2019	06:17	25	8061.101	25	592	25	136.852	25	231.626	25	3.86	2.28
SHUT_DOWN	03/27/2019	07:13	~	03/27/2019	07:25	13	2538.3	13	112.9	13	0	13	10.307	13	0.17	0.00
START_UP	03/27/2019	15:53	~	03/27/2019	16:17	25	8026.601	25	582.8	25	139.959	25	238.431	25	3.97	2.33
SHUT_DOWN	03/27/2019	16:57	~	03/27/2019	17:09	13	2349.7	13	87.1	13	0	13	9.007	13	0.15	0.00
START_UP	03/28/2019	05:23	~	03/28/2019	05:47	25	9625.4	25	811	25	185.641	14	244.676	14	4.08	3.09
SHUT_DOWN	03/28/2019	06:39	~	03/28/2019	06:51	13	2489.2	13	102.6	13	0	13	12.305	13	0.21	0.00
START_UP	03/28/2019	17:26	~	03/28/2019	17:50	25	14221.3	25	1484.2	25	129.02	25	292.877	25	4.88	2.15
SHUT_DOWN	03/28/2019	19:12	~	03/28/2019	19:24	13	2134.5	13	58	13	0	13	13.107	13	0.22	0.00
START_UP	03/29/2019	05:23	~	03/29/2019	05:47	25	10425.3	25	928.5	25	129.435	25	289.432	25	4.82	2.16
SHUT_DOWN	03/29/2019	06:27	~	03/29/2019	06:39	13	2142.7	13	60.9	13	0	13	14.253	13	0.24	0.00
START_UP	03/29/2019	07:52	~	03/29/2019	08:16	25	9343.3	25	768	25	123.059	25	116.6	25	1.94	2.05
SHUT_DOWN	03/29/2019	09:57	~	03/29/2019	10:09	13	2134.5	13	60.4	13	0	13	12.909	13	0.22	0.00
START_UP	03/29/2019	18:23	~	03/29/2019	18:47	25	8061.4	25	584.2	25	121.147	25	245.763	25	4.10	2.02
SHUT_DOWN	03/29/2019	19:27	~	03/29/2019	19:39	13	2137.7	13	60	13	0	13	12.165	13	0.20	0.00
START_UP	03/30/2019	05:23	~	03/30/2019	05:47	25	10101.5	25	876.6	25	144.885	25	281.695	25	4.69	2.41
SHUT_DOWN	03/30/2019	06:29	~	03/30/2019	06:41	13	2040.3	13	49.1	13	0	13	15.049	13	0.25	0.00
START_UP	03/30/2019	12:03	~	03/30/2019	12:27	25	10289.6	25	892.6	25	209.285	25	281.07	25	4.68	3.49
SHUT_DOWN	03/30/2019	13:58	~	03/30/2019	14:10	13	1983.9	13	44.5	13	0	13	11.516	13	0.19	0.00
START_UP	03/30/2019	16:52	~	03/30/2019	17:16	25	9839	25	840	25	124.194	18	173.853	18	2.90	2.07
SHUT_DOWN	03/30/2019	21:57	~	03/30/2019	22:09	13	2095	13	57.1	13	0	13	13.216	13	0.22	0.00
START_UP	03/31/2019	05:23	~	03/31/2019	05:47	25	7946.8	25	571.7	25	126.598	25	243.974	25	4.07	2.11

SHUT_DOWN	03/31/2019 06:28 ~ 03/31/2019 06:40	13	2084.3	13	52.9	13	0	13	15.997	13	0.27	0.00
START_UP	03/31/2019 16:53 ~ 03/31/2019 17:17	25	7856.5	25	572.7	25	237.613	25	241.539	25	4.03	3.96
SHUT_DOWN	03/31/2019 21:12 ~ 03/31/2019 21:24	13	2090.1	13	57.6	13	0	13	12.541	13	0.21	0.00

Startup / ShutDown Report
Generated: 4/23/2019 06:37
StartUp/ShutDown Event Report NRG Carlsbad Unit 10
Carlsbad Unit 10

Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008

Period Start: 1/1/2019 00:00
Period End: 3/31/2019 23:59
Unit Name: Unit10

Events	Time	Total			Total			Total			Total			NOx Lbs/Event	CO Lbs/Event
		Duration (min)	10_GasFlow (kscfh)	Valid Mins	10Gross_MW (MW)	Valid Mins	10COLBHR (LBHR)	Valid Mins	10NOXLBHR (LBHR)	Valid Mins					
START_UP	01/01/2019 17:54 ~ 01/01/2019 18:18	25	8373.101	25	620.5	25	78.845	18	304.411	18	5.07	1.31			
SHUT_DOWN	01/01/2019 19:28 ~ 01/01/2019 19:40	13	2175.5	13	63.4	13	0.233	13	24.544	13	0.41	0.00			
START_UP	01/01/2019 20:25 ~ 01/01/2019 20:49	25	8586.499	25	644.8	25	7.981	25	91.099	25	1.52	0.13			
SHUT_DOWN	01/01/2019 21:43 ~ 01/01/2019 21:55	13	2142.3	13	60	13	0	13	23.961	13	0.40	0.00			
START_UP	01/02/2019 16:54 ~ 01/02/2019 17:18	25	8290.601	25	628.3	25	28.542	12	270.345	13	4.51	0.48			
SHUT_DOWN	01/02/2019 17:40 ~ 01/02/2019 17:52	13	1657.6	13	6.1	13	0	13	27.497	13	0.46	0.00			
START_UP	01/02/2019 18:41 ~ 01/02/2019 19:05	25	8746.999	25	683.2	25	80.647	25	95.839	25	1.60	1.34			
SHUT_DOWN	01/02/2019 19:58 ~ 01/02/2019 20:10	13	2193.9	13	68.6	13	0.176	13	19.307	13	0.32	0.00			
START_UP	01/04/2019 05:54 ~ 01/04/2019 06:18	25	8989.001	25	710.2	25	162.69	22	328.33	22	5.47	2.71			
SHUT_DOWN	01/04/2019 06:59 ~ 01/04/2019 07:11	13	2016.2	13	47.1	13	0.24	13	18.466	13	0.31	0.00			
START_UP	01/04/2019 18:09 ~ 01/04/2019 18:33	25	8830	25	682.1	25	76.98	18	268.393	18	4.47	1.28			
SHUT_DOWN	01/04/2019 19:59 ~ 01/04/2019 20:11	13	2027	13	47.8	13	0	13	15.259	13	0.25	0.00			
START_UP	01/05/2019 05:54 ~ 01/05/2019 06:18	25	8622.6	25	657.4	25	53.928	14	270.334	14	4.51	0.90			
SHUT_DOWN	01/05/2019 07:29 ~ 01/05/2019 07:41	13	2116.1	13	59.9	13	0	13	15.835	13	0.26	0.00			
START_UP	01/05/2019 08:53 ~ 01/05/2019 09:17	25	11591.6	25	1075.6	25	59.455	25	112.08	25	1.87	0.99			
SHUT_DOWN	01/05/2019 13:13 ~ 01/05/2019 13:25	13	2149.8	13	63.9	13	0	13	12.924	13	0.22	0.00			
START_UP	01/05/2019 14:24 ~ 01/05/2019 14:48	25	8372.3	25	635.7	25	16.612	25	90.514	25	1.51	0.28			
SHUT_DOWN	01/05/2019 15:28 ~ 01/05/2019 15:40	13	2107.9	13	59.4	13	0	13	14.718	13	0.25	0.00			
START_UP	01/06/2019 07:24 ~ 01/06/2019 07:48	25	11330.9	25	1029.7	25	66.264	13	323.998	13	5.40	1.10			
SHUT_DOWN	01/06/2019 08:58 ~ 01/06/2019 09:10	13	2156	13	62.4	13	0	13	12.844	13	0.21	0.00			
START_UP	01/07/2019 06:24 ~ 01/07/2019 06:48	25	12080.1	25	1162.6	25	101.234	25	489.376	25	8.16	1.69			
SHUT_DOWN	01/07/2019 07:28 ~ 01/07/2019 07:40	13	2255.3	13	73.7	13	0.243	13	17.636	13	0.29	0.00			
START_UP	01/07/2019 16:24 ~ 01/07/2019 16:48	25	8954	25	709.8	25	105.466	25	267.865	25	4.46	1.76			
SHUT_DOWN	01/07/2019 18:28 ~ 01/07/2019 18:40	13	2250.3	13	74.3	13	0	13	12.829	13	0.21	0.00			
START_UP	01/08/2019 06:24 ~ 01/08/2019 06:48	25	8901.3	25	690.8	25	61.179	14	283.923	14	4.73	1.02			
SHUT_DOWN	01/08/2019 08:14 ~ 01/08/2019 08:26	13	2014	13	45.7	13	0.601	13	16.199	13	0.27	0.01			
START_UP	01/08/2019 16:24 ~ 01/08/2019 16:48	25	8188.3	25	597.9	25	27.076	25	257.413	25	4.29	0.45			
SHUT_DOWN	01/08/2019 19:14 ~ 01/08/2019 19:26	13	2024.7	13	48.7	13	0	13	15.1	13	0.25	0.00			
START_UP	01/09/2019 05:54 ~ 01/09/2019 06:18	25	8945.101	25	692.5	25	74.157	25	298.986	25	4.98	1.24			
SHUT_DOWN	01/09/2019 08:58 ~ 01/09/2019 09:10	13	2113.2	13	56.7	13	0.439	13	15.871	13	0.26	0.01			
START_UP	01/09/2019 15:54 ~ 01/09/2019 16:18	25	9342.599	25	746.5	25	43.701	25	254.132	25	4.24	0.73			
SHUT_DOWN	01/09/2019 16:58 ~ 01/09/2019 17:10	13	2220.6	13	72	13	0	13	10.893	13	0.18	0.00			
START_UP	01/10/2019 05:55 ~ 01/10/2019 06:19	25	9018.2	25	699.4	25	30.873	24	319.654	25	5.33	0.51			
SHUT_DOWN	01/10/2019 07:59 ~ 01/10/2019 08:11	13	2035	13	47.3	13	0.16	13	14.85	13	0.25	0.00			
START_UP	01/11/2019 05:54 ~ 01/11/2019 06:18	25	9070.9	25	715	25	136.308	14	290.855	14	4.85	2.27			
SHUT_DOWN	01/11/2019 07:45 ~ 01/11/2019 07:57	13	2118.9	13	57.8	13	0.573	13	13.408	13	0.22	0.01			
START_UP	01/11/2019 14:54 ~ 01/11/2019 15:18	25	8546.1	25	644.4	25	61.29	25	262.126	25	4.37	1.02			
SHUT_DOWN	01/11/2019 22:58 ~ 01/11/2019 23:10	13	2225.9	13	71.9	13	0.283	13	12.686	13	0.21	0.00			
START_UP	01/12/2019 06:54 ~ 01/12/2019 07:18	25	8844.4	25	684.2	25	61.615	18	257.74	18	4.30	1.03			
SHUT_DOWN	01/12/2019 08:13 ~ 01/12/2019 08:25	13	2215.5	13	69.9	13	0.692	13	11.997	13	0.20	0.01			
START_UP	01/12/2019 14:54 ~ 01/12/2019 15:18	25	10184.8	25	888.7	25	60.775	25	282.076	25	4.70	1.01			
SHUT_DOWN	01/12/2019 19:14 ~ 01/12/2019 19:26	13	2504.1	13	107.2	13	0.465	13	15.743	13	0.26	0.01			
START_UP	01/13/2019 16:55 ~ 01/13/2019 17:19	25	8911.199	25	706	25	31.563	14	289.662	15	4.83	0.53			

SHUT_DOWN	01/13/2019	19:58	~	01/13/2019	20:10	13	2195.7	13	68.4	13	0	13	13.307	13	0.22	0.00
START_UP	01/14/2019	05:54	~	01/14/2019	06:18	25	8891.5	25	688.2	25	39.044	14	264.14	14	4.40	0.65
SHUT_DOWN	01/14/2019	09:58	~	01/14/2019	10:10	13	2204.6	13	69.4	13	0	13	13.608	13	0.23	0.00
START_UP	01/14/2019	11:38	~	01/14/2019	12:02	25	17569.3	25	1955.6	25	87.908	25	173.333	25	2.89	1.47
SHUT_DOWN	01/14/2019	20:29	~	01/14/2019	20:41	13	2516.2	13	112.1	13	0.346	13	14.375	13	0.24	0.01
START_UP	01/15/2019	07:09	~	01/15/2019	07:33	25	9505.4	25	785.8	25	35.864	14	250.978	14	4.18	0.60
SHUT_DOWN	01/15/2019	08:13	~	01/15/2019	08:25	13	2241.6	13	74.4	13	0	13	11.75	13	0.20	0.00
START_UP	01/15/2019	13:54	~	01/15/2019	14:18	25	9560.9	25	786.7	25	22.414	24	271.793	25	4.53	0.37
SHUT_DOWN	01/15/2019	21:44	~	01/15/2019	21:56	13	2374.2	13	91.4	13	0.685	13	9.025	13	0.15	0.01
START_UP	01/16/2019	05:54	~	01/16/2019	06:18	25	13668.2	25	1384.7	25	1.165	3	5.567	3	0.09	0.02
SHUT_DOWN	01/16/2019	09:13	~	01/16/2019	09:25	13	2187.1	13	65.3	13	0	13	11.213	13	0.19	0.00
START_UP	01/16/2019	15:38	~	01/16/2019	16:02	25	8808.7	25	698.3	25	203.642	25	252.226	25	4.20	3.39
SHUT_DOWN	01/16/2019	20:14	~	01/16/2019	20:26	13	2536.3	13	114.4	13	0.471	13	7.514	13	0.13	0.01
START_UP	01/16/2019	21:23	~	01/16/2019	21:47	25	20606.9	25	2410.4	25	76.407	25	170.142	25	2.84	1.27
SHUT_DOWN	01/16/2019	22:28	~	01/16/2019	22:40	13	2291.9	13	80.5	13	0	13	11.856	13	0.20	0.00
START_UP	01/17/2019	05:53	~	01/17/2019	06:17	25	8844.299	25	703.9	25	22.158	24	274.212	25	4.57	0.37
SHUT_DOWN	01/17/2019	07:58	~	01/17/2019	08:10	13	2206.7	13	69.8	13	0	13	10.676	13	0.18	0.00
START_UP	01/17/2019	14:53	~	01/17/2019	15:17	25	8473.6	25	647.8	25	220.128	25	261.648	25	4.36	3.67
SHUT_DOWN	01/17/2019	17:58	~	01/17/2019	18:10	13	2245.2	13	72.4	13	0	13	9.971	13	0.17	0.00
START_UP	01/18/2019	05:54	~	01/18/2019	06:18	25	8787.2	25	672.6	25	50.212	25	281.114	25	4.69	0.84
SHUT_DOWN	01/18/2019	08:58	~	01/18/2019	09:10	13	2169.7	13	64.4	13	0	13	10.357	13	0.17	0.00
START_UP	01/18/2019	16:08	~	01/18/2019	16:32	25	8484.199	25	648.7	25	216.881	24	257.775	24	4.30	3.61
SHUT_DOWN	01/18/2019	19:13	~	01/18/2019	19:25	13	2321.9	13	80.8	13	0	13	11.29	13	0.19	0.00
START_UP	01/19/2019	05:54	~	01/19/2019	06:18	25	9445.3	25	757.3	25	31.493	24	321.956	25	5.37	0.52
SHUT_DOWN	01/19/2019	06:58	~	01/19/2019	07:10	13	2235.5	13	71.4	13	0	13	14.426	13	0.24	0.00
START_UP	01/19/2019	07:53	~	01/19/2019	08:17	25	8826.301	25	679.1	25	10.708	25	86.578	25	1.44	0.18
SHUT_DOWN	01/19/2019	08:58	~	01/19/2019	09:10	13	2238.6	13	72.5	13	0	13	12.633	13	0.21	0.00
START_UP	01/19/2019	16:39	~	01/19/2019	17:03	25	9878.602	25	834.4	25	72.85	25	341.784	25	5.70	1.21
SHUT_DOWN	01/19/2019	18:29	~	01/19/2019	18:41	13	2068.5	13	52.3	13	0.36	13	11.322	13	0.19	0.01
START_UP	01/19/2019	21:54	~	01/19/2019	22:18	25	8372.6	25	622.2	25	41.327	25	184.894	25	3.08	0.69
SHUT_DOWN	01/19/2019	23:59	~	01/20/2019	00:11	13	2053.7	13	51.7	13	0.654	13	13.069	13	0.22	0.01
START_UP	01/20/2019	05:53	~	01/20/2019	06:17	25	8541.199	25	656.1	25	203.807	25	265.901	25	4.43	3.40
SHUT_DOWN	01/20/2019	07:58	~	01/20/2019	08:10	13	2165.1	13	63.9	13	0.675	13	15.311	13	0.26	0.01
START_UP	01/20/2019	15:08	~	01/20/2019	15:32	25	8418.9	25	638.7	25	190.298	25	257.144	25	4.29	3.17
SHUT_DOWN	01/20/2019	16:13	~	01/20/2019	16:25	13	2129.7	13	59.1	13	0	13	10.101	13	0.17	0.00
START_UP	01/20/2019	17:54	~	01/20/2019	18:18	25	18555.5	25	2097.6	25	95.476	24	174.781	25	2.91	1.59
SHUT_DOWN	01/20/2019	19:58	~	01/20/2019	20:10	13	2159.4	13	64.9	13	0.451	13	10.307	13	0.17	0.01
START_UP	01/21/2019	05:54	~	01/21/2019	06:18	25	9246.4	25	738.8	25	61.822	25	302.087	25	5.03	1.03
SHUT_DOWN	01/21/2019	08:13	~	01/21/2019	08:25	13	2186.5	13	66.6	13	0.045	13	13.522	13	0.23	0.00
START_UP	01/21/2019	09:53	~	01/21/2019	10:17	25	9112.7	25	724.4	25	84.541	16	77.795	16	1.30	1.41
SHUT_DOWN	01/21/2019	12:59	~	01/21/2019	13:11	13	2207.3	13	70.5	13	0.182	13	13.647	13	0.23	0.00
START_UP	01/21/2019	16:53	~	01/21/2019	17:17	25	9010.601	25	710.6	25	84.185	25	226.412	25	3.77	1.40
SHUT_DOWN	01/21/2019	20:58	~	01/21/2019	21:10	13	2295.9	13	78.6	13	0.044	13	14.11	13	0.24	0.00
START_UP	01/21/2019	22:54	~	01/21/2019	23:18	25	10742.7	25	943.7	25	68.763	25	107.669	25	1.79	1.15
SHUT_DOWN	01/21/2019	23:59	~	01/22/2019	00:11	13	2211.7	13	69.9	13	0.443	13	14.283	13	0.24	0.01
START_UP	01/22/2019	06:09	~	01/22/2019	06:33	25	11457.1	25	1068.1	25	51.528	25	396.112	25	6.60	0.86
SHUT_DOWN	01/22/2019	07:27	~	01/22/2019	07:39	13	2121.5	13	61.1	13	0.438	13	19.41	13	0.32	0.01
START_UP	01/22/2019	16:24	~	01/22/2019	16:48	25	10232.8	25	878.4	25	38.768	25	270.063	25	4.50	0.65
SHUT_DOWN	01/22/2019	20:15	~	01/22/2019	20:27	13	2235.2	13	70.3	13	0.375	13	22.211	13	0.37	0.01
START_UP	01/23/2019	05:54	~	01/23/2019	06:18	25	9208.801	25	720.7	25	40.934	17	282.153	17	4.70	0.68
SHUT_DOWN	01/23/2019	08:31	~	01/23/2019	08:43	13	2392.1	13	91.5	13	0.875	13	23.065	13	0.38	0.01
START_UP	01/23/2019	12:23	~	01/23/2019	12:47	25	13840.2	25	1408	25	69.175	25	292.011	25	4.87	1.15
SHUT_DOWN	01/23/2019	13:28	~	01/23/2019	13:40	13	2201.5	13	66.8	13	0.281	13	13.764	13	0.23	0.00
START_UP	01/23/2019	16:38	~	01/23/2019	17:02	25	8380.199	25	625.1	25	58.87	25	181.816	25	3.03	0.98
SHUT_DOWN	01/23/2019	17:58	~	01/23/2019	18:10	13	2078.4	13	53.4	13	0	13	13.686	13	0.23	0.00
START_UP	01/24/2019	05:53	~	01/24/2019	06:17	25	8928.7	25	708.8	25	19.603	24	313.302	25	5.22	0.33

SHUT_DOWN	01/24/2019	07:58	~	01/24/2019	08:10	13	2168.2	13	66.3	13	0.409	13	18.243	13	0.30	0.01
START_UP	01/24/2019	16:39	~	01/24/2019	17:03	25	8966.6	25	706.8	25	58.74	25	263.76	25	4.40	0.98
SHUT_DOWN	01/24/2019	19:28	~	01/24/2019	19:40	13	2217.7	13	73	13	0.646	13	13.9	13	0.23	0.01
START_UP	01/25/2019	06:24	~	01/25/2019	06:48	25	13013.5	25	1326.3	25	98.707	25	540.66	25	9.01	1.65
SHUT_DOWN	01/25/2019	07:28	~	01/25/2019	07:40	13	2213	13	73	13	0.51	13	18.042	13	0.30	0.01
START_UP	01/25/2019	09:23	~	01/25/2019	09:47	25	16774.3	25	1846.8	25	118.583	25	172.773	25	2.88	1.98
SHUT_DOWN	01/25/2019	12:15	~	01/25/2019	12:27	13	2439.1	13	98.7	13	3.731	13	10.756	13	0.18	0.06
START_UP	01/25/2019	13:08	~	01/25/2019	13:32	25	20247.7	25	2349.9	25	40.742	12	152.596	12	2.54	0.68
SHUT_DOWN	01/25/2019	14:14	~	01/25/2019	14:26	13	2446.8	13	102.5	13	2.513	13	7.892	13	0.13	0.04
START_UP	01/25/2019	16:38	~	01/25/2019	17:02	25	16971.2	25	1888.9	25	200.771	25	128.874	25	2.15	3.35
SHUT_DOWN	01/25/2019	17:58	~	01/25/2019	18:10	13	2193.3	13	67.6	13	0.998	13	7.492	13	0.12	0.02
START_UP	01/25/2019	18:53	~	01/25/2019	19:17	25	18712.8	25	2149.4	25	182.148	25	161.489	25	2.69	3.04
SHUT_DOWN	01/25/2019	20:14	~	01/25/2019	20:26	13	2427.6	13	99.4	13	1.091	13	16.972	13	0.28	0.02
START_UP	01/26/2019	08:24	~	01/26/2019	08:48	25	11921.6	25	1117.4	25	70.522	25	395.552	25	6.59	1.18
SHUT_DOWN	01/26/2019	09:43	~	01/26/2019	09:55	13	2129.1	13	60.7	13	0.091	13	14.008	13	0.23	0.00
START_UP	01/26/2019	14:53	~	01/26/2019	15:17	25	14565.5	25	1526	25	122.044	25	338.131	25	5.64	2.03
SHUT_DOWN	01/26/2019	15:58	~	01/26/2019	16:10	13	2107	13	57.6	13	0	13	11.71	13	0.20	0.00
START_UP	01/26/2019	17:23	~	01/26/2019	17:47	25	9568.7	25	825.4	25	101.454	25	127.154	25	2.12	1.69
SHUT_DOWN	01/26/2019	18:28	~	01/26/2019	18:40	13	2119.9	13	60.2	13	0	13	13.146	13	0.22	0.00
START_UP	01/27/2019	14:54	~	01/27/2019	15:18	25	8258.5	25	611.9	25	30.523	24	280.488	25	4.67	0.51
SHUT_DOWN	01/27/2019	18:58	~	01/27/2019	19:10	13	2258	13	76.9	13	0	13	13.624	13	0.23	0.00
START_UP	01/28/2019	06:23	~	01/28/2019	06:47	25	15717.3	25	1719	25	51.748	21	394.299	22	6.57	0.86
SHUT_DOWN	01/28/2019	07:44	~	01/28/2019	07:56	13	2434.3	13	100.6	13	0.655	13	11.946	13	0.20	0.01
START_UP	01/28/2019	13:53	~	01/28/2019	14:17	25	9133.6	25	759	25	20.098	24	250.666	25	4.18	0.33
SHUT_DOWN	01/28/2019	18:58	~	01/28/2019	19:10	13	2268.9	13	81.5	13	0	13	14.569	13	0.24	0.00
START_UP	01/29/2019	14:54	~	01/29/2019	15:18	25	8503.601	25	653.3	25	56.595	25	294.683	25	4.91	0.94
SHUT_DOWN	01/29/2019	19:59	~	01/29/2019	20:11	13	2104.6	13	62.8	13	0	13	9.666	13	0.16	0.00
START_UP	01/30/2019	06:38	~	01/30/2019	07:02	25	11895.2	25	1162.3	25	41.208	24	469.873	25	7.83	0.69
SHUT_DOWN	01/30/2019	07:43	~	01/30/2019	07:55	13	2177.9	13	68.5	13	0.182	13	11.374	13	0.19	0.00
START_UP	01/30/2019	14:53	~	01/30/2019	15:17	25	9375.899	25	782.3	25	16.852	24	261.415	25	4.36	0.28
SHUT_DOWN	01/30/2019	20:13	~	01/30/2019	20:25	13	2183.7	13	69.4	13	0	13	11.631	13	0.19	0.00
START_UP	01/31/2019	15:53	~	01/31/2019	16:17	25	8438.199	25	652.1	25	10.999	24	291.147	25	4.85	0.18
SHUT_DOWN	01/31/2019	16:58	~	01/31/2019	17:10	13	2164.3	13	66.1	13	0	13	11.399	13	0.19	0.00
START_UP	01/31/2019	17:55	~	01/31/2019	18:19	25	19198.9	25	2225.3	25	59.936	25	195.381	25	3.26	1.00
SHUT_DOWN	01/31/2019	19:13	~	01/31/2019	19:25	13	2185.4	13	69.1	13	0	13	10.479	13	0.17	0.00
START_UP	01/31/2019	20:31	~	01/31/2019	20:55	25	16747.4	25	1877.2	25	45.798	25	130.39	25	2.17	0.76
SHUT_DOWN	01/31/2019	21:58	~	01/31/2019	22:10	13	2167.8	13	65.2	13	0	13	9.369	13	0.16	0.00
START_UP	02/01/2019	06:23	~	02/01/2019	06:47	25	8887.9	25	706.2	25	146.746	25	282.371	25	4.71	2.45
SHUT_DOWN	02/01/2019	07:28	~	02/01/2019	07:40	13	2125.7	13	60.1	13	0.23	13	9.85	13	0.16	0.00
START_UP	02/01/2019	16:38	~	02/01/2019	17:02	25	8729.4	25	690.1	25	218.111	25	287.073	25	4.78	3.64
SHUT_DOWN	02/01/2019	17:58	~	02/01/2019	18:10	13	2257.5	13	77.4	13	0	13	10.45	13	0.17	0.00
START_UP	02/02/2019	17:39	~	02/02/2019	18:03	25	13364.4	25	1347	25	65.703	24	523.129	25	8.72	1.10
SHUT_DOWN	02/02/2019	18:43	~	02/02/2019	18:55	13	2153.4	13	64.4	13	0.949	13	11.054	13	0.18	0.02
START_UP	02/02/2019	20:53	~	02/02/2019	21:17	25	12086	25	1185.2	25	62.442	25	154.987	25	2.58	1.04
SHUT_DOWN	02/02/2019	21:58	~	02/02/2019	22:10	13	2178.7	13	73	13	0.652	13	11.985	13	0.20	0.01
START_UP	02/03/2019	15:54	~	02/03/2019	16:18	25	9211.9	25	760.3	25	85.941	17	275.517	17	4.59	1.43
SHUT_DOWN	02/03/2019	18:13	~	02/03/2019	18:25	13	2152.9	13	65.9	13	1.3	13	11.43	13	0.19	0.02
START_UP	02/04/2019	05:54	~	02/04/2019	06:18	25	8636.699	25	670.9	25	40.117	25	287.311	25	4.79	0.67
SHUT_DOWN	02/04/2019	08:58	~	02/04/2019	09:10	13	2118.2	13	61.5	13	1.07	13	10.365	13	0.17	0.02
START_UP	02/04/2019	16:24	~	02/04/2019	16:48	25	8891.3	25	705.4	25	34.605	24	283.821	25	4.73	0.58
SHUT_DOWN	02/04/2019	21:58	~	02/04/2019	22:10	13	2147.9	13	65.3	13	1.343	13	11.023	13	0.18	0.02
START_UP	02/05/2019	05:54	~	02/05/2019	06:18	25	9009.601	25	716.4	25	47.096	25	286.353	25	4.77	0.78
SHUT_DOWN	02/05/2019	07:58	~	02/05/2019	08:10	13	2144.4	13	65.9	13	1.177	13	11.886	13	0.20	0.02
START_UP	02/05/2019	16:54	~	02/05/2019	17:18	25	8860.5	25	705.6	25	72.983	25	297.396	25	4.96	1.22
SHUT_DOWN	02/05/2019	21:58	~	02/05/2019	22:10	13	2134.2	13	63.8	13	1.167	13	14.11	13	0.24	0.02
START_UP	02/06/2019	05:54	~	02/06/2019	06:18	25	16849.4	25	1907.8	25	68.153	25	430.281	25	7.17	1.14

SHUT_DOWN	02/06/2019	07:28	~	02/06/2019	07:40	13	2170.4	13	66.6	13	0.912	13	13.667	13	0.23	0.02
START_UP	02/06/2019	17:38	~	02/06/2019	18:02	25	12365	25	1220.3	25	163.234	25	529.665	25	8.83	2.72
SHUT_DOWN	02/06/2019	19:58	~	02/06/2019	20:10	13	2161.3	13	64.1	13	0.797	13	12.988	13	0.22	0.01
START_UP	02/07/2019	05:54	~	02/07/2019	06:18	25	9271.399	25	744.8	25	57.939	25	322.025	25	5.37	0.97
SHUT_DOWN	02/07/2019	07:10	~	02/07/2019	07:22	13	2211.4	13	70.4	13	1.004	13	12.773	13	0.21	0.02
START_UP	02/11/2019	06:24	~	02/11/2019	06:48	25	8485.4	25	631.5	25	108.184	25	322.705	25	5.38	1.80
SHUT_DOWN	02/11/2019	07:28	~	02/11/2019	07:40	13	2065.6	13	51.6	13	0.654	13	16.695	13	0.28	0.01
START_UP	02/12/2019	14:08	~	02/12/2019	14:32	25	14888.1	25	1580.5	25	254.388	25	358.106	25	5.97	4.24
SHUT_DOWN	02/12/2019	15:43	~	02/12/2019	15:55	13	2115.8	13	56.9	13	0	13	12.75	13	0.21	0.00
START_UP	02/12/2019	16:38	~	02/12/2019	17:02	25	16542	25	1808.2	25	70.311	25	140.919	25	2.35	1.17
SHUT_DOWN	02/12/2019	20:29	~	02/12/2019	20:41	13	2557.5	13	115.1	13	0.961	13	15.372	13	0.26	0.02
START_UP	02/13/2019	06:53	~	02/13/2019	07:17	25	8259.5	25	604.1	25	197.957	25	285.862	25	4.76	3.30
SHUT_DOWN	02/13/2019	08:14	~	02/13/2019	08:26	13	2441.9	13	96.5	13	1.19	13	12.717	13	0.21	0.02
START_UP	02/13/2019	15:53	~	02/13/2019	16:17	25	8346.9	25	618.2	25	163.572	25	264.344	25	4.41	2.73
SHUT_DOWN	02/13/2019	21:58	~	02/13/2019	22:10	13	2178.6	13	64.1	13	0.225	13	11.58	13	0.19	0.00
START_UP	02/14/2019	06:52	~	02/14/2019	07:16	25	8727.401	25	672.8	25	125.152	25	277.71	25	4.63	2.09
SHUT_DOWN	02/14/2019	10:58	~	02/14/2019	11:10	13	2129	13	59	13	0.581	13	10.377	13	0.17	0.01
START_UP	02/14/2019	17:38	~	02/14/2019	18:02	25	8812.5	25	684.2	25	22.956	24	272.768	25	4.55	0.38
SHUT_DOWN	02/14/2019	18:43	~	02/14/2019	18:55	13	2284.3	13	76	13	0	13	13.067	13	0.22	0.00
START_UP	02/15/2019	17:24	~	02/15/2019	17:48	25	8651.1	25	642.7	25	45.655	25	298.486	25	4.97	0.76
SHUT_DOWN	02/15/2019	18:43	~	02/15/2019	18:55	13	2146	13	58.4	13	0	13	12.823	13	0.21	0.00
START_UP	02/15/2019	19:53	~	02/15/2019	20:17	25	8461.4	25	622.5	25	14.882	25	88.622	25	1.48	0.25
SHUT_DOWN	02/15/2019	22:28	~	02/15/2019	22:40	13	2191.9	13	64.3	13	0	13	13.45	13	0.22	0.00
START_UP	02/16/2019	11:54	~	02/16/2019	12:18	25	8618.5	25	645.1	25	28.089	24	316.159	25	5.27	0.47
SHUT_DOWN	02/16/2019	14:28	~	02/16/2019	14:40	13	2343.7	13	85.7	13	0.448	13	14.082	13	0.23	0.01
START_UP	02/16/2019	15:23	~	02/16/2019	15:47	25	10266.1	25	896.3	25	15.335	25	118.852	25	1.98	0.26
SHUT_DOWN	02/16/2019	21:13	~	02/16/2019	21:25	13	2113.9	13	56	13	0.671	13	13.548	13	0.23	0.01
START_UP	02/17/2019	05:53	~	02/17/2019	06:17	25	9939.899	25	846.1	25	23.489	20	280.64	21	4.68	0.39
SHUT_DOWN	02/17/2019	07:13	~	02/17/2019	07:25	13	2036.8	13	48.5	13	0.814	13	14.129	13	0.24	0.01
START_UP	02/17/2019	08:38	~	02/17/2019	09:02	25	8505.699	25	636.3	25	27.429	25	101.126	25	1.69	0.46
SHUT_DOWN	02/17/2019	14:58	~	02/17/2019	15:10	13	2175.7	13	64.3	13	0.954	13	14.886	13	0.25	0.02
START_UP	02/17/2019	16:23	~	02/17/2019	16:47	25	12776	25	1253.6	25	34.297	24	125.631	25	2.09	0.57
SHUT_DOWN	02/17/2019	20:28	~	02/17/2019	20:40	13	2159.1	13	63.5	13	0.894	13	13.293	13	0.22	0.01
START_UP	02/18/2019	05:54	~	02/18/2019	06:18	25	11615.4	25	1074.7	25	38.732	24	343.861	25	5.73	0.65
SHUT_DOWN	02/18/2019	07:28	~	02/18/2019	07:40	13	2178.8	13	66.1	13	0.949	13	18.08	13	0.30	0.02
START_UP	02/18/2019	14:58	~	02/18/2019	15:22	25	9164	25	730.9	25	62.73	25	281.015	25	4.68	1.05
SHUT_DOWN	02/18/2019	18:43	~	02/18/2019	18:55	13	2217.7	13	69.4	13	0.962	13	17.709	13	0.30	0.02
START_UP	02/18/2019	20:53	~	02/18/2019	21:17	25	8915.701	25	686.8	25	64.556	25	99.294	25	1.65	1.08
SHUT_DOWN	02/18/2019	21:59	~	02/18/2019	22:11	13	2308.2	13	82.4	13	1.216	13	15.423	13	0.26	0.02
START_UP	02/19/2019	05:53	~	02/19/2019	06:17	25	8480.8	25	645.3	25	222.891	25	284.868	25	4.75	3.71
SHUT_DOWN	02/19/2019	07:58	~	02/19/2019	08:10	13	2215.4	13	72.1	13	0.919	13	21.734	13	0.36	0.02
START_UP	02/19/2019	15:54	~	02/19/2019	16:18	25	8807.3	25	680.3	25	31.107	24	288.994	25	4.82	0.52
SHUT_DOWN	02/19/2019	20:58	~	02/19/2019	21:10	13	2101.7	13	55.7	13	0.705	13	19.359	13	0.32	0.01
START_UP	02/20/2019	06:25	~	02/20/2019	06:49	25	8220	25	608.3	25	94.631	25	290.595	25	4.84	1.58
SHUT_DOWN	02/20/2019	07:28	~	02/20/2019	07:40	13	2119.4	13	60.3	13	0.934	13	17.339	13	0.29	0.02
START_UP	02/20/2019	15:39	~	02/20/2019	16:03	25	8914.901	25	711	25	102.364	25	280.071	25	4.67	1.71
SHUT_DOWN	02/20/2019	18:58	~	02/20/2019	19:10	13	2089.5	13	57.8	13	1.319	13	14.605	13	0.24	0.02
START_UP	02/21/2019	16:38	~	02/21/2019	17:02	25	8197.6	25	615.3	25	222.75	25	311.435	25	5.19	3.71
SHUT_DOWN	02/21/2019	22:00	~	02/21/2019	22:12	13	2348	13	89.7	13	1.9	13	14.378	13	0.24	0.03
START_UP	02/22/2019	15:54	~	02/22/2019	16:18	25	9195.199	25	728.2	25	45.281	25	296.396	25	4.94	0.75
SHUT_DOWN	02/22/2019	20:29	~	02/22/2019	20:41	13	2298.2	13	80.6	13	1.509	13	15.193	13	0.25	0.03
START_UP	02/23/2019	11:24	~	02/23/2019	11:48	25	8456.601	25	629.3	25	101.277	25	293.12	25	4.89	1.69
SHUT_DOWN	02/23/2019	12:58	~	02/23/2019	13:10	13	2088.1	13	53	13	0	13	15.99	13	0.27	0.00
START_UP	02/23/2019	13:53	~	02/23/2019	14:17	25	9147.5	25	723.9	25	4.934	25	93.396	25	1.56	0.08
SHUT_DOWN	02/23/2019	15:59	~	02/23/2019	16:11	13	2215.4	13	69.8	13	0.295	13	20.012	13	0.33	0.00
START_UP	02/24/2019	10:09	~	02/24/2019	10:33	25	8177.3	25	597.6	25	41.004	17	288.847	18	4.81	0.68

SHUT_DOWN	02/24/2019	11:58	~	02/24/2019	12:10	13	2310.9	13	84.4	13	0.677	13	12.258	13	0.20	0.01
START_UP	02/24/2019	17:23	~	02/24/2019	17:47	25	8448.001	25	631.6	25	51.856	25	243.633	25	4.06	0.86
SHUT_DOWN	02/24/2019	18:28	~	02/24/2019	18:40	13	2046.9	13	48.7	13	0	13	13.173	13	0.22	0.00
START_UP	02/25/2019	05:54	~	02/25/2019	06:18	25	8766.5	25	673	25	81.087	25	308.221	25	5.14	1.35
SHUT_DOWN	02/25/2019	07:28	~	02/25/2019	07:40	13	2066.5	13	52.1	13	0.733	13	12.738	13	0.21	0.01
START_UP	02/25/2019	16:39	~	02/25/2019	17:03	25	17302.1	25	1923.8	25	129.761	25	399.942	25	6.67	2.16
SHUT_DOWN	02/25/2019	19:58	~	02/25/2019	20:10	13	2139.4	13	60.8	13	0.668	13	12.132	13	0.20	0.01
START_UP	02/25/2019	20:53	~	02/25/2019	21:17	25	8977.6	25	701	25	6.827	25	102.119	25	1.70	0.11
SHUT_DOWN	02/25/2019	21:58	~	02/25/2019	22:10	13	2125.1	13	58.6	13	0.667	13	14.753	13	0.25	0.01
START_UP	02/26/2019	05:54	~	02/26/2019	06:18	25	8856.699	25	679.6	25	36.193	25	289.647	25	4.83	0.60
SHUT_DOWN	02/26/2019	07:59	~	02/26/2019	08:11	13	2047.2	13	50.2	13	0.65	13	16.44	13	0.27	0.01
START_UP	02/26/2019	11:23	~	02/26/2019	11:47	25	8823.499	25	691.8	25	139.63	25	210.126	25	3.50	2.33
SHUT_DOWN	02/26/2019	14:14	~	02/26/2019	14:26	13	2504.4	13	108.1	13	1.396	13	9.443	13	0.16	0.02
START_UP	02/26/2019	15:08	~	02/26/2019	15:32	25	16325.4	25	1778	25	39.212	25	167.704	25	2.80	0.65
SHUT_DOWN	02/26/2019	22:59	~	02/26/2019	23:11	13	2252.8	13	76.4	13	0.953	13	14.418	13	0.24	0.02
START_UP	02/27/2019	15:24	~	02/27/2019	15:48	25	8493.699	25	639.2	25	102.712	25	276.44	25	4.61	1.71
SHUT_DOWN	02/27/2019	22:58	~	02/27/2019	23:10	13	2187.8	13	66.1	13	0.679	13	14.895	13	0.25	0.01
START_UP	02/28/2019	09:08	~	02/28/2019	09:32	25	11826.9	25	1139.9	25	34.597	24	306.442	25	5.11	0.58
SHUT_DOWN	02/28/2019	10:43	~	02/28/2019	10:55	13	2156.1	13	64.2	13	0.984	13	10.554	13	0.18	0.02
START_UP	02/28/2019	16:54	~	02/28/2019	17:18	25	8887.8	25	692.8	25	39.328	24	252.636	25	4.21	0.66
SHUT_DOWN	02/28/2019	23:13	~	02/28/2019	23:25	13	2081.7	13	56.5	13	0.66	13	11.032	13	0.18	0.01
START_UP	03/01/2019	05:53	~	03/01/2019	06:17	25	9701.7	25	816.7	25	138.155	25	324.363	25	5.41	2.30
SHUT_DOWN	03/01/2019	07:16	~	03/01/2019	07:28	13	2304.8	13	85.6	13	1.571	13	7.728	13	0.13	0.03
START_UP	03/01/2019	17:24	~	03/01/2019	17:48	25	10057.6	25	871.1	25	45.983	24	306.389	25	5.11	0.77
SHUT_DOWN	03/01/2019	22:58	~	03/01/2019	23:10	13	2155.5	13	65.5	13	0.672	13	11.171	13	0.19	0.01
START_UP	03/02/2019	07:38	~	03/02/2019	08:02	25	8690.801	25	683.7	25	34.732	19	276.845	20	4.61	0.58
SHUT_DOWN	03/02/2019	08:43	~	03/02/2019	08:55	13	2214.7	13	71.2	13	2.064	13	11.551	13	0.19	0.03
START_UP	03/02/2019	09:37	~	03/02/2019	10:01	25	8679.601	25	678.4	25	12.817	25	102.45	25	1.71	0.21
SHUT_DOWN	03/02/2019	10:43	~	03/02/2019	10:55	13	2129	13	61.8	13	1.966	13	10.788	13	0.18	0.03
START_UP	03/02/2019	12:23	~	03/02/2019	12:47	25	16949.4	25	1883.3	25	57.876	24	150.854	25	2.51	0.96
SHUT_DOWN	03/02/2019	20:44	~	03/02/2019	20:56	13	2516.3	13	112.6	13	2.651	13	8.801	13	0.15	0.04
START_UP	03/03/2019	17:38	~	03/03/2019	18:02	25	8224.1	25	627.2	25	32.695	24	290.509	25	4.84	0.54
SHUT_DOWN	03/03/2019	19:15	~	03/03/2019	19:27	13	2053.9	13	51.9	13	1.721	13	10.939	13	0.18	0.03
START_UP	03/04/2019	05:54	~	03/04/2019	06:18	25	15916.3	25	1723	25	68.888	25	430.276	25	7.17	1.15
SHUT_DOWN	03/04/2019	07:13	~	03/04/2019	07:25	13	2250.7	13	76.5	13	2.075	13	11.591	13	0.19	0.03
START_UP	03/04/2019	10:08	~	03/04/2019	10:32	25	16660.7	25	1860.7	25	73.268	24	272.599	25	4.54	1.22
SHUT_DOWN	03/04/2019	11:13	~	03/04/2019	11:25	13	2049.6	13	53.3	13	1.219	13	12.006	13	0.20	0.02
START_UP	03/04/2019	16:22	~	03/04/2019	16:46	25	9522.601	25	813.1	25	197.975	25	337.059	25	5.62	3.30
SHUT_DOWN	03/04/2019	22:28	~	03/04/2019	22:40	13	2074.4	13	56.5	13	1.732	13	11.334	13	0.19	0.03
START_UP	03/05/2019	06:23	~	03/05/2019	06:47	25	8934	25	726.4	25	174.077	25	317.604	25	5.29	2.90
SHUT_DOWN	03/05/2019	07:28	~	03/05/2019	07:40	13	2071.2	13	55.8	13	1.972	13	13.531	13	0.23	0.03
START_UP	03/05/2019	08:53	~	03/05/2019	09:17	25	18335.7	25	2087.2	25	66.562	24	177.839	25	2.96	1.11
SHUT_DOWN	03/05/2019	15:14	~	03/05/2019	15:26	13	2895.6	13	165	13	5.067	13	12.276	13	0.20	0.08
START_UP	03/05/2019	17:38	~	03/05/2019	18:02	25	16774.5	25	1862	25	67.501	24	153.456	25	2.56	1.13
SHUT_DOWN	03/05/2019	19:28	~	03/05/2019	19:40	13	2079.7	13	56.2	13	1.98	13	10.936	13	0.18	0.03
START_UP	03/05/2019	20:52	~	03/05/2019	21:16	25	8708.601	25	686.1	25	134.904	25	97.629	25	1.63	2.25
SHUT_DOWN	03/05/2019	23:57	~	03/06/2019	00:09	13	2210.8	13	73.7	13	1.829	13	12.566	13	0.21	0.03
START_UP	03/06/2019	07:38	~	03/06/2019	08:02	25	8497.101	25	656.1	25	192.555	25	259.962	25	4.33	3.21
SHUT_DOWN	03/06/2019	08:43	~	03/06/2019	08:55	13	2275.7	13	81.2	13	2.241	13	9.889	13	0.16	0.04
START_UP	03/06/2019	10:23	~	03/06/2019	10:47	25	8733.5	25	676.1	25	207.664	25	100.257	25	1.67	3.46
SHUT_DOWN	03/06/2019	13:58	~	03/06/2019	14:10	13	2043.8	13	52	13	1.761	13	9.608	13	0.16	0.03
START_UP	03/06/2019	17:37	~	03/06/2019	18:01	25	10732.2	25	983.3	25	170.552	25	252.149	25	4.20	2.84
SHUT_DOWN	03/06/2019	18:57	~	03/06/2019	19:09	13	2269	13	77	13	2.094	13	12.031	13	0.20	0.03
START_UP	03/07/2019	12:53	~	03/07/2019	13:17	25	8361.201	25	636.4	25	169.674	25	287.433	25	4.79	2.83
SHUT_DOWN	03/07/2019	14:58	~	03/07/2019	15:10	13	2003.1	13	45.7	13	1.75	13	11.059	13	0.18	0.03
START_UP	03/07/2019	17:37	~	03/07/2019	18:01	25	17128.7	25	1926.5	25	160.022	25	184.868	25	3.08	2.67

SHUT_DOWN	03/07/2019	20:12	~	03/07/2019	20:24	13	2297.9	13	80.2	13	0	13	12.366	13	0.21	0.00
START_UP	03/08/2019	12:38	~	03/08/2019	13:02	25	15239.5	25	1596.3	25	96.204	16	342.35	16	5.71	1.60
SHUT_DOWN	03/08/2019	14:57	~	03/08/2019	15:09	13	2193	13	65.3	13	0	13	13.352	13	0.22	0.00
START_UP	03/09/2019	11:08	~	03/09/2019	11:32	25	11853	25	1113.4	25	0	16	0	1	0.00	0.00
SHUT_DOWN	03/09/2019	16:58	~	03/09/2019	17:10	13	2011	13	46.3	13	0	13	NA	0	0.00	0.00
START_UP	03/09/2019	17:53	~	03/09/2019	18:17	25	18933.6	25	2179.9	25	0	6	0	1	0.00	0.00
SHUT_DOWN	03/09/2019	19:28	~	03/09/2019	19:40	13	2018.4	13	49.8	13	0	13	NA	0	0.00	0.00
START_UP	03/10/2019	09:38	~	03/10/2019	10:02	25	10093.9	25	867.3	25	65.221	25	342.749	25	5.71	1.09
SHUT_DOWN	03/10/2019	11:57	~	03/10/2019	12:09	13	2174.8	13	64.8	13	0	13	11.649	13	0.19	0.00
START_UP	03/10/2019	12:52	~	03/10/2019	13:16	25	8566.7	25	643.9	25	1.644	25	98.35	25	1.64	0.03
SHUT_DOWN	03/10/2019	14:58	~	03/10/2019	15:10	13	2017.5	13	45.1	13	0	13	13.46	13	0.22	0.00
START_UP	03/10/2019	16:22	~	03/10/2019	16:46	25	8223.6	25	599.6	25	64.747	25	95.904	25	1.60	1.08
SHUT_DOWN	03/10/2019	20:27	~	03/10/2019	20:39	13	2126.2	13	59.7	13	0	13	12.479	13	0.21	0.00
START_UP	03/11/2019	05:08	~	03/11/2019	05:32	25	9093.3	25	719.3	25	61.86	25	285.95	25	4.77	1.03
SHUT_DOWN	03/11/2019	07:27	~	03/11/2019	07:39	13	2194.6	13	72.8	13	0	13	14.223	13	0.24	0.00
START_UP	03/11/2019	09:52	~	03/11/2019	10:16	25	8700.4	25	685.4	25	76.614	25	84.576	25	1.41	1.28
SHUT_DOWN	03/11/2019	21:28	~	03/11/2019	21:40	13	2580.4	13	125.4	13	0	13	10.835	13	0.18	0.00
START_UP	03/12/2019	05:23	~	03/12/2019	05:47	25	8933.5	25	713.1	25	53.455	19	262.092	19	4.37	0.89
SHUT_DOWN	03/12/2019	07:43	~	03/12/2019	07:55	13	2377.5	13	94.3	13	0.113	13	10.142	13	0.17	0.00
START_UP	03/12/2019	11:52	~	03/12/2019	12:16	25	9091.8	25	728.3	25	87.516	25	230.089	25	3.83	1.46
SHUT_DOWN	03/12/2019	12:57	~	03/12/2019	13:09	13	2251.4	13	75.8	13	0	13	7.866	13	0.13	0.00
START_UP	03/12/2019	17:52	~	03/12/2019	18:16	25	9232	25	758.6	25	165.229	25	245.718	25	4.10	2.75
SHUT_DOWN	03/12/2019	21:00	~	03/12/2019	21:12	13	2116.2	13	62	13	0	13	9.921	13	0.17	0.00
START_UP	03/13/2019	05:53	~	03/13/2019	06:17	25	9977.2	25	852.4	25	58.249	25	294.446	25	4.91	0.97
SHUT_DOWN	03/13/2019	08:58	~	03/13/2019	09:10	13	1961.5	13	43.5	13	0	13	11.333	13	0.19	0.00
START_UP	03/13/2019	09:52	~	03/13/2019	10:16	25	14227.7	25	1520.5	25	3.254	25	122.175	25	2.04	0.05
SHUT_DOWN	03/13/2019	13:58	~	03/13/2019	14:10	13	2055.2	13	51.9	13	0	13	10.939	13	0.18	0.00
START_UP	03/13/2019	14:52	~	03/13/2019	15:16	25	8577.2	25	658.7	25	3.307	16	72.573	16	1.21	0.06
SHUT_DOWN	03/13/2019	15:57	~	03/13/2019	16:09	13	2229.2	13	73.4	13	0	13	11.986	13	0.20	0.00
START_UP	03/13/2019	18:52	~	03/13/2019	19:16	25	15612.8	25	1691.9	25	89.168	25	142.858	25	2.38	1.49
SHUT_DOWN	03/13/2019	21:13	~	03/13/2019	21:25	13	2514.9	13	111	13	0	13	14.568	13	0.24	0.00
START_UP	03/14/2019	04:53	~	03/14/2019	05:17	25	10317.6	25	884.5	25	69.112	25	317.857	25	5.30	1.15
SHUT_DOWN	03/14/2019	08:28	~	03/14/2019	08:40	13	2388.3	13	95.3	13	0	13	15.226	13	0.25	0.00
START_UP	03/14/2019	18:23	~	03/14/2019	18:47	25	9652.899	25	805	25	61.842	25	289.493	25	4.82	1.03
SHUT_DOWN	03/14/2019	20:13	~	03/14/2019	20:25	13	2065.2	13	53.1	13	0	13	14.661	13	0.24	0.00
START_UP	03/15/2019	05:23	~	03/15/2019	05:47	25	9398.7	25	768.6	25	64.39	25	302.703	25	5.05	1.07
SHUT_DOWN	03/15/2019	06:27	~	03/15/2019	06:39	13	2165.3	13	64.2	13	0	13	16.24	13	0.27	0.00
START_UP	03/15/2019	09:22	~	03/15/2019	09:46	25	8936.501	25	701.7	25	68.745	25	188.143	25	3.14	1.15
SHUT_DOWN	03/15/2019	11:27	~	03/15/2019	11:39	13	2502.3	13	108.4	13	2.563	13	13.489	13	0.22	0.04
START_UP	03/15/2019	17:54	~	03/15/2019	18:18	25	8584.599	25	655.5	25	43.858	25	257.371	25	4.29	0.73
SHUT_DOWN	03/15/2019	18:57	~	03/15/2019	19:09	13	2202	13	69.2	13	0	13	12.231	13	0.20	0.00
START_UP	03/16/2019	10:53	~	03/16/2019	11:17	25	13919.4	25	1425.6	25	83.072	19	393.371	19	6.56	1.38
SHUT_DOWN	03/16/2019	12:58	~	03/16/2019	13:10	13	2062	13	52.6	13	0	13	11.331	13	0.19	0.00
START_UP	03/16/2019	14:52	~	03/16/2019	15:16	25	8444.301	25	642.7	25	111.388	25	95.787	25	1.60	1.86
SHUT_DOWN	03/16/2019	15:58	~	03/16/2019	16:10	13	2294.6	13	82.3	13	0	13	17.934	13	0.30	0.00
START_UP	03/16/2019	17:52	~	03/16/2019	18:16	25	8815.5	25	686.5	25	81.778	25	97.262	25	1.62	1.36
SHUT_DOWN	03/16/2019	18:57	~	03/16/2019	19:09	13	2224.6	13	70.8	13	0	13	11.584	13	0.19	0.00
START_UP	03/17/2019	10:53	~	03/17/2019	11:17	25	8516.899	25	635.5	25	59.11	25	280.649	25	4.68	0.99
SHUT_DOWN	03/17/2019	14:57	~	03/17/2019	15:09	13	2101	13	60	13	0	13	10.817	13	0.18	0.00
START_UP	03/17/2019	18:07	~	03/17/2019	18:31	25	8293.5	25	646.2	25	133.529	25	178.31	25	2.97	2.23
SHUT_DOWN	03/17/2019	19:27	~	03/17/2019	19:39	13	2239.3	13	77.1	13	0	13	10.921	13	0.18	0.00
START_UP	03/18/2019	05:23	~	03/18/2019	05:47	25	8462.7	25	652.4	25	67.469	25	295.73	25	4.93	1.12
SHUT_DOWN	03/18/2019	06:27	~	03/18/2019	06:39	13	2172.4	13	69.4	13	0	13	12.192	13	0.20	0.00
START_UP	03/18/2019	11:52	~	03/18/2019	12:16	25	8302.199	25	638.9	25	86.862	20	238.706	20	3.98	1.45
SHUT_DOWN	03/18/2019	12:57	~	03/18/2019	13:09	13	2092.5	13	60.3	13	0	13	10.376	13	0.17	0.00
START_UP	03/18/2019	17:22	~	03/18/2019	17:46	25	8675.5	25	671.7	25	92.147	25	240.138	25	4.00	1.54

SHUT_DOWN	03/18/2019	19:14	~	03/18/2019	19:26	13	2001	13	44.5	13	0	13	10.449	13	0.17	0.00
START_UP	03/19/2019	07:53	~	03/19/2019	08:17	25	16761.8	25	1856	25	157.575	25	391.418	25	6.52	2.63
SHUT_DOWN	03/19/2019	09:14	~	03/19/2019	09:26	13	2759.4	13	145.3	13	2.832	13	14.096	13	0.23	0.05
START_UP	03/19/2019	10:07	~	03/19/2019	10:31	25	17594.8	25	1979	25	53.816	25	189.936	25	3.17	0.90
SHUT_DOWN	03/19/2019	13:58	~	03/19/2019	14:10	13	2708.9	13	137	13	1.89	13	8.069	13	0.13	0.03
START_UP	03/19/2019	14:53	~	03/19/2019	15:17	25	16100.2	25	1748.4	25	46.113	25	134.36	25	2.24	0.77
SHUT_DOWN	03/19/2019	15:58	~	03/19/2019	16:10	13	2130.6	13	60.5	13	0	13	10.328	13	0.17	0.00
START_UP	03/19/2019	17:52	~	03/19/2019	18:16	25	8682	25	677.8	25	120.928	25	93.873	25	1.56	2.02
SHUT_DOWN	03/19/2019	18:57	~	03/19/2019	19:09	13	2243.2	13	72.9	13	0	13	11.819	13	0.20	0.00
START_UP	03/20/2019	05:24	~	03/20/2019	05:48	25	9096.901	25	710.5	25	32.701	24	291.48	25	4.86	0.55
SHUT_DOWN	03/20/2019	07:14	~	03/20/2019	07:26	13	2178.3	13	64.4	13	0.164	13	10.37	13	0.17	0.00
START_UP	03/20/2019	08:52	~	03/20/2019	09:16	25	18833.3	25	2130.2	25	135.058	14	113.727	14	1.90	2.25
SHUT_DOWN	03/20/2019	10:58	~	03/20/2019	11:10	13	2622.5	13	122	13	0.229	13	8.567	13	0.14	0.00
START_UP	03/20/2019	16:53	~	03/20/2019	17:17	25	8671.099	25	648.1	25	33.452	25	241.453	25	4.02	0.56
SHUT_DOWN	03/20/2019	18:42	~	03/20/2019	18:54	13	2304.4	13	77.9	13	0	13	11.609	13	0.19	0.00
START_UP	03/20/2019	19:53	~	03/20/2019	20:17	25	8911.8	25	686.2	25	14.965	25	82.692	25	1.38	0.25
SHUT_DOWN	03/20/2019	21:01	~	03/20/2019	21:13	13	2235.5	13	72.1	13	0	13	11.046	13	0.18	0.00
START_UP	03/21/2019	05:08	~	03/21/2019	05:32	25	8816.199	25	667.1	25	46.003	25	277.736	25	4.63	0.77
SHUT_DOWN	03/21/2019	06:29	~	03/21/2019	06:41	13	2299	13	81.6	13	0.186	13	10.654	13	0.18	0.00
START_UP	03/21/2019	10:52	~	03/21/2019	11:16	25	12665	25	1227.2	25	134.195	25	269.56	25	4.49	2.24
SHUT_DOWN	03/21/2019	11:57	~	03/21/2019	12:09	13	2352.5	13	84.6	13	0	13	9.686	13	0.16	0.00
START_UP	03/22/2019	05:23	~	03/22/2019	05:47	25	8922.9	25	709.3	25	23.818	24	355.343	25	5.92	0.40
SHUT_DOWN	03/22/2019	06:27	~	03/22/2019	06:39	13	2129.1	13	62.6	13	0	13	13.627	13	0.23	0.00
START_UP	03/22/2019	18:08	~	03/22/2019	18:32	25	8188.099	25	609	25	60.111	25	272.63	25	4.54	1.00
SHUT_DOWN	03/22/2019	19:12	~	03/22/2019	19:24	13	2212.4	13	71.5	13	0	13	11.773	13	0.20	0.00
START_UP	03/23/2019	09:08	~	03/23/2019	09:32	25	8549.101	25	657.3	25	70.749	25	310.207	25	5.17	1.18
SHUT_DOWN	03/23/2019	16:57	~	03/23/2019	17:09	13	2108.7	13	59.3	13	0	13	13.049	13	0.22	0.00
START_UP	03/24/2019	06:53	~	03/24/2019	07:17	25	9076	25	721	25	72.064	25	310.994	25	5.18	1.20
SHUT_DOWN	03/24/2019	07:57	~	03/24/2019	08:09	13	2271.2	13	78.4	13	0	13	10.028	13	0.17	0.00
START_UP	03/24/2019	10:52	~	03/24/2019	11:16	25	7986.9	25	583.1	25	121.535	25	182.253	25	3.04	2.03
SHUT_DOWN	03/24/2019	14:57	~	03/24/2019	15:09	13	2062.9	13	54.5	13	0	13	10.641	13	0.18	0.00
START_UP	03/24/2019	17:37	~	03/24/2019	18:01	25	16539.7	25	1846.3	25	67.058	25	156.427	25	2.61	1.12
SHUT_DOWN	03/24/2019	20:27	~	03/24/2019	20:39	13	2313	13	84.1	13	0	13	12.374	13	0.21	0.00
START_UP	03/25/2019	05:23	~	03/25/2019	05:47	25	8662.9	25	671.3	25	58.334	25	291.041	25	4.85	0.97
SHUT_DOWN	03/25/2019	06:28	~	03/25/2019	06:40	13	2532.1	13	114	13	0	13	12.499	13	0.21	0.00
START_UP	03/25/2019	09:22	~	03/25/2019	09:46	25	10381.6	25	912.7	25	93.992	25	182.047	25	3.03	1.57
SHUT_DOWN	03/25/2019	10:27	~	03/25/2019	10:39	13	2108.6	13	59.3	13	0	13	11.485	13	0.19	0.00
START_UP	03/25/2019	17:08	~	03/25/2019	17:32	25	8192.5	25	605.6	25	43.208	25	239.487	25	3.99	0.72
SHUT_DOWN	03/25/2019	19:57	~	03/25/2019	20:09	13	2235.5	13	74.1	13	0	13	12.434	13	0.21	0.00
START_UP	03/26/2019	04:53	~	03/26/2019	05:17	25	8717.4	25	677	25	84.815	25	282.003	25	4.70	1.41
SHUT_DOWN	03/26/2019	06:57	~	03/26/2019	07:09	13	2185.8	13	68.1	13	0	13	13.629	13	0.23	0.00
START_UP	03/26/2019	17:53	~	03/26/2019	18:17	25	10128.3	25	870.3	25	66.118	25	333.011	25	5.55	1.10
SHUT_DOWN	03/26/2019	21:27	~	03/26/2019	21:39	13	2175.8	13	66.5	13	0	13	11.839	13	0.20	0.00
START_UP	03/27/2019	04:53	~	03/27/2019	05:17	25	8726.6	25	674.6	25	61.409	25	258.169	25	4.30	1.02
SHUT_DOWN	03/27/2019	06:58	~	03/27/2019	07:10	13	2204.2	13	70.1	13	0	13	11.321	13	0.19	0.00
START_UP	03/28/2019	07:53	~	03/28/2019	08:17	25	8720.399	25	664.6	25	30.346	17	273.275	18	4.55	0.51
SHUT_DOWN	03/28/2019	08:57	~	03/28/2019	09:09	13	2225.1	13	70.3	13	0	13	13.124	13	0.22	0.00
START_UP	03/28/2019	09:53	~	03/28/2019	10:17	25	8210.999	25	593.6	25	11.591	25	78.962	25	1.32	0.19
SHUT_DOWN	03/28/2019	13:57	~	03/28/2019	14:09	13	2155.2	13	63.1	13	0	13	12.08	13	0.20	0.00
START_UP	03/28/2019	18:22	~	03/28/2019	18:46	25	11115.1	25	1026	25	74.205	25	339.875	25	5.66	1.24
SHUT_DOWN	03/28/2019	19:27	~	03/28/2019	19:39	13	2128.6	13	61	13	0	13	10.952	13	0.18	0.00
START_UP	03/29/2019	05:38	~	03/29/2019	06:02	25	8888.2	25	695.4	25	40.688	25	282.788	25	4.71	0.68
SHUT_DOWN	03/29/2019	06:42	~	03/29/2019	06:54	13	2196.8	13	70.8	13	0	13	12.955	13	0.22	0.00
START_UP	03/29/2019	11:52	~	03/29/2019	12:16	25	8140.6	25	607.9	25	88.699	25	227.249	25	3.79	1.48
SHUT_DOWN	03/29/2019	12:57	~	03/29/2019	13:09	13	2126.1	13	60	13	0	13	11.195	13	0.19	0.00
START_UP	03/30/2019	04:53	~	03/30/2019	05:17	25	8563.102	25	646.5	25	60.248	25	301.385	25	5.02	1.00

SHUT_DOWN	03/30/2019	07:57	~	03/30/2019	08:09	13	2212.7	13	70.5	13	0.044	13	13.824	13	0.23	0.00
START_UP	03/30/2019	09:07	~	03/30/2019	09:31	25	8763.9	25	682	25	12.132	16	69.06	16	1.15	0.20
SHUT_DOWN	03/30/2019	10:12	~	03/30/2019	10:24	13	2140.1	13	63.2	13	0	13	12.41	13	0.21	0.00
START_UP	03/30/2019	11:07	~	03/30/2019	11:31	25	8114.799	25	600.1	25	4.432	25	95.607	25	1.59	0.07
SHUT_DOWN	03/30/2019	12:58	~	03/30/2019	13:10	13	2309.1	13	85	13	0.235	13	8.669	13	0.14	0.00
START_UP	03/30/2019	17:22	~	03/30/2019	17:46	25	9336.6	25	781.9	25	137.501	25	291.144	25	4.85	2.29
SHUT_DOWN	03/30/2019	18:57	~	03/30/2019	19:09	13	2201	13	70.2	13	0	13	10.313	13	0.17	0.00
START_UP	03/31/2019	06:53	~	03/31/2019	07:17	25	8658.399	25	667.6	25	39.381	25	281.295	25	4.69	0.66
SHUT_DOWN	03/31/2019	09:57	~	03/31/2019	10:09	13	2149.5	13	65.5	13	0.044	13	13.375	13	0.22	0.00
START_UP	03/31/2019	10:52	~	03/31/2019	11:16	25	8975.501	25	723.9	25	6.28	25	96.368	25	1.61	0.10
SHUT_DOWN	03/31/2019	12:58	~	03/31/2019	13:10	13	2141	13	65.6	13	0.844	13	9.347	13	0.16	0.01
START_UP	03/31/2019	17:07	~	03/31/2019	17:31	25	11743.2	25	1124.6	25	71.637	25	246.088	25	4.10	1.19
SHUT_DOWN	03/31/2019	20:27	~	03/31/2019	20:39	13	2174.9	13	69.2	13	0	13	11.58	13	0.19	0.00

Attachment F 40 CFR Part 60, Subpart KKKK Report:

AQ-34: Rolling Four-Unit Operating Pound Per Mega Watt
Hour Summary

AQ-88: Part 60, KKKK Semiannual Report Summary

**Summary Report
Gaseous Excess Emission and Monitoring System Performance
Version 43.0**

Reporting dates 1/1/2019 00:00 through 3/31/2019 23:59
Generated: 4/24/2019 10:47

Pollutant: NOx
Emission Limit: SubPart KKKK, 15 ppmc @ 15% O2 4 Hour Rolling

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA
Model: Teledyne T200

Description: Unit 6

Date of Latest CEMS Certification or Audit: 03/04/2019

Total source operating time in reporting period: **914.0 hours**

Emission Data Summary(note 1)	CEMS Downtime Summary(note 1)
1. Duration of excess emissions in period due to:	1. Duration of CEMS downtime in period due to:
a. Start Up/Shut Down..... 0.0	a. Monitoring Equipment Malfunction..... 1.0
b. Control Equipment Failure..... 0.0	b. Non-Monitoring Equipment Malfunction... 0.0
c. Process Problems..... 0.0	c. Quality Assurance..... 0.0
d. Other Known Excess Emissions Cause..... 0.0	d. Other Known Monitor Downtime Cause..... 0.0
e. Unknown Excess Emissions Cause..... 0.0	e. UnKnown Monitor Downtime Cause..... 0.0
2. Total duration of excess emission..... 0.0	2. Total duration of CEMS downtime..... 1.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.11%

Total source operating time in reporting period: = Time in the Report Period minus the Process Down Episode Time.

Note(s):

- ¹ For opacity, record all times in minutes. For gases, record all times in hours.
- ² For the reporting period: If the total duration of excess emissions is 1% or greater of the total operating time or the total CEMS downtime is 5% or greater of the total operating time, both this summary report and the excess emissions report described in 40CFR60.7(c) shall be submitted.

I have personally examined and am familiar with the information submitted in this document and all attachments and certify (based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information) that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement(s) made in this document or its attachments may be punishable as a criminal offense."

On a separate page, describe any changes since last quarter in CEMS, process or controls.

Name:

Signature: _____

Title: General Manager

Date: _____

**Summary Report
Gaseous Excess Emission and Monitoring System Performance
Version 43.0**

Reporting dates 1/1/2019 00:00 through 3/31/2019 23:59
Generated: 4/24/2019 10:47

Pollutant: NOx
Emission Limit: SubPart KKKK, 15 ppmc @ 15% O2 4 Hour Rolling

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA
Model: Teledyne T200

Description: Unit 7

Date of Latest CEMS Certification or Audit: 03/08/2019

Total source operating time in reporting period: **936.0 hours**

Emission Data Summary(note 1)	CEMS Downtime Summary(note 1)
1. Duration of excess emissions in period due to:	1. Duration of CEMS downtime in period due to:
a. Start Up/Shut Down..... 0.0	a. Monitoring Equipment Malfunction..... 1.0
b. Control Equipment Failure..... 0.0	b. Non-Monitoring Equipment Malfunction... 0.0
c. Process Problems..... 0.0	c. Quality Assurance..... 1.0
d. Other Known Excess Emissions Cause..... 0.0	d. Other Known Monitor Downtime Cause..... 0.0
e. Unknown Excess Emissions Cause..... 0.0	e. UnKnown Monitor Downtime Cause..... 0.0
2. Total duration of excess emission..... 0.0	2. Total duration of CEMS downtime..... 2.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.21%

Total source operating time in reporting period: = Time in the Report Period minus the Process Down Episode Time.

Note(s):

- ¹ For opacity, record all times in minutes. For gases, record all times in hours.
- ² For the reporting period: If the total duration of excess emissions is 1% or greater of the total operating time or the total CEMS downtime is 5% or greater of the total operating time, both this summary report and the excess emissions report described in 40CFR60.7(c) shall be submitted.

I have personally examined and am familiar with the information submitted in this document and all attachments and certify (based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information) that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement(s) made in this document or its attachments may be punishable as a criminal offense."

On a separate page, describe any changes since last quarter in CEMS, process or controls.

Name:

Signature: _____

Title: General Manager

Date: _____

**Summary Report
Gaseous Excess Emission and Monitoring System Performance
Version 43.0**

Reporting dates 1/1/2019 00:00 through 3/31/2019 23:59
Generated: 4/24/2019 10:47

Pollutant: NOx
Emission Limit: SubPart KKKK, 15 ppmc @ 15% O2 4 Hour Rolling

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA
Model: Teledyne T200

Description: Unit 8

Date of Latest CEMS Certification or Audit: 03/06/2018

Total source operating time in reporting period: **704.0 hours**

Emission Data Summary(note 1)	CEMS Downtime Summary(note 1)
1. Duration of excess emissions in period due to:	1. Duration of CEMS downtime in period due to:
a. Start Up/Shut Down..... 0.0	a. Monitoring Equipment Malfunction..... 1.0
b. Control Equipment Failure..... 0.0	b. Non-Monitoring Equipment Malfunction... 0.0
c. Process Problems..... 0.0	c. Quality Assurance..... 0.0
d. Other Known Excess Emissions Cause..... 0.0	d. Other Known Monitor Downtime Cause..... 0.0
e. Unknown Excess Emissions Cause..... 0.0	e. UnKnown Monitor Downtime Cause..... 0.0
2. Total duration of excess emission..... 0.0	2. Total duration of CEMS downtime..... 1.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.14%

Total source operating time in reporting period: = Time in the Report Period minus the Process Down Episode Time.

Note(s):

- ¹ For opacity, record all times in minutes. For gases, record all times in hours.
- ² For the reporting period: If the total duration of excess emissions is 1% or greater of the total operating time or the total CEMS downtime is 5% or greater of the total operating time, both this summary report and the excess emissions report described in 40CFR60.7(c) shall be submitted.

I have personally examined and am familiar with the information submitted in this document and all attachments and certify (based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information) that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement(s) made in this document or its attachments may be punishable as a criminal offense."

On a separate page, describe any changes since last quarter in CEMS, process or controls.

Name:

Signature: _____

Title: General Manager

Date: _____

**Summary Report
Gaseous Excess Emission and Monitoring System Performance
Version 43.0**

Reporting dates 1/1/2019 00:00 through 3/31/2019 23:59
Generated: 4/24/2019 10:47

Pollutant: NOx
Emission Limit: SubPart KKKK, 15 ppmc @ 15% O2 4 Hour Rolling

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA
Model: Teledyne T200

Description: Unit 9

Date of Latest CEMS Certification or Audit: 03/06/2019

Total source operating time in reporting period: **820.0 hours**

Emission Data Summary(note 1)	CEMS Downtime Summary(note 1)
1. Duration of excess emissions in period due to:	1. Duration of CEMS downtime in period due to:
a. Start Up/Shut Down..... 0.0	a. Monitoring Equipment Malfunction..... 1.0
b. Control Equipment Failure..... 0.0	b. Non-Monitoring Equipment Malfunction... 0.0
c. Process Problems..... 0.0	c. Quality Assurance..... 0.0
d. Other Known Excess Emissions Cause..... 0.0	d. Other Known Monitor Downtime Cause..... 0.0
e. Unknown Excess Emissions Cause..... 0.0	e. UnKnown Monitor Downtime Cause..... 0.0
2. Total duration of excess emission..... 0.0	2. Total duration of CEMS downtime..... 1.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.12%

Total source operating time in reporting period: = Time in the Report Period minus the Process Down Episode Time.

Note(s):

- ¹ For opacity, record all times in minutes. For gases, record all times in hours.
- ² For the reporting period: If the total duration of excess emissions is 1% or greater of the total operating time or the total CEMS downtime is 5% or greater of the total operating time, both this summary report and the excess emissions report described in 40CFR60.7(c) shall be submitted.

I have personally examined and am familiar with the information submitted in this document and all attachments and certify (based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information) that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement(s) made in this document or its attachments may be punishable as a criminal offense."

On a separate page, describe any changes since last quarter in CEMS, process or controls.

Name:

Signature: _____

Title: General Manager

Date: _____

**Summary Report
Gaseous Excess Emission and Monitoring System Performance
Version 43.0**

Reporting dates 1/1/2019 00:00 through 3/31/2019 23:59
Generated: 4/24/2019 10:47

Pollutant: NOx
Emission Limit: SubPart KKKK, 15 ppmc @ 15% O2 4 Hour Rolling

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA
Model: Teledyne T200

Description: Unit 10

Date of Latest CEMS Certification or Audit: 03/04/2019

Total source operating time in reporting period: **772.0 hours**

Emission Data Summary(note 1)	CEMS Downtime Summary(note 1)
1. Duration of excess emissions in period due to:	1. Duration of CEMS downtime in period due to:
a. Start Up/Shut Down..... 0.0	a. Monitoring Equipment Malfunction..... 1.0
b. Control Equipment Failure..... 0.0	b. Non-Monitoring Equipment Malfunction... 0.0
c. Process Problems..... 0.0	c. Quality Assurance..... 2.0
d. Other Known Excess Emissions Cause..... 0.0	d. Other Known Monitor Downtime Cause..... 0.0
e. Unknown Excess Emissions Cause..... 0.0	e. UnKnown Monitor Downtime Cause..... 0.0
2. Total duration of excess emission..... 0.0	2. Total duration of CEMS downtime..... 3.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.39%

Total source operating time in reporting period: = Time in the Report Period minus the Process Down Episode Time.

Note(s):

- ¹ For opacity, record all times in minutes. For gases, record all times in hours.
- ² For the reporting period: If the total duration of excess emissions is 1% or greater of the total operating time or the total CEMS downtime is 5% or greater of the total operating time, both this summary report and the excess emissions report described in 40CFR60.7(c) shall be submitted.

I have personally examined and am familiar with the information submitted in this document and all attachments and certify (based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information) that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement(s) made in this document or its attachments may be punishable as a criminal offense."

On a separate page, describe any changes since last quarter in CEMS, process or controls.

Name:

Signature: _____

Title: General Manager

Date: _____

Attachment G Air Pollution Control District Monthly Report:

AQ-46: NO_x and PM₁₀ Annual Emissions Summary

AQ-48: Monthly and Rolling 12-Month Calculated NO_x, CO, VOCs, PM₁₀, and SO_x Emissions Summary

2019

All Emission Values are Totals In Lbs

Unit 6	Monthly					12 Mo Rolling				
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2
Jul-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep-18	52121.69	422.60	71.86	109.46	31.27	52121.69	422.60	71.86	109.46	31.27
Oct-18	8960.90	87.79	20.99	18.82	5.38	61082.59	510.39	92.85	128.27	36.65
Nov-18	79227.68	652.62	93.31	166.38	47.54	140310.27	1163.00	186.16	294.65	84.19
Dec-18	67593.31	521.34	96.28	141.95	40.56	207903.57	1684.34	282.44	436.60	124.74
Jan-19	114540.68	782.82	165.33	240.54	68.72	322444.25	2467.17	447.77	677.13	193.47
Feb-19	117263.11	758.54	91.31	246.25	70.36	439707.36	3225.71	539.08	923.39	263.82
Mar-19	110328.82	744.29	184.96	231.69	66.20	550036.18	3969.99	724.04	1155.08	330.02

Unit 7	Monthly					12 Mo Rolling				
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2
Jul-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	776.63	0.00	0.00
Sep-18	23144.88	174.63	35.23	43.98	13.89	23144.88	174.63	91.31	43.98	13.89
Oct-18	4485.50	41.20	13.17	8.52	2.69	27630.38	215.82	184.96	52.50	16.58
Nov-18	83831.16	678.36	78.18	159.28	50.30	111461.54	894.19	263.14	211.78	66.88
Dec-18	66338.08	534.01	65.15	126.04	39.80	177799.62	1428.19	328.30	337.82	106.68
Jan-19	106864.79	787.11	105.44	203.04	64.12	284664.41	2215.31	433.74	540.86	170.80
Feb-19	108414.84	807.74	97.66	205.99	65.05	393079.25	3023.05	531.39	746.85	235.85
Mar-19	137989.29	941.19	125.58	262.18	82.79	531068.54	3964.23	656.97	1009.03	318.64

Unit 8	Monthly					12 Mo Rolling				
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2
Jul-18	27397.50	205.35	20.89	54.79	16.44	27397.50	205.35	20.89	54.79	16.44
Aug-18	51389.95	444.57	58.62	102.78	30.83	78787.45	649.93	79.50	157.57	47.27
Sep-18	244.12	5.78	4.54	0.49	0.15	79031.56	655.70	84.04	158.06	47.42
Oct-18	4752.15	50.29	11.40	9.50	2.85	83783.72	705.99	95.44	167.57	50.27
Nov-18	79309.83	687.65	146.43	158.62	47.59	163093.54	1393.64	241.87	326.19	97.86
Dec-18	53981.76	434.91	146.29	107.96	32.39	217075.31	1828.55	388.16	434.15	130.25
Jan-19	86598.79	644.99	153.72	173.20	51.96	303674.09	2473.54	541.89	607.35	182.20
Feb-19	101888.84	727.26	232.62	203.78	61.13	405562.93	3200.80	774.51	811.13	243.34
Mar-19	61724.97	490.60	191.31	123.45	37.03	467287.90	3691.39	965.82	934.58	280.37

Unit 9	Monthly					12 Mo Rolling				
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2
Jul-18	25178.91	210.60	37.15	50.36	15.11	25178.91	210.60	37.15	50.36	15.11
Aug-18	31445.38	301.60	40.10	62.89	18.87	56624.29	512.20	77.24	113.25	33.97
Sep-18	10411.96	94.17	12.03	20.82	6.25	67036.25	606.37	89.27	134.07	40.22
Oct-18	1185.24	12.89	3.50	2.37	0.71	68221.49	619.26	92.77	136.44	40.93
Nov-18	86816.92	722.05	79.03	173.63	52.09	155038.41	1341.31	171.80	310.08	93.02
Dec-18	57843.81	477.46	70.48	115.69	34.71	212882.22	1818.77	242.28	425.76	127.73
Jan-19	90025.91	667.25	122.63	180.05	54.02	302908.13	2486.02	364.91	605.82	181.74
Feb-19	105237.67	738.73	112.73	210.48	63.14	408145.80	3224.75	477.65	816.29	244.89
Mar-19	104623.74	747.40	133.62	209.25	62.77	512769.55	3972.15	611.27	1025.54	307.66

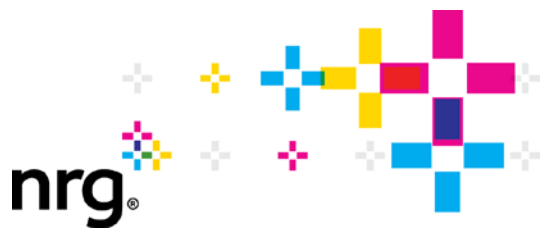
Unit 10	Monthly					12 Mo Rolling				
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2
Jul-18	36868.49	312.19	48.17	88.48	22.12	36868.49	312.19	48.17	88.48	22.12
Aug-18	29792.10	290.43	74.49	71.50	17.88	66660.59	602.62	122.66	159.99	40.00
Sep-18	494.44	6.54	3.48	1.19	0.30	67155.03	609.16	126.14	161.17	40.29
Oct-18	0.00	0.00	0.00	0.00	0.00	67155.03	609.16	126.14	161.17	40.29
Nov-18	64496.64	532.38	230.68	154.79	38.70	131651.67	1141.54	356.82	315.96	78.99
Dec-18	59455.10	478.70	212.40	142.69	35.67	191106.77	1620.24	569.22	458.66	114.66
Jan-19	86813.57	692.2805	159.2556	208.35	52.09	277920.33	2312.52	728.48	667.01	166.75
Feb-19	70807.68	566.154	142.5799	169.94	42.48	348728.01	2878.68	871.06	836.95	209.24
Mar-19	105238.5	812.785	187.9161	252.57	63.14	453966.56	3691.46	1058.97	1089.52	272.38

Attachment H VOC Statement:

AQ-29: Calculated VOC Corrected 2.0 PPM 1-Hour Average
Data

AQ-40: VOC Portion Only

AQ-41: VOC Portion Only



4950 Avenida Encinas
Carlsbad, CA 92008
Phone: 760-710-3970

April 30, 2019

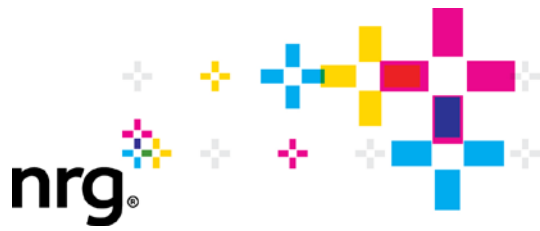
Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT – VOLATILE ORGANIC COMPOUNDS COMPLIANCE STATEMENT

The San Diego Air Pollution Control District has not established a surrogate calculation for volatile organic compounds. The following conditions cannot be fulfilled until such a surrogate is established:

- AQ-29
- AQ-40: Only VOC Element
- AQ-41: Only VOC Element

Attachment I Encina Power Station Operations Statement:

AQ-47: Encina Emissions Summary Following CECP
Startup



4950 Avenida Encinas
Carlsbad, CA 92008
Phone: 760-710-3970

April 30, 2019

Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT – ENCINA POWER STATION OPERATIONS COMPLIANCE STATEMENT

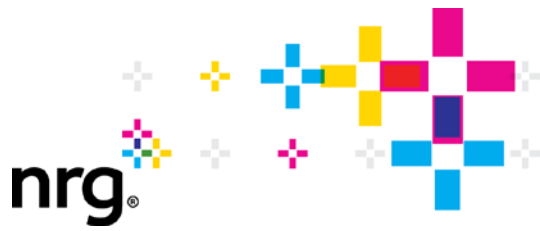
Encina Power Station ceased operations on December 11, 2018 and no longer operable. The following condition is fulfilled due to Encina no longer generating emissions:

- AQ-47

Attachment J Noncompliance Statement:

AQ-76: CEMS Emissions Exceedance Summary

AQ-78: DAHS Programming Compliance Summary



4950 Avenida Encinas
Carlsbad, CA 92008
Phone: 760-710-3970

April 30, 2019

Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT – NONCOMPLIANCE STATEMENT

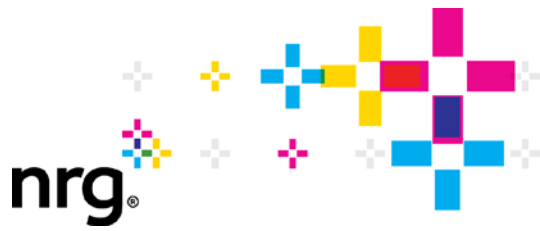
Carlsbad Energy Center had no permit exceedances in post-commercial operations in the first quarter of 2019 that did not qualify as breakdowns. In addition, no Data Acquisition Handling System (DAHS) programming changes were made in the first quarter of 2019. The following conditions are fulfilled:

- AQ-76
- AQ-78

Attachment K Diesel Fire Pump Operations Logs:

AQ-95: Fire Pump Hour Limit

AQ-105: Fire Pump Operating Log



4950 Avenida Encinas
Carlsbad, CA 92008
Phone: 760-710-3970

April 30, 2019

Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT – Diesel Statement

Attached are operator logs for the two diesel test runs in 1Q2019. The logs show that the diesel has run for a total of 2.35 hours so far this year.

All Entries

03/25/2019 16:30 PDT	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 3/25/2019 17:08 PDT</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 9.1; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: None; Start D. . .</p>	Complete
03/22/2019 14:01 PDT	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 3/22/2019 14:01 PDT</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 9.0; Diesel data before Start Diesel tank level (decimal entry): .875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: None; Start Di. . .</p>	Complete
03/15/2019 16:31 PDT	R Haman	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by r13ham on 3/16/2019 03:59 PDT</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Start Diesel Fire Pump Normal Startup? Comment: None; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A ; Ensure Diesel stops at 10 minutes Did Diesel run and stop OK? Comment: None</p>	Complete
03/11/2019 07:50 PDT	R MacNail	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by rmacnail on 3/11/2019 07:50 PDT</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.9; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: None; Start D. . .</p>	Complete
03/06/2019 09:33 PST	S Reilly	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by s13rei on 3/06/2019 11:50 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.8; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: None; Start D. . .</p>	Complete
02/27/2019 01:47 PST	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 2/27/2019 01:47 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.7; Diesel data before Start Diesel tank level (decimal entry): .875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: None; Start Di. . .</p>	Complete
02/18/2019 15:22 PST	K Campbell	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by kcampbell01 on 2/18/2019 15:22 PST</p> <p>Round: Weekly Diesel FP PM</p>	Complete

		<p>Details: Diesel data before Start Engine hours: 8.6; Diesel data before Start Diesel tank level (decimal entry): .85; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; Sta. . .</p>	
02/11/2019 17:00 PST	R MacNail	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by rmacnail on 2/11/2019 17:01 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.5; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; S. . .</p>	Complete
02/04/2019 12:33 PST	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 2/04/2019 12:32 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.4; Diesel data before Start Diesel tank level (decimal entry): .875; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; St. . .</p>	Complete
01/30/2019 01:30 PST	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 1/30/2019 01:30 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.3; Diesel data before Start Diesel tank level (decimal entry): .875; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; St. . .</p>	Complete
01/23/2019 23:40 PST	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 1/24/2019 00:04 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.2; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; S. . .</p>	Complete
01/14/2019 17:10 PST	R MacNail	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by rmacnail on 1/14/2019 17:10 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.0; Diesel data before Start Diesel tank level (decimal entry): .85; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; Sta. . .</p>	Complete
01/09/2019 17:02 PST	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 1/09/2019 17:03 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.9; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; S. . .</p> <p>Appended Comments:</p> <ul style="list-style-type: none"> ▪ Engine hours should be 7.9 (BWood, 2/27/2019 14:10 PST) 	Complete
01/01/2019	B Miller		Complete

01/01/2019 14:04 PST	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 1/01/2019 15:11 PST</p> <p>Round: Weekly Diesel FP PM</p> <p>Details: Diesel data before Start Engine hours: 8.75; Diesel data before Start Diesel tank level (decimal entry): 0.875; Start Diesel Fire Pump Did Diesel start OK?: OK; Start Diesel Fire Pump Did Diesel start OK? Comment: None; . . .</p> <p>Appended Comments:</p> <ul style="list-style-type: none">▪ Engine hours should be 7.75 (BWood, 2/27/2019 14:09 PST)	Complete
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Attachment L Verifications Not Required for First Quarter 2019:

AQ-44: Rolling 12-Month Annual Emissions Summary NO_x, CO, VOC, PM₁₀, and Sox

AQ-45: Rolling 12-Month Annual Emissions CO

AQ-49: Annual Operating Hours Summary

AQ-50: Annual Starts Per Turbine Summary

AQ-51: Commissioning Starts Per Turbine Summary

AQ-90: Initial Startup Notification