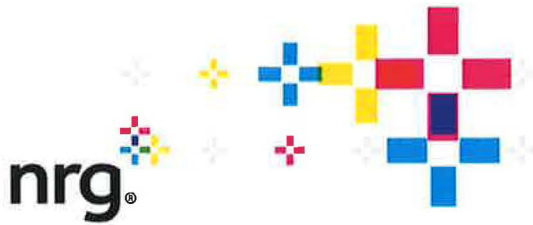


DOCKETED

Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	230457
Document Title:	Quarterly Operations Report For Third Quarter 2019
Description:	Air Quality Quarterly Operations Report - Third Quarter 2019
Filer:	Anwar Ali
Organization:	Carlsbad Energy Center LLC
Submitter Role:	Applicant
Submission Date:	10/31/2019 11:06:57 AM
Docketed Date:	10/31/2019



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

October 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, THIRD QUARTER 2019**

Dear Dr. Ali:

Carlsbad Energy Center LLC ("Project Owner") submits the third 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 4950 Avenida Encinas, Carlsbad, California.

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

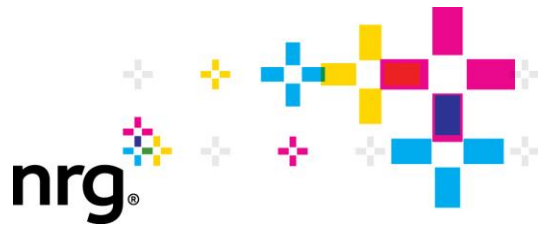
If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 710-3943.

Sincerely,

Paul Mattesich
Plant Manager
Carlsbad Energy Center LLC

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

Cc: File



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

**California Energy Commission
Quarterly Operational Report**

Third Quarter 2019

***Submitted by: Carlsbad Energy Center LLC
Date Submitted: 10-30-2019***

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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

Attachment C Sulfur Content Lab Report:

AQ-22: Natural Gas Sulfur Content

Attachment D Post Commercial Data Summary:

AQ-27: NOx 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: 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

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

Attachment F 40 CFR Part 60, Subpart KKKK Report:

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AQ-41: VOC Portion Only

Attachment I Encina Power Station Operations Statement:

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AQ-120: Diesel Engine Operation Logs

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Attachment M Verifications Not Included:

AQ-44: Rolling 12-Month Annual Emissions Summary NOx, 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 third quarter of 2019.

Attachment A Clean Air Markets Compliance Summary:

AQ-11: Annual SO₂ Emission and Allowances



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

October 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

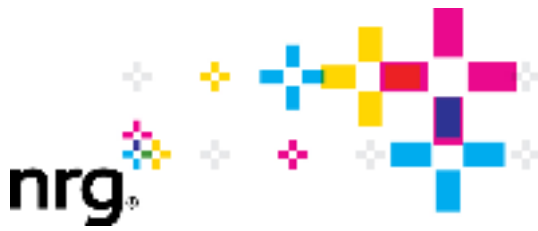
AQ-15: Startup Event Duration

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



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

October 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



September 22, 2019

Mr. Ryan Goerl
Carlsbad Energy Center LLC
4600 Carlsbad Blvd.
Carlsbad, CA 92008

**Subject: 3Q19 Quarterly Fuel Analysis Results for Carlsbad Energy Center
Report Number: W002AS-563212-RT-481**

Dear Ryan,

Montrose Air Quality Services, LLC (MAQS) collected two natural gas samples from Carlsbad Energy Center on September 3rd, 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 1.15 ppmv total reduced sulfur compounds as Sulfur. This letter presents the calculations from ppm to grains per hundred standard cubic feet.

$$\frac{1.10 \text{ scf S}}{10^6 \text{ scf fuel}} * \frac{32 \text{ lb}}{\text{lb-mole}} * \frac{\text{lb-mole}}{379.5 \text{ scf}} * \frac{100 \text{ scf}}{\text{hundred scf}} * \frac{7000 \text{ grains}}{\text{lb}} = \frac{0.07 \text{ grains S}}{\text{hundred scf}}$$

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.

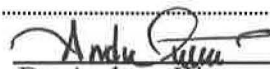
Rik Dupont
Sr. Field Technician
Montrose Air Quality Services, LLC

CLIENT: MONTROSE
CLIENT PROJ NO: Carlsbad Energy Center
LABORATORY NO: 19-778
SAMPLING DATE: 09/03/19
RECEIVING DATE: 09/03/19
ANALYSIS DATE: 09/04/19
REPORT DATE: 09/05/19

Laboratory Analysis Report

Analysis Method: ASTM 1945-03 ; HHV Calculations: ASTM 3588-98

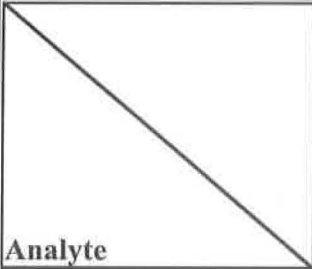
Analyte, Units	Sample ID	1-Fuel	2-Fuel
	Sample Date	09/03/19	09/03/19
	Sample Time	0820	0822
	Lab ID	24619-7	24619-8
	Units	Mole %	Mole %
Methane, %	93.54	93.21	
Ethane, %	3.68	3.64	
Ethylene, %	<0.01	<0.01	
Propane, %	0.18	0.17	
Propylene, %	<0.01	<0.01	
i-Butane, %	<0.01	<0.01	
n-Butane, %	<0.01	<0.01	
1-Butene, %	<0.01	<0.01	
i-Butylene, %	<0.01	<0.01	
trans-2-Butene, %	<0.01	<0.01	
cis-2-Butene, %	0.28	<0.01	
i-Pentane, %	<0.01	<0.01	
n-Pentane, %	<0.01	<0.01	
2,2-Dimethyl Butane, %	<0.01	<0.01	
2,3-Dimethyl Butane, %	<0.01	<0.01	
2-Methyl Pentane, %	<0.01	<0.01	
3-Methyl Pentane, %	<0.01	<0.01	
n-Hexane, %	<0.01	<0.01	
C6+, %	<0.01	<0.01	
CO2, %	0.85	0.84	
CO, %	<0.01	<0.01	
O2, %	0.15	0.20	
N2, %	1.28	1.89	
H2, %	<0.01	<0.01	
H2S, %	<0.01	<0.01	
Average Molecular Weight	17.152	17.111	
Total Wt.% Adjusted Sp. Gravity	0.5898	0.5882	
Compressibility Factor (14.696 Psi, 60 F)	0.9977	0.9978	
NET BTU/Cub. Ft	924	912	
GROSS BTU/Cub. Ft	1024	1011	
CHONS	%	%	
Carbon	72.52	71.60	
Hydrogen	23.52	23.35	
Oxygen	1.87	1.95	
Nitrogen	2.08	3.10	
Sulfur	<0.01	<0.01	
Dry F Factor (60 F, 1 Atm):	8578	8578	
SDCF/MMBTU, ASTM 3588			



Dr. Andrew Kitto
President

CLIENT: MONTROSE
CLIENT PROJ NO: Carlsbad Energy Center
LABORATORY NO: 19-778
SAMPLING DATE: 09/03/19
RECEIVING DATE: 09/03/19
ANALYSIS DATE: 09/03/19
REPORT DATE: 09/05/19

Laboratory Analysis Report

Analysis Method	ASTM D6228-98		
Detection Limits	0.05 PPMV		
	Client ID	1-Fuel	2-Fuel
	Sampling Date	9/3/2019	09/03/19
	Sampling Time	0820	0822
	Lab ID	24619-7	24619-8
	Units	PPMV	PPMV
	Analyte		
Hydrogen Sulfide	0.07	0.06	
Carbonyl Sulfide	<0.05	<0.05	
Methyl Mercaptan	<0.05	<0.05	
Ethyl Mercaptan	<0.05	<0.05	
t-Butyl Mercaptan	0.51	0.61	
Tetrahydrothiophene	0.46	0.60	
Un-Identified S Compounds	<0.05	<0.05	
Total Sulfur as H₂S	1.04	1.26	



Dr. Andrew Kitto
President

CLIENT: MONTROSE
CLIENT PROJ NO: Carlsbad Energy Center
LABORATORY NO: 19-778
SAMPLING DATE: 09/03/19
RECEIVING DATE: 09/03/19
ANALYSIS DATE: 09/03/19
REPORT DATE: 09/05/19

Quality Assurance Report

Duplicate Analysis

Sample ID: 2-Fuel

Lab ID: 24619-8

Analysis Method		SCAQMD 307-91		
Detection Limit		0.05 PPMV		
Analyte	Aver. Conc.	Dil. Factor	DF*A/CF	% Sample*
	PPMV	Ambient Air	PPMV	Recovery
Hydrogen Sulfide	0.06	1	0.06	104
Carbonyl Sulfide	<0.05	1	<0.05	N/A
Methyl Mercaptan	<0.05	1	<0.05	N/A
Ethyl Mercaptan	<0.05	1	<0.05	N/A
t-Butyl Mercaptan	0.65	1	0.68	106
Tetrahydrothiophene	0.55	1	0.50	91
Unidentified S Compounds	<0.05	1	<0.05	NA
Total Sulfur as H2S	1.25	1	1.24	99.4

N/A: Not Applicable

*Must be ±10%



Dr. Andrew Kitto
President

19-778

CHAIN OF CUSTODY



W002AS-563212-RT-481

CLIENT: Carlsbad Energy Center PROJECT NUMBER: 002AS-563212 TEST DATE(S): 9/3/2019
 LOCATION: Carlsbad SAMPLER(S): RD
 SAMPLE LOCATION: Gas Line PROJECT MANAGER: JP
 TEST METHOD(S): ASTM D6228-98 DATE DUE: 9/13/2019
 OUTSIDE LAB REQUIRED?: Yes - Quantum Lab COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
9/3/2019	0820	1-Fuel	5L Tedlar Bag	1	RD	5 L Tedlar Bag
9/3/2019	0822	2-Fuel	5L Tedlar Bag	1	RD	5 L Tedlar Bag

24619-7
24619-8

5 of 6

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	9/3/19 @ 1017		9/3/19 1017

ANALYSIS REQUIRED: Please report TRS as Sulfur in addition to H₂S
USE PO# PO1034145

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: West
E-Mail: RDupont@montrose-env.com
Phone: (949) 379-9231

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

Attachment D Post Commercial Data Summary:

AQ-27: NOx 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: 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

Average Values Report
Generated: 10/16/2019 06:50

Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 6

Period Start: 7/1/2019 00:00
Period End: 9/30/2019 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
07/04/2019 17:00	1.6	0.3	1.2	0.1	1.6
07/04/2019 18:00	1.5	4.9	0.8	1.6	1.7
07/04/2019 19:00	1.5	4.3	0.4	0.7	1.3
07/10/2019 17:00	1.6	0.4	1.3	0.2	1.6
07/10/2019 18:00	1.5	2.6	0.3	0.6	2.0
07/10/2019 19:00	1.5	0.3	0.1	0.0	2.2
07/11/2019 17:00	1.2	0.8	1.4	0.5	2.1
07/11/2019 18:00	1.4	3.8	0.3	0.5	1.5
07/11/2019 19:00	1.5	2.8	0.2	0.2	1.7
07/12/2019 15:00	1.5	0.8	0.6	0.2	1.0
07/12/2019 17:00	1.5	1.7	0.1	0.1	1.2
07/12/2019 18:00	1.5	3.0	0.1	0.1	1.1
07/12/2019 19:00	1.4	2.6	0.1	0.1	0.9
07/15/2019 17:00	1.3	0.9	1.2	0.6	1.1
07/15/2019 18:00	1.5	2.5	0.7	1.0	1.0
07/18/2019 10:00	1.5	1.5	0.0	0.0	1.2
07/18/2019 11:00	1.6	1.1	0.1	0.0	1.1
07/18/2019 17:00	1.3	1.0	0.9	0.4	1.0
07/18/2019 18:00	1.5	3.1	0.2	0.5	1.1
07/18/2019 19:00	1.6	3.2	0.2	0.3	1.2
07/18/2019 20:00	1.0	0.6	0.6	0.2	1.1
07/21/2019 17:00	1.5	4.0	0.9	1.3	1.0
07/21/2019 18:00	1.5	5.0	0.9	1.9	1.0
07/21/2019 19:00	1.5	2.3	0.0	0.1	1.1
07/21/2019 20:00	1.5	0.9	0.0	0.0	1.2
07/22/2019 15:00	1.8	0.5	0.2	0.0	1.1
07/22/2019 16:00	1.5	3.0	0.3	0.3	0.9
07/22/2019 17:00	1.5	3.6	0.4	0.9	1.1
07/22/2019 18:00	1.5	5.0	0.9	1.9	1.1
07/22/2019 19:00	1.4	2.9	0.3	0.5	1.1
07/22/2019 20:00	1.5	0.4	0.0	0.0	1.2
07/23/2019 11:00	1.5	1.1	0.0	0.0	1.2
07/23/2019 14:00	1.5	0.2	0.0	0.0	1.0
07/23/2019 15:00	1.5	2.4	0.0	0.0	1.3
07/23/2019 16:00	1.4	2.3	0.0	0.0	1.2
07/23/2019 17:00	1.5	2.9	0.3	0.5	1.1
07/23/2019 18:00	1.6	4.5	0.5	1.0	1.1
07/23/2019 19:00	1.4	3.6	0.4	0.7	1.2
07/23/2019 20:00	1.5	0.4	0.0	0.0	1.1
07/24/2019 11:00	1.6	2.2	0.1	0.1	1.0
07/24/2019 12:00	1.4	4.5	0.4	0.8	1.0
07/24/2019 13:00	1.5	2.7	0.1	0.2	1.3
07/24/2019 14:00	1.5	2.6	0.1	0.1	1.1
07/24/2019 15:00	1.5	3.3	0.1	0.2	1.1
07/24/2019 16:00	1.4	2.4	0.3	0.3	1.0
07/24/2019 17:00	1.5	3.0	0.1	0.2	1.0
07/24/2019 18:00	1.4	3.0	0.2	0.2	0.8
07/25/2019 15:00	1.6	2.6	0.5	0.7	1.2
07/25/2019 16:00	1.4	4.8	0.6	1.2	1.1
07/25/2019 17:00	1.5	2.4	0.1	0.1	1.2
07/25/2019 18:00	1.5	0.9	0.1	0.0	1.1
07/28/2019 16:00	1.0	0.2	1.1	0.2	1.0
07/28/2019 17:00	1.5	5.1	0.6	1.2	0.9
07/28/2019 18:00	1.4	4.9	0.5	1.0	0.8
07/28/2019 19:00	1.5	5.2	0.5	1.0	0.8
07/28/2019 20:00	1.5	4.8	0.5	1.0	0.9
07/29/2019 17:00	1.6	0.4	0.1	0.0	1.2
07/29/2019 18:00	1.5	1.9	0.1	0.1	1.2
08/01/2019 13:00	1.6	0.4	0.0	0.0	1.2
08/01/2019 14:00	1.5	2.0	0.0	0.0	1.2
08/01/2019 15:00	1.7	1.7	0.2	0.1	1.1
08/01/2019 16:00	1.4	3.1	0.3	0.5	1.0
08/01/2019 17:00	1.5	2.7	0.2	0.3	1.2

Period Start:	Average	Average	Average	Average	Average
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm
08/01/2019 18:00	1.6	4.8	0.7	1.4	1.0
08/01/2019 19:00	1.5	5.0	0.7	1.5	1.1
08/01/2019 20:00	1.4	3.2	0.2	0.4	1.0
08/02/2019 16:00	1.5	1.7	0.0	0.0	1.1
08/02/2019 17:00	1.5	3.2	0.1	0.2	1.0
08/02/2019 18:00	1.5	4.8	0.5	1.0	1.0
08/02/2019 19:00	1.4	2.0	0.3	0.3	1.1
08/03/2019 13:00	1.3	0.6	0.3	0.1	1.2
08/03/2019 14:00	1.6	2.4	0.1	0.1	1.4
08/03/2019 15:00	1.4	4.4	0.4	0.7	1.0
08/03/2019 16:00	1.5	3.2	0.2	0.3	1.1
08/03/2019 17:00	1.5	3.9	0.4	0.9	1.1
08/03/2019 18:00	1.5	5.0	0.7	1.5	1.0
08/03/2019 19:00	1.4	2.5	0.2	0.3	1.1
08/03/2019 20:00	1.5	1.5	0.2	0.1	1.0
08/04/2019 17:00	1.6	1.6	0.6	0.4	0.9
08/04/2019 18:00	1.5	4.8	0.5	1.0	1.1
08/04/2019 19:00	1.5	3.1	0.7	1.0	1.0
08/04/2019 20:00	1.4	2.1	0.2	0.2	1.0
08/05/2019 13:00	1.6	2.6	0.4	0.5	1.1
08/05/2019 14:00	1.4	4.1	0.3	0.6	1.0
08/05/2019 15:00	1.5	4.9	0.3	0.6	1.0
08/05/2019 16:00	1.5	4.7	0.3	0.6	0.9
08/05/2019 17:00	1.5	4.3	0.3	0.6	0.9
08/05/2019 18:00	1.4	3.9	0.4	0.8	1.1
08/05/2019 19:00	1.6	2.4	0.1	0.3	1.3
08/05/2019 20:00	1.4	3.6	0.3	0.5	0.9
08/06/2019 14:00	1.5	3.4	0.5	0.7	1.0
08/06/2019 15:00	1.5	3.2	0.4	0.6	1.3
08/06/2019 16:00	1.5	4.3	0.5	1.1	1.0
08/06/2019 17:00	1.5	4.6	0.5	1.0	1.0
08/06/2019 18:00	1.5	4.7	0.5	1.0	1.0
08/06/2019 19:00	1.4	1.3	0.3	0.2	1.2
08/07/2019 16:00	1.6	1.5	0.1	0.1	1.3
08/07/2019 17:00	1.6	3.6	0.7	1.1	1.1
08/07/2019 18:00	1.5	4.9	0.6	1.1	1.0
08/07/2019 19:00	1.3	1.5	0.4	0.3	1.0
08/09/2019 16:00	1.5	1.1	1.4	0.7	0.9
08/09/2019 17:00	1.5	4.9	1.0	2.2	0.8
08/09/2019 18:00	1.5	5.0	1.1	2.3	0.8
08/09/2019 19:00	1.5	5.1	1.2	2.5	0.8
08/09/2019 20:00	1.5	5.2	1.1	2.3	0.8
08/09/2019 21:00	1.4	1.9	1.0	0.9	0.8
08/10/2019 18:00	1.5	1.1	1.4	0.7	0.9
08/10/2019 19:00	1.5	3.7	0.8	1.6	0.9
08/10/2019 20:00	1.6	0.3	0.1	0.0	1.1
08/11/2019 15:00	1.6	0.5	0.1	0.0	1.2
08/11/2019 16:00	1.5	2.1	0.2	0.1	1.1
08/11/2019 17:00	1.5	3.3	0.6	1.1	1.1
08/11/2019 18:00	1.5	4.9	1.1	2.2	0.8
08/11/2019 19:00	1.5	2.9	0.3	0.4	0.9
08/11/2019 20:00	1.7	0.5	0.2	0.0	1.1
08/12/2019 17:00	1.5	2.4	1.4	1.5	0.9
08/12/2019 18:00	1.5	3.5	0.8	1.6	0.9
08/12/2019 19:00	1.5	0.9	0.1	0.0	1.0
08/13/2019 17:00	1.5	1.8	1.3	1.0	0.8
08/13/2019 18:00	1.5	5.0	1.1	2.3	0.8
08/13/2019 19:00	1.6	3.2	0.5	1.0	1.0
08/13/2019 20:00	1.3	1.1	0.7	0.6	1.0
08/14/2019 18:00	1.6	4.4	0.8	1.6	0.9
08/14/2019 19:00	1.4	4.7	1.0	2.0	0.8
08/14/2019 20:00	1.3	0.9	0.7	0.3	0.8
08/15/2019 12:00	1.4	2.0	0.2	0.1	0.9
08/15/2019 13:00	1.5	2.0	0.0	0.0	1.1
08/15/2019 16:00	1.1	0.8	0.4	0.2	1.0
08/15/2019 17:00	1.6	3.4	0.3	0.7	1.0
08/15/2019 18:00	1.5	4.5	0.6	1.3	0.9
08/15/2019 19:00	1.5	2.0	0.6	0.6	0.9
08/17/2019 18:00	1.5	2.7	0.4	0.5	0.8
08/17/2019 19:00	1.5	1.3	0.0	0.0	1.1
08/18/2019 17:00	1.6	1.9	0.8	0.5	0.8
08/18/2019 18:00	1.5	3.7	1.0	1.7	0.8

Period Start:	Average	Average	Average	Average	Average
	6NOxCorOP1 ppm	6NOX#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm
08/18/2019 19:00	1.5	2.2	0.1	0.1	1.0
08/18/2019 20:00	1.5	0.3	0.0	0.0	1.1
08/19/2019 18:00	1.5	2.3	0.3	0.4	1.0
08/19/2019 19:00	1.5	0.8	0.0	0.0	1.1
08/20/2019 17:00	1.5	2.5	0.9	0.9	0.9
08/20/2019 18:00	1.6	3.8	0.5	1.0	1.0
08/20/2019 19:00	1.5	0.8	0.2	0.1	1.1
08/21/2019 13:00	1.3	0.9	0.7	0.3	0.9
08/21/2019 14:00	1.5	1.4	0.5	0.3	1.0
08/21/2019 15:00	1.3	1.0	0.5	0.2	0.8
08/21/2019 16:00	1.6	4.9	0.7	1.5	0.9
08/21/2019 17:00	1.5	4.9	0.9	1.9	0.9
08/21/2019 18:00	1.5	2.5	0.2	0.4	1.0
08/21/2019 19:00	1.5	0.3	0.1	0.0	1.1
08/23/2019 16:00	1.5	1.2	1.0	0.4	0.9
08/23/2019 17:00	1.5	5.1	0.9	2.0	1.0
08/23/2019 18:00	1.4	5.1	1.1	2.3	0.9
08/23/2019 19:00	1.5	0.8	0.2	0.1	1.0
08/24/2019 17:00	1.5	1.9	1.1	0.8	1.0
08/24/2019 18:00	1.4	5.3	1.1	2.4	1.0
08/24/2019 19:00	1.5	5.4	1.4	3.0	0.9
08/24/2019 20:00	1.2	0.8	0.8	0.3	0.9
08/25/2019 13:00	1.5	0.9	0.8	0.3	0.8
08/25/2019 14:00	1.5	3.0	0.4	0.7	1.1
08/25/2019 15:00	1.6	4.3	0.7	1.3	0.9
08/25/2019 16:00	1.5	4.6	0.8	1.7	0.9
08/25/2019 17:00	1.5	4.7	1.0	2.1	0.8
08/25/2019 18:00	1.5	5.3	1.1	2.3	0.9
08/25/2019 19:00	1.5	4.8	1.0	2.1	1.0
08/25/2019 20:00	1.3	1.6	0.6	0.5	0.9
08/26/2019 15:00	1.6	1.9	0.2	0.1	1.1
08/26/2019 16:00	1.6	3.4	0.6	1.1	1.1
08/26/2019 17:00	1.5	4.7	0.8	1.6	0.9
08/26/2019 18:00	1.5	4.5	0.7	1.2	1.1
08/26/2019 19:00	1.5	2.9	0.7	0.8	1.3
08/27/2019 14:00	1.3	1.0	0.6	0.3	1.0
08/27/2019 15:00	1.6	3.1	0.4	0.7	1.0
08/27/2019 16:00	1.4	2.7	0.8	1.1	1.0
08/27/2019 17:00	1.6	4.6	0.8	1.7	0.9
08/27/2019 18:00	1.5	2.6	0.2	0.4	1.0
08/27/2019 19:00	1.5	0.8	0.0	0.0	1.1
08/28/2019 18:00	1.5	1.5	0.1	0.1	1.1
08/29/2019 11:00	1.6	1.2	0.6	0.3	0.8
08/29/2019 12:00	1.4	2.6	0.2	0.3	1.1
08/29/2019 14:00	1.6	2.5	0.3	0.4	0.9
08/29/2019 15:00	1.5	4.4	0.3	0.5	0.9
08/29/2019 16:00	1.4	4.4	0.4	0.7	0.9
08/29/2019 17:00	1.5	4.8	0.5	1.1	1.0
08/29/2019 18:00	1.5	3.6	0.4	0.7	1.0
08/29/2019 19:00	1.5	1.4	0.3	0.3	1.1
08/30/2019 08:00	1.5	3.0	0.4	0.7	1.2
08/30/2019 09:00	1.5	5.0	0.5	1.0	1.0
08/30/2019 10:00	1.5	5.1	0.6	1.2	1.1
08/30/2019 11:00	1.5	4.1	0.7	1.2	1.1
08/30/2019 12:00	1.5	4.4	0.6	1.1	1.0
08/30/2019 13:00	1.4	4.8	0.5	1.1	1.1
08/30/2019 14:00	1.5	4.0	0.4	0.7	1.0
08/30/2019 15:00	1.5	4.1	0.4	0.7	1.0
08/30/2019 16:00	1.6	3.8	0.5	0.9	1.0
08/30/2019 17:00	1.5	4.7	0.5	1.1	0.8
08/30/2019 18:00	1.5	3.0	0.2	0.3	1.0
08/30/2019 19:00	1.5	0.3	0.0	0.0	1.1
08/31/2019 11:00	1.5	3.4	0.5	0.6	0.9
08/31/2019 12:00	1.5	5.1	0.6	1.1	0.9
08/31/2019 13:00	1.4	4.6	0.5	1.0	0.8
08/31/2019 17:00	1.4	1.1	0.8	0.4	0.9
08/31/2019 18:00	1.4	1.7	0.1	0.2	1.0
09/01/2019 15:00	1.5	0.5	0.1	0.0	1.2
09/01/2019 16:00	1.5	2.7	0.3	0.6	1.1
09/01/2019 17:00	1.6	4.2	0.6	1.1	1.1
09/01/2019 18:00	1.4	2.0	0.3	0.4	1.0
09/02/2019 11:00	0.6	0.1	0.2	0.0	1.0

Period Start:	Average 6NOxCorOP1 ppm	Average 6NOX#OP1HR LBS	Average 6COCorOP1 ppm	Average 6CO#OP1HR LBS	Average 6NH3CorOP1 ppm
09/02/2019 12:00	1.5	2.0	0.2	0.2	1.2
09/02/2019 13:00	1.5	4.1	0.4	0.8	1.0
09/02/2019 14:00	1.5	4.1	0.5	0.9	1.0
09/02/2019 15:00	1.4	4.4	0.5	1.0	1.0
09/02/2019 16:00	1.5	2.6	0.3	0.5	1.4
09/02/2019 17:00	1.5	4.6	0.7	1.3	1.0
09/02/2019 18:00	1.6	4.0	0.4	0.8	1.0
09/02/2019 19:00	1.3	2.0	0.5	0.7	1.2
09/03/2019 11:00	1.5	2.2	0.7	0.6	0.8
09/03/2019 14:00	1.5	2.1	0.6	0.5	1.0
09/03/2019 17:00	1.0	0.2	1.3	0.1	1.4
09/03/2019 18:00	1.4	2.2	0.3	0.4	1.1
09/03/2019 19:00	1.6	2.5	0.2	0.2	1.2
09/03/2019 20:00	1.5	3.2	0.2	0.3	1.0
09/03/2019 21:00	1.5	2.6	0.3	0.4	1.2
09/03/2019 22:00	1.5	0.3	0.2	0.0	1.1
09/04/2019 05:00	1.4	1.7	0.8	0.6	0.9
09/04/2019 06:00	1.4	3.1	0.7	0.9	1.1
09/04/2019 10:00	1.5	4.0	0.6	0.9	1.0
09/04/2019 11:00	1.5	5.1	0.5	1.1	1.1
09/04/2019 12:00	1.5	5.1	0.5	1.1	1.1
09/04/2019 13:00	1.5	5.1	0.4	0.9	1.0
09/04/2019 14:00	1.4	4.6	0.3	0.7	1.1
09/04/2019 15:00	1.6	4.0	0.4	0.7	1.3
09/04/2019 16:00	1.5	4.8	0.5	1.0	1.1
09/04/2019 17:00	1.5	5.2	0.7	1.4	1.0
09/04/2019 18:00	1.4	4.7	0.7	1.4	1.0
09/04/2019 19:00	1.5	5.2	0.8	1.6	1.1
09/04/2019 20:00	1.5	4.7	0.7	1.4	1.0
09/04/2019 21:00	1.5	4.2	0.6	1.1	1.1
09/04/2019 22:00	1.1	0.6	0.9	0.3	1.1
09/05/2019 07:00	1.5	1.3	0.2	0.1	1.0
09/05/2019 11:00	1.3	1.0	0.4	0.2	0.9
09/05/2019 12:00	1.5	3.1	0.6	0.7	0.9
09/05/2019 13:00	1.5	3.6	0.5	0.8	0.9
09/05/2019 14:00	0.9	0.7	0.6	0.2	0.6
09/05/2019 15:00	1.4	3.6	0.6	0.9	0.3
09/05/2019 16:00	1.5	5.0	0.6	1.2	0.2
09/05/2019 17:00	1.5	5.1	0.6	1.3	0.3
09/05/2019 18:00	1.5	4.4	0.6	1.2	0.2
09/05/2019 19:00	1.6	2.8	0.2	0.3	0.4
09/05/2019 20:00	1.5	4.2	0.7	1.3	0.3
09/05/2019 21:00	1.5	3.7	0.5	0.9	0.3
09/05/2019 22:00	1.5	1.7	0.2	0.2	0.4
09/06/2019 13:00	1.5	1.4	0.3	0.2	1.3
09/06/2019 14:00	1.5	4.3	0.2	0.4	1.1
09/06/2019 15:00	1.5	5.0	0.2	0.5	0.9
09/06/2019 16:00	1.4	4.6	0.4	0.7	1.0
09/06/2019 17:00	1.5	3.8	0.3	0.6	1.1
09/06/2019 18:00	1.5	0.9	0.0	0.0	1.5
09/07/2019 14:00	1.5	4.1	0.3	0.4	0.9
09/07/2019 15:00	1.5	5.0	0.3	0.5	0.9
09/07/2019 16:00	1.4	4.6	0.3	0.5	1.0
09/07/2019 17:00	1.6	3.0	0.5	0.6	1.0
09/07/2019 18:00	1.4	4.1	0.3	0.7	1.0
09/07/2019 19:00	1.5	1.5	0.0	0.0	1.4
09/08/2019 18:00	1.5	0.5	0.0	0.0	1.2
09/08/2019 19:00	1.5	0.8	0.0	0.0	1.2
09/09/2019 18:00	1.5	1.4	0.0	0.0	1.3
09/11/2019 06:00	1.4	3.1	0.4	0.6	1.0
09/11/2019 09:00	1.5	4.0	0.2	0.3	1.0
09/11/2019 10:00	1.5	5.0	0.0	0.0	1.0
09/11/2019 11:00	1.5	4.5	0.0	0.0	0.9
09/11/2019 12:00	1.5	3.9	0.2	0.4	0.9
09/11/2019 13:00	1.5	4.1	0.1	0.2	1.0
09/11/2019 14:00	1.6	3.1	0.1	0.3	1.2
09/11/2019 15:00	1.1	0.4	0.0	0.0	1.2
09/12/2019 17:00	1.6	1.8	1.0	0.8	1.1
09/12/2019 18:00	1.5	4.0	0.4	0.8	1.1
09/12/2019 19:00	1.5	0.4	0.0	0.0	1.3
09/13/2019 16:00	1.2	0.8	0.3	0.1	1.1
09/13/2019 17:00	1.6	4.1	0.5	0.9	1.2

Period Start:	Average 6NOxCorOP1 ppm	Average 6NOX#OP1HR LBS	Average 6COCorOP1 ppm	Average 6CO#OP1HR LBS	Average 6NH3CorOP1 ppm
09/13/2019 18:00	1.5	3.1	0.2	0.4	1.2
09/13/2019 19:00	1.5	0.8	0.0	0.0	1.3
09/14/2019 15:00	1.4	3.4	0.3	0.5	1.0
09/14/2019 16:00	1.5	3.1	0.2	0.5	1.3
09/14/2019 17:00	1.5	4.3	0.5	1.0	1.1
09/14/2019 18:00	1.5	4.4	0.5	1.0	1.1
09/14/2019 19:00	1.5	1.7	0.3	0.3	1.1
09/15/2019 18:00	1.5	3.5	0.4	0.6	0.9
09/15/2019 19:00	1.5	5.0	0.6	1.2	1.0
09/15/2019 20:00	1.5	4.9	0.7	1.5	1.0
09/15/2019 21:00	1.1	0.6	0.4	0.1	1.0
09/16/2019 13:00	1.0	0.2	0.0	0.0	0.9
09/16/2019 14:00	1.5	1.9	0.0	0.0	1.5
09/16/2019 15:00	1.5	1.4	0.0	0.0	1.5
09/17/2019 10:00	1.6	3.1	0.5	0.6	0.9
09/17/2019 11:00	1.4	4.1	0.3	0.5	1.0
09/18/2019 12:00	1.5	2.0	0.0	0.0	1.1
09/18/2019 13:00	1.5	2.6	0.0	0.0	1.1
09/18/2019 17:00	1.5	1.6	0.4	0.3	0.9
09/18/2019 18:00	1.5	5.2	0.3	0.7	0.9
09/18/2019 19:00	1.5	5.3	0.4	0.7	0.9
09/18/2019 20:00	1.5	4.9	0.4	0.8	0.9
09/18/2019 21:00	1.4	4.7	0.5	0.9	1.0
09/19/2019 05:00	1.7	1.3	0.0	0.0	1.0
09/19/2019 06:00	1.3	0.9	0.0	0.0	1.1
09/19/2019 15:00	1.5	0.5	0.0	0.0	1.0
09/19/2019 16:00	1.5	3.8	0.3	0.6	1.2
09/21/2019 16:00	1.4	1.4	0.0	0.0	1.3
09/21/2019 18:00	1.5	0.6	0.1	0.0	1.1
09/21/2019 19:00	1.5	0.3	0.0	0.0	1.1
09/22/2019 14:00	1.5	0.5	0.0	0.0	1.0
09/22/2019 15:00	1.5	2.0	0.0	0.0	1.2
09/22/2019 16:00	1.5	2.6	0.0	0.0	1.2
09/22/2019 17:00	1.5	2.8	0.2	0.4	1.2
09/22/2019 18:00	1.5	4.5	0.3	0.7	1.0
09/22/2019 19:00	1.3	1.1	0.2	0.2	1.2
09/23/2019 06:00	1.5	1.2	0.0	0.0	1.1
09/23/2019 07:00	1.6	2.3	0.0	0.0	1.0
09/23/2019 08:00	1.5	3.5	0.0	0.0	0.9
09/23/2019 09:00	1.5	3.6	0.0	0.0	0.8
09/23/2019 10:00	1.5	2.7	0.0	0.0	1.1
09/23/2019 11:00	1.5	3.2	0.1	0.3	1.0
09/23/2019 12:00	1.6	3.3	0.0	0.1	1.0
09/23/2019 13:00	1.4	2.3	0.1	0.2	1.2
09/23/2019 14:00	1.5	2.6	0.0	0.0	1.1
09/23/2019 15:00	1.4	3.2	0.0	0.0	0.9
09/23/2019 16:00	1.5	2.0	0.0	0.0	1.3
09/23/2019 17:00	1.5	1.9	0.0	0.0	1.0
09/23/2019 18:00	1.5	1.5	0.1	0.0	1.2
09/23/2019 19:00	1.5	1.3	0.0	0.0	1.0
09/24/2019 11:00	1.6	2.0	0.0	0.0	1.1
09/24/2019 12:00	1.5	2.7	0.0	0.0	1.1
09/24/2019 13:00	1.4	0.0	0.0	0.0	1.0
09/24/2019 14:00	2.7	0.5	0.0	0.0	1.1 Under 16min startup hour
09/24/2019 15:00	1.4	3.7	0.1	0.2	0.9
09/24/2019 16:00	1.5	2.9	0.0	0.0	1.0
09/24/2019 17:00	1.5	2.8	0.0	0.0	1.0
09/24/2019 18:00	1.4	3.0	0.0	0.0	1.0
09/24/2019 19:00	1.6	0.4	0.0	0.0	1.4
09/25/2019 08:00	1.5	1.2	0.0	0.0	1.1
09/25/2019 09:00	1.5	2.5	0.0	0.0	1.1
09/25/2019 10:00	1.5	2.1	0.0	0.0	1.1
09/25/2019 11:00	1.5	3.4	0.0	0.1	0.9
09/25/2019 12:00	1.5	2.7	0.0	0.0	1.1
09/25/2019 13:00	1.5	1.8	0.0	0.0	1.1
09/25/2019 15:00	1.5	1.6	0.0	0.0	1.1
09/25/2019 16:00	1.6	2.0	0.0	0.0	1.1
09/25/2019 17:00	1.5	4.9	0.4	0.8	0.9
09/25/2019 18:00	1.4	2.6	0.0	0.0	1.1
09/25/2019 19:00	1.5	2.0	0.7	0.6	1.1
09/26/2019 17:00	1.1	0.3	0.2	0.0	0.8
09/26/2019 18:00	1.6	2.4	0.0	0.0	1.1

Period Start:	Average 6NOxCorOP1 ppm	Average 6NOX#OP1HR LBS	Average 6COCorOP1 ppm	Average 6CO#OP1HR LBS	Average 6NH3CorOP1 ppm
09/26/2019 19:00	1.4	2.9	0.0	0.1	1.1
09/26/2019 20:00	1.4	1.4	0.0	0.0	1.3
09/30/2019 05:00	1.7	2.1	0.0	0.0	1.1
09/30/2019 06:00	1.4	3.5	0.0	0.0	0.9
09/30/2019 07:00	1.3	0.8	0.0	0.0	1.1
09/30/2019 09:00	1.3	1.4	0.7	0.5	1.0
09/30/2019 10:00	1.5	5.4	0.4	0.8	0.9
09/30/2019 11:00	1.5	5.2	0.5	1.1	0.8
09/30/2019 12:00	1.5	5.0	0.5	1.1	0.9
09/30/2019 13:00	1.5	0.9	0.0	0.0	1.1
Final Average*	1.5	2.8	0.4	0.6	1.0
Maximum*	2.7	5.4	1.4	3.0	2.2
	09/24/2019 14:00	09/30/2019 10:00	08/24/2019 19:00	08/24/2019 19:00	07/10/2019 19:00
Minimum*	0.6	0.0	0.0	0.0	0.2
	09/02/2019 11:00	09/24/2019 13:00	09/30/2019 13:00	09/30/2019 13:00	09/05/2019 18:00

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

Average Values Report
Generated: 10/16/2019 06:51

Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 7

Period Start: 7/1/2019 00:00
Period End: 9/30/2019 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
07/04/2019 17:00	1.2	0.2	2.3	0.2	1.3
07/04/2019 18:00	1.5	4.6	1.2	2.5	1.1
07/04/2019 19:00	1.5	4.1	0.4	0.7	0.9
07/10/2019 17:00	1.4	0.3	2.4	0.3	1.3
07/10/2019 18:00	1.5	2.7	0.6	1.0	1.2
07/10/2019 19:00	1.5	0.4	0.2	0.0	1.3
07/11/2019 17:00	1.0	0.6	2.2	0.8	1.6
07/11/2019 18:00	1.5	4.0	0.4	0.7	0.7
07/11/2019 19:00	1.5	2.7	0.3	0.4	0.8
07/12/2019 17:00	1.5	1.6	0.3	0.2	1.5
07/12/2019 18:00	1.6	1.9	0.4	0.3	1.6
07/12/2019 19:00	1.4	2.5	0.4	0.5	1.5
07/15/2019 17:00	1.2	0.9	1.9	0.9	1.7
07/15/2019 18:00	1.5	2.5	1.2	1.5	1.8
07/18/2019 10:00	1.5	1.4	0.2	0.1	1.8
07/18/2019 11:00	1.4	0.9	0.3	0.1	1.8
07/18/2019 17:00	1.1	0.8	1.8	0.8	2.2
07/18/2019 18:00	1.5	3.1	0.6	1.0	1.9
07/18/2019 19:00	1.6	3.2	0.5	0.8	2.0
07/18/2019 20:00	1.0	0.6	1.2	0.5	2.2
07/21/2019 17:00	1.5	3.7	1.6	2.3	1.8
07/21/2019 18:00	1.5	5.0	1.9	4.0	1.9
07/21/2019 19:00	1.5	2.4	0.3	0.3	1.9
07/21/2019 20:00	1.5	1.0	0.2	0.1	1.3
07/22/2019 15:00	1.2	0.8	0.4	0.2	1.7
07/22/2019 16:00	1.6	3.7	0.4	0.5	1.5
07/22/2019 17:00	1.5	3.4	0.9	1.6	2.0
07/22/2019 18:00	1.5	3.1	1.5	2.0	1.8
07/22/2019 19:00	1.5	3.0	0.7	1.3	1.7
07/22/2019 20:00	1.4	0.4	0.3	0.0	1.9
07/23/2019 11:00	1.5	1.6	0.2	0.2	1.7
07/23/2019 12:00	1.5	2.8	0.4	0.6	1.8
07/23/2019 13:00	1.5	3.1	0.5	0.8	1.8
07/23/2019 14:00	1.5	3.3	0.5	0.9	2.0
07/23/2019 15:00	1.5	2.3	0.2	0.2	1.6
07/23/2019 16:00	1.5	2.4	0.2	0.2	1.7
07/23/2019 17:00	1.4	2.7	0.6	1.0	2.0
07/23/2019 18:00	1.6	4.4	1.1	2.2	2.1
07/23/2019 19:00	1.4	3.5	0.8	1.5	2.1
07/23/2019 20:00	1.5	0.4	0.2	0.0	1.9
07/24/2019 11:00	1.6	2.2	0.4	0.4	1.5
07/24/2019 12:00	1.4	4.4	1.3	2.5	1.8
07/24/2019 13:00	1.6	2.8	0.4	0.5	1.9
07/24/2019 14:00	1.5	2.5	0.4	0.4	1.7
07/24/2019 15:00	1.5	3.2	0.4	0.6	1.7
07/24/2019 16:00	1.4	4.0	0.6	1.1	1.5
07/24/2019 17:00	1.5	2.0	0.6	0.5	1.4
07/24/2019 18:00	1.5	3.0	0.6	0.7	1.3
07/25/2019 15:00	1.5	2.5	1.2	1.4	2.3
07/25/2019 16:00	1.4	4.4	1.4	2.9	1.9
07/25/2019 17:00	1.5	2.4	0.5	0.5	1.8
07/25/2019 18:00	1.4	0.8	0.4	0.1	1.7
07/27/2019 18:00	1.4	4.5	1.5	3.1	1.7
07/27/2019 19:00	1.8	1.8	0.6	0.5	2.2
07/28/2019 16:00	0.9	0.2	1.8	0.2	2.1
07/28/2019 17:00	1.4	4.9	1.0	2.0	1.3
07/28/2019 18:00	1.5	5.1	1.0	2.1	1.3
07/28/2019 19:00	1.5	5.2	1.1	2.1	1.3
07/28/2019 20:00	1.5	4.7	1.1	2.0	1.3
07/29/2019 17:00	1.5	0.4	0.0	0.0	1.5
07/29/2019 18:00	1.5	1.8	0.0	0.0	2.1
08/01/2019 13:00	1.3	0.2	0.0	0.0	2.2
08/01/2019 14:00	1.5	1.5	0.0	0.0	2.0

Period Start:	Average	Average	Average	Average	Average
	7NOxCorOP1 ppm	7NOx#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm
08/01/2019 15:00	1.6	2.4	0.0	0.0	1.9
08/01/2019 16:00	1.4	3.1	0.4	0.8	1.8
08/01/2019 17:00	1.4	2.5	0.3	0.6	1.9
08/01/2019 18:00	1.5	4.6	1.1	2.3	2.1
08/01/2019 19:00	1.5	4.8	1.3	2.6	1.9
08/01/2019 20:00	1.5	3.5	0.3	0.5	1.5
08/02/2019 16:00	1.5	1.7	0.0	0.0	1.4
08/02/2019 17:00	1.5	3.0	0.1	0.2	1.8
08/02/2019 18:00	1.6	4.8	0.6	1.3	1.7
08/02/2019 19:00	1.4	2.1	0.3	0.4	2.0
08/03/2019 13:00	1.2	0.6	0.6	0.2	1.8
08/03/2019 14:00	1.6	2.5	0.1	0.3	1.7
08/03/2019 15:00	1.3	4.4	0.6	1.1	1.7
08/03/2019 16:00	1.5	3.2	0.1	0.2	2.0
08/03/2019 17:00	1.5	3.7	0.7	1.5	1.8
08/03/2019 18:00	1.5	5.0	1.4	3.0	1.9
08/03/2019 19:00	1.5	2.7	0.3	0.6	1.7
08/03/2019 20:00	1.5	1.4	0.2	0.2	1.8
08/04/2019 17:00	1.6	0.9	0.9	0.3	1.6
08/04/2019 18:00	1.5	3.8	1.3	2.0	2.1
08/04/2019 19:00	1.5	4.7	1.1	2.2	1.9
08/04/2019 20:00	1.6	2.3	0.2	0.2	1.6
08/05/2019 13:00	1.5	2.4	0.8	1.1	1.8
08/05/2019 14:00	1.5	4.1	0.4	0.8	1.7
08/05/2019 15:00	1.5	4.4	0.6	1.2	1.8
08/05/2019 16:00	1.5	4.7	0.5	1.0	1.6
08/05/2019 17:00	1.5	4.4	0.4	0.8	1.6
08/05/2019 18:00	1.5	4.1	0.7	1.4	1.7
08/05/2019 19:00	1.5	2.4	0.3	0.6	1.8
08/05/2019 20:00	1.4	3.6	0.5	0.8	1.6
08/06/2019 14:00	1.5	3.5	1.2	1.7	1.7
08/06/2019 15:00	1.5	3.3	0.4	0.8	2.4
08/06/2019 16:00	1.4	4.2	1.0	2.1	1.8
08/06/2019 17:00	1.5	4.6	1.0	2.1	1.8
08/06/2019 18:00	1.5	4.6	1.0	2.1	1.7
08/06/2019 19:00	1.5	1.4	0.4	0.4	1.4
08/07/2019 16:00	1.6	1.7	0.0	0.0	2.0
08/07/2019 17:00	1.5	3.1	1.2	1.9	2.3
08/07/2019 18:00	1.5	5.0	1.3	2.7	1.7
08/07/2019 19:00	1.6	1.6	0.6	0.5	1.6
08/09/2019 16:00	1.3	0.9	2.1	1.0	2.1
08/09/2019 17:00	1.5	5.0	1.3	2.7	1.6
08/09/2019 18:00	1.5	4.9	1.3	2.8	1.6
08/09/2019 19:00	1.5	5.0	1.6	3.4	1.8
08/09/2019 20:00	1.5	5.1	1.4	2.9	1.8
08/09/2019 21:00	1.5	2.1	1.2	1.1	1.7
08/10/2019 18:00	1.4	1.2	2.1	1.0	2.0
08/10/2019 19:00	1.5	3.9	1.0	2.2	1.6
08/10/2019 20:00	1.5	0.3	0.1	0.0	1.8
08/11/2019 15:00	1.5	0.5	0.1	0.0	1.4
08/11/2019 16:00	1.5	2.1	0.1	0.1	1.8
08/11/2019 17:00	1.4	3.2	0.7	1.5	2.1
08/11/2019 18:00	1.5	4.8	1.5	3.2	1.9
08/11/2019 19:00	1.5	3.1	0.2	0.3	1.3
08/11/2019 20:00	1.5	0.4	0.1	0.0	1.9
08/12/2019 17:00	1.2	2.1	2.0	2.0	2.2
08/12/2019 18:00	1.5	1.9	0.5	0.6	1.6
08/12/2019 19:00	1.5	0.9	0.1	0.0	1.7
08/13/2019 17:00	1.5	3.4	1.3	2.0	1.6
08/13/2019 18:00	1.5	5.0	1.5	3.2	2.0
08/13/2019 19:00	1.6	3.3	0.5	1.1	1.6
08/13/2019 20:00	1.4	1.2	0.2	0.2	1.6
08/14/2019 18:00	1.6	4.4	1.2	2.3	1.7
08/14/2019 19:00	1.4	4.8	1.0	2.2	1.7
08/14/2019 20:00	1.5	0.9	0.8	0.3	1.6
08/15/2019 16:00	1.1	0.8	0.5	0.2	1.7
08/15/2019 17:00	1.5	3.3	0.7	1.4	2.0
08/15/2019 18:00	1.5	4.8	1.0	2.1	2.0
08/15/2019 19:00	1.5	2.0	0.7	0.6	1.9
08/17/2019 18:00	1.5	2.6	0.6	1.0	1.5
08/17/2019 19:00	1.5	1.4	0.0	0.0	1.7
08/18/2019 17:00	1.5	2.6	1.2	1.2	1.6

Period Start:	Average	Average	Average	Average	Average
	7NOxCorOP1 ppm	7NOx#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm
08/18/2019 18:00	1.5	4.9	1.6	3.3	1.9
08/18/2019 19:00	1.5	2.5	0.0	0.0	1.7
08/18/2019 20:00	1.5	0.3	0.0	0.0	1.8
08/19/2019 18:00	1.6	0.9	0.1	0.1	1.6
08/19/2019 19:00	1.5	0.9	0.0	0.0	1.8
08/20/2019 17:00	1.4	2.2	1.4	1.3	1.7
08/20/2019 18:00	1.5	3.4	0.8	1.6	1.5
08/20/2019 19:00	1.5	0.8	0.1	0.0	1.7
08/21/2019 13:00	1.2	0.8	1.0	0.5	1.7
08/21/2019 14:00	1.6	1.4	0.4	0.3	2.2
08/21/2019 15:00	1.3	0.9	0.8	0.3	1.6
08/21/2019 16:00	1.5	5.1	1.1	2.3	1.7
08/21/2019 17:00	1.5	4.9	1.2	2.4	1.6
08/21/2019 18:00	1.5	2.6	0.2	0.4	1.5
08/21/2019 19:00	1.5	0.3	0.0	0.0	1.6
08/23/2019 16:00	1.5	1.1	1.1	0.5	1.5
08/23/2019 17:00	1.5	4.9	1.2	2.5	1.6
08/23/2019 18:00	1.4	4.8	1.6	3.4	1.9
08/23/2019 19:00	1.7	1.0	0.0	0.0	1.6
08/24/2019 17:00	1.5	3.6	1.0	1.5	1.6
08/24/2019 18:00	1.5	4.9	1.5	3.1	1.7
08/24/2019 19:00	1.5	5.1	1.5	3.2	1.9
08/24/2019 20:00	1.5	0.8	0.9	0.3	1.5
08/25/2019 13:00	2.9	0.3	1.2	0.1	2.0
08/25/2019 14:00	1.4	2.5	0.6	0.9	2.0
08/25/2019 15:00	1.5	4.1	0.7	1.4	2.0
08/25/2019 16:00	1.5	4.9	1.1	2.2	1.8
08/25/2019 17:00	1.5	4.8	1.2	2.6	1.7
08/25/2019 18:00	1.5	4.9	1.0	2.1	1.6
08/25/2019 19:00	1.6	4.7	1.0	2.0	1.9
08/25/2019 20:00	1.4	1.6	0.5	0.4	1.6
08/26/2019 15:00	1.5	2.0	0.0	0.0	1.7
08/26/2019 16:00	1.5	3.1	0.6	1.2	2.0
08/26/2019 17:00	1.5	4.8	1.0	2.1	1.7
08/26/2019 18:00	1.5	4.5	0.7	1.3	2.2
08/26/2019 19:00	1.5	2.8	0.5	0.7	2.8
08/27/2019 16:00	1.4	3.4	0.6	1.0	1.6
08/27/2019 17:00	1.6	4.5	0.6	1.2	1.9
08/27/2019 18:00	1.5	2.8	0.1	0.3	1.6
08/27/2019 19:00	1.5	0.8	0.0	0.0	1.5
08/28/2019 18:00	1.6	1.6	0.0	0.0	1.7
08/29/2019 11:00	1.6	0.3	0.5	0.1	1.8
08/29/2019 12:00	1.5	1.8	0.0	0.0	2.1
08/29/2019 14:00	1.5	2.4	0.2	0.2	1.8
08/29/2019 15:00	1.5	4.6	0.2	0.3	1.8
08/29/2019 16:00	1.4	4.4	0.2	0.3	1.8
08/29/2019 17:00	1.5	4.4	0.3	0.7	1.9
08/29/2019 18:00	1.5	3.5	0.4	0.8	1.7
08/29/2019 19:00	1.5	1.5	0.5	0.4	1.6
08/30/2019 08:00	1.5	3.1	0.2	0.3	2.8
08/30/2019 09:00	1.4	4.8	0.3	0.6	1.8
08/30/2019 10:00	1.5	4.8	0.4	0.8	1.8
08/30/2019 11:00	1.5	5.0	0.3	0.7	1.9
08/30/2019 12:00	1.5	4.9	0.3	0.6	1.8
08/30/2019 13:00	1.5	4.7	0.3	0.6	1.9
08/30/2019 14:00	1.5	3.9	0.3	0.5	1.9
08/30/2019 15:00	1.5	4.1	0.3	0.5	1.8
08/30/2019 16:00	1.8	4.1	0.3	0.6	2.1
08/30/2019 17:00	1.5	4.8	0.2	0.4	1.9
08/30/2019 18:00	1.5	3.3	0.0	0.1	1.7
08/30/2019 19:00	1.4	0.3	0.0	0.0	1.5
08/31/2019 12:00	1.6	0.6	0.5	0.1	1.6
08/31/2019 13:00	1.5	4.4	0.5	0.9	1.8
08/31/2019 17:00	1.3	1.0	0.8	0.4	1.6
08/31/2019 18:00	1.5	1.8	0.1	0.1	1.6
09/01/2019 15:00	1.6	0.5	0.0	0.0	1.5
09/01/2019 16:00	1.4	2.6	0.3	0.7	2.1
09/01/2019 17:00	1.5	4.0	0.4	0.8	1.9
09/01/2019 18:00	1.5	2.1	0.2	0.3	1.6
09/02/2019 11:00	1.3	0.5	0.0	0.0	1.9
09/02/2019 12:00	1.5	2.4	0.0	0.0	1.9
09/02/2019 13:00	1.5	4.1	0.4	0.7	2.2

Period Start:	Average	Average	Average	Average	Average
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm
09/02/2019 14:00	1.5	4.3	0.4	0.8	2.1
09/02/2019 15:00	1.5	4.5	0.5	1.0	2.0
09/02/2019 16:00	1.5	2.6	0.2	0.5	2.1
09/02/2019 17:00	1.5	4.6	0.7	1.3	1.8
09/02/2019 18:00	1.6	4.1	0.3	0.6	2.0
09/02/2019 19:00	1.4	1.8	0.5	0.7	2.2
09/03/2019 11:00	1.5	3.2	0.8	1.0	1.9
09/03/2019 12:00	1.5	3.6	0.9	1.4	1.9
09/03/2019 13:00	1.5	4.9	0.9	1.7	1.9
09/03/2019 14:00	1.5	4.8	0.8	1.6	1.9
09/03/2019 15:00	1.5	4.8	1.0	2.0	1.9
09/03/2019 16:00	1.5	4.9	1.1	2.2	1.9
09/03/2019 17:00	1.5	4.8	1.3	2.6	1.9
09/03/2019 18:00	1.5	2.6	0.3	0.5	1.6
09/03/2019 19:00	1.5	2.5	0.1	0.1	1.6
09/03/2019 20:00	1.4	2.8	0.2	0.2	1.6
09/04/2019 10:00	1.5	3.4	0.5	0.7	1.9
09/04/2019 11:00	1.5	4.8	0.4	0.8	1.8
09/04/2019 12:00	1.5	4.8	0.5	0.9	1.7
09/04/2019 13:00	1.5	4.6	0.5	0.9	1.8
09/04/2019 14:00	1.4	4.4	0.5	0.9	2.0
09/04/2019 15:00	1.5	3.7	0.3	0.7	2.2
09/04/2019 16:00	1.5	4.9	0.7	1.4	1.8
09/04/2019 17:00	1.5	4.8	0.7	1.5	1.9
09/04/2019 18:00	1.4	4.6	0.8	1.6	1.8
09/04/2019 19:00	1.6	3.1	0.8	1.0	1.9
09/04/2019 20:00	1.5	4.6	0.9	1.7	1.7
09/04/2019 21:00	1.6	4.3	0.6	1.2	1.8
09/04/2019 22:00	1.1	0.6	1.3	0.5	2.4
09/05/2019 11:00	1.2	0.9	0.4	0.2	1.7
09/05/2019 12:00	1.5	4.8	0.5	1.0	1.7
09/05/2019 13:00	1.5	4.7	0.6	1.1	1.6
09/05/2019 14:00	1.5	4.7	0.7	1.3	1.6
09/05/2019 15:00	1.5	4.6	0.6	1.2	1.5
09/05/2019 16:00	1.5	4.7	0.7	1.4	1.5
09/05/2019 17:00	1.5	4.8	0.7	1.4	1.5
09/05/2019 18:00	1.5	4.5	0.8	1.5	1.9
09/05/2019 19:00	1.6	2.8	0.1	0.2	2.0
09/05/2019 20:00	1.5	4.3	0.9	1.7	1.7
09/05/2019 21:00	1.5	3.8	0.4	0.7	1.6
09/05/2019 22:00	1.4	1.6	0.1	0.1	1.6
09/06/2019 12:00	1.5	2.6	0.4	0.4	1.6
09/06/2019 13:00	2.0	1.1	0.6	0.2	3.1
09/06/2019 14:00	1.4	3.5	0.4	0.7	2.2
09/06/2019 15:00	1.5	4.7	0.5	1.0	1.5
09/06/2019 16:00	1.4	4.4	0.6	1.2	1.6
09/06/2019 17:00	1.5	3.7	0.4	0.7	2.0
09/06/2019 18:00	1.5	0.9	0.0	0.0	1.8
09/07/2019 14:00	1.5	4.0	0.7	1.1	1.5
09/07/2019 15:00	1.5	4.7	0.7	1.3	1.5
09/07/2019 16:00	1.4	4.3	0.7	1.3	1.5
09/07/2019 17:00	1.5	4.0	0.5	1.1	2.1
09/07/2019 18:00	1.5	4.2	0.7	1.3	1.7
09/07/2019 19:00	1.5	1.6	0.1	0.1	1.7
09/09/2019 18:00	1.5	1.3	0.1	0.1	1.8
09/11/2019 09:00	1.5	4.0	0.9	1.5	1.7
09/11/2019 10:00	1.5	4.8	0.7	1.4	1.7
09/11/2019 11:00	1.5	4.6	0.3	0.7	1.4
09/11/2019 12:00	1.4	2.7	0.7	0.9	1.5
09/11/2019 13:00	1.5	4.2	0.5	1.0	1.5
09/11/2019 14:00	1.6	3.1	0.3	0.5	1.6
09/11/2019 15:00	1.0	0.4	0.3	0.1	2.1
09/12/2019 17:00	1.5	3.4	1.5	2.2	1.7
09/12/2019 18:00	1.5	4.0	0.9	1.7	1.5
09/12/2019 19:00	1.4	0.4	0.1	0.0	1.7
09/13/2019 16:00	1.2	0.8	0.7	0.3	1.3
09/13/2019 17:00	1.5	3.8	0.7	1.5	1.9
09/13/2019 18:00	1.5	3.3	0.4	0.8	1.7
09/13/2019 19:00	1.4	0.8	0.0	0.0	1.7
09/14/2019 15:00	1.5	3.3	0.5	0.6	1.6
09/14/2019 16:00	1.5	3.1	0.4	0.8	2.0
09/14/2019 17:00	1.5	4.2	0.8	1.7	1.8

Period Start:	Average 7NOxCorOP1 ppm	Average 7NOX#OP1HR LBS	Average 7COCorOP1 ppm	Average 7CO#OP1HR LBS	Average 7NH3CorOP1 ppm
09/14/2019 18:00	1.5	4.6	1.0	1.9	1.9
09/14/2019 19:00	1.5	1.7	0.7	0.6	1.9
09/15/2019 18:00	1.5	2.5	0.7	0.7	1.2
09/15/2019 19:00	1.5	5.0	1.2	2.5	1.6
09/15/2019 20:00	1.5	5.0	1.3	2.7	1.7
09/15/2019 21:00	1.5	0.7	0.5	0.2	1.1
09/17/2019 10:00	1.5	4.0	1.2	2.0	1.6
09/17/2019 11:00	1.5	4.3	0.9	1.7	1.6
09/18/2019 12:00	1.5	2.0	0.0	0.0	1.8
09/18/2019 13:00	1.5	2.6	0.0	0.1	1.7
09/18/2019 17:00	1.4	1.5	1.2	0.8	1.8
09/18/2019 18:00	1.5	5.1	0.9	1.9	1.8
09/18/2019 19:00	1.5	5.2	0.6	1.2	1.5
09/18/2019 20:00	1.5	3.4	0.8	1.2	1.6
09/19/2019 15:00	1.4	0.5	0.0	0.0	0.9
09/19/2019 16:00	1.5	3.8	0.7	1.3	2.5
09/21/2019 16:00	1.5	0.7	0.0	0.0	1.6
09/21/2019 18:00	1.5	1.3	0.0	0.0	1.7
09/21/2019 19:00	1.5	0.4	0.0	0.0	1.8
09/22/2019 14:00	1.5	0.5	0.0	0.0	1.6
09/22/2019 15:00	1.5	2.0	0.0	0.0	1.6
09/22/2019 16:00	1.5	2.6	0.0	0.0	1.9
09/22/2019 17:00	1.5	2.8	0.3	0.5	2.0
09/22/2019 18:00	1.6	4.6	0.7	1.4	1.8
09/22/2019 19:00	1.3	1.1	0.4	0.4	1.8
09/23/2019 06:00	1.5	1.3	0.0	0.0	1.5
09/23/2019 07:00	1.6	2.4	0.0	0.0	1.6
09/23/2019 08:00	1.4	3.5	0.0	0.1	1.4
09/23/2019 09:00	1.5	3.6	0.0	0.1	1.2
09/23/2019 10:00	1.5	2.7	0.0	0.0	1.5
09/23/2019 11:00	1.5	3.1	0.3	0.6	1.6
09/23/2019 12:00	1.6	3.4	0.1	0.1	1.5
09/23/2019 13:00	1.4	2.4	0.2	0.3	1.6
09/23/2019 14:00	1.5	2.5	0.0	0.0	1.5
09/23/2019 15:00	1.5	3.1	0.0	0.0	1.4
09/23/2019 16:00	1.5	1.4	0.0	0.0	1.6
09/23/2019 17:00	1.5	2.1	0.0	0.0	1.6
09/23/2019 18:00	1.5	2.2	0.0	0.0	1.7
09/23/2019 19:00	1.5	1.4	0.0	0.0	1.6
09/24/2019 14:00	2.5	0.4	0.1	0.0	2.8
09/24/2019 15:00	1.4	3.7	0.1	0.2	1.5
09/24/2019 16:00	1.5	3.1	0.0	0.0	1.6
09/24/2019 17:00	1.5	2.8	0.0	0.0	1.2
09/24/2019 18:00	1.5	3.1	0.0	0.0	1.2
09/24/2019 19:00	1.4	0.3	0.0	0.0	1.3
09/25/2019 08:00	1.5	1.2	0.0	0.0	1.5
09/25/2019 09:00	1.5	2.5	0.0	0.1	1.7
09/25/2019 10:00	1.5	2.2	0.0	0.0	1.7
09/25/2019 11:00	1.4	3.3	0.2	0.3	1.5
09/25/2019 12:00	1.5	2.8	0.1	0.1	1.5
09/25/2019 13:00	1.5	1.9	0.0	0.0	1.9
09/25/2019 15:00	1.5	1.6	0.0	0.0	1.7
09/25/2019 16:00	1.5	2.1	0.0	0.0	1.8
09/25/2019 17:00	1.5	4.6	1.1	2.3	1.7
09/25/2019 18:00	1.5	2.7	0.0	0.1	1.4
09/25/2019 19:00	1.4	1.7	1.1	1.0	2.2
09/26/2019 17:00	1.4	1.5	0.1	0.1	1.4
09/26/2019 18:00	1.6	1.8	0.2	0.1	1.8
09/26/2019 19:00	1.4	2.1	0.4	0.4	1.5
09/30/2019 09:00	1.1	1.2	2.2	1.4	2.0
09/30/2019 10:00	1.5	5.1	1.4	3.0	1.4
09/30/2019 11:00	1.5	5.2	1.7	3.5	1.5
09/30/2019 12:00	1.5	4.9	1.6	3.3	1.4
09/30/2019 13:00	1.6	0.9	0.1	0.0	1.7
Final Average*	1.5	2.9	0.6	0.9	1.7
Maximum*	2.9	5.2	2.4	4.0	3.1
	08/25/2019 13:00	09/30/2019 11:00	07/10/2019 17:00	07/21/2019 18:00	09/06/2019 13:00
Minimum*	0.9	0.2	0.0	0.0	0.7
	07/28/2019 16:00	08/01/2019 13:00	09/25/2019 18:00	09/30/2019 13:00	07/11/2019 18:00

Average Values Report
Generated: 10/16/2019 06:52

Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 8

Period Start: 7/1/2019 00:00
Period End: 9/30/2019 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
07/04/2019 17:00	1.7	0.3	0.0	0.0	1.6
07/04/2019 18:00	1.0	2.8	0.0	0.0	3.0
07/04/2019 19:00	0.7	1.6	0.1	0.2	2.5
07/10/2019 17:00	1.7	0.4	0.0	0.0	1.5
07/10/2019 18:00	1.5	2.7	0.0	0.0	1.6
07/10/2019 19:00	1.5	0.3	0.0	0.0	1.6
07/11/2019 16:00	1.1	1.9	0.0	0.0	2.8
07/11/2019 17:00	1.2	3.4	0.0	0.1	2.8
07/11/2019 18:00	1.4	3.6	0.0	0.0	1.5
07/11/2019 19:00	1.4	2.6	0.0	0.0	1.9
07/12/2019 17:00	1.4	1.6	0.0	0.0	2.2
07/12/2019 18:00	1.4	2.8	0.0	0.0	2.4
07/12/2019 19:00	1.4	2.5	0.0	0.0	2.1
07/15/2019 17:00	1.2	1.0	0.2	0.1	2.2
07/15/2019 18:00	1.5	2.6	0.1	0.2	2.2
07/17/2019 18:00	1.4	4.7	0.1	0.3	1.8
07/17/2019 19:00	1.5	4.1	0.1	0.1	1.8
07/17/2019 20:00	1.5	0.3	0.0	0.0	1.7
07/18/2019 10:00	0.5	0.5	0.0	0.0	3.9
07/18/2019 11:00	0.7	0.9	0.0	0.0	3.7
07/18/2019 12:00	0.6	0.6	0.0	0.0	3.6
07/18/2019 17:00	1.2	1.0	0.3	0.1	2.1
07/18/2019 18:00	1.5	3.2	0.0	0.1	2.1
07/18/2019 19:00	1.6	3.4	0.0	0.0	2.3
07/18/2019 20:00	0.8	0.5	0.2	0.1	2.8
07/21/2019 16:00	1.5	3.4	0.1	0.1	2.5
07/21/2019 17:00	1.5	5.2	0.0	0.1	2.2
07/21/2019 18:00	1.5	5.2	0.0	0.0	1.9
07/21/2019 19:00	1.5	2.3	0.0	0.0	2.1
07/21/2019 20:00	1.5	0.9	0.0	0.0	1.9
07/22/2019 11:00	0.9	0.6	0.1	0.0	2.4
07/22/2019 12:00	1.5	2.0	0.0	0.0	2.3
07/22/2019 13:00	1.5	1.8	0.0	0.0	2.8
07/22/2019 14:00	1.5	1.8	0.0	0.0	2.8
07/22/2019 15:00	1.5	3.2	0.0	0.0	2.3
07/22/2019 16:00	1.6	2.3	0.0	0.0	2.0
07/22/2019 17:00	1.5	3.5	0.0	0.1	2.5
07/22/2019 18:00	1.5	4.9	0.0	0.0	2.2
07/22/2019 19:00	1.4	2.8	0.0	0.0	2.6
07/22/2019 20:00	1.5	0.3	0.0	0.0	2.9
07/23/2019 11:00	1.6	1.7	0.0	0.0	2.5
07/23/2019 12:00	1.5	2.8	0.0	0.0	2.4
07/23/2019 13:00	1.4	2.6	0.0	0.0	2.9
07/23/2019 14:00	0.7	1.7	0.0	0.0	4.0
07/23/2019 15:00	0.6	0.9	0.0	0.0	4.2
07/23/2019 16:00	0.6	0.9	0.0	0.0	4.3
07/23/2019 17:00	0.6	1.3	0.0	0.0	3.9
07/23/2019 18:00	0.8	2.5	0.0	0.1	4.0
07/23/2019 19:00	0.9	2.3	0.0	0.1	3.9
07/23/2019 20:00	1.1	0.3	0.0	0.0	2.8
07/24/2019 11:00	1.6	2.4	0.0	0.0	2.2
07/24/2019 12:00	1.4	4.3	0.0	0.0	2.0
07/24/2019 13:00	0.8	1.5	0.0	0.0	4.0
07/24/2019 14:00	0.6	1.0	0.0	0.0	4.2
07/24/2019 15:00	0.7	1.0	0.0	0.0	3.8
07/24/2019 16:00	0.7	2.1	0.0	0.0	3.5
07/24/2019 17:00	0.6	1.1	0.0	0.0	3.9
07/24/2019 18:00	0.9	1.8	0.0	0.0	2.7
07/25/2019 15:00	1.2	2.0	0.1	0.1	3.0
07/25/2019 16:00	1.1	3.4	0.0	0.0	2.7
07/25/2019 17:00	0.9	1.3	0.0	0.0	3.6
07/25/2019 18:00	0.6	0.3	0.0	0.0	3.8
07/31/2019 11:00	1.2	2.1	0.0	0.0	3.1

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOx#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
08/01/2019 13:00	1.6	0.5	0.0	0.0	2.4
08/01/2019 14:00	1.5	2.0	0.0	0.0	2.1
08/01/2019 15:00	1.7	2.4	0.0	0.0	2.5
08/01/2019 16:00	1.3	3.1	0.0	0.0	2.3
08/01/2019 17:00	1.5	2.6	0.1	0.2	2.5
08/01/2019 18:00	1.6	4.7	0.1	0.1	2.2
08/01/2019 19:00	1.5	5.1	0.1	0.2	2.1
08/01/2019 20:00	1.5	3.6	0.0	0.0	1.9
08/01/2019 21:00	1.4	2.1	0.2	0.2	2.4
08/02/2019 13:00	1.5	1.4	0.0	0.0	2.3
08/02/2019 16:00	1.5	1.7	0.0	0.0	2.1
08/02/2019 17:00	1.6	3.3	0.0	0.0	2.4
08/02/2019 18:00	1.5	4.6	0.0	0.0	2.2
08/02/2019 19:00	1.3	2.0	0.0	0.0	2.8
08/03/2019 13:00	1.3	0.6	0.0	0.0	2.4
08/03/2019 14:00	1.7	2.6	0.0	0.0	2.5
08/03/2019 15:00	1.3	4.2	0.0	0.0	1.9
08/03/2019 16:00	1.5	3.2	0.0	0.0	2.5
08/03/2019 17:00	1.5	3.8	0.0	0.0	2.1
08/03/2019 18:00	1.1	3.7	0.0	0.1	2.5
08/03/2019 19:00	0.9	1.8	0.0	0.0	3.2
08/03/2019 20:00	1.2	1.1	0.0	0.0	2.2
08/04/2019 14:00	1.5	1.3	0.0	0.0	2.3
08/04/2019 17:00	1.5	1.6	0.0	0.0	1.9
08/04/2019 18:00	1.5	5.3	0.0	0.0	1.9
08/04/2019 19:00	1.5	3.2	0.1	0.2	2.1
08/04/2019 20:00	1.5	2.3	0.0	0.0	2.3
08/05/2019 12:00	1.5	4.7	0.0	0.1	2.2
08/05/2019 13:00	1.5	3.3	0.0	0.0	2.5
08/05/2019 14:00	1.5	4.2	0.0	0.0	2.0
08/05/2019 15:00	1.5	4.7	0.0	0.0	2.1
08/05/2019 16:00	1.5	4.8	0.0	0.0	1.9
08/05/2019 17:00	1.5	4.6	0.0	0.0	1.9
08/05/2019 18:00	1.5	4.0	0.0	0.0	2.1
08/05/2019 19:00	1.6	2.3	0.0	0.0	2.7
08/05/2019 20:00	1.4	3.6	0.0	0.0	2.0
08/06/2019 11:00	1.4	2.2	0.0	0.0	2.6
08/06/2019 14:00	1.3	3.0	0.1	0.2	2.0
08/06/2019 15:00	1.5	3.3	0.1	0.2	3.1
08/06/2019 16:00	1.4	4.3	0.2	0.4	2.2
08/06/2019 17:00	1.5	4.7	0.2	0.4	2.1
08/06/2019 18:00	1.5	3.1	0.4	0.5	1.9
08/06/2019 19:00	1.4	1.4	0.2	0.1	2.3
08/07/2019 15:00	1.4	4.4	0.2	0.5	2.2
08/07/2019 16:00	1.5	3.0	0.1	0.1	3.0
08/07/2019 17:00	1.5	3.8	0.1	0.3	2.5
08/07/2019 18:00	1.5	5.2	0.1	0.3	1.8
08/07/2019 19:00	1.2	1.4	0.1	0.1	2.3
08/09/2019 14:00	1.3	1.6	0.1	0.1	2.6
08/09/2019 16:00	1.4	0.9	0.3	0.1	1.9
08/09/2019 17:00	1.5	5.4	0.2	0.4	2.1
08/09/2019 18:00	1.5	5.5	0.2	0.5	2.1
08/09/2019 19:00	1.5	5.5	0.2	0.3	2.1
08/09/2019 20:00	1.5	5.4	0.2	0.4	2.1
08/09/2019 21:00	1.4	1.9	0.2	0.2	2.1
08/10/2019 18:00	1.4	1.2	0.2	0.1	1.7
08/10/2019 19:00	1.5	4.0	0.1	0.2	2.1
08/10/2019 20:00	1.5	0.3	0.1	0.0	2.8
08/11/2019 15:00	1.2	0.0	0.1	0.0	1.6
08/11/2019 16:00	1.5	1.8	0.2	0.1	2.4
08/11/2019 17:00	1.6	3.4	0.1	0.3	2.7
08/11/2019 18:00	1.5	5.2	0.2	0.4	1.9
08/11/2019 19:00	1.4	2.9	0.1	0.1	2.2
08/11/2019 20:00	1.6	0.5	0.0	0.0	2.7
08/12/2019 16:00	1.5	3.0	0.1	0.2	2.4
08/12/2019 17:00	1.3	3.6	0.1	0.3	2.7
08/12/2019 18:00	1.3	3.2	0.1	0.2	2.4
08/12/2019 19:00	1.1	0.6	0.0	0.0	3.4
08/13/2019 14:00	1.3	2.1	0.0	0.1	2.4
08/13/2019 17:00	1.3	3.3	0.0	0.0	1.9
08/13/2019 18:00	1.2	3.9	0.0	0.0	2.6
08/13/2019 19:00	1.4	2.7	0.0	0.0	2.7

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
08/13/2019 20:00	1.3	1.1	0.2	0.1	2.3
08/14/2019 12:00	1.1	1.0	0.0	0.0	2.4
08/14/2019 16:00	1.5	1.2	0.0	0.0	2.4
08/14/2019 17:00	1.6	4.6	0.1	0.1	2.4
08/14/2019 18:00	1.5	4.5	0.0	0.0	2.1
08/14/2019 19:00	1.3	4.5	0.0	0.1	2.2
08/14/2019 20:00	1.3	0.8	0.0	0.0	2.2
08/15/2019 12:00	1.3	1.8	0.0	0.0	2.3
08/15/2019 13:00	1.5	1.9	0.0	0.0	2.6
08/15/2019 16:00	1.1	0.8	0.0	0.0	2.5
08/15/2019 17:00	1.5	3.2	0.0	0.0	2.4
08/15/2019 18:00	1.2	4.0	0.0	0.0	2.7
08/15/2019 19:00	1.2	1.7	0.0	0.0	2.5
08/17/2019 17:00	1.6	4.5	0.0	0.1	2.3
08/17/2019 18:00	1.4	3.9	0.0	0.0	2.2
08/17/2019 19:00	1.1	1.0	0.0	0.0	3.1
08/18/2019 16:00	1.3	3.6	0.0	0.1	2.6
08/18/2019 17:00	1.3	4.4	0.0	0.0	2.4
08/18/2019 18:00	1.3	2.9	0.1	0.2	2.2
08/18/2019 19:00	1.3	2.0	0.0	0.0	2.8
08/18/2019 20:00	1.3	0.3	0.0	0.0	2.8
08/19/2019 15:00	1.2	1.6	0.0	0.1	2.7
08/19/2019 18:00	1.4	2.2	0.0	0.0	2.4
08/19/2019 19:00	1.4	0.8	0.0	0.0	2.7
08/20/2019 16:00	1.3	2.7	0.4	0.6	-5.5
08/20/2019 17:00	1.2	3.8	2.9	5.9	-2.6
08/20/2019 18:00	1.5	3.4	0.4	0.7	-5.6
08/20/2019 19:00	1.0	0.6	0.2	0.1	-5.3
08/21/2019 13:00	1.0	0.8	0.3	0.1	2.6
08/21/2019 14:00	1.4	1.4	0.3	0.2	2.6
08/21/2019 15:00	1.3	1.0	0.3	0.1	1.6
08/21/2019 16:00	1.5	5.1	0.3	0.6	1.8
08/21/2019 17:00	1.5	5.4	0.4	0.7	1.8
08/21/2019 18:00	1.5	2.4	0.2	0.2	2.5
08/21/2019 19:00	1.4	0.3	0.2	0.0	2.6
08/22/2019 10:00	1.4	0.6	0.3	0.1	2.2
08/22/2019 17:00	1.5	4.2	0.2	0.3	2.1
08/22/2019 18:00	1.2	1.6	0.2	0.2	2.0
08/23/2019 05:00	1.3	1.5	0.0	0.0	2.3
08/23/2019 06:00	0.9	0.5	0.3	0.1	3.6
08/23/2019 12:00	1.4	3.6	0.3	0.5	2.1
08/23/2019 13:00	1.0	3.6	0.4	0.7	2.7
08/23/2019 14:00	1.0	3.3	0.4	0.8	3.1
08/23/2019 15:00	1.6	4.8	0.4	0.6	1.9
08/23/2019 16:00	1.6	5.0	0.4	0.7	2.0
08/23/2019 17:00	1.5	5.2	0.3	0.7	1.8
08/23/2019 18:00	1.5	5.2	0.4	0.8	1.9
08/23/2019 19:00	1.5	0.8	0.2	0.1	2.5
08/24/2019 16:00	1.6	4.2	0.4	0.7	2.1
08/24/2019 17:00	1.2	4.2	0.4	0.8	2.3
08/24/2019 18:00	1.2	4.1	0.4	0.8	2.5
08/24/2019 19:00	1.2	2.7	0.6	0.8	2.3
08/24/2019 20:00	0.9	0.5	0.4	0.1	2.8
08/25/2019 13:00	1.2	0.7	0.4	0.1	2.6
08/25/2019 14:00	1.4	2.6	0.3	0.4	2.9
08/25/2019 15:00	1.4	3.9	0.3	0.6	2.4
08/25/2019 16:00	1.4	4.6	0.3	0.7	2.1
08/25/2019 17:00	1.4	5.0	0.4	0.8	2.0
08/25/2019 18:00	1.1	4.0	0.4	0.8	2.9
08/25/2019 19:00	1.3	4.0	0.4	0.8	2.6
08/25/2019 20:00	1.1	1.4	0.4	0.3	2.5
08/26/2019 11:00	1.3	4.0	0.0	0.0	2.1
08/26/2019 12:00	1.5	3.1	0.1	0.1	2.8
08/26/2019 13:00	1.3	3.3	0.0	0.0	2.6
08/26/2019 14:00	1.4	3.3	0.0	0.0	2.3
08/26/2019 15:00	1.4	1.8	0.0	0.0	2.9
08/26/2019 16:00	1.2	1.4	0.0	0.0	3.9
08/27/2019 13:00	1.5	3.2	0.0	0.1	2.2
08/27/2019 14:00	1.4	2.8	0.0	0.0	2.3
08/27/2019 15:00	1.5	3.1	0.0	0.0	2.3
08/27/2019 16:00	1.1	3.7	0.0	0.0	2.7
08/27/2019 17:00	1.2	3.8	0.0	0.0	2.5

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOx#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
08/27/2019 18:00	1.0	1.9	0.0	0.0	3.0
08/27/2019 19:00	1.1	0.6	0.0	0.0	2.8
08/28/2019 17:00	1.5	4.8	0.0	0.0	2.2
08/28/2019 18:00	1.3	2.6	0.0	0.0	2.4
08/29/2019 11:00	1.6	1.3	0.0	0.0	1.6
08/29/2019 12:00	1.5	3.0	0.0	0.0	2.5
08/29/2019 13:00	1.4	3.5	0.0	0.0	2.9
08/29/2019 14:00	1.4	4.1	0.0	0.0	2.1
08/29/2019 15:00	1.4	4.1	0.0	0.0	2.2
08/29/2019 16:00	1.2	3.7	0.0	0.0	2.5
08/29/2019 17:00	1.5	4.6	0.0	0.0	2.2
08/29/2019 18:00	1.2	2.9	0.0	0.1	2.4
08/29/2019 19:00	1.1	1.1	0.0	0.0	3.1
08/30/2019 08:00	1.5	1.7	0.1	0.1	2.5
08/30/2019 09:00	1.3	4.5	0.0	0.0	2.1
08/30/2019 10:00	1.5	4.9	0.0	0.0	2.0
08/30/2019 11:00	1.5	5.1	0.0	0.0	2.0
08/30/2019 12:00	1.3	4.5	0.0	0.0	2.3
08/30/2019 13:00	1.1	3.7	0.0	0.0	2.8
08/30/2019 14:00	1.4	3.7	0.0	0.0	2.3
08/30/2019 15:00	1.3	3.7	0.0	0.0	2.5
08/30/2019 16:00	1.5	3.6	0.0	0.0	2.3
08/30/2019 17:00	1.4	4.6	0.0	0.0	2.1
08/30/2019 18:00	1.4	2.8	0.0	0.0	2.4
08/30/2019 19:00	1.4	0.3	N/A	N/A	2.7
08/31/2019 11:00	1.5	3.4	0.0	0.0	1.8
08/31/2019 12:00	1.3	4.3	0.0	0.0	2.2
08/31/2019 13:00	1.2	3.7	0.0	0.0	2.3
08/31/2019 17:00	1.2	1.0	0.0	0.0	2.0
08/31/2019 18:00	1.4	1.6	0.0	0.0	2.4
09/01/2019 15:00	1.3	0.5	0.0	0.0	2.0
09/01/2019 16:00	1.5	2.0	0.1	0.1	2.7
09/01/2019 17:00	1.5	4.1	0.0	0.0	2.3
09/01/2019 18:00	1.4	2.1	0.0	0.0	2.3
09/02/2019 11:00	0.9	0.3	0.0	0.0	2.6
09/02/2019 12:00	1.2	1.9	0.0	0.0	3.0
09/02/2019 13:00	1.6	4.3	0.0	0.0	2.4
09/02/2019 14:00	1.5	4.2	0.0	0.0	2.4
09/02/2019 15:00	1.4	4.5	0.0	0.0	2.2
09/02/2019 16:00	1.5	2.7	0.0	0.0	2.8
09/02/2019 17:00	1.5	4.7	0.0	0.0	2.0
09/02/2019 18:00	1.6	4.2	0.0	0.0	2.4
09/02/2019 19:00	1.2	1.8	0.0	0.1	2.8
09/03/2019 10:00	1.5	4.9	0.0	0.0	2.1
09/03/2019 11:00	1.5	5.1	0.0	0.0	2.2
09/03/2019 12:00	1.4	4.5	0.0	0.0	2.3
09/03/2019 13:00	1.3	4.1	0.0	0.0	2.4
09/03/2019 14:00	1.2	3.9	0.0	0.0	2.6
09/03/2019 15:00	1.1	3.7	0.0	0.0	3.0
09/03/2019 16:00	1.3	4.1	0.0	0.0	2.4
09/03/2019 17:00	1.4	3.2	0.0	0.0	2.1
09/03/2019 18:00	1.4	2.4	0.1	0.1	2.5
09/03/2019 19:00	1.5	2.4	0.0	0.0	2.4
09/03/2019 20:00	1.5	3.2	0.0	0.0	2.1
09/03/2019 21:00	1.4	2.6	0.0	0.0	2.4
09/03/2019 22:00	1.4	0.3	0.0	0.0	2.5
09/04/2019 05:00	1.0	2.2	0.1	0.1	2.7
09/04/2019 06:00	1.4	2.7	0.0	0.0	2.3
09/04/2019 10:00	1.4	3.6	0.0	0.0	2.2
09/04/2019 11:00	1.5	5.3	0.0	0.0	2.2
09/04/2019 12:00	1.4	4.9	0.0	0.0	2.3
09/04/2019 13:00	1.4	4.7	0.0	0.0	2.2
09/04/2019 14:00	1.3	4.3	0.0	0.0	2.5
09/04/2019 15:00	1.3	3.3	0.0	0.0	3.1
09/04/2019 16:00	1.3	4.2	0.0	0.0	2.5
09/04/2019 17:00	1.0	3.2	0.0	0.0	3.5
09/04/2019 18:00	0.8	2.6	0.0	0.0	4.0
09/04/2019 19:00	0.8	2.8	0.0	0.1	3.9
09/04/2019 20:00	0.8	1.7	0.1	0.1	3.9
09/04/2019 21:00	0.8	2.2	0.1	0.1	4.0
09/04/2019 22:00	0.7	0.4	0.2	0.1	4.4
09/05/2019 07:00	0.5	0.5	0.0	0.0	4.4

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOx#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
09/05/2019 11:00	0.8	0.6	0.0	0.0	3.8
09/05/2019 12:00	0.9	2.7	0.0	0.0	3.3
09/05/2019 13:00	0.8	2.6	0.0	0.0	3.3
09/05/2019 14:00	0.8	2.6	0.0	0.0	3.7
09/05/2019 15:00	0.8	2.7	0.0	0.0	3.6
09/05/2019 16:00	0.8	2.6	0.0	0.1	3.6
09/05/2019 17:00	0.8	2.7	0.0	0.0	4.0
09/05/2019 18:00	0.8	2.4	0.0	0.0	3.9
09/05/2019 19:00	0.7	1.2	0.0	0.0	4.1
09/05/2019 20:00	0.8	2.3	0.0	0.1	3.8
09/05/2019 21:00	0.7	1.6	0.0	0.0	4.1
09/06/2019 05:00	0.5	0.1	0.0	0.0	4.6
09/06/2019 06:00	0.5	0.1	0.0	0.0	4.3
09/06/2019 13:00	1.6	1.3	0.0	0.0	3.2
09/06/2019 14:00	1.7	1.2	0.0	0.0	2.0
09/06/2019 15:00	1.5	3.1	0.0	0.0	2.0
09/06/2019 16:00	1.4	4.5	0.0	0.0	2.0
09/06/2019 17:00	1.5	3.8	0.0	0.0	2.2
09/06/2019 18:00	1.6	0.9	0.0	0.0	2.8
09/07/2019 13:00	1.6	4.9	0.0	0.0	2.0
09/07/2019 14:00	1.4	4.6	0.0	0.0	1.9
09/07/2019 15:00	1.5	4.8	0.0	0.0	1.9
09/07/2019 16:00	1.4	4.5	0.0	0.0	2.0
09/07/2019 17:00	1.5	4.1	0.0	0.0	2.3
09/07/2019 18:00	1.5	4.4	0.0	0.0	2.0
09/07/2019 19:00	1.5	1.5	0.0	0.0	2.7
09/08/2019 18:00	1.5	0.5	0.0	0.0	1.8
09/08/2019 19:00	1.5	0.9	0.0	0.0	1.8
09/09/2019 18:00	1.5	1.3	0.0	0.0	2.4
09/10/2019 17:00	1.0	0.5	0.0	0.0	2.8
09/11/2019 08:00	1.6	5.0	0.0	0.0	2.1
09/11/2019 09:00	1.4	4.7	0.0	0.0	2.0
09/11/2019 10:00	1.5	5.1	0.0	0.0	1.8
09/11/2019 11:00	1.5	4.4	0.0	0.0	1.8
09/11/2019 12:00	1.4	1.4	0.0	0.0	2.0
09/12/2019 17:00	1.5	3.5	0.1	0.1	1.9
09/12/2019 18:00	1.5	4.1	0.0	0.0	1.9
09/12/2019 19:00	1.4	0.4	0.0	0.0	1.8
09/13/2019 13:00	1.4	4.3	0.0	0.1	1.7
09/13/2019 14:00	1.4	2.6	0.0	0.0	2.3
09/13/2019 16:00	1.0	0.8	0.0	0.0	2.2
09/13/2019 17:00	1.5	4.0	0.0	0.0	2.2
09/13/2019 18:00	1.5	3.3	0.0	0.0	2.3
09/13/2019 19:00	1.5	0.8	0.0	0.0	2.7
09/14/2019 12:00	1.6	2.5	0.1	0.1	2.3
09/14/2019 13:00	1.5	4.1	0.0	0.0	1.8
09/14/2019 15:00	1.4	3.3	0.0	0.0	2.0
09/14/2019 16:00	1.5	3.1	0.0	0.0	2.4
09/14/2019 17:00	1.5	4.3	0.0	0.0	2.1
09/14/2019 18:00	1.5	4.6	0.0	0.0	2.1
09/14/2019 19:00	1.4	1.7	0.0	0.0	2.3
09/15/2019 17:00	1.6	4.9	0.0	0.1	2.0
09/15/2019 18:00	1.4	4.6	0.0	0.0	1.6
09/15/2019 19:00	1.5	5.4	0.2	0.4	1.9
09/15/2019 20:00	1.5	5.2	0.2	0.5	1.9
09/15/2019 21:00	1.4	0.7	0.2	0.1	1.9
09/16/2019 10:00	1.4	1.8	0.2	0.2	2.5
09/16/2019 11:00	1.5	0.3	0.0	0.0	2.6
09/17/2019 08:00	1.6	2.5	0.1	0.2	2.1
09/17/2019 09:00	1.5	5.2	0.2	0.4	2.3
09/17/2019 10:00	1.4	4.7	0.2	0.4	2.0
09/17/2019 11:00	1.5	4.2	0.2	0.3	2.0
09/17/2019 13:00	1.4	1.2	0.5	0.3	2.1
09/17/2019 14:00	1.4	4.7	0.2	0.3	1.8
09/18/2019 12:00	1.5	2.0	0.1	0.1	2.3
09/18/2019 13:00	1.5	2.6	0.1	0.1	2.1
09/18/2019 16:00	1.5	3.4	0.2	0.3	2.3
09/18/2019 17:00	1.5	4.8	0.2	0.4	2.4
09/18/2019 18:00	1.5	5.3	0.3	0.5	2.1
09/18/2019 19:00	1.5	5.2	0.2	0.4	1.9
09/18/2019 20:00	1.5	4.9	0.2	0.4	1.9
09/18/2019 21:00	1.4	4.3	0.3	0.5	1.9

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
09/19/2019 05:00	1.7	1.3	0.0	0.0	2.2
09/19/2019 06:00	1.3	1.0	0.0	0.0	2.3
09/20/2019 08:00	1.5	0.7	0.1	0.0	2.3
09/20/2019 09:00	1.5	2.0	0.0	0.0	2.5
09/20/2019 10:00	1.5	1.8	0.0	0.0	2.5
09/20/2019 15:00	1.5	1.6	0.0	0.0	2.1
09/21/2019 16:00	1.4	1.4	0.0	0.0	2.0
09/21/2019 18:00	1.5	1.4	0.0	0.0	2.4
09/21/2019 19:00	1.5	0.3	0.0	0.0	2.4
09/22/2019 11:00	1.3	1.1	0.1	0.0	2.2
09/22/2019 12:00	1.6	0.4	0.0	0.0	2.4
09/22/2019 14:00	1.5	0.5	0.0	0.0	2.2
09/22/2019 15:00	1.5	2.0	0.0	0.0	2.4
09/22/2019 16:00	1.5	2.6	0.0	0.1	2.4
09/22/2019 17:00	1.5	2.8	0.0	0.1	2.4
09/22/2019 18:00	1.6	4.7	0.1	0.1	2.1
09/22/2019 19:00	1.2	1.0	0.0	0.0	2.6
09/23/2019 12:00	1.7	1.4	0.1	0.0	1.9
09/23/2019 13:00	1.4	2.3	0.0	0.0	2.4
09/23/2019 14:00	1.5	2.6	0.0	0.0	2.1
09/23/2019 15:00	1.5	3.1	0.0	0.0	2.0
09/23/2019 16:00	1.5	1.9	0.0	0.0	2.5
09/23/2019 17:00	1.5	1.8	0.0	0.0	2.6
09/23/2019 18:00	1.5	1.5	0.0	0.0	2.1
09/24/2019 06:00	1.6	1.6	0.0	0.0	2.1
09/24/2019 07:00	1.6	3.2	0.0	0.1	2.4
09/24/2019 08:00	1.4	2.2	0.0	0.0	2.3
09/24/2019 09:00	1.5	2.4	0.0	0.0	2.2
09/24/2019 10:00	1.5	2.8	0.1	0.1	2.2
09/24/2019 11:00	1.5	2.8	0.0	0.0	2.1
09/24/2019 12:00	1.5	2.7	0.0	0.0	2.1
09/24/2019 13:00	1.5	2.8	0.0	0.0	2.1
09/24/2019 14:00	1.6	3.7	0.0	0.0	2.0
09/24/2019 15:00	1.4	3.7	0.0	0.0	2.0
09/24/2019 16:00	1.5	2.8	0.0	0.0	1.8
09/24/2019 17:00	1.5	2.8	0.0	0.0	1.8
09/24/2019 18:00	1.5	2.0	0.0	0.0	2.0
09/24/2019 19:00	1.4	0.3	0.0	0.0	2.5
09/25/2019 07:00	1.6	2.8	0.0	0.1	1.9
09/25/2019 08:00	1.4	2.3	0.0	0.0	2.2
09/25/2019 09:00	1.9	0.7	0.0	0.0	2.4
09/25/2019 15:00	1.5	1.6	0.0	0.0	2.1
09/25/2019 16:00	1.6	2.0	0.0	0.0	2.6
09/25/2019 17:00	1.5	4.9	0.0	0.1	2.0
09/25/2019 18:00	1.4	2.7	0.0	0.0	2.1
09/25/2019 19:00	1.5	1.9	0.2	0.2	2.6
09/26/2019 08:00	1.5	2.6	0.0	0.0	2.3
09/26/2019 09:00	1.7	2.6	0.0	0.0	2.4
09/26/2019 10:00	1.4	4.0	0.0	0.0	1.8
09/26/2019 11:00	1.5	2.6	0.0	0.0	1.8
09/26/2019 12:00	1.5	3.0	0.0	0.1	2.2
09/26/2019 13:00	1.5	2.5	0.0	0.0	2.1
09/26/2019 14:00	1.6	0.4	0.0	0.0	2.5
09/26/2019 17:00	1.0	0.2	0.0	0.0	2.1
09/26/2019 18:00	1.6	2.5	0.0	0.0	2.2
09/26/2019 19:00	1.5	2.9	0.0	0.0	2.3
09/26/2019 20:00	1.5	1.3	0.0	0.0	2.5
09/27/2019 05:00	1.9	0.9	0.0	0.0	2.1
09/27/2019 06:00	1.5	3.8	0.0	0.0	1.7
09/27/2019 07:00	1.5	3.7	0.0	0.0	2.2
09/27/2019 08:00	1.5	3.0	0.0	0.0	2.1
09/27/2019 09:00	1.5	3.1	0.0	0.0	2.0
09/27/2019 10:00	1.5	2.1	0.0	0.0	2.4
09/27/2019 11:00	1.5	1.9	0.0	0.0	2.2
09/27/2019 12:00	1.5	2.0	0.0	0.0	1.9
09/27/2019 13:00	1.5	2.0	0.0	0.0	2.2
09/27/2019 18:00	1.5	1.2	0.0	0.0	1.8
09/30/2019 05:00	1.7	2.2	0.0	0.0	2.2
09/30/2019 06:00	1.4	2.2	0.2	0.2	2.0
09/30/2019 07:00	1.3	0.8	0.0	0.0	2.2
09/30/2019 09:00	1.3	1.5	0.1	0.1	1.8
09/30/2019 10:00	1.5	5.4	0.1	0.2	1.9

Period Start:	Average 8NOxCorOP1 ppm	Average 8NOX#OP1HR LBS	Average 8COCorOP1 ppm	Average 8CO#OP1HR LBS	Average 8NH3CorOP1 ppm
09/30/2019 11:00	1.5	5.4	0.1	0.2	1.7
09/30/2019 12:00	1.5	5.2	0.1	0.2	1.9
09/30/2019 13:00	1.5	0.8	0.0	0.0	2.1
Final Average*	1.4	2.7	0.1	0.1	2.4
Maximum*	1.9	5.5	2.9	5.9	4.6
	09/27/2019	08/09/2019	08/20/2019	08/20/2019	09/06/2019
	5:00	19:00	17:00	17:00	5:00
Minimum*	0.5	0.0	0.0	0.0	-5.6
	09/06/2019	08/11/2019	09/30/2019	09/30/2019	08/20/2019
	6:00	15:00	13:00	13:00	18:00

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

Average Values Report
Generated: 10/16/2019 06:53

Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 9

Period Start: 7/1/2019 00:00
Period End: 9/30/2019 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
07/04/2019 17:00	1.6	0.3	0.6	0.1	2.3
07/04/2019 18:00	1.5	3.0	0.6	0.8	2.6
07/04/2019 19:00	1.5	3.9	0.5	0.9	1.7
07/10/2019 17:00	1.7	0.4	0.6	0.1	2.3
07/10/2019 18:00	1.5	2.7	0.3	0.4	2.4
07/10/2019 19:00	1.5	0.3	0.3	0.0	2.4
07/11/2019 17:00	1.1	0.6	0.9	0.3	3.5
07/11/2019 18:00	1.4	3.8	0.6	1.0	1.9
07/11/2019 19:00	1.5	2.8	0.4	0.5	2.1
07/12/2019 17:00	1.5	1.7	0.3	0.2	2.5
07/12/2019 18:00	1.6	3.1	0.4	0.5	2.5
07/12/2019 19:00	1.4	2.6	0.4	0.5	2.3
07/15/2019 17:00	1.2	0.9	0.7	0.3	2.9
07/15/2019 18:00	1.5	2.5	0.7	0.9	2.7
07/18/2019 10:00	1.5	1.4	0.5	0.3	2.4
07/18/2019 11:00	1.5	2.2	0.5	0.5	2.5
07/18/2019 12:00	1.5	0.6	0.8	0.2	2.0
07/18/2019 17:00	1.2	1.0	0.9	0.5	3.3
07/18/2019 18:00	1.5	3.1	0.4	0.6	2.7
07/18/2019 19:00	1.6	3.3	0.4	0.5	2.9
07/18/2019 20:00	1.0	0.6	0.7	0.3	3.2
07/21/2019 17:00	1.5	3.6	0.9	1.3	3.0
07/21/2019 18:00	1.5	5.0	1.0	2.1	2.9
07/21/2019 19:00	1.5	2.3	0.4	0.4	2.4
07/21/2019 20:00	1.5	0.9	0.4	0.1	2.7
07/22/2019 15:00	1.3	0.9	0.5	0.2	2.6
07/22/2019 16:00	1.5	3.6	0.4	0.7	2.2
07/22/2019 17:00	1.5	3.5	0.6	1.1	2.9
07/22/2019 18:00	1.5	5.0	0.6	1.2	3.0
07/22/2019 19:00	1.5	3.1	0.4	0.7	2.7
07/22/2019 20:00	1.5	0.3	0.3	0.0	2.3
07/23/2019 11:00	1.6	1.6	0.3	0.2	2.8
07/23/2019 12:00	1.5	2.8	0.4	0.5	2.7
07/23/2019 13:00	1.5	3.1	0.4	0.5	2.6
07/23/2019 14:00	1.5	2.8	0.4	0.4	2.9
07/23/2019 15:00	1.5	1.9	0.4	0.3	2.3
07/23/2019 16:00	1.5	2.3	0.3	0.3	2.5
07/23/2019 17:00	1.5	2.6	0.5	0.8	2.6
07/23/2019 18:00	1.6	4.5	0.7	1.3	2.7
07/23/2019 19:00	1.4	3.5	0.5	0.8	2.9
07/23/2019 20:00	1.5	0.3	0.3	0.0	2.3
07/24/2019 10:00	1.4	4.4	0.5	0.9	2.8
07/24/2019 11:00	1.5	2.9	0.3	0.3	2.9
07/24/2019 12:00	1.4	4.3	0.4	0.8	2.5
07/24/2019 13:00	1.6	2.8	0.3	0.3	2.8
07/24/2019 14:00	1.5	2.6	0.3	0.3	2.6
07/24/2019 15:00	1.5	3.2	0.4	0.5	2.5
07/24/2019 16:00	1.4	4.1	0.4	0.7	2.0
07/24/2019 17:00	1.5	3.2	0.4	0.5	2.1
07/24/2019 18:00	1.5	3.1	0.5	0.6	1.9
07/25/2019 15:00	1.6	2.6	0.5	0.6	2.8
07/25/2019 16:00	1.4	4.4	0.4	0.8	2.6
07/25/2019 17:00	1.5	1.7	0.5	0.3	2.7
07/25/2019 18:00	1.5	0.8	0.2	0.1	2.2
08/01/2019 13:00	1.6	0.5	0.3	0.1	2.4
08/01/2019 14:00	1.5	1.9	0.3	0.2	2.4
08/01/2019 15:00	1.6	2.2	0.3	0.3	2.3
08/01/2019 16:00	1.4	3.1	0.5	0.8	2.4
08/01/2019 17:00	1.5	2.6	0.5	0.6	2.5
08/01/2019 18:00	1.5	4.7	0.6	1.2	2.9
08/01/2019 19:00	1.5	4.9	0.8	1.7	2.7
08/01/2019 20:00	1.5	3.5	0.5	0.8	2.3
08/02/2019 16:00	1.5	1.7	0.4	0.3	2.2

Period Start:	Average	Average	Average	Average	Average
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm
08/02/2019 17:00	1.5	3.1	0.5	0.6	2.6
08/02/2019 18:00	1.5	4.7	0.7	1.3	2.5
08/02/2019 19:00	1.4	2.1	0.5	0.5	2.5
08/03/2019 13:00	1.3	0.6	0.4	0.1	2.8
08/03/2019 14:00	1.7	2.6	0.4	0.4	2.7
08/03/2019 15:00	1.3	4.1	0.6	1.3	2.6
08/03/2019 16:00	1.5	3.2	0.4	0.6	2.9
08/03/2019 17:00	1.5	3.9	0.6	1.0	2.4
08/03/2019 18:00	1.5	3.3	0.9	1.2	2.6
08/03/2019 19:00	1.5	2.7	0.5	0.6	2.2
08/03/2019 20:00	1.5	1.4	0.6	0.4	2.7
08/04/2019 16:00	1.4	4.2	0.6	1.2	2.1
08/04/2019 17:00	1.5	4.7	0.5	1.0	2.7
08/04/2019 18:00	1.5	5.2	0.6	1.3	2.6
08/04/2019 19:00	1.5	4.9	0.7	1.4	2.5
08/04/2019 20:00	1.5	2.3	0.5	0.5	2.3
08/05/2019 13:00	1.5	2.4	0.7	0.8	2.6
08/05/2019 14:00	1.5	4.2	0.5	0.9	2.3
08/05/2019 15:00	1.5	4.6	0.5	1.0	2.6
08/05/2019 16:00	1.5	4.7	0.5	1.0	2.3
08/05/2019 17:00	1.5	4.5	0.6	1.1	2.0
08/05/2019 18:00	1.5	4.2	0.5	1.0	2.5
08/05/2019 19:00	1.6	2.3	0.5	0.7	2.4
08/05/2019 20:00	1.4	3.5	0.6	1.0	2.3
08/06/2019 13:00	1.6	3.3	0.7	0.9	2.5
08/06/2019 14:00	1.4	4.6	0.6	1.2	2.7
08/06/2019 15:00	1.5	3.1	0.9	1.5	3.2
08/06/2019 16:00	1.4	4.3	0.7	1.4	2.3
08/06/2019 17:00	1.6	4.6	0.6	1.3	2.6
08/06/2019 18:00	1.5	4.8	0.7	1.5	2.3
08/06/2019 19:00	1.5	1.5	0.6	0.4	2.1
08/07/2019 16:00	1.6	1.8	0.0	0.0	2.7
08/07/2019 17:00	1.5	3.7	0.1	0.3	3.0
08/07/2019 18:00	1.5	4.9	0.2	0.4	2.4
08/07/2019 19:00	1.5	1.6	0.2	0.2	2.2
08/09/2019 16:00	1.4	1.0	1.0	0.4	2.7
08/09/2019 17:00	1.5	5.5	0.2	0.5	3.0
08/09/2019 18:00	1.5	5.3	0.3	0.7	3.0
08/09/2019 19:00	1.5	5.4	0.3	0.7	3.0
08/09/2019 20:00	1.5	5.4	0.3	0.7	2.9
08/09/2019 21:00	1.4	2.0	0.4	0.3	2.8
08/10/2019 18:00	1.3	1.1	0.3	0.2	2.6
08/10/2019 19:00	1.5	4.2	0.2	0.4	2.4
08/10/2019 20:00	1.6	0.3	0.0	0.0	2.3
08/11/2019 15:00	1.6	0.5	0.0	0.0	2.4
08/11/2019 16:00	1.5	1.2	0.1	0.1	2.4
08/11/2019 17:00	1.5	3.2	0.3	0.6	3.0
08/11/2019 18:00	1.5	5.0	0.2	0.5	2.4
08/11/2019 19:00	1.5	3.0	0.1	0.2	2.1
08/11/2019 20:00	1.5	0.4	0.0	0.0	2.6
08/12/2019 17:00	1.3	2.2	0.4	0.4	2.9
08/12/2019 18:00	1.5	3.7	0.2	0.4	2.4
08/12/2019 19:00	1.5	0.8	0.0	0.0	2.9
08/13/2019 16:00	1.6	5.3	0.1	0.3	2.7
08/13/2019 17:00	1.4	4.4	0.2	0.4	3.0
08/13/2019 18:00	1.5	5.3	0.3	0.7	2.5
08/13/2019 19:00	1.6	3.5	0.2	0.3	2.4
08/13/2019 20:00	1.5	1.4	0.1	0.1	2.9
08/14/2019 18:00	1.6	4.6	0.2	0.3	2.5
08/14/2019 19:00	1.4	4.7	0.3	0.7	2.7
08/14/2019 20:00	1.5	0.9	0.2	0.1	2.3
08/15/2019 12:00	1.5	2.0	0.0	0.0	2.3
08/15/2019 13:00	1.5	1.2	0.1	0.1	3.0
08/15/2019 16:00	1.1	0.8	0.0	0.0	2.7
08/15/2019 17:00	1.6	3.4	0.1	0.3	2.8
08/15/2019 18:00	1.5	4.8	0.0	0.1	3.0
08/15/2019 19:00	1.5	2.0	0.1	0.1	2.9
08/17/2019 18:00	1.5	2.8	0.1	0.1	2.4
08/17/2019 19:00	1.6	1.4	0.0	0.0	2.3
08/18/2019 17:00	1.5	2.7	0.1	0.1	2.8
08/18/2019 18:00	1.5	5.3	0.2	0.5	3.1
08/18/2019 19:00	1.5	2.3	0.0	0.0	2.2

Period Start:	Average	Average	Average	Average	Average
	9NOxCorOP1 ppm	9NOx#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm
08/18/2019 20:00	1.5	0.3	0.0	0.0	2.3
08/19/2019 17:00	1.6	4.1	0.2	0.5	2.8
08/19/2019 18:00	1.5	3.6	0.1	0.2	2.7
08/19/2019 19:00	1.5	0.8	0.0	0.0	2.2
08/20/2019 17:00	1.5	2.4	0.3	0.3	2.8
08/20/2019 18:00	1.5	3.4	0.2	0.3	3.0
08/20/2019 19:00	1.5	0.8	0.0	0.0	2.1
08/21/2019 13:00	1.2	0.9	0.1	0.0	3.1
08/21/2019 14:00	1.8	0.2	0.5	0.0	2.6
08/21/2019 15:00	1.3	0.9	0.0	0.0	2.8
08/21/2019 16:00	1.5	5.4	0.0	0.0	3.1
08/21/2019 17:00	1.5	5.4	0.1	0.1	3.2
08/21/2019 18:00	1.5	2.5	0.0	0.1	3.4
08/21/2019 19:00	1.5	0.3	0.0	0.0	3.8
08/23/2019 05:00	1.6	1.9	0.0	0.0	3.2
08/23/2019 06:00	1.0	0.5	0.1	0.0	3.8
08/23/2019 14:00	1.4	1.1	0.0	0.0	2.9
08/23/2019 15:00	1.5	4.3	0.0	0.1	3.1
08/23/2019 16:00	1.5	4.7	0.2	0.3	3.1
08/23/2019 17:00	1.5	5.2	0.1	0.3	3.1
08/23/2019 18:00	1.5	5.1	0.2	0.3	3.1
08/23/2019 19:00	1.6	0.9	0.0	0.0	3.5
08/24/2019 17:00	1.5	3.9	0.1	0.2	3.0
08/24/2019 18:00	1.5	5.2	0.2	0.5	3.0
08/24/2019 19:00	1.5	5.2	0.3	0.5	3.0
08/24/2019 20:00	1.4	0.8	0.2	0.1	2.7
08/25/2019 13:00	2.2	0.4	0.3	0.0	3.2
08/25/2019 14:00	1.5	2.5	0.3	0.4	3.7
08/25/2019 15:00	1.5	4.3	0.1	0.2	3.1
08/25/2019 16:00	1.5	5.1	0.1	0.2	2.9
08/25/2019 17:00	1.5	5.1	0.1	0.3	3.0
08/25/2019 18:00	1.5	5.4	0.1	0.2	3.2
08/25/2019 19:00	1.6	4.8	0.2	0.4	3.2
08/25/2019 20:00	1.3	1.7	0.1	0.1	3.1
08/26/2019 15:00	1.5	1.9	0.0	0.0	3.6
08/26/2019 16:00	1.6	3.5	0.2	0.3	3.5
08/26/2019 17:00	1.4	4.8	0.1	0.2	3.2
08/26/2019 18:00	1.5	4.6	0.1	0.3	3.7
08/26/2019 19:00	1.5	2.7	0.2	0.2	4.0
08/27/2019 14:00	1.4	1.0	0.0	0.0	3.0
08/27/2019 15:00	1.5	3.1	0.1	0.3	3.2
08/27/2019 16:00	1.4	5.0	0.0	0.0	3.3
08/27/2019 17:00	1.5	4.7	0.1	0.2	3.1
08/27/2019 18:00	1.5	2.7	0.0	0.0	3.4
08/27/2019 19:00	1.5	0.8	0.0	0.0	3.8
08/28/2019 18:00	1.5	0.6	0.1	0.0	2.9
08/29/2019 11:00	1.6	1.3	0.0	0.0	2.9
08/29/2019 12:00	1.5	2.7	0.0	0.0	3.3
08/29/2019 14:00	1.5	2.5	0.0	0.0	2.8
08/29/2019 15:00	1.5	4.6	0.0	0.0	3.0
08/29/2019 16:00	1.5	4.6	0.0	0.0	3.1
08/29/2019 17:00	1.5	4.7	0.0	0.1	3.3
08/29/2019 18:00	1.5	3.7	0.0	0.1	2.8
08/29/2019 19:00	1.5	1.5	0.1	0.1	3.4
08/30/2019 08:00	1.6	3.4	0.2	0.3	3.8
08/30/2019 09:00	1.5	5.1	0.0	0.0	3.2
08/30/2019 10:00	1.5	5.1	0.0	0.0	3.3
08/30/2019 11:00	1.5	5.2	0.0	0.0	3.4
08/30/2019 12:00	1.5	5.3	0.0	0.0	3.4
08/30/2019 13:00	1.4	4.9	0.0	0.0	3.4
08/30/2019 14:00	1.5	4.0	0.0	0.1	3.1
08/30/2019 15:00	1.5	4.1	0.0	0.0	3.0
08/30/2019 16:00	1.6	2.4	0.2	0.2	3.3
08/30/2019 17:00	1.4	4.4	0.1	0.1	3.0
08/30/2019 18:00	1.5	3.2	0.0	0.0	3.2
08/30/2019 19:00	1.5	0.3	0.0	0.0	3.7
08/31/2019 11:00	1.5	3.4	0.0	0.0	2.8
08/31/2019 12:00	1.5	5.0	0.0	0.0	3.0
08/31/2019 13:00	1.5	4.6	0.0	0.0	3.0
08/31/2019 17:00	1.4	1.1	0.0	0.0	2.8
08/31/2019 18:00	1.5	1.8	0.0	0.0	3.3
09/01/2019 15:00	1.6	0.5	0.0	0.0	2.8

Period Start:	Average	Average	Average	Average	Average
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm
09/01/2019 16:00	1.5	2.6	0.1	0.3	3.5
09/01/2019 17:00	1.5	4.0	0.0	0.1	3.1
09/01/2019 18:00	1.5	2.2	0.0	0.0	3.0
09/02/2019 11:00	1.2	0.5	0.0	0.0	2.9
09/02/2019 12:00	1.5	2.4	0.0	0.0	3.5
09/02/2019 13:00	1.5	4.1	0.0	0.0	3.3
09/02/2019 14:00	1.5	4.3	0.0	0.0	3.2
09/02/2019 15:00	1.4	4.5	0.0	0.0	3.1
09/02/2019 16:00	1.5	2.6	0.1	0.1	3.8
09/02/2019 17:00	1.5	4.7	0.1	0.1	2.9
09/02/2019 18:00	1.7	2.5	0.1	0.1	3.3
09/02/2019 19:00	1.4	2.0	0.1	0.2	3.8
09/03/2019 11:00	1.5	3.8	0.8	1.2	3.0
09/03/2019 12:00	1.5	5.2	0.4	0.8	3.0
09/03/2019 13:00	1.5	5.0	0.1	0.1	3.2
09/03/2019 14:00	1.5	5.1	0.0	0.0	3.0
09/03/2019 15:00	1.5	5.0	0.1	0.2	3.0
09/03/2019 16:00	1.5	5.2	1.2	2.5	3.2
09/03/2019 17:00	1.5	5.2	1.4	3.0	3.4
09/03/2019 18:00	1.5	2.7	1.4	1.4	3.5
09/03/2019 19:00	1.5	2.5	1.7	1.7	3.4
09/03/2019 20:00	1.5	3.2	1.3	1.8	2.7
09/03/2019 21:00	1.5	2.6	1.5	1.6	3.2
09/03/2019 22:00	1.5	0.3	1.8	0.2	3.5
09/04/2019 08:00	1.5	1.9	1.3	1.0	3.7
09/04/2019 09:00	1.5	3.1	1.2	1.5	4.2
09/04/2019 10:00	1.5	4.7	0.7	1.2	3.3
09/04/2019 11:00	1.5	4.2	0.5	1.0	3.1
09/04/2019 12:00	1.5	2.6	0.5	0.5	3.1
09/04/2019 13:00	1.5	4.9	0.6	1.2	3.1
09/04/2019 14:00	1.5	4.7	0.5	1.0	3.2
09/04/2019 15:00	1.6	3.8	0.5	0.7	3.8
09/04/2019 16:00	1.5	4.8	0.4	0.9	3.1
09/04/2019 17:00	1.5	5.1	0.4	0.8	3.0
09/04/2019 18:00	1.5	4.8	0.4	0.8	2.8
09/04/2019 19:00	1.5	4.9	0.5	1.0	3.2
09/04/2019 20:00	1.5	3.6	0.6	0.9	3.3
09/05/2019 10:00	1.6	4.7	0.0	0.0	3.4
09/05/2019 11:00	1.5	4.2	0.0	0.0	3.8
09/05/2019 12:00	1.5	4.9	0.0	0.0	3.5
09/05/2019 13:00	1.5	4.8	0.0	0.0	3.4
09/05/2019 14:00	1.5	4.9	0.0	0.0	3.3
09/05/2019 15:00	1.5	4.7	0.0	0.0	3.3
09/05/2019 16:00	1.5	4.6	0.0	0.0	3.3
09/05/2019 17:00	1.5	5.0	0.0	0.0	3.2
09/05/2019 18:00	1.4	4.6	0.0	0.0	3.6
09/05/2019 19:00	1.5	2.8	0.0	0.0	3.5
09/05/2019 20:00	1.6	2.7	0.2	0.3	3.5
09/05/2019 21:00	1.5	4.0	0.0	0.0	3.6
09/05/2019 22:00	1.4	1.6	0.0	0.0	3.6
09/06/2019 13:00	1.5	1.2	0.1	0.1	3.8
09/06/2019 14:00	1.5	4.1	0.0	0.0	3.2
09/06/2019 15:00	1.5	2.4	0.0	0.0	2.6
09/06/2019 16:00	1.4	1.8	0.0	0.0	3.1
09/06/2019 17:00	1.5	3.7	0.0	0.1	2.9
09/06/2019 18:00	1.6	0.8	0.0	0.0	3.9
09/07/2019 14:00	1.5	4.0	0.0	0.0	2.5
09/07/2019 15:00	1.5	4.8	0.0	0.0	2.5
09/07/2019 16:00	1.5	4.5	0.0	0.0	2.6
09/07/2019 17:00	1.5	4.1	0.1	0.1	3.0
09/07/2019 18:00	1.5	4.4	0.1	0.1	2.4
09/07/2019 19:00	1.5	1.4	0.0	0.0	2.5
09/08/2019 18:00	1.6	0.5	0.0	0.0	2.5
09/08/2019 19:00	1.5	0.8	0.0	0.0	2.7
09/09/2019 18:00	1.6	1.3	0.0	0.0	3.1
09/10/2019 19:00	1.6	1.0	0.3	0.2	2.9
09/11/2019 09:00	1.5	4.2	0.0	0.1	2.7
09/11/2019 10:00	1.5	5.0	0.0	0.0	2.9
09/11/2019 11:00	1.5	4.4	0.0	0.0	2.6
09/11/2019 12:00	1.5	4.0	0.0	0.1	2.5
09/11/2019 13:00	1.5	4.3	0.0	0.0	2.7
09/11/2019 14:00	1.6	0.6	0.0	0.0	2.3

Period Start:	Average	Average	Average	Average	Average
	9NOxCorOP1 ppm	9NOX#OP1HR LBS	9COCorOP1 ppm	9CO#OP1HR LBS	9NH3CorOP1 ppm
09/12/2019 17:00	1.6	3.7	0.1	0.2	2.8
09/12/2019 18:00	1.4	3.9	0.0	0.1	2.8
09/12/2019 19:00	1.5	0.4	0.0	0.0	2.3
09/13/2019 16:00	1.2	0.8	0.0	0.0	2.2
09/13/2019 17:00	1.6	3.9	0.1	0.2	2.8
09/13/2019 18:00	1.5	3.3	0.0	0.0	2.6
09/13/2019 19:00	1.5	0.8	0.0	0.0	2.2
09/14/2019 13:00	1.5	3.4	0.0	0.0	2.5
09/14/2019 15:00	1.4	3.2	0.0	0.0	2.6
09/14/2019 16:00	1.5	2.3	0.2	0.3	3.3
09/14/2019 17:00	1.5	4.1	0.1	0.1	2.8
09/14/2019 18:00	1.5	4.7	0.0	0.1	2.9
09/14/2019 19:00	1.5	1.6	0.3	0.3	2.9
09/15/2019 18:00	1.5	3.6	0.0	0.0	2.1
09/15/2019 19:00	1.5	5.5	0.0	0.0	2.5
09/15/2019 20:00	1.5	5.4	0.0	0.0	2.5
09/15/2019 21:00	1.4	0.7	0.0	0.0	2.5
09/16/2019 12:00	1.6	2.3	0.0	0.0	2.3
09/16/2019 13:00	1.5	4.6	0.0	0.0	2.5
09/16/2019 14:00	1.6	2.0	0.0	0.0	3.5
09/16/2019 15:00	1.5	1.2	0.0	0.0	3.6
09/17/2019 10:00	1.5	4.3	0.0	0.0	2.7
09/17/2019 11:00	1.5	4.2	0.0	0.0	2.5
09/18/2019 12:00	1.6	2.1	0.0	0.0	2.9
09/18/2019 13:00	1.5	2.6	0.0	0.0	2.6
09/18/2019 17:00	1.3	0.2	0.0	0.0	2.7
09/18/2019 18:00	1.5	4.9	0.1	0.1	2.8
09/18/2019 19:00	1.5	5.3	0.0	0.0	2.7
09/18/2019 20:00	1.5	4.9	0.1	0.1	2.6
09/18/2019 21:00	1.4	4.6	0.0	0.0	2.5
09/19/2019 05:00	1.7	1.3	0.0	0.0	2.6
09/19/2019 06:00	1.3	0.9	0.0	0.0	3.0
09/19/2019 15:00	1.5	0.5	0.0	0.0	2.3
09/19/2019 16:00	1.6	4.2	0.1	0.1	3.7
09/20/2019 08:00	1.5	1.5	0.0	0.0	3.2
09/20/2019 09:00	1.5	2.0	0.0	0.0	3.4
09/20/2019 10:00	1.5	1.8	0.0	0.0	3.4
09/21/2019 16:00	1.5	1.5	0.0	0.0	2.6
09/21/2019 18:00	1.5	1.3	0.0	0.0	2.6
09/21/2019 19:00	1.5	0.3	0.0	0.0	2.6
09/22/2019 15:00	1.5	1.9	0.0	0.0	3.3
09/22/2019 16:00	1.5	2.5	0.0	0.0	3.1
09/22/2019 17:00	1.5	2.7	0.2	0.3	2.9
09/22/2019 18:00	1.6	4.5	0.1	0.3	2.5
09/22/2019 19:00	1.4	1.1	0.1	0.1	2.9
09/23/2019 13:00	1.6	1.2	0.0	0.0	2.5
09/23/2019 14:00	1.5	2.6	0.0	0.0	2.8
09/23/2019 15:00	1.5	3.1	0.0	0.0	2.4
09/23/2019 16:00	1.6	2.0	0.0	0.0	3.5
09/23/2019 17:00	1.5	1.9	0.0	0.0	3.7
09/23/2019 18:00	1.5	1.5	0.0	0.0	3.2
09/24/2019 08:00	1.5	1.8	0.0	0.0	2.4
09/24/2019 09:00	1.5	2.4	0.0	0.0	2.9
09/24/2019 10:00	1.5	2.9	0.0	0.1	3.1
09/24/2019 11:00	1.5	2.7	0.0	0.0	2.9
09/24/2019 12:00	1.5	2.7	0.0	0.0	2.8
09/24/2019 13:00	1.5	2.8	0.0	0.0	2.7
09/24/2019 14:00	1.5	3.6	0.1	0.2	2.7
09/24/2019 15:00	1.4	2.4	0.1	0.1	2.5
09/24/2019 16:00	1.5	3.0	0.0	0.0	2.8
09/24/2019 17:00	1.5	2.8	0.0	0.0	2.3
09/24/2019 18:00	1.5	3.1	0.0	0.0	2.1
09/24/2019 19:00	1.6	0.4	0.0	0.0	2.9
09/25/2019 08:00	1.5	1.2	0.0	0.0	2.8
09/25/2019 09:00	1.5	2.4	0.0	0.0	3.2
09/25/2019 10:00	1.5	2.1	0.0	0.0	3.5
09/25/2019 11:00	1.4	3.4	0.0	0.0	2.7
09/25/2019 12:00	1.5	2.9	0.0	0.0	2.9
09/25/2019 13:00	1.5	1.8	0.0	0.0	3.7
09/25/2019 15:00	1.9	1.8	0.0	0.0	3.5
09/25/2019 16:00	1.5	1.9	0.0	0.0	3.2
09/25/2019 17:00	1.5	4.8	0.1	0.2	2.8

Period Start:	Average 9NOxCorOP1 ppm	Average 9NOX#OP1HR LBS	Average 9COCorOP1 ppm	Average 9CO#OP1HR LBS	Average 9NH3CorOP1 ppm
09/25/2019 18:00	1.5	2.7	0.0	0.0	2.6
09/25/2019 19:00	1.3	1.7	0.4	0.3	3.3
09/26/2019 13:00	1.5	2.2	0.0	0.0	2.6
09/26/2019 14:00	1.5	3.6	0.0	0.0	3.0
09/26/2019 15:00	1.5	2.5	0.1	0.1	2.9
09/26/2019 16:00	1.5	3.5	0.1	0.1	3.0
09/26/2019 17:00	1.5	3.7	0.0	0.0	2.7
09/26/2019 18:00	1.5	2.3	0.0	0.0	3.4
09/26/2019 19:00	1.4	2.1	0.0	0.0	2.7
09/27/2019 08:00	1.5	3.0	0.0	0.0	2.4
09/27/2019 09:00	1.5	3.1	0.0	0.0	2.5
09/27/2019 10:00	1.6	2.2	0.0	0.0	3.0
09/27/2019 11:00	1.5	1.9	0.0	0.0	3.5
09/27/2019 12:00	1.5	1.8	0.0	0.0	3.5
09/27/2019 13:00	1.6	2.2	0.0	0.0	3.4
09/27/2019 14:00	1.4	2.8	0.0	0.0	3.0
09/27/2019 15:00	1.6	2.3	0.0	0.0	3.4
09/27/2019 16:00	1.4	3.7	0.0	0.0	2.5
09/30/2019 09:00	1.2	1.3	0.1	0.0	3.1
09/30/2019 10:00	1.5	5.4	0.0	0.0	2.8
09/30/2019 11:00	1.5	5.3	0.0	0.0	2.8
09/30/2019 12:00	1.5	3.4	0.1	0.1	2.9
09/30/2019 13:00	1.6	0.9	0.0	0.0	3.2
Final Average*	1.5	3.0	0.2	0.3	2.9
Maximum*	2.2	5.5	1.8	3.0	4.2
	08/25/2019 13:00	09/15/2019 19:00	09/03/2019 22:00	09/03/2019 17:00	09/04/2019 9:00
Minimum*	1.0	0.2	0.0	0.0	1.7
	08/23/2019 6:00	09/18/2019 17:00	09/30/2019 13:00	09/30/2019 13:00	07/04/2019 19:00

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

Average Values Report
Generated: 10/16/2019 06:50

Company: NRG Carlsbad
Plant: 4600 Carlsbad Blvd
City/St: Carlsbad, CA 92008
Source: 10

Period Start: 7/1/2019 00:00
Period End: 9/30/2019 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCOrOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm
07/04/2019 17:00	1.9	0.3	2.9	0.3	3.0
07/04/2019 18:00	1.7	5.7	2.0	4.4	3.5
07/04/2019 19:00	1.4	2.2	0.3	0.3	2.7
07/12/2019 15:00	1.5	2.1	0.8	0.9	3.3
07/12/2019 16:00	1.5	2.2	0.4	0.4	2.9
07/12/2019 17:00	1.5	2.9	0.8	1.2	2.7
07/12/2019 18:00	1.5	2.1	0.4	0.3	2.5
07/12/2019 19:00	1.5	2.0	0.4	0.3	2.1
07/18/2019 18:00	1.8	2.4	1.4	1.3	3.3
07/18/2019 19:00	1.3	1.6	1.8	1.5	4.0
07/21/2019 16:00	1.7	3.6	1.4	2.6	2.9
07/21/2019 17:00	1.8	6.2	2.7	5.9	3.5
07/21/2019 18:00	1.9	6.9	3.1	6.8	3.0
07/21/2019 19:00	1.0	0.8	0.5	0.2	4.1
07/22/2019 12:00	1.5	1.9	1.2	1.2	3.3
07/22/2019 13:00	1.4	2.2	0.5	0.5	3.0
07/22/2019 14:00	1.5	2.6	0.6	0.7	3.1
07/22/2019 15:00	1.5	2.1	0.5	0.5	2.8
07/22/2019 16:00	1.6	4.5	1.8	3.4	3.5
07/22/2019 17:00	1.6	3.4	1.1	2.0	3.0
07/22/2019 18:00	1.8	6.8	2.5	5.5	3.0
07/22/2019 19:00	1.3	2.6	0.8	1.2	3.5
07/22/2019 20:00	1.4	0.4	0.5	0.1	2.6
07/23/2019 13:00	1.7	2.1	1.4	1.2	3.4
07/23/2019 14:00	1.5	4.3	1.6	3.1	3.6
07/23/2019 15:00	1.4	2.1	0.5	0.5	3.3
07/23/2019 16:00	1.5	1.4	0.5	0.3	3.0
07/23/2019 17:00	1.6	3.0	1.0	1.5	3.2
07/23/2019 18:00	1.4	2.7	0.7	0.9	3.3
07/23/2019 19:00	1.4	2.0	0.5	0.4	3.1
07/24/2019 10:00	1.4	3.7	1.7	3.1	3.2
07/24/2019 11:00	1.5	5.3	2.4	5.1	3.5
07/24/2019 12:00	1.4	5.1	2.1	4.4	3.6
07/24/2019 13:00	1.5	2.1	0.5	0.4	3.2
07/24/2019 14:00	1.5	2.4	0.5	0.5	3.2
07/24/2019 15:00	1.6	3.0	0.8	1.0	3.2
07/24/2019 16:00	1.5	5.3	2.3	4.9	3.6
07/24/2019 17:00	1.4	1.8	0.5	0.4	3.3
07/25/2019 15:00	1.7	1.3	2.4	1.1	3.2
07/25/2019 16:00	1.7	5.7	2.2	4.6	3.8
07/25/2019 17:00	1.3	2.0	0.5	0.5	3.2
07/25/2019 18:00	1.5	0.4	0.5	0.1	3.2
07/31/2019 11:00	1.3	0.9	0.5	0.2	2.9
07/31/2019 12:00	1.5	0.4	0.5	0.1	2.1
08/01/2019 17:00	1.5	1.5	0.5	0.3	2.8
08/01/2019 18:00	1.7	4.8	1.9	3.8	3.5
08/01/2019 19:00	1.7	2.7	2.7	2.7	3.6
08/02/2019 17:00	1.2	0.8	2.7	1.2	4.8
08/02/2019 18:00	1.5	2.0	1.4	1.2	3.9
08/03/2019 13:00	1.8	1.0	2.7	0.9	3.3
08/03/2019 14:00	1.7	5.9	2.8	6.1	3.5
08/03/2019 15:00	1.6	5.4	2.2	4.8	4.0
08/03/2019 16:00	1.3	1.9	0.5	0.4	3.1
08/03/2019 17:00	1.6	3.6	1.3	2.2	2.9
08/03/2019 18:00	1.8	6.4	2.9	6.3	3.0
08/03/2019 19:00	1.2	1.7	1.5	1.3	4.4
08/04/2019 15:00	1.4	0.5	0.5	0.1	2.8
08/04/2019 16:00	1.5	2.0	0.5	0.4	2.3
08/04/2019 17:00	1.9	5.3	2.0	4.1	2.8
08/04/2019 18:00	2.0	7.0	2.6	5.7	3.0
08/04/2019 19:00	1.7	5.7	2.4	5.1	3.7
08/04/2019 20:00	0.9	0.3	0.4	0.1	5.2 Under 16min shutdown hour
08/05/2019 01:00	1.5	1.1	0.3	0.2	2.7

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCoOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm
08/05/2019 02:00	1.5	2.1	0.4	0.3	2.3
08/05/2019 03:00	1.5	1.3	0.4	0.2	2.7
08/05/2019 04:00	1.5	4.1	2.2	4.0	3.0
08/05/2019 05:00	1.5	2.7	1.7	2.3	3.1
08/05/2019 15:00	1.5	3.5	2.2	3.4	3.4
08/05/2019 16:00	1.4	4.3	1.2	2.4	3.2
08/05/2019 17:00	1.7	5.7	2.1	4.5	3.3
08/05/2019 18:00	1.5	3.9	1.4	2.5	3.5
08/06/2019 14:00	1.6	3.9	2.2	3.4	3.7
08/06/2019 15:00	1.4	2.5	0.4	0.6	3.7
08/06/2019 16:00	1.6	4.7	1.9	3.9	3.5
08/06/2019 17:00	1.7	5.5	1.9	4.1	3.2
08/06/2019 18:00	1.5	3.1	0.6	1.0	3.6
08/06/2019 19:00	1.3	1.5	1.3	1.1	4.3
08/09/2019 17:00	1.7	1.5	2.6	1.4	3.1
08/09/2019 18:00	1.9	6.9	2.4	5.2	3.0
08/09/2019 19:00	1.9	6.9	2.3	5.1	3.0
08/09/2019 20:00	1.9	2.9	2.3	2.2	3.1
08/11/2019 17:00	2.3	0.3	1.4	0.1	3.1
08/11/2019 18:00	1.6	4.8	2.3	4.1	3.5
08/11/2019 19:00	0.8	0.2	0.3	0.0	4.0
08/13/2019 15:00	1.6	1.3	2.8	1.3	3.0
08/13/2019 16:00	1.5	4.4	2.1	4.3	3.4
08/13/2019 17:00	1.7	6.2	2.7	5.8	2.9
08/13/2019 18:00	1.8	6.5	2.4	5.1	2.7
08/13/2019 19:00	1.7	3.3	0.8	1.3	3.0
08/13/2019 20:00	1.5	1.2	0.5	0.3	3.5
08/14/2019 17:00	1.7	0.9	3.0	0.9	3.0
08/14/2019 18:00	1.7	5.1	1.6	3.1	3.4
08/14/2019 19:00	1.5	3.5	1.8	2.7	2.8
08/18/2019 17:00	1.6	1.4	2.8	1.4	3.1
08/18/2019 18:00	1.6	5.8	2.6	5.6	3.1
08/18/2019 19:00	1.2	1.2	0.4	0.3	3.5
08/20/2019 17:00	1.7	4.4	1.4	2.8	3.1
08/20/2019 18:00	1.5	4.3	1.5	3.1	3.6
08/20/2019 19:00	1.5	0.4	0.4	0.1	2.8
08/21/2019 15:00	1.6	4.1	2.8	4.2	3.3
08/21/2019 16:00	2.0	5.5	2.2	3.9	3.2
08/24/2019 16:00	1.5	1.3	3.4	1.7	3.9
08/24/2019 17:00	1.6	5.5	2.1	4.6	3.9
08/24/2019 18:00	1.8	5.9	2.1	4.5	3.3
08/24/2019 19:00	1.9	6.9	2.5	5.4	3.1
08/24/2019 20:00	1.3	0.8	1.6	0.6	4.9
08/25/2019 16:00	1.7	1.2	2.5	1.1	3.4
08/25/2019 17:00	1.7	5.8	2.2	4.8	3.3
08/25/2019 18:00	1.8	6.8	2.0	4.4	3.2
08/25/2019 19:00	1.7	5.6	1.6	3.3	3.8
08/25/2019 20:00	1.4	0.7	1.7	0.5	4.9
08/26/2019 16:00	1.4	1.1	2.0	0.9	3.6
08/26/2019 17:00	1.8	5.8	2.0	4.4	3.3
08/26/2019 18:00	1.4	3.2	0.5	1.1	3.8
08/26/2019 19:00	1.4	0.9	0.0	0.0	3.1
08/27/2019 16:00	1.8	4.2	2.3	3.7	3.3
08/27/2019 17:00	1.7	5.9	1.9	4.0	3.6
08/27/2019 18:00	1.3	2.8	0.5	1.0	3.9
08/27/2019 19:00	1.5	0.4	0.2	0.0	3.3
08/29/2019 14:00	1.9	1.2	0.3	0.2	2.8
08/29/2019 15:00	1.4	4.2	1.4	2.8	3.7
08/29/2019 16:00	1.5	2.9	0.2	0.4	3.5
08/29/2019 17:00	1.7	5.0	1.2	2.5	3.6
08/29/2019 18:00	1.8	3.4	0.2	0.3	2.5
08/29/2019 19:00	1.3	0.8	1.4	0.5	3.7
08/30/2019 08:00	1.6	1.1	1.1	0.5	3.7
08/30/2019 09:00	1.7	5.7	1.8	3.8	3.3
08/30/2019 10:00	1.6	5.7	1.3	2.8	3.3
08/30/2019 11:00	1.5	5.7	1.7	3.7	3.5
08/30/2019 12:00	1.6	5.7	1.6	3.3	3.4
08/30/2019 13:00	1.4	5.0	1.5	2.9	3.7
08/30/2019 17:00	1.8	6.3	1.4	2.9	3.2
08/30/2019 18:00	1.3	2.4	0.2	0.4	3.9
09/01/2019 16:00	1.0	0.7	1.9	0.9	4.3
09/01/2019 17:00	1.6	4.6	1.3	2.7	3.2

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCoOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm
09/01/2019 18:00	1.3	2.1	0.8	1.1	3.8
09/02/2019 16:00	1.6	1.7	0.3	0.3	3.2
09/02/2019 17:00	1.6	5.1	1.7	3.5	3.6
09/02/2019 18:00	1.4	2.7	0.1	0.1	3.3
09/02/2019 19:00	1.4	2.1	0.7	0.9	3.4
09/03/2019 11:00	1.7	5.7	1.6	3.3	3.6
09/03/2019 12:00	1.5	5.4	1.3	2.7	3.5
09/03/2019 13:00	1.4	4.5	1.2	2.5	3.8
09/03/2019 14:00	1.5	5.4	1.2	2.5	3.5
09/03/2019 15:00	1.5	5.6	1.5	3.1	3.5
09/03/2019 16:00	1.5	5.7	1.4	2.9	3.4
09/03/2019 17:00	1.6	5.7	1.4	3.0	3.4
09/03/2019 18:00	1.3	2.6	0.3	0.5	3.8
09/03/2019 19:00	1.6	3.0	0.1	0.2	3.4
09/03/2019 20:00	1.5	4.3	1.4	2.7	3.8
09/04/2019 08:00	1.4	0.3	0.0	0.0	2.6
09/04/2019 09:00	1.8	0.6	0.0	0.0	4.4
09/04/2019 10:00	1.7	2.8	1.2	1.2	3.5
09/04/2019 11:00	1.7	5.6	1.0	2.1	3.5
09/04/2019 12:00	1.6	5.6	1.1	2.3	3.6
09/04/2019 13:00	1.6	5.6	1.1	2.2	3.6
09/04/2019 14:00	1.5	5.2	0.8	1.7	4.0
09/04/2019 15:00	1.6	4.3	0.7	1.4	3.8
09/04/2019 16:00	1.7	5.7	1.2	2.5	3.5
09/04/2019 17:00	1.6	5.7	1.3	2.6	3.6
09/04/2019 18:00	1.4	4.0	0.8	1.7	4.0
09/04/2019 19:00	1.7	5.2	1.2	2.4	3.8
09/04/2019 20:00	1.5	4.4	0.6	1.2	3.4
09/04/2019 21:00	1.2	0.8	0.9	0.3	4.4
09/05/2019 10:00	1.6	1.3	1.4	0.7	3.5
09/05/2019 11:00	1.5	3.3	0.2	0.4	4.0
09/05/2019 12:00	1.5	4.9	1.3	2.6	3.8
09/05/2019 13:00	1.5	4.9	0.9	1.9	3.7
09/05/2019 14:00	1.5	5.1	1.0	2.0	3.7
09/05/2019 15:00	1.5	4.9	1.0	2.1	3.6
09/05/2019 16:00	1.4	4.7	1.1	2.3	3.7
09/05/2019 17:00	1.5	3.1	1.1	1.4	3.8
09/05/2019 18:00	1.6	4.8	1.1	2.3	3.7
09/05/2019 19:00	1.5	4.9	1.1	2.3	3.9
09/05/2019 20:00	0.8	0.2	0.0	0.0	5.3 Under 16min shutdown hour
09/06/2019 12:00	1.5	3.7	1.0	1.4	3.6
09/06/2019 13:00	1.5	5.0	1.0	2.1	3.8
09/06/2019 14:00	1.6	4.1	0.7	1.3	3.7
09/06/2019 15:00	1.5	4.7	0.7	1.5	3.7
09/06/2019 16:00	1.5	5.1	1.3	2.7	4.0
09/06/2019 17:00	1.4	3.4	0.5	1.0	4.0
09/06/2019 18:00	1.4	0.9	0.0	0.0	3.3
09/07/2019 13:00	1.7	3.7	1.3	2.0	3.7
09/07/2019 14:00	1.6	4.7	1.1	2.2	3.7
09/07/2019 15:00	1.8	6.4	1.4	3.0	3.4
09/07/2019 16:00	1.6	5.7	1.1	2.3	3.9
09/07/2019 17:00	1.7	5.1	1.0	2.2	3.4
09/07/2019 18:00	1.6	3.5	0.9	1.3	4.0
09/10/2019 17:00	1.9	0.9	0.2	0.1	3.1
09/11/2019 17:00	1.5	0.7	0.7	0.3	3.6
09/11/2019 18:00	1.4	0.6	0.0	0.0	3.7
09/11/2019 19:00	1.4	0.4	0.0	0.0	3.7
09/12/2019 08:00	1.5	0.8	0.0	0.0	3.4
09/12/2019 09:00	1.5	1.1	0.0	0.0	4.1
09/13/2019 16:00	1.5	2.5	0.1	0.1	3.5
09/13/2019 17:00	1.5	3.1	0.2	0.3	3.3
09/13/2019 18:00	1.5	2.7	0.1	0.2	3.0
09/13/2019 19:00	1.5	0.9	0.0	0.0	2.8
09/14/2019 13:00	1.6	2.3	1.4	1.3	3.6
09/14/2019 14:00	1.3	0.3	0.1	0.0	3.8
09/14/2019 16:00	1.6	3.7	0.5	1.0	3.4
09/14/2019 17:00	1.7	5.2	1.0	2.0	3.3
09/14/2019 18:00	1.4	2.4	0.5	0.6	4.0
09/15/2019 18:00	1.9	2.2	1.8	1.2	3.2
09/15/2019 19:00	1.5	1.2	1.0	0.5	4.4
09/16/2019 12:00	1.4	2.6	0.9	1.2	3.8
09/17/2019 09:00	1.6	4.2	1.6	2.6	3.7

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCoOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm
09/17/2019 10:00	1.8	5.9	1.0	2.1	3.5
09/17/2019 13:00	1.2	0.9	1.1	0.6	4.0
09/17/2019 14:00	1.5	3.0	0.9	1.3	3.6
09/18/2019 16:00	1.5	1.1	0.8	0.4	4.1
09/18/2019 17:00	1.9	5.8	1.4	3.2	3.3
09/18/2019 18:00	1.9	6.9	1.5	3.4	3.0
09/18/2019 19:00	1.6	5.8	1.2	2.7	3.3
09/18/2019 20:00	1.6	3.5	1.1	1.6	3.8
09/19/2019 17:00	1.6	0.5	0.0	0.0	3.4
09/19/2019 18:00	1.5	2.2	0.0	0.0	3.4
09/20/2019 08:00	1.5	2.3	0.2	0.2	2.8
09/20/2019 09:00	1.5	1.3	0.0	0.0	3.5
09/20/2019 10:00	1.5	3.3	0.3	0.4	2.9
09/20/2019 11:00	1.5	2.0	0.1	0.0	3.0
09/20/2019 14:00	1.5	1.4	0.0	0.0	3.2
09/20/2019 16:00	1.5	2.2	0.1	0.1	3.1
09/20/2019 17:00	1.5	1.9	0.0	0.0	3.4
09/21/2019 17:00	1.5	2.0	0.2	0.2	3.6
09/21/2019 18:00	1.4	0.9	0.0	0.0	3.3
09/22/2019 16:00	1.6	0.7	0.0	0.0	3.5
09/22/2019 17:00	1.4	2.2	0.0	0.0	3.4
09/22/2019 18:00	1.6	4.1	0.6	1.2	4.2
09/22/2019 19:00	1.2	1.2	0.7	0.6	4.6
09/23/2019 05:00	2.1	1.3	1.2	0.6	3.3
09/23/2019 06:00	1.3	2.6	1.1	1.6	4.3
09/23/2019 17:00	1.5	0.8	0.0	0.0	3.3
09/23/2019 18:00	1.5	2.1	0.0	0.0	3.3
09/24/2019 13:00	1.5	0.8	0.5	0.2	2.9
09/24/2019 14:00	1.6	1.0	0.0	0.0	3.4
09/24/2019 16:00	1.5	1.8	0.0	0.0	3.7
09/24/2019 17:00	1.5	2.0	0.0	0.0	3.4
09/25/2019 15:00	1.5	2.3	0.0	0.0	3.4
09/25/2019 16:00	1.5	2.2	0.0	0.0	3.4
09/25/2019 17:00	1.6	3.8	0.2	0.3	3.1
09/25/2019 18:00	1.4	2.2	0.0	0.1	3.6
09/25/2019 19:00	1.9	0.7	0.0	0.0	3.6
09/26/2019 09:00	1.5	1.4	0.0	0.0	3.5
09/26/2019 10:00	1.5	0.3	0.0	0.0	3.5
09/27/2019 07:00	1.5	2.0	0.0	0.0	3.2
09/30/2019 06:00	1.4	4.2	1.9	3.5	3.4
09/30/2019 09:00	1.4	1.5	2.0	1.3	3.4
09/30/2019 10:00	1.6	5.8	1.2	2.6	3.1
09/30/2019 11:00	1.4	4.8	1.1	2.4	3.2
09/30/2019 12:00	1.5	4.9	1.3	2.7	3.5
09/30/2019 13:00	1.4	0.9	0.0	0.0	3.0
Final Average*	1.5	3.2	1.1	1.7	3.4
Maximum*	2.3	7.0	3.4	6.8	5.3
	08/11/2019 17:00	08/04/2019 18:00	08/24/2019 16:00	07/21/2019 18:00	09/05/2019 20:00
Minimum*	0.8	0.2	0.0	0.0	2.1
	09/05/2019 20:00	09/05/2019 20:00	09/30/2019 13:00	09/30/2019 13:00	07/31/2019 12:00

* 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: 10/16/2019 06:54
 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: 7/1/2019 00:00
 Period End: 9/30/2019 23:59
 Unit Name: Unit6

Events	Time	Duration (min)	Total 6_GasFlow			Total 6Gross_MW			Total 6COLBHR			Total 6NOXLBHR			Event	
			Valid (kscfh)	Mins		Valid (MW)	Mins		Valid (LBHR)	Mins		Valid (LBHR)	Mins		CO	LBs
START_UP	07/04/2019 17:32 ~ 07/04/2019 17:56	25	18988.2	25	2146.2	25	237.262	25	473.628	25	4.0	7.9				
SHUT_DOWN	07/04/2019 19:57 ~ 07/04/2019 20:09	13	2677.3	13	129.3	13	1.888	13	12.844	13	0.0	0.2				
START_UP	07/10/2019 17:31 ~ 07/10/2019 17:55	25	19697.9	25	2229.2	25	165.743	25	463.8	25	2.8	7.7				
SHUT_DOWN	07/10/2019 19:11 ~ 07/10/2019 19:23	13	2093.9	13	52	13	0.459	13	10.919	13	0.0	0.2				
START_UP	07/11/2019 17:25 ~ 07/11/2019 17:49	25	13880.7	25	1404.9	25	220.348	25	303.346	25	3.7	5.1				
SHUT_DOWN	07/11/2019 19:56 ~ 07/11/2019 20:08	13	2217.9	13	65.5	13	0.47	13	9.023	13	0.0	0.2				
START_UP	07/12/2019 14:52 ~ 07/12/2019 15:16	25	8439.2	25	616	25	158.752	25	220.717	25	2.6	3.7				
SHUT_DOWN	07/12/2019 15:56 ~ 07/12/2019 16:08	13	2215.4	13	64.5	13	0.923	13	10.232	13	0.0	0.2				
START_UP	07/12/2019 16:52 ~ 07/12/2019 17:16	25	8190.2	25	587.5	25	18.32	25	65.165	25	0.3	1.1				
SHUT_DOWN	07/12/2019 19:56 ~ 07/12/2019 20:08	13	2187.1	13	63.8	13	0.197	13	10.679	13	0.0	0.2				
START_UP	07/15/2019 17:21 ~ 07/15/2019 17:45	25	16015.7	25	1704.9	25	283.406	25	344.733	25	4.7	5.7				
SHUT_DOWN	07/15/2019 18:41 ~ 07/15/2019 18:53	13	2083.8	13	51.6	13	0.931	13	7.68	13	0.0	0.1				
START_UP	07/18/2019 09:52 ~ 07/18/2019 10:16	25	8130.6	25	573.3	25	104.112	25	223.988	25	1.7	3.7				
SHUT_DOWN	07/18/2019 11:26 ~ 07/18/2019 11:38	13	2076.7	13	47.1	13	0.275	13	8.23	13	0.0	0.1				
START_UP	07/18/2019 17:22 ~ 07/18/2019 17:46	25	12985.8	25	1265.3	25	275.013	25	229.415	25	4.6	3.8				
SHUT_DOWN	07/18/2019 20:12 ~ 07/18/2019 20:24	13	2367.9	13	88	13	0.438	13	10.85	13	0.0	0.2				
START_UP	07/21/2019 16:52 ~ 07/21/2019 17:16	25	19093	25	2128.7	25	138.454	25	423.674	25	2.3	7.1				
SHUT_DOWN	07/21/2019 20:26 ~ 07/21/2019 20:38	13	2115.7	13	53.9	13	0.104	13	11.87	13	0.0	0.2				
START_UP	07/22/2019 15:17 ~ 07/22/2019 15:41	25	10078.2	25	852.3	25	282.681	25	232.278	25	4.7	3.9				
SHUT_DOWN	07/22/2019 20:11 ~ 07/22/2019 20:23	13	2051.2	13	47.2	13	0.099	13	11.564	13	0.0	0.2				
START_UP	07/23/2019 10:53 ~ 07/23/2019 11:17	25	11505	25	1047.1	25	328.262	25	260.681	25	5.5	4.3				
SHUT_DOWN	07/23/2019 11:46 ~ 07/23/2019 11:58	13	2157.1	13	58.2	13	0.108	13	11.508	13	0.0	0.2				
START_UP	07/23/2019 14:31 ~ 07/23/2019 14:55	25	10941.3	25	974.3	25	104.274	25	215.125	25	1.7	3.6				
SHUT_DOWN	07/23/2019 20:11 ~ 07/23/2019 20:23	13	2060.1	13	48.2	13	0.034	13	10.744	13	0.0	0.2				
START_UP	07/24/2019 10:47 ~ 07/24/2019 11:11	25	10235.1	25	858.9	25	226.916	25	252.99	25	3.8	4.2				
SHUT_DOWN	07/24/2019 18:56 ~ 07/24/2019 19:08	13	2092.9	13	50.9	13	0.952	13	9.355	13	0.0	0.2				
START_UP	07/25/2019 14:52 ~ 07/25/2019 15:16	25	9800.7	25	794.3	25	125.53	25	247.996	25	2.1	4.1				
SHUT_DOWN	07/25/2019 18:25 ~ 07/25/2019 18:37	13	2195.2	13	63.8	13	0.843	13	11.9	13	0.0	0.2				
START_UP	07/28/2019 16:31 ~ 07/28/2019 16:55	25	14993.4	25	1544.5	25	126.843	25	419.402	25	2.1	7.0				
SHUT_DOWN	07/28/2019 20:57 ~ 07/28/2019 21:09	13	2838.5	13	151.2	13	2.534	13	12.156	13	0.0	0.2				
START_UP	07/29/2019 17:22 ~ 07/29/2019 17:46	25	8013	25	562.6	25	116.454	25	199.127	25	1.9	3.3				
SHUT_DOWN	07/29/2019 18:56 ~ 07/29/2019 19:08	13	2065.4	13	50.1	13	0.802	13	10.808	13	0.0	0.2				
START_UP	08/01/2019 13:22 ~ 08/01/2019 13:46	25	10512.1	25	897.6	25	295.942	25	285.235	25	4.9	4.8				
SHUT_DOWN	08/01/2019 20:53 ~ 08/01/2019 21:05	13	2232.4	13	65.7	13	0.084	13	11.251	13	0.0	0.2				
START_UP	08/02/2019 15:51 ~ 08/02/2019 16:15	25	9364.8	25	746.5	25	254.86	25	235.962	25	4.2	3.9				
SHUT_DOWN	08/02/2019 19:41 ~ 08/02/2019 19:53	13	2068.4	13	49.6	13	0.008	13	10.535	13	0.0	0.2				
START_UP	08/03/2019 13:26 ~ 08/03/2019 13:50	25	19308.2	25	2166.7	25	245.901	25	432.175	25	4.1	7.2				
SHUT_DOWN	08/03/2019 20:26 ~ 08/03/2019 20:38	13	2090.1	13	51.2	13	0.012	13	10.963	13	0.0	0.2				
START_UP	08/04/2019 17:17 ~ 08/04/2019 17:41	25	17170.5	25	1880	25	221.551	25	392.219	25	3.7	6.5				
SHUT_DOWN	08/04/2019 20:41 ~ 08/04/2019 20:53	13	2047.8	13	46.7	13	0.024	13	10.305	13	0.0	0.2				
START_UP	08/05/2019 12:51 ~ 08/05/2019 13:15	25	10961.8	25	975.1	25	237.184	25	269.264	25	4.0	4.5				
SHUT_DOWN	08/05/2019 20:56 ~ 08/05/2019 21:08	13	2070.8	13	49.5	13	0.073	13	8.17	13	0.0	0.1				

START_UP	08/06/2019	13:52	~	08/06/2019	14:16	25	17470.7	25	1923.2	25	156.738	25	370.224	25	2.6	6.2
SHUT_DOWN	08/06/2019	19:26	~	08/06/2019	19:38	13	2065.4	13	49.4	13	0.888	13	10.393	13	0.0	0.2
START_UP	08/07/2019	15:51	~	08/07/2019	16:15	25	13882.9	25	1417.5	25	265.485	25	324.69	25	4.4	5.4
SHUT_DOWN	08/07/2019	19:26	~	08/07/2019	19:38	13	2023.3	13	44.5	13	0.834	13	10.934	13	0.0	0.2
START_UP	08/09/2019	16:22	~	08/09/2019	16:46	25	13045.8	25	1279.2	25	243.238	25	298.733	25	4.1	5.0
SHUT_DOWN	08/09/2019	21:25	~	08/09/2019	21:37	13	2455.8	13	98.2	13	1.291	13	11.331	13	0.0	0.2
START_UP	08/10/2019	18:21	~	08/10/2019	18:45	25	16129.9	25	1740	25	202.402	25	308.579	25	3.4	5.1
SHUT_DOWN	08/10/2019	20:10	~	08/10/2019	20:22	13	2195.7	13	63.7	13	0.976	13	12.311	13	0.0	0.2
START_UP	08/11/2019	15:21	~	08/11/2019	15:45	25	7909.4	25	555.2	25	331.946	24	202.13	24	5.5	3.4
SHUT_DOWN	08/11/2019	20:11	~	08/11/2019	20:23	13	2187.5	13	64.8	13	1.133	13	11.399	13	0.0	0.2
START_UP	08/12/2019	17:06	~	08/12/2019	17:30	25	9605.801	25	796.8	25	193.47	25	234.446	25	3.2	3.9
SHUT_DOWN	08/12/2019	19:25	~	08/12/2019	19:37	13	2196.4	13	64.4	13	0.991	13	11.468	13	0.0	0.2
START_UP	08/13/2019	16:52	~	08/13/2019	17:16	25	16356.2	25	1757.2	25	148.17	25	388.155	25	2.5	6.5
SHUT_DOWN	08/13/2019	20:26	~	08/13/2019	20:38	13	2031	13	44.9	13	0.171	13	10.355	13	0.0	0.2
START_UP	08/14/2019	17:37	~	08/14/2019	18:01	25	18424.5	25	2059.5	25	191.823	25	404.01	25	3.2	6.7
SHUT_DOWN	08/14/2019	20:12	~	08/14/2019	20:24	13	2211.7	13	70.9	13	0.502	13	10.639	13	0.0	0.2
START_UP	08/15/2019	11:51	~	08/15/2019	12:15	25	10887.5	25	965	25	265.399	24	257.734	24	4.4	4.3
SHUT_DOWN	08/15/2019	13:56	~	08/15/2019	14:08	13	2020	13	44.8	13	0.201	13	11.09	13	0.0	0.2
START_UP	08/15/2019	16:21	~	08/15/2019	16:45	25	15349.1	25	1622.3	25	244.088	25	177.361	25	4.1	3.0
SHUT_DOWN	08/15/2019	19:27	~	08/15/2019	19:39	13	2229.3	13	72.1	13	0.348	13	10.632	13	0.0	0.2
START_UP	08/17/2019	17:52	~	08/17/2019	18:16	25	19588.4	25	2231	25	178.65	25	451.123	25	3.0	7.5
SHUT_DOWN	08/17/2019	19:41	~	08/17/2019	19:53	13	2048	13	48.2	13	0.194	13	10.192	13	0.0	0.2
START_UP	08/18/2019	17:06	~	08/18/2019	17:30	25	19272.3	25	2193.7	25	193.583	25	432.746	25	3.2	7.2
SHUT_DOWN	08/18/2019	20:10	~	08/18/2019	20:22	13	2171.3	13	62.5	13	0.106	13	11.34	13	0.0	0.2
START_UP	08/19/2019	17:52	~	08/19/2019	18:16	25	19926.5	25	2267.3	25	324.786	25	420.74	25	5.4	7.0
SHUT_DOWN	08/19/2019	19:25	~	08/19/2019	19:37	13	2160	13	60.7	13	0.142	13	10.242	13	0.0	0.2
START_UP	08/20/2019	17:07	~	08/20/2019	17:31	25	12430.9	25	1204.3	25	189.909	25	246.694	25	3.2	4.1
SHUT_DOWN	08/20/2019	19:25	~	08/20/2019	19:37	13	2154.5	13	59.3	13	1.144	13	10.992	13	0.0	0.2
START_UP	08/21/2019	13:21	~	08/21/2019	13:45	25	12787.2	25	1258	25	288.704	25	250.482	25	4.8	4.2
SHUT_DOWN	08/21/2019	14:25	~	08/21/2019	14:37	13	2430.7	13	95.4	13	1.646	13	8.836	13	0.0	0.1
START_UP	08/21/2019	15:21	~	08/21/2019	15:45	25	17835.4	25	1974.6	25	207.486	25	135.106	25	3.5	2.3
SHUT_DOWN	08/21/2019	19:10	~	08/21/2019	19:22	13	2167.6	13	61.1	13	1.173	13	11.785	13	0.0	0.2
START_UP	08/23/2019	16:22	~	08/23/2019	16:46	25	19148.2	25	2160.5	25	160.324	25	402.214	25	2.7	6.7
SHUT_DOWN	08/23/2019	19:26	~	08/23/2019	19:38	13	2055.3	13	49.5	13	1.312	13	10.595	13	0.0	0.2
START_UP	08/24/2019	16:52	~	08/24/2019	17:16	25	19857.2	25	2246.3	25	358.725	25	429.215	25	6.0	7.2
SHUT_DOWN	08/24/2019	20:12	~	08/24/2019	20:24	13	2244	13	71.9	13	1.779	13	10.818	13	0.0	0.2
START_UP	08/25/2019	13:21	~	08/25/2019	13:45	25	12915	25	1260.6	25	169.508	25	240.056	25	2.8	4.0
SHUT_DOWN	08/25/2019	20:26	~	08/25/2019	20:38	13	2274.6	13	77	13	1.423	13	11.173	13	0.0	0.2
START_UP	08/26/2019	14:36	~	08/26/2019	15:00	25	9523	25	767.2	25	154.855	25	249.125	25	2.6	4.2
SHUT_DOWN	08/26/2019	19:41	~	08/26/2019	19:53	13	2083.2	13	52	13	1.424	13	9.695	13	0.0	0.2
START_UP	08/27/2019	14:21	~	08/27/2019	14:45	25	15866.4	25	1689.1	25	161.297	25	329.922	25	2.7	5.5
SHUT_DOWN	08/27/2019	19:25	~	08/27/2019	19:37	13	2169.4	13	62.4	13	0.516	13	12.285	13	0.0	0.2
START_UP	08/28/2019	17:51	~	08/28/2019	18:15	25	19207.6	25	2166.5	25	165.132	25	441.249	25	2.8	7.4
SHUT_DOWN	08/28/2019	18:55	~	08/28/2019	19:07	13	2133.6	13	57.7	13	0.577	13	11.868	13	0.0	0.2
START_UP	08/29/2019	11:21	~	08/29/2019	11:45	25	16418.6	25	1768.5	25	151.404	25	326.398	25	2.5	5.4
SHUT_DOWN	08/29/2019	12:53	~	08/29/2019	13:05	13	2196.8	13	63.9	13	0.512	13	10.695	13	0.0	0.2
START_UP	08/29/2019	14:05	~	08/29/2019	14:29	25	14562.5	25	1505.8	25	134.167	25	109.825	25	2.2	1.8
SHUT_DOWN	08/29/2019	19:25	~	08/29/2019	19:37	13	2132.2	13	57.7	13	0.429	13	10.883	13	0.0	0.2
START_UP	08/30/2019	07:51	~	08/30/2019	08:15	25	11096.5	25	1004	25	222.762	25	248.181	25	3.7	4.1
SHUT_DOWN	08/30/2019	19:11	~	08/30/2019	19:23	13	1993.5	13	41.5	13	0.556	13	10.413	13	0.0	0.2
START_UP	08/31/2019	10:51	~	08/31/2019	11:15	25	15637.9	25	1663.6	25	288.784	25	309.576	25	4.8	5.2
SHUT_DOWN	08/31/2019	13:56	~	08/31/2019	14:08	13	2632.2	13	123.6	13	0.888	13	13.604	13	0.0	0.2
START_UP	08/31/2019	17:21	~	08/31/2019	17:45	25	16237.8	25	1745.5	25	215.83	25	207.868	25	3.6	3.5
SHUT_DOWN	08/31/2019	18:41	~	08/31/2019	18:53	13	2055.9	13	48.5	13	0.642	13	10.6	13	0.0	0.2
START_UP	09/01/2019	15:21	~	09/01/2019	15:45	25	8160	25	583.8	25	206.206	25	213.722	25	3.4	3.6

SHUT_DOWN	09/01/2019	18:41	~	09/01/2019	18:53	13	2018.3	13	44.3	13	0.717	13	10.455	13	0.0	0.2
START_UP	09/02/2019	11:21	~	09/02/2019	11:45	25	10415.4	25	904.9	25	246.622	25	233.565	25	4.1	3.9
SHUT_DOWN	09/02/2019	19:40	~	09/02/2019	19:52	13	2160.5	13	60.4	13	0.758	13	10.145	13	0.0	0.2
START_UP	09/03/2019	10:51	~	09/03/2019	11:15	25	18052.3	25	2000.8	25	183.947	25	366.957	25	3.1	6.1
SHUT_DOWN	09/03/2019	11:43	~	09/03/2019	11:55	13	2286.4	13	75	13	2.148	13	9.91	13	0.0	0.2
START_UP	09/03/2019	13:47	~	09/03/2019	14:11	25	18926.4	25	2141.1	25	131.502	25	153.034	25	2.2	2.6
SHUT_DOWN	09/03/2019	14:37	~	09/03/2019	14:49	13	2599.1	13	117	13	2.537	13	11.692	13	0.0	0.2
START_UP	09/03/2019	17:32	~	09/03/2019	17:56	25	9749.199	25	814.1	25	169.915	25	178.652	25	2.8	3.0
SHUT_DOWN	09/03/2019	22:11	~	09/03/2019	22:23	13	1968.2	13	38.3	13	1.469	13	9.649	13	0.0	0.2
START_UP	09/04/2019	04:51	~	09/04/2019	05:15	25	10065.8	25	862.7	25	199.885	25	218.764	25	3.3	3.6
SHUT_DOWN	09/04/2019	06:41	~	09/04/2019	06:53	13	1973.6	13	39.6	13	1.62	13	10.03	13	0.0	0.2
START_UP	09/04/2019	09:51	~	09/04/2019	10:15	25	13771.3	25	1395.1	25	145.952	25	188.509	25	2.4	3.1
SHUT_DOWN	09/04/2019	22:11	~	09/04/2019	22:23	13	2708.1	13	133.7	13	1.854	13	13.544	13	0.0	0.2
START_UP	09/05/2019	06:51	~	09/05/2019	07:15	25	9057.6	25	704.3	25	118.35	25	233.961	25	2.0	3.9
SHUT_DOWN	09/05/2019	07:55	~	09/05/2019	08:07	13	2156.5	13	60.5	13	1.523	13	10.2	13	0.0	0.2
START_UP	09/05/2019	11:20	~	09/05/2019	11:44	25	13198.2	25	1321.4	25	242.985	25	220.707	25	4.0	3.7
SHUT_DOWN	09/05/2019	22:41	~	09/05/2019	22:53	13	2094.1	13	53.2	13	1.779	13	8.137	13	0.0	0.1
START_UP	09/06/2019	13:16	~	09/06/2019	13:40	25	8062.9	25	587.6	25	108.773	24	232.652	24	1.8	3.9
SHUT_DOWN	09/06/2019	18:25	~	09/06/2019	18:37	13	2158.1	13	59.5	13	0	13	12.104	13	0.0	0.2
START_UP	09/07/2019	13:46	~	09/07/2019	14:10	25	13582.6	25	1365.1	25	517.284	25	316.074	25	8.6	5.3
SHUT_DOWN	09/07/2019	19:40	~	09/07/2019	19:52	13	2183.3	13	63.2	13	0	13	12.225	13	0.0	0.2
START_UP	09/08/2019	18:21	~	09/08/2019	18:45	25	8011.701	25	566.8	25	248.136	25	222.108	25	4.1	3.7
SHUT_DOWN	09/08/2019	19:25	~	09/08/2019	19:37	13	2107	13	54.8	13	0	13	11.197	13	0.0	0.2
START_UP	09/09/2019	17:51	~	09/09/2019	18:15	25	8237.301	25	595	25	129.142	25	236.813	25	2.2	3.9
SHUT_DOWN	09/09/2019	18:55	~	09/09/2019	19:07	13	2133	13	57.1	13	0	13	11.443	13	0.0	0.2
START_UP	09/11/2019	05:36	~	09/11/2019	06:00	25	17023.3	25	1853.4	25	242.945	25	412.4	25	4.0	6.9
SHUT_DOWN	09/11/2019	06:41	~	09/11/2019	06:53	13		13	43	13	0	13	8.17	13	0.0	0.1
START_UP	09/11/2019	08:45	~	09/11/2019	09:09	25	15865.7	25	1709.4	25	177.228	25	149.416	25	3.0	2.5
SHUT_DOWN	09/11/2019	15:10	~	09/11/2019	15:22	13	2415.4	13	93.3	13	0	13	10.651	13	0.0	0.2
START_UP	09/12/2019	16:51	~	09/12/2019	17:15	25	8797.499	25	668.9	25	227.315	25	247.276	25	3.8	4.1
SHUT_DOWN	09/12/2019	19:13	~	09/12/2019	19:25	13	1990	13	39.8	13	0	13	10.908	13	0.0	0.2
START_UP	09/13/2019	16:21	~	09/13/2019	16:45	25	16138	25	1731.6	25	157.646	25	360.192	25	2.6	6.0
SHUT_DOWN	09/13/2019	19:25	~	09/13/2019	19:37	13	2180.9	13	61.8	13	0	13	11.536	13	0.0	0.2
START_UP	09/14/2019	14:51	~	09/14/2019	15:15	25	17152.5	25	1873.8	25	206.561	25	380.852	25	3.4	6.3
SHUT_DOWN	09/14/2019	19:25	~	09/14/2019	19:37	13	2299.3	13	77.3	13	0	13	10.403	13	0.0	0.2
START_UP	09/15/2019	17:51	~	09/15/2019	18:15	25	18251.9	25	2047.1	25	209.079	25	479.04	25	3.5	8.0
SHUT_DOWN	09/15/2019	21:10	~	09/15/2019	21:22	13	2408.5	13	90.6	13	0	13	11.23	13	0.0	0.2
START_UP	09/16/2019	13:31	~	09/16/2019	13:55	25	16525.9	25	1780.4	25	203.293	25	387.13	25	3.4	6.5
SHUT_DOWN	09/16/2019	15:40	~	09/16/2019	15:52	13	2167.6	13	60.9	13	0	13	11.924	13	0.0	0.2
START_UP	09/17/2019	09:46	~	09/17/2019	10:10	25	16702.2	25	1814.5	25	240.721	18	337.815	18	4.0	5.6
SHUT_DOWN	09/17/2019	11:55	~	09/17/2019	12:07	13	2212.3	13	65.3	13	0	13	9.703	13	0.0	0.2
START_UP	09/18/2019	11:51	~	09/18/2019	12:15	25	12814.4	25	1239	25	122.655	25	287.765	25	2.0	4.8
SHUT_DOWN	09/18/2019	13:56	~	09/18/2019	14:08	13	2061	13	48.3	13	0	13	10.151	13	0.0	0.2
START_UP	09/18/2019	17:16	~	09/18/2019	17:40	25	16454.4	25	1778.5	25	168.866	25	228.495	25	2.8	3.8
SHUT_DOWN	09/18/2019	21:55	~	09/18/2019	22:07	13	2103.3	13	54.1	13	0	13	8.066	13	0.0	0.1
START_UP	09/19/2019	05:06	~	09/19/2019	05:30	25	8149.7	25	588.3	25	147.354	25	179.478	25	2.5	3.0
SHUT_DOWN	09/19/2019	06:25	~	09/19/2019	06:37	13	2241.1	13	68.6	13	0	13	10.507	13	0.0	0.2
START_UP	09/19/2019	15:22	~	09/19/2019	15:46	25	9578.5	25	767.8	25	150.844	25	224.537	25	2.5	3.7
SHUT_DOWN	09/19/2019	16:55	~	09/19/2019	17:07	13	2477.1	13	99.7	13	0	13	11.192	13	0.0	0.2
START_UP	09/21/2019	15:51	~	09/21/2019	16:15	25	8517.101	25	624.3	25	103.991	25	225.294	25	1.7	3.8
SHUT_DOWN	09/21/2019	16:56	~	09/21/2019	17:08	13	2027.6	13	42.5	13	0	13	10.172	13	0.0	0.2
START_UP	09/21/2019	17:56	~	09/21/2019	18:20	25	8245.6	25	593.7	25	68.206	25	72.414	25	1.1	1.2
SHUT_DOWN	09/21/2019	19:10	~	09/21/2019	19:22	13	2155.2	13	59.1	13	0	13	10.774	13	0.0	0.2
START_UP	09/22/2019	14:21	~	09/22/2019	14:45	25	8296.1	25	602	25	188.959	25	215.131	25	3.1	3.6
SHUT_DOWN	09/22/2019	19:26	~	09/22/2019	19:38	13	1997.7	13	40.4	13	0	13	9.784	13	0.0	0.2

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START_UP	09/23/2019	06:01 ~ 09/23/2019	06:25	25	10795.7	25	928.7	25	189.3	25	272.244	25	3.2	4.5
SHUT_DOWN	09/23/2019	19:40 ~ 09/23/2019	19:52	13	2199.6	13	63.5	13	0	13	10.471	13	0.0	0.2
START_UP	09/24/2019	10:51 ~ 09/24/2019	11:15	25	10890.2	25	946.7	25	220.993	25	253.035	25	3.7	4.2
SHUT_DOWN	09/24/2019	13:01 ~ 09/24/2019	13:13	13	2248.7	13	70.7	13	0	13	10.66	13	0.0	0.2
START_UP	09/24/2019	14:30 ~ 09/24/2019	14:54	25	10300.1	25	876.2	25	91.461	25	93.844	25	1.5	1.6
SHUT_DOWN	09/24/2019	19:10 ~ 09/24/2019	19:22	13	2088.5	13	51.4	13	0	13	10.021	13	0.0	0.2
START_UP	09/25/2019	08:02 ~ 09/25/2019	08:26	25	8186.9	25	586.6	25	96.612	25	205.182	25	1.6	3.4
SHUT_DOWN	09/25/2019	13:56 ~ 09/25/2019	14:08	13	1977.5	13	39.7	13	0	13	10.054	13	0.0	0.2
START_UP	09/25/2019	14:51 ~ 09/25/2019	15:15	25	8045.2	25	576.6	25	13.314	25	67.387	25	0.2	1.1
SHUT_DOWN	09/25/2019	19:26 ~ 09/25/2019	19:38	13	2056.4	13	48.7	13	0	13	8.387	13	0.0	0.1
START_UP	09/26/2019	17:05 ~ 09/26/2019	17:29	25	13209	25	1302.3	25	174.394	25	309.891	25	2.9	5.2
SHUT_DOWN	09/26/2019	20:40 ~ 09/26/2019	20:52	13	2043.9	13	45.7	13	0	13	10.504	13	0.0	0.2
START_UP	09/30/2019	04:51 ~ 09/30/2019	05:15	25	8289.7	25	598.8	25	74.552	25	215.256	25	1.2	3.6
SHUT_DOWN	09/30/2019	07:25 ~ 09/30/2019	07:37	13	2168.5	13	60.6	13	0	13	15.228	13	0.0	0.3
START_UP	09/30/2019	09:16 ~ 09/30/2019	09:40	25	16436	25	1765.4	25	74.728	25	139.385	25	1.2	2.3
SHUT_DOWN	09/30/2019	13:25 ~ 09/30/2019	13:37	13	2154.4	13	59.5	13	0	13	12.232	13	0.0	0.2

Startup / ShutDown Report
 Generated: 10/16/2019 06:54
 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: 7/1/2019 00:00
 Period End: 9/30/2019 23:59
 Unit Name: Unit7

Events	Time	Duration (min)	Total			Total			Total			Event	
			7_GasFlow (kscfh)	Valid Mins	7Gross_MW (MW)	Valid Mins	7COLBHR (LBHR)	Valid Mins	7NOXLBHR (LBHR)	Valid Mins	Event CO	Nox LBs	
START_UP	07/04/2019 17:32 ~ 07/04/2019 17:56	25	18763.4	25	2118.5	25	274.001	25	522.035	25	4.6	8.7	
SHUT_DOWN	07/04/2019 19:57 ~ 07/04/2019 20:09	13	2663.8	13	130.1	13	2.046	13	10.756	13	0.0	0.2	
START_UP	07/10/2019 17:31 ~ 07/10/2019 17:55	25	19684.5	25	2227.8	25	171.343	25	507.718	25	2.9	8.5	
SHUT_DOWN	07/10/2019 19:11 ~ 07/10/2019 19:23	13	2120.2	13	56.6	13	1.491	13	8.11	13	0.0	0.1	
START_UP	07/11/2019 17:25 ~ 07/11/2019 17:49	25	13810.8	25	1397.7	25	322.513	25	347.229	25	5.4	5.8	
SHUT_DOWN	07/11/2019 19:56 ~ 07/11/2019 20:08	13	2191.3	13	64.2	13	1.633	13	5.912	13	0.0	0.1	
START_UP	07/12/2019 16:52 ~ 07/12/2019 17:16	25	8099.101	25	578.7	25	160.535	25	265.038	25	2.7	4.4	
SHUT_DOWN	07/12/2019 19:56 ~ 07/12/2019 20:08	13	2187.9	13	65.3	13	1.673	13	8.889	13	0.0	0.1	
START_UP	07/15/2019 17:21 ~ 07/15/2019 17:45	25	16018.1	25	1700.6	25	304.193	25	390.647	25	5.1	6.5	
SHUT_DOWN	07/15/2019 18:41 ~ 07/15/2019 18:53	13	2065.7	13	51.1	13	2.102	13	6.914	13	0.0	0.1	
START_UP	07/18/2019 09:52 ~ 07/18/2019 10:16	25	8169.299	25	578.5	25	295.923	25	276.503	25	4.9	4.6	
SHUT_DOWN	07/18/2019 11:26 ~ 07/18/2019 11:38	13	2067.3	13	48	13	1.597	13	6.603	13	0.0	0.1	
START_UP	07/18/2019 17:22 ~ 07/18/2019 17:46	25	12873.9	25	1248.5	25	387.388	25	272.204	25	6.5	4.5	
SHUT_DOWN	07/18/2019 20:12 ~ 07/18/2019 20:24	13	2408.1	13	94.6	13	1.485	13	10.138	13	0.0	0.2	
START_UP	07/21/2019 16:52 ~ 07/21/2019 17:16	25	18656.3	25	2077.3	25	125.688	25	437.941	25	2.1	7.3	
SHUT_DOWN	07/21/2019 20:26 ~ 07/21/2019 20:38	13	2125.9	13	56.8	13	1.506	13	8.172	13	0.0	0.1	
START_UP	07/22/2019 15:17 ~ 07/22/2019 15:41	25	10090.2	25	852.8	25	262.788	25	275.304	25	4.4	4.6	
SHUT_DOWN	07/22/2019 20:11 ~ 07/22/2019 20:23	13	2049.6	13	48.5	13	1.761	13	7.858	13	0.0	0.1	
START_UP	07/23/2019 10:52 ~ 07/23/2019 11:16	25	11247.8	25	1025.5	25	300.474	25	293.364	25	5.0	4.9	
SHUT_DOWN	07/23/2019 20:11 ~ 07/23/2019 20:23	13	2057.2	13	49.3	13	1.587	13	8.08	13	0.0	0.1	
START_UP	07/24/2019 10:47 ~ 07/24/2019 11:11	25	10339.5	25	866.1	25	155.542	25	295.746	25	2.6	4.9	
SHUT_DOWN	07/24/2019 18:55 ~ 07/24/2019 19:07	13	2408	13	90.4	13	2.921	13	9.3	13	0.0	0.2	
START_UP	07/25/2019 14:52 ~ 07/25/2019 15:16	25	9873.701	25	804.4	25	327.221	25	320.119	25	5.5	5.3	
SHUT_DOWN	07/25/2019 18:25 ~ 07/25/2019 18:37	13	2188.3	13	64.1	13	2.754	13	8.456	13	0.0	0.1	
START_UP	07/27/2019 17:36 ~ 07/27/2019 18:00	25	15044.4	25	1554.7	25	283.876	25	323.657	25	4.7	5.4	
SHUT_DOWN	07/27/2019 19:27 ~ 07/27/2019 19:39	13	2291.5	13	77.7	13	0.35	13	6.946	13	0.0	0.1	
START_UP	07/28/2019 16:31 ~ 07/28/2019 16:55	25	15092.4	25	1552.6	25	420.359	25	480.64	25	7.0	8.0	
SHUT_DOWN	07/28/2019 20:57 ~ 07/28/2019 21:09	13	2855.9	13	154.9	13	3.123	13	10.731	13	0.1	0.2	
START_UP	07/29/2019 17:22 ~ 07/29/2019 17:46	25	8041.299	25	564.7	25	83.554	25	253.831	25	1.4	4.2	
SHUT_DOWN	07/29/2019 18:56 ~ 07/29/2019 19:08	13	2029.1	13	46.6	13	0.088	13	7.854	13	0.0	0.1	
START_UP	08/01/2019 13:21 ~ 08/01/2019 13:45	25	10249.3	25	874.5	25	340.386	25	324.663	25	5.7	5.4	
SHUT_DOWN	08/01/2019 20:55 ~ 08/01/2019 21:07	13	2153.8	13	58.4	13	0	13	8.486	13	0.0	0.1	
START_UP	08/02/2019 15:51 ~ 08/02/2019 16:15	25	9370.5	25	745.7	25	377.911	25	272.79	25	6.3	4.5	
SHUT_DOWN	08/02/2019 19:41 ~ 08/02/2019 19:53	13	2043.6	13	48	13	0	13	7.468	13	0.0	0.1	
START_UP	08/03/2019 13:26 ~ 08/03/2019 13:50	25	18771.2	25	2102.3	25	249.333	25	456.562	25	4.2	7.6	
SHUT_DOWN	08/03/2019 20:26 ~ 08/03/2019 20:38	13	2090.9	13	53.1	13	0	13	6.122	13	0.0	0.1	
START_UP	08/04/2019 17:17 ~ 08/04/2019 17:41	25	17174.7	25	1874.6	25	187.657	25	411.764	25	3.1	6.9	
SHUT_DOWN	08/04/2019 20:41 ~ 08/04/2019 20:53	13	2043.8	13	47.4	13	0	13	7.602	13	0.0	0.1	

START_UP	08/05/2019	12:51	~	08/05/2019	13:15	25	11003.9	25	977.3	25	228.792	25	328.309	25	3.8	5.5
SHUT_DOWN	08/05/2019	20:56	~	08/05/2019	21:08	13	2086.2	13	53	13	0	13	5.878	13	0.0	0.1
START_UP	08/06/2019	13:52	~	08/06/2019	14:16	25	17583.8	25	1929.4	25	153.133	25	395.358	25	2.6	6.6
SHUT_DOWN	08/06/2019	19:26	~	08/06/2019	19:38	13	2043.9	13	48.1	13	0.071	13	7.469	13	0.0	0.1
START_UP	08/07/2019	15:51	~	08/07/2019	16:15	25	13917.7	25	1416.2	25	241.627	25	354.496	25	4.0	5.9
SHUT_DOWN	08/07/2019	19:26	~	08/07/2019	19:38	13	2028.4	13	46.3	13	0.147	13	7.498	13	0.0	0.1
START_UP	08/09/2019	16:22	~	08/09/2019	16:46	25	13086.8	25	1283.4	25	194.817	25	356.877	25	3.2	5.9
SHUT_DOWN	08/09/2019	21:26	~	08/09/2019	21:38	13	2064.3	13	51.4	13	0.416	13	6.444	13	0.0	0.1
START_UP	08/10/2019	18:21	~	08/10/2019	18:45	25	16140.7	25	1733.7	25	194.829	25	338.113	25	3.2	5.6
SHUT_DOWN	08/10/2019	20:10	~	08/10/2019	20:22	13	2188.8	13	64.5	13	0.336	13	9.458	13	0.0	0.2
START_UP	08/11/2019	15:21	~	08/11/2019	15:45	25	7925.399	25	555.5	25	265.227	25	267.197	25	4.4	4.5
SHUT_DOWN	08/11/2019	20:11	~	08/11/2019	20:23	13	2213.1	13	68.7	13	0.43	13	7.327	13	0.0	0.1
START_UP	08/12/2019	17:06	~	08/12/2019	17:30	25	9630.201	25	797.9	25	179.595	25	296.626	25	3.0	4.9
SHUT_DOWN	08/12/2019	19:25	~	08/12/2019	19:37	13	2202.8	13	66.2	13	0.643	13	8.55	13	0.0	0.1
START_UP	08/13/2019	16:52	~	08/13/2019	17:16	25	16283.9	25	1743.7	25	134.249	25	452.06	25	2.2	7.5
SHUT_DOWN	08/13/2019	20:26	~	08/13/2019	20:38	13	2028.4	13	46.4	13	0	13	8.079	13	0.0	0.1
START_UP	08/14/2019	17:37	~	08/14/2019	18:01	25	18474.3	25	2062.7	25	147.21	25	442.545	25	2.5	7.4
SHUT_DOWN	08/14/2019	20:12	~	08/14/2019	20:24	13	2233.8	13	72.7	13	0.035	13	11.545	13	0.0	0.2
START_UP	08/15/2019	16:21	~	08/15/2019	16:45	25	15151.1	25	1600.8	25	273.37	25	321.976	25	4.6	5.4
SHUT_DOWN	08/15/2019	19:27	~	08/15/2019	19:39	13	2291.7	13	81.2	13	0.186	13	10.511	13	0.0	0.2
START_UP	08/17/2019	17:52	~	08/17/2019	18:16	25	19441.8	25	2209.1	25	179.579	25	495.638	25	3.0	8.3
SHUT_DOWN	08/17/2019	19:41	~	08/17/2019	19:53	13	2048.4	13	49.3	13	0	13	8.462	13	0.0	0.1
START_UP	08/18/2019	17:06	~	08/18/2019	17:30	25	19062.7	25	2166.8	25	190.153	25	485.402	25	3.2	8.1
SHUT_DOWN	08/18/2019	20:10	~	08/18/2019	20:22	13	2169.1	13	63.6	13	0	13	8.396	13	0.0	0.1
START_UP	08/19/2019	17:51	~	08/19/2019	18:15	25	18617.1	25	2106.2	25	389.588	24	476.378	24	6.5	7.9
SHUT_DOWN	08/19/2019	19:26	~	08/19/2019	19:38	13	1980.3	13	41.4	13	0	13	6.52	13	0.0	0.1
START_UP	08/20/2019	17:07	~	08/20/2019	17:31	25	12430.5	25	1202	25	154.588	25	301.057	25	2.6	5.0
SHUT_DOWN	08/20/2019	19:25	~	08/20/2019	19:37	13	2149.2	13	59.6	13	0.657	13	8.411	13	0.0	0.1
START_UP	08/21/2019	13:21	~	08/21/2019	13:45	25	12843.7	25	1259.6	25	260.264	25	300.346	25	4.3	5.0
SHUT_DOWN	08/21/2019	14:26	~	08/21/2019	14:38	13	2050.4	13	49.5	13	0.582	13	5.533	13	0.0	0.1
START_UP	08/21/2019	15:21	~	08/21/2019	15:45	25	17780	25	1964.1	25	208.303	25	137.173	25	3.5	2.3
SHUT_DOWN	08/21/2019	19:10	~	08/21/2019	19:22	13	2156.3	13	61.1	13	0.316	13	7.373	13	0.0	0.1
START_UP	08/23/2019	16:22	~	08/23/2019	16:46	25	18845.4	25	2122.3	25	138.749	25	464.257	25	2.3	7.7
SHUT_DOWN	08/23/2019	19:26	~	08/23/2019	19:38	13	2054.1	13	50	13	0.503	13	8.228	13	0.0	0.1
START_UP	08/24/2019	16:52	~	08/24/2019	17:16	25	19426.4	25	2194.4	25	329.51	25	480.353	25	5.5	8.0
SHUT_DOWN	08/24/2019	20:12	~	08/24/2019	20:24	13	2262.6	13	75.9	13	0.775	13	10.226	13	0.0	0.2
START_UP	08/25/2019	13:21	~	08/25/2019	13:45	25	13064.4	25	1277.5	25	97.138	25	293.764	25	1.6	4.9
SHUT_DOWN	08/25/2019	20:26	~	08/25/2019	20:38	13	2315.3	13	83.5	13	0.824	13	9.316	13	0.0	0.2
START_UP	08/26/2019	14:36	~	08/26/2019	15:00	25	9539.2	25	767.4	25	94.318	25	297.371	25	1.6	5.0
SHUT_DOWN	08/26/2019	19:41	~	08/26/2019	19:53	13	2078.9	13	53.1	13	0.706	13	8.675	13	0.0	0.1
START_UP	08/27/2019	15:51	~	08/27/2019	16:15	25	19175.8	25	2170	25	111.795	25	480.146	25	1.9	8.0
SHUT_DOWN	08/27/2019	19:25	~	08/27/2019	19:37	13	2217.8	13	68.4	13	0	13	9.529	13	0.0	0.2
START_UP	08/28/2019	17:51	~	08/28/2019	18:15	25	19197.6	25	2164.9	25	128.8	25	474.376	25	2.1	7.9
SHUT_DOWN	08/28/2019	18:55	~	08/28/2019	19:07	13	2178.4	13	64.7	13	0	13	8.315	13	0.0	0.1
START_UP	08/29/2019	11:21	~	08/29/2019	11:45	25	16369.1	25	1758.3	25	138.586	25	375.11	25	2.3	6.3
SHUT_DOWN	08/29/2019	12:53	~	08/29/2019	13:05	13	2173.9	13	62.7	13	0.033	13	7.319	13	0.0	0.1
START_UP	08/29/2019	14:05	~	08/29/2019	14:29	25	14578.9	25	1504.2	25	108.827	25	109.497	25	1.8	1.8
SHUT_DOWN	08/29/2019	19:25	~	08/29/2019	19:37	13	2143.2	13	59.7	13	0	13	9.188	13	0.0	0.2
START_UP	08/30/2019	07:51	~	08/30/2019	08:15	25	11075.8	25	998.9	25	254.567	25	293.475	25	4.2	4.9
SHUT_DOWN	08/30/2019	19:11	~	08/30/2019	19:23	13	1964.9	13	40	13	0	13	6.875	13	0.0	0.1
START_UP	08/31/2019	12:06	~	08/31/2019	12:30	25	18510.5	25	2083.1	25	223.072	25	443.451	25	3.7	7.4

SHUT_DOWN	08/31/2019	13:57	~	08/31/2019	14:09	13	2183.9	13	67	13	0	13	9.056	13	0.0	0.2
START_UP	08/31/2019	17:21	~	08/31/2019	17:45	25	16302.1	25	1749.9	25	187.475	25	222.643	25	3.1	3.7
SHUT_DOWN	08/31/2019	18:41	~	08/31/2019	18:53	13	2044	13	48.4	13	0	13	8.17	13	0.0	0.1
START_UP	09/01/2019	15:21	~	09/01/2019	15:45	25	8152.3	25	585.1	25	194.513	25	268.466	25	3.2	4.5
SHUT_DOWN	09/01/2019	18:41	~	09/01/2019	18:53	13	1991.9	13	42	13	0	13	6.341	13	0.0	0.1
START_UP	09/02/2019	11:21	~	09/02/2019	11:45	25	10405.6	25	902.1	25	232.894	25	282.931	25	3.9	4.7
SHUT_DOWN	09/02/2019	19:40	~	09/02/2019	19:52	13	2146.1	13	59.5	13	0	13	7.652	13	0.0	0.1
START_UP	09/03/2019	10:51	~	09/03/2019	11:15	25	18051.2	25	1995.5	25	173.204	25	410.082	25	2.9	6.8
SHUT_DOWN	09/03/2019	20:55	~	09/03/2019	21:07	13	2535.9	13	108	13	1.115	13	9.691	13	0.0	0.2
START_UP	09/04/2019	09:52	~	09/04/2019	10:16	25	14187.8	25	1453.1	25	99.868	25	303.376	25	1.7	5.1
SHUT_DOWN	09/04/2019	22:12	~	09/04/2019	22:24	13	2258.1	13	76.5	13	0.991	13	9.287	13	0.0	0.2
START_UP	09/05/2019	11:21	~	09/05/2019	11:45	25	13773	25	1394.2	25	156.374	25	316.524	25	2.6	5.3
SHUT_DOWN	09/05/2019	22:41	~	09/05/2019	22:53	13	2087.8	13	53.7	13	0.928	13	7.662	13	0.0	0.1
START_UP	09/06/2019	11:36	~	09/06/2019	12:00	25	16045	25	1714	25	271.377	25	372.429	25	4.5	6.2
SHUT_DOWN	09/06/2019	18:25	~	09/06/2019	18:37	13	2162.6	13	61.4	13	0.815	13	8.433	13	0.0	0.1
START_UP	09/07/2019	13:46	~	09/07/2019	14:10	25	13675.5	25	1370.4	25	261.355	25	322.312	25	4.4	5.4
SHUT_DOWN	09/07/2019	19:41	~	09/07/2019	19:53	13	1984.5	13	41.5	13	0.95	13	7.54	13	0.0	0.1
START_UP	09/09/2019	17:51	~	09/09/2019	18:15	25	8220	25	591.4	25	115.743	25	264.593	25	1.9	4.4
SHUT_DOWN	09/09/2019	18:55	~	09/09/2019	19:07	13	2161	13	61.4	13	1.248	13	8.234	13	0.0	0.1
START_UP	09/11/2019	08:46	~	09/11/2019	09:10	25	16462	25	1783.9	25	134.388	25	364.952	25	2.2	6.1
SHUT_DOWN	09/11/2019	15:10	~	09/11/2019	15:22	13	2375.2	13	89.3	13	1.249	13	6.578	13	0.0	0.1
START_UP	09/12/2019	16:51	~	09/12/2019	17:15	25	8813.899	25	670.7	25	160.276	25	271.17	25	2.7	4.5
SHUT_DOWN	09/12/2019	19:13	~	09/12/2019	19:25	13	1986.1	13	41	13	1.235	13	7.289	13	0.0	0.1
START_UP	09/13/2019	16:21	~	09/13/2019	16:45	25	16244.2	25	1739.9	25	125.609	25	338.227	25	2.1	5.6
SHUT_DOWN	09/13/2019	19:25	~	09/13/2019	19:37	13	2181.3	13	62.8	13	0.336	13	7.799	13	0.0	0.1
START_UP	09/14/2019	14:51	~	09/14/2019	15:15	25	17131.7	25	1867.3	25	197.791	25	385.282	25	3.3	6.4
SHUT_DOWN	09/14/2019	19:25	~	09/14/2019	19:37	13	2292.6	13	77.1	13	0.639	13	6.382	13	0.0	0.1
START_UP	09/15/2019	17:51	~	09/15/2019	18:15	25	18247.6	25	2038	25	189.406	15	430.677	15	3.2	7.2
SHUT_DOWN	09/15/2019	21:10	~	09/15/2019	21:22	13	2382.2	13	88.1	13	0.617	13	10.261	13	0.0	0.2
START_UP	09/17/2019	09:46	~	09/17/2019	10:10	25	16683.9	25	1809.5	25	224.12	25	375	25	3.7	6.3
SHUT_DOWN	09/17/2019	11:55	~	09/17/2019	12:07	13	2213.5	13	66.1	13	0.337	13	6.488	13	0.0	0.1
START_UP	09/18/2019	11:51	~	09/18/2019	12:15	25	12811.9	25	1235.5	25	149.839	25	320.206	25	2.5	5.3
SHUT_DOWN	09/18/2019	13:56	~	09/18/2019	14:08	13	2003	13	43.2	13	0	13	7.014	13	0.0	0.1
START_UP	09/18/2019	17:16	~	09/18/2019	17:40	25	16330.9	25	1761.9	25	197.31	25	242.121	25	3.3	4.0
SHUT_DOWN	09/18/2019	20:41	~	09/18/2019	20:53	13	2502.1	13	104.7	13	0.085	13	6.53	13	0.0	0.1
START_UP	09/19/2019	15:22	~	09/19/2019	15:46	25	9617.899	25	771.2	25	123.539	25	293.884	25	2.1	4.9
SHUT_DOWN	09/19/2019	16:55	~	09/19/2019	17:07	13	2531.1	13	108.1	13	0.035	13	9.971	13	0.0	0.2
START_UP	09/21/2019	15:51	~	09/21/2019	16:15	25	8528.7	25	625.6	25	82.294	25	267.228	25	1.4	4.5
SHUT_DOWN	09/21/2019	16:56	~	09/21/2019	17:08	13	2028.6	13	44.1	13	0	13	8.557	13	0.0	0.1
START_UP	09/21/2019	17:56	~	09/21/2019	18:20	25	8357.001	25	604.9	25	195.205	25	83.808	25	3.3	1.4
SHUT_DOWN	09/21/2019	19:10	~	09/21/2019	19:22	13	2173.1	13	62.2	13	0	13	7.816	13	0.0	0.1
START_UP	09/22/2019	14:21	~	09/22/2019	14:45	25	8240.301	25	596.6	25	261.639	25	276.069	25	4.4	4.6
SHUT_DOWN	09/22/2019	19:26	~	09/22/2019	19:38	13	1971.1	13	41.2	13	0	13	7.031	13	0.0	0.1
START_UP	09/23/2019	06:00	~	09/23/2019	06:24	25	10488.2	25	898.2	25	292.389	25	328.481	25	4.9	5.5
SHUT_DOWN	09/23/2019	19:40	~	09/23/2019	19:52	13	2171.1	13	61.3	13	0	13	8.36	13	0.0	0.1
START_UP	09/24/2019	14:31	~	09/24/2019	14:55	25	10255.2	25	867	25	90.078	25	348.644	25	1.5	5.8
SHUT_DOWN	09/24/2019	19:10	~	09/24/2019	19:22	13	2103.3	13	54.5	13	0	13	8.232	13	0.0	0.1
START_UP	09/25/2019	08:02	~	09/25/2019	08:26	25	8169	25	585.1	25	154.86	25	265.098	25	2.6	4.4
SHUT_DOWN	09/25/2019	13:56	~	09/25/2019	14:08	13	1966	13	39.9	13	0.378	13	7.327	13	0.0	0.1
START_UP	09/25/2019	14:51	~	09/25/2019	15:15	25	7964.5	25	570.3	25	44.746	25	65.524	25	0.7	1.1
SHUT_DOWN	09/25/2019	19:26	~	09/25/2019	19:38	13	2048.8	13	49.1	13	0.278	13	8.889	13	0.0	0.1

START_UP	09/26/2019	17:05	~	09/26/2019	17:29	25	13235.2	25	1301.2	25	228.168	25	373.408	25	3.8	6.2
SHUT_DOWN	09/26/2019	19:39	~	09/26/2019	19:51	13	2123.7	13	54.7	13	0.476	13	6.694	13	0.0	0.1
START_UP	09/30/2019	09:17	~	09/30/2019	09:41	25	16947.7	25	1827.5	25	118.521	25	479.107	25	2.0	8.0
SHUT_DOWN	09/30/2019	13:25	~	09/30/2019	13:37	13	2148.3	13	60.1	13	0.334	13	10.1	13	0.0	0.2

Startup / ShutDown Report
 Generated: 10/16/2019 06:54
 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: 7/1/2019 00:00
 Period End: 9/30/2019 23:59
 Unit Name: Unit8

Events	Time	Duration (min)	Total 8_GasFlow			Total 8Gross_MW			Total 8COLBHR			Total 8NOXLBHR			Event CO	Event LBS	Event Nox LBS
			Valid	8Gross	Valid	8COLBHR	Valid	8NOXLBHR	Valid	Event	Nox						
START_UP	07/04/2019 17:32 ~ 07/04/2019 17:56	25	18960.8	25	2137.9	25	246.182	25	529.076	25	4.1	8.8					
SHUT_DOWN	07/04/2019 19:57 ~ 07/04/2019 20:09	13	2656.7	13	127.9	13	0.039	13	7.983	13	0.0	0.1					
START_UP	07/10/2019 17:31 ~ 07/10/2019 17:55	25	19722.6	25	2230.2	25	96.447	25	534.74	25	1.6	8.9					
SHUT_DOWN	07/10/2019 19:11 ~ 07/10/2019 19:23	13	2115.4	13	54.8	13	0	13	8.545	13	0.0	0.1					
START_UP	07/11/2019 15:52 ~ 07/11/2019 16:16	25	8347.801	25	604.3	25	174.493	25	283.328	25	2.9	4.7					
SHUT_DOWN	07/11/2019 19:56 ~ 07/11/2019 20:08	13	2225.3	13	67	13	0	13	6.695	13	0.0	0.1					
START_UP	07/12/2019 16:52 ~ 07/12/2019 17:16	25	8063.1	25	575	25	223.946	25	270.706	25	3.7	4.5					
SHUT_DOWN	07/12/2019 19:56 ~ 07/12/2019 20:08	13	2202.1	13	65.8	13	0	13	7.442	13	0.0	0.1					
START_UP	07/15/2019 17:21 ~ 07/15/2019 17:45	25	16074.1	25	1706.2	25	405.674	25	423.829	25	6.8	7.1					
SHUT_DOWN	07/15/2019 18:41 ~ 07/15/2019 18:53	13	2093	13	52.7	13	0.081	13	6.461	13	0.0	0.1					
START_UP	07/17/2019 17:37 ~ 07/17/2019 18:01	25	16136.3	25	1708.5	25	63.338	25	460.438	25	1.1	7.7					
SHUT_DOWN	07/17/2019 20:27 ~ 07/17/2019 20:39	13	2068	13	48.7	13	0.185	13	7.793	13	0.0	0.1					
START_UP	07/18/2019 09:52 ~ 07/18/2019 10:16	25	8159.6	25	575.6	25	76.124	25	255.312	25	1.3	4.3					
SHUT_DOWN	07/18/2019 12:41 ~ 07/18/2019 12:53	13	2108.4	13	53.5	13	0.899	13	6.507	13	0.0	0.1					
START_UP	07/18/2019 17:21 ~ 07/18/2019 17:45	25	12444.6	25	1184.8	25	124.709	25	262.545	25	2.1	4.4					
SHUT_DOWN	07/18/2019 20:12 ~ 07/18/2019 20:24	13	2387.7	13	91	13	0.056	13	8.108	13	0.0	0.1					
START_UP	07/21/2019 15:36 ~ 07/21/2019 16:00	25	15635.7	25	1651.6	25	227.064	25	420.956	25	3.8	7.0					
SHUT_DOWN	07/21/2019 20:26 ~ 07/21/2019 20:38	13	2138.1	13	56.9	13	0	13	8.288	13	0.0	0.1					
START_UP	07/22/2019 11:21 ~ 07/22/2019 11:45	25	10477.3	25	912.5	25	354.616	25	291.944	25	5.9	4.9					
SHUT_DOWN	07/22/2019 20:11 ~ 07/22/2019 20:23	13	2079.7	13	50.3	13	0	13	7.633	13	0.0	0.1					
START_UP	07/23/2019 10:52 ~ 07/23/2019 11:16	25	11261.5	25	1022.1	25	435.731	25	313.237	25	7.3	5.2					
SHUT_DOWN	07/23/2019 20:11 ~ 07/23/2019 20:23	13	2070.8	13	49.8	13	0	13	5.397	13	0.0	0.1					
START_UP	07/24/2019 10:47 ~ 07/24/2019 11:11	25	10293.8	25	863	25	234.597	25	301.714	25	3.9	5.0					
SHUT_DOWN	07/24/2019 18:56 ~ 07/24/2019 19:08	13	2094.7	13	51.6	13	0	13	6.019	13	0.0	0.1					
START_UP	07/25/2019 14:51 ~ 07/25/2019 15:15	25	9398.9	25	751.9	25	525.203	25	306.536	25	8.8	5.1	BKR-0041				
SHUT_DOWN	07/25/2019 18:25 ~ 07/25/2019 18:37	13	2217.3	13	66.1	13	0	13	5.718	13	0.0	0.1					
START_UP	07/31/2019 10:36 ~ 07/31/2019 11:00	25	10508.7	25	929.9	25	296.118	25	331.788	25	4.9	5.5					
SHUT_DOWN	07/31/2019 11:41 ~ 07/31/2019 11:53	13	2008	13	43.3	13	0	13	7.621	13	0.0	0.1					
START_UP	08/01/2019 13:21 ~ 08/01/2019 13:45	25	10326.3	25	874.3	25	271.21	25	337.307	25	4.5	5.6					
SHUT_DOWN	08/01/2019 21:56 ~ 08/01/2019 22:08	13	1987.7	13	40.8	13	0.034	13	7.601	13	0.0	0.1					
START_UP	08/02/2019 12:36 ~ 08/02/2019 13:00	25	8389.7	25	613.2	25	442.388	25	260.257	25	7.4	4.3					
SHUT_DOWN	08/02/2019 13:42 ~ 08/02/2019 13:54	13	2286.1	13	76.5	13	0	13	18.913	13	0.0	0.3					
START_UP	08/02/2019 15:51 ~ 08/02/2019 16:15	25	9791.101	25	784.2	25	89.214	25	97.924	25	1.5	1.6					
SHUT_DOWN	08/02/2019 19:41 ~ 08/02/2019 19:53	13	2076.5	13	50.8	13	0	13	7.48	13	0.0	0.1					
START_UP	08/03/2019 13:26 ~ 08/03/2019 13:50	25	19055.3	25	2135.2	25	228.105	25	501.286	25	3.8	8.4					
SHUT_DOWN	08/03/2019 20:26 ~ 08/03/2019 20:38	13	2099.7	13	52.8	13	0	13	6.574	13	0.0	0.1					
START_UP	08/04/2019 13:36 ~ 08/04/2019 14:00	25	7974.3	25	557.5	25	480.912	25	258.138	25	8.0	4.3					
SHUT_DOWN	08/04/2019 14:41 ~ 08/04/2019 14:53	13	2069.3	13	48	13	0	13	7.937	13	0.0	0.1					
START_UP	08/04/2019 17:16 ~ 08/04/2019 17:40	25	16466.2	25	1784.4	25	200.186	25	134.818	25	3.3	2.2					
SHUT_DOWN	08/04/2019 20:41 ~ 08/04/2019 20:53	13	2064.9	13	48.5	13	0	13	7.542	13	0.0	0.1					
START_UP	08/05/2019 11:36 ~ 08/05/2019 12:00	25	13124.7	25	1282.6	25	330.149	25	331.619	25	5.5	5.5					
SHUT_DOWN	08/05/2019 20:56 ~ 08/05/2019 21:08	13	2083.6	13	50.8	13	0.008	13	5.86	13	0.0	0.1					

START_UP	08/06/2019	10:36	~	08/06/2019	11:00	25	9870.199	25	823.1	25	271.264	25	295.795	25	4.5	4.9	
SHUT_DOWN	08/06/2019	11:41	~	08/06/2019	11:53	13	2092.8	13	52.4	13	0	13	5.895	13	0.0	0.1	
START_UP	08/06/2019	13:53	~	08/06/2019	14:17	25	18018.2	25	2003.7	25	120.489	25	139.798	25	2.0	2.3	
SHUT_DOWN	08/06/2019	19:26	~	08/06/2019	19:38	13	2080.9	13	51.6	13	1.394	13	7.269	13	0.0	0.1	
START_UP	08/07/2019	14:36	~	08/07/2019	15:00	25	16358.9	25	1749.6	25	232.999	25	422.086	25	3.9	7.0	
SHUT_DOWN	08/07/2019	19:26	~	08/07/2019	19:38	13	2025.3	13	44.7	13	0.772	13	7.365	13	0.0	0.1	
START_UP	08/09/2019	13:36	~	08/09/2019	14:00	25	13335.2	25	1315.4	25	216.101	25	443.178	25	3.6	7.4	
SHUT_DOWN	08/09/2019	14:56	~	08/09/2019	15:08	13	2002	13	40.8	13	1.604	13	7.485	13	0.0	0.1	
START_UP	08/09/2019	16:23	~	08/09/2019	16:47	25	13646.4	25	1360.2	25	158.514	25	129.278	25	2.6	2.2	
SHUT_DOWN	08/09/2019	21:25	~	08/09/2019	21:37	13	2422.2	13	94.3	13	1.107	13	9.758	13	0.0	0.2	
START_UP	08/10/2019	18:21	~	08/10/2019	18:45	25	16144	25	1736.4	25	136.51	25	379.078	25	2.3	6.3	
SHUT_DOWN	08/10/2019	20:10	~	08/10/2019	20:22	13	2181.4	13	62.7	13	1.028	13	8.792	13	0.0	0.1	
START_UP	08/11/2019	15:21	~	08/11/2019	15:45	25	7922.7	25	553.6	25	453.267	25	271.001	25	7.6	4.5	Variance
SHUT_DOWN	08/11/2019	20:11	~	08/11/2019	20:23	13	2190.6	13	65.5	13	0.663	13	7.359	13	0.0	0.1	
START_UP	08/12/2019	15:36	~	08/12/2019	16:00	25	14551.3	25	1492.6	25	501.605	25	384.221	25	8.4	6.4	Variance
SHUT_DOWN	08/12/2019	19:25	~	08/12/2019	19:37	13	2208.8	13	65.6	13	0.594	13	5.711	13	0.0	0.1	
START_UP	08/13/2019	13:36	~	08/13/2019	14:00	25	14017.1	25	1411.1	25	191.839	25	318.487	25	3.2	5.3	
SHUT_DOWN	08/13/2019	14:42	~	08/13/2019	14:54	13	2241	13	70.9	13	0.008	13	8.851	13	0.0	0.1	
START_UP	08/13/2019	16:51	~	08/13/2019	17:15	25	15742.8	25	1671.4	25	72.442	25	166.208	25	1.2	2.8	
SHUT_DOWN	08/13/2019	20:26	~	08/13/2019	20:38	13	2032.1	13	45.3	13	0.009	13	8.071	13	0.0	0.1	
START_UP	08/14/2019	11:36	~	08/14/2019	12:00	25	8355.601	25	607.9	25	240.261	25	268.206	25	4.0	4.5	
SHUT_DOWN	08/14/2019	12:41	~	08/14/2019	12:53	13	2093.7	13	51.4	13	0	13	7.69	13	0.0	0.1	
START_UP	08/14/2019	15:36	~	08/14/2019	16:00	25	8516.899	25	623.3	25	193.507	25	186.354	25	3.2	3.1	
SHUT_DOWN	08/14/2019	20:12	~	08/14/2019	20:24	13	2265.3	13	75.2	13	0.008	13	9.702	13	0.0	0.2	
START_UP	08/15/2019	11:51	~	08/15/2019	12:15	25	10930.4	25	963.8	25	163.991	25	325.571	25	2.7	5.4	
SHUT_DOWN	08/15/2019	13:56	~	08/15/2019	14:08	13	2019.6	13	45.1	13	0.013	13	8.753	13	0.0	0.1	
START_UP	08/15/2019	16:21	~	08/15/2019	16:45	25	15358.7	25	1622.2	25	265.71	25	140.643	25	4.4	2.3	
SHUT_DOWN	08/15/2019	19:27	~	08/15/2019	19:39	13	2239.3	13	73.3	13	0.019	13	8.737	13	0.0	0.1	
START_UP	08/17/2019	16:36	~	08/17/2019	17:00	25	8318	25	607.9	25	122.92	25	292.032	25	2.0	4.9	
SHUT_DOWN	08/17/2019	19:41	~	08/17/2019	19:53	13	2057	13	49	13	0	13	9.041	13	0.0	0.2	
START_UP	08/18/2019	15:36	~	08/18/2019	16:00	25	15677.3	25	1656.9	25	175.395	25	428.614	25	2.9	7.1	
SHUT_DOWN	08/18/2019	20:10	~	08/18/2019	20:22	13	2183.6	13	64.2	13	0.096	13	8.583	13	0.0	0.1	
START_UP	08/19/2019	14:37	~	08/19/2019	15:01	25	11288.1	25	1031.6	25	271.288	25	306.784	25	4.5	5.1	
SHUT_DOWN	08/19/2019	15:41	~	08/19/2019	15:53	13	2183.4	13	63.6	13	0	13	9.753	13	0.0	0.2	
START_UP	08/19/2019	17:51	~	08/19/2019	18:15	25	19228.3	25	2171.6	25	242.434	25	155.346	25	4.0	2.6	
SHUT_DOWN	08/19/2019	19:26	~	08/19/2019	19:38	13	1978.4	13	39.9	13	0	13	6.459	13	0.0	0.1	
START_UP	08/20/2019	15:36	~	08/20/2019	16:00	25	8381.899	25	615.9	25	349.27	25	261.042	25	5.8	4.4	
SHUT_DOWN	08/20/2019	19:25	~	08/20/2019	19:37	13	2164.7	13	60.6	13	1.945	13	9.214	13	0.0	0.2	
START_UP	08/21/2019	13:21	~	08/21/2019	13:45	25	12958.3	25	1272.8	25	290.988	25	303.404	25	4.8	5.1	
SHUT_DOWN	08/21/2019	14:26	~	08/21/2019	14:38	13	2078.2	13	51.8	13	1.86	13	6.623	13	0.0	0.1	
START_UP	08/21/2019	15:21	~	08/21/2019	15:45	25	17769.1	25	1964.8	25	166.103	25	152.387	25	2.8	2.5	
SHUT_DOWN	08/21/2019	19:10	~	08/21/2019	19:22	13	2164.9	13	60.7	13	1.904	13	7.124	13	0.0	0.1	
START_UP	08/22/2019	09:36	~	08/22/2019	10:00	25	8461.399	25	620.8	25	182.159	25	276.688	25	3.0	4.6	
SHUT_DOWN	08/22/2019	10:40	~	08/22/2019	10:52	13	2151.5	13	58.5	13	2.372	13	7.932	13	0.0	0.1	
START_UP	08/22/2019	16:36	~	08/22/2019	17:00	25	14709.3	25	1512.8	25	136.58	25	332.979	25	2.3	5.5	
SHUT_DOWN	08/22/2019	18:25	~	08/22/2019	18:37	13	2161.9	13	59.4	13	0.605	13	9.753	13	0.0	0.2	
START_UP	08/23/2019	04:51	~	08/23/2019	05:15	25	8333.4	25	601.7	25	122.683	25	257.499	25	2.0	4.3	
SHUT_DOWN	08/23/2019	06:11	~	08/23/2019	06:23	13	2071.6	13	49.9	13	0.776	13	5.557	13	0.0	0.1	
START_UP	08/23/2019	11:51	~	08/23/2019	12:15	25	16407.9	25	1762	25	130.802	25	351.432	25	2.2	5.9	
SHUT_DOWN	08/23/2019	19:26	~	08/23/2019	19:38	13	2092.2	13	53.7	13	2.174	13	7.731	13	0.0	0.1	
START_UP	08/24/2019	15:36	~	08/24/2019	16:00	25	12967.1	25	1264.7	25	335.355	25	340.807	25	5.6	5.7	
SHUT_DOWN	08/24/2019	20:12	~	08/24/2019	20:24	13	2400.3	13	92.4	13	2.614	13	7.683	13	0.0	0.1	
START_UP	08/25/2019	13:21	~	08/25/2019	13:45	25	13039.7	25	1271.2	25	94.179	25	282.453	25	1.6	4.7	
SHUT_DOWN	08/25/2019	20:26	~	08/25/2019	20:38	13	2407.7	13	93.1	13	2.578	13	7.215	13	0.0	0.1	
START_UP	08/26/2019	10:36	~	08/26/2019	11:00	25	11349.6	25	1043.3	25	130.848	25	302.011	25	2.2	5.0	

SHUT_DOWN	08/26/2019	16:52	~	08/26/2019	17:04	13	1682.5	13	5.5	13	0	13	6.938	13	0.0	0.1
START_UP	08/27/2019	12:36	~	08/27/2019	13:00	25	8544	25	629.4	25	105.332	25	268.742	25	1.8	4.5
SHUT_DOWN	08/27/2019	19:25	~	08/27/2019	19:37	13	2229	13	69.2	13	0	13	8.653	13	0.0	0.1
START_UP	08/28/2019	16:36	~	08/28/2019	17:00	25	17074.5	25	1855.4	25	217.209	25	415.53	25	3.6	6.9
SHUT_DOWN	08/28/2019	18:55	~	08/28/2019	19:07	13	2201.2	13	66.7	13	0	13	7.914	13	0.0	0.1
START_UP	08/29/2019	11:21	~	08/29/2019	11:45	25	16375.6	25	1763.6	25	131.678	25	381.112	25	2.2	6.4
SHUT_DOWN	08/29/2019	19:25	~	08/29/2019	19:37	13	2204.9	13	66.2	13	0	13	5.572	13	0.0	0.1
START_UP	08/30/2019	07:51	~	08/30/2019	08:15	25	11073.2	25	996.6	25	295.045	11	303.021	25	4.9	5.1
SHUT_DOWN	08/30/2019	19:11	~	08/30/2019	19:23	13	1981.2	13	40.6	13	0	2	6.556	13	0.0	0.1
START_UP	08/31/2019	10:51	~	08/31/2019	11:15	25	15722.3	25	1670.2	25	309.461	25	357.904	25	5.2	6.0
SHUT_DOWN	08/31/2019	13:57	~	08/31/2019	14:09	13	2259.8	13	76.1	13	0	1	10.534	13	0.0	0.2
START_UP	08/31/2019	17:21	~	08/31/2019	17:45	25	16261	25	1747.5	25	183.351	17	230.292	25	3.1	3.8
SHUT_DOWN	08/31/2019	18:41	~	08/31/2019	18:53	13	2082.1	13	51.4	13	0	13	7.511	13	0.0	0.1
START_UP	09/01/2019	15:21	~	09/01/2019	15:45	25	8160.1	25	583.1	25	256.594	25	263.49	25	4.3	4.4
SHUT_DOWN	09/01/2019	18:41	~	09/01/2019	18:53	13	1993.4	13	41.5	13	0	3	6.357	13	0.0	0.1
START_UP	09/02/2019	11:21	~	09/02/2019	11:45	25	10419.8	25	903.8	25	260.477	25	289.006	25	4.3	4.8
SHUT_DOWN	09/02/2019	19:41	~	09/02/2019	19:53	13	1950.2	13	38.2	13	0	13	6.271	13	0.0	0.1
START_UP	09/03/2019	09:36	~	09/03/2019	10:00	25	14451.7	25	1472	25	247.101	22	375.15	25	4.1	6.3
SHUT_DOWN	09/03/2019	22:10	~	09/03/2019	22:22	13	2168	13	61.1	13	0	13	7.244	13	0.0	0.1
START_UP	09/04/2019	04:51	~	09/04/2019	05:15	25	10089.3	25	862.1	25	305.802	25	265.296	25	5.1	4.4
SHUT_DOWN	09/04/2019	06:40	~	09/04/2019	06:52	13	2159	13	60.7	13	0	13	7.681	13	0.0	0.1
START_UP	09/04/2019	09:51	~	09/04/2019	10:15	25	13670.2	25	1379	25	135.724	25	187.702	25	2.3	3.1
SHUT_DOWN	09/04/2019	22:12	~	09/04/2019	22:24	13	2294.6	13	81	13	0	13	6.214	13	0.0	0.1
START_UP	09/05/2019	06:51	~	09/05/2019	07:15	25	9120.501	25	709.3	25	91.963	25	307.878	25	1.5	5.1
SHUT_DOWN	09/05/2019	07:55	~	09/05/2019	08:07	13	2154.5	13	60.1	13	0	13	13.549	13	0.0	0.2
START_UP	09/05/2019	11:20	~	09/05/2019	11:44	25	13171.5	25	1317.4	25	251.149	25	231.55	25	4.2	3.9
SHUT_DOWN	09/05/2019	21:41	~	09/05/2019	21:53	13	2100	13	53	13	0	13	5.611	13	0.0	0.1
START_UP	09/06/2019	05:06	~	09/06/2019	05:30	25	8133.8	25	584	25	211.937	25	216.013	25	3.5	3.6
SHUT_DOWN	09/06/2019	06:10	~	09/06/2019	06:22	13	2225.6	13	67.5	13	0	13	5.74	13	0.0	0.1
START_UP	09/06/2019	13:17	~	09/06/2019	13:41	25	8525.001	25	634	25	381.987	25	235.724	25	6.4	3.9
SHUT_DOWN	09/06/2019	18:26	~	09/06/2019	18:38	13	1975.2	13	38.9	13	0.009	13	6.435	13	0.0	0.1
START_UP	09/07/2019	12:36	~	09/07/2019	13:00	25	15708.4	25	1670.3	25	486.137	25	390.379	25	8.1	6.5
SHUT_DOWN	09/07/2019	19:41	~	09/07/2019	19:53	13	1988.3	13	41.1	13	0.009	13	6.484	13	0.0	0.1
START_UP	09/08/2019	18:21	~	09/08/2019	18:45	25	8031.599	25	566.4	25	183.306	25	258.587	25	3.1	4.3
SHUT_DOWN	09/08/2019	19:25	~	09/08/2019	19:37	13	2108.4	13	55.6	13	0	13	7.532	13	0.0	0.1
START_UP	09/09/2019	17:51	~	09/09/2019	18:15	25	8246.2	25	594	25	116.209	25	278.818	25	1.9	4.6
SHUT_DOWN	09/09/2019	18:55	~	09/09/2019	19:07	13	2159.8	13	60.1	13	0	13	7.521	13	0.0	0.1
START_UP	09/10/2019	16:36	~	09/10/2019	17:00	25	11941.7	25	1123.4	25	210.079	12	330.649	25	3.5	5.5
SHUT_DOWN	09/10/2019	17:41	~	09/10/2019	17:53	13	2011.9	13	42	13	0	13	6.648	13	0.0	0.1
START_UP	09/11/2019	07:36	~	09/11/2019	08:00	25	17346.6	25	1889.4	25	151.84	25	434.03	25	2.5	7.2
SHUT_DOWN	09/11/2019	12:26	~	09/11/2019	12:38	13	2402	13	91.6	13	0	13	9.542	13	0.0	0.2
START_UP	09/12/2019	16:51	~	09/12/2019	17:15	25	8807.5	25	668.6	25	134.908	25	278.158	25	2.2	4.6
SHUT_DOWN	09/12/2019	19:13	~	09/12/2019	19:25	13	2015.5	13	42.9	13	0	13	6.886	13	0.0	0.1
START_UP	09/13/2019	12:36	~	09/13/2019	13:00	25	10492	25	910.6	25	121.076	25	297.563	25	2.0	5.0
SHUT_DOWN	09/13/2019	14:55	~	09/13/2019	15:07	13	2106.6	13	54.1	13	0	13	6	13	0.0	0.1
START_UP	09/13/2019	16:20	~	09/13/2019	16:44	25	15550	25	1652.2	25	92.036	25	142.374	25	1.5	2.4
SHUT_DOWN	09/13/2019	19:26	~	09/13/2019	19:38	13	1992.7	13	40.1	13	0	13	6.692	13	0.0	0.1
START_UP	09/14/2019	11:36	~	09/14/2019	12:00	25	13970.4	25	1387.2	25	155.263	25	391.031	25	2.6	6.5
SHUT_DOWN	09/14/2019	13:55	~	09/14/2019	14:07	13	2277.1	13	72.6	13	0	13	7.369	13	0.0	0.1
START_UP	09/14/2019	14:50	~	09/14/2019	15:14	25	16456.8	25	1784.9	25	30.557	25	127.659	25	0.5	2.1
SHUT_DOWN	09/14/2019	19:25	~	09/14/2019	19:37	13	2344.8	13	82.1	13	0	13	7.517	13	0.0	0.1
START_UP	09/15/2019	16:36	~	09/15/2019	17:00	25	17346	25	1875.6	25	136.028	25	426.094	25	2.3	7.1
SHUT_DOWN	09/15/2019	21:10	~	09/15/2019	21:22	13	2384	13	87.7	13	0.921	13	8.837	13	0.0	0.1
START_UP	09/16/2019	10:06	~	09/16/2019	10:30	25	12074.3	25	1139.4	25	165.77	25	283.89	25	2.8	4.7
SHUT_DOWN	09/16/2019	11:10	~	09/16/2019	11:22	13		13	60.8	13	1.155	13	7.285	13	0.0	0.1

Variance

START_UP	09/17/2019	07:53	~	09/17/2019	08:17	25	18162.3	25	1991.7	25	101.147	25	458.317	25	1.7	7.6
SHUT_DOWN	09/17/2019	11:55	~	09/17/2019	12:07	13	2216.9	13	65.8	13	0.608	13	7.266	13	0.0	0.1
START_UP	09/17/2019	13:06	~	09/17/2019	13:30	25	18522.8	25	2055.9	25	74.853	18	91.542	18	1.2	1.5
SHUT_DOWN	09/17/2019	14:55	~	09/17/2019	15:07	13	2280.6	13	73	13	0.923	13	7.562	13	0.0	0.1
START_UP	09/18/2019	11:51	~	09/18/2019	12:15	25	12844.6	25	1238.4	25	122.065	25	343.296	25	2.0	5.7
SHUT_DOWN	09/18/2019	13:56	~	09/18/2019	14:08	13	1969.9	13	40.5	13	0.961	13	7.089	13	0.0	0.1
START_UP	09/18/2019	15:35	~	09/18/2019	15:59	25	8505.001	25	631.1	25	206.83	24	82.342	24	3.4	1.4
SHUT_DOWN	09/18/2019	21:55	~	09/18/2019	22:07	13	2139.5	13	58.7	13	0.974	13	6.486	13	0.0	0.1
START_UP	09/19/2019	05:06	~	09/19/2019	05:30	25	8152.3	25	586.1	25	183.754	25	241.028	25	3.1	4.0
SHUT_DOWN	09/19/2019	06:26	~	09/19/2019	06:38	13	2017	13	43.1	13	0.662	13	8.079	13	0.0	0.1
START_UP	09/19/2019	15:22	~	09/19/2019	15:38	17	2794.5	17	70.4	17	147.584	17	189.23	17	2.5	3.2
START_UP	09/20/2019	07:51	~	09/20/2019	08:15	25	8367.6	25	604	25	106.312	25	286.86	25	1.8	4.8
SHUT_DOWN	09/20/2019	10:56	~	09/20/2019	11:08	13	2029.9	13	43.3	13	0.841	13	8.238	13	0.0	0.1
START_UP	09/20/2019	14:51	~	09/20/2019	15:15	25	9288.7	25	724.3	25	73.162	25	219.105	25	1.2	3.7
SHUT_DOWN	09/20/2019	15:56	~	09/20/2019	16:08	13	2047.4	13	45	13	1.124	13	8.437	13	0.0	0.1
START_UP	09/21/2019	15:51	~	09/21/2019	16:15	25	8513	25	622.6	25	134.046	25	290.232	25	2.2	4.8
SHUT_DOWN	09/21/2019	16:56	~	09/21/2019	17:08	13	2046	13	44.7	13	1.016	13	9.002	13	0.0	0.2
START_UP	09/21/2019	17:55	~	09/21/2019	18:19	25	8204	25	591.5	25	127.657	25	89.311	25	2.1	1.5
SHUT_DOWN	09/21/2019	19:10	~	09/21/2019	19:22	13	2185.4	13	62.7	13	0.91	13	7.273	13	0.0	0.1
START_UP	09/22/2019	11:06	~	09/22/2019	11:30	25	10822.5	25	940.8	25	246.041	25	360.467	25	4.1	6.0
SHUT_DOWN	09/22/2019	12:10	~	09/22/2019	12:22	13	2274.6	13	72.9	13	1.108	13	10.474	13	0.0	0.2
START_UP	09/22/2019	14:21	~	09/22/2019	14:45	25	8466.199	25	615.1	25	263.301	25	102.367	25	4.4	1.7
SHUT_DOWN	09/22/2019	19:26	~	09/22/2019	19:38	13	2012.1	13	42.4	13	0.004	13	6.683	13	0.0	0.1
START_UP	09/23/2019	05:51	~	09/23/2019	05:53	3	450.7	3	6.5	3	87.453	3	19.057	3	1.5	0.3
START_UP	09/23/2019	11:50	~	09/23/2019	12:14	25	11714.7	25	1055.9	25	67.941	25	361.118	25	1.1	6.0
SHUT_DOWN	09/23/2019	18:41	~	09/23/2019	18:53	13	1956.7	13	34.5	13	0	13	5.454	13	0.0	0.1
START_UP	09/24/2019	05:51	~	09/24/2019	06:15	25	8760.8	25	651.1	25	88.252	25	272.685	25	1.5	4.5
SHUT_DOWN	09/24/2019	19:10	~	09/24/2019	19:22	13	2118.2	13	54.8	13	0	13	7.441	13	0.0	0.1
START_UP	09/25/2019	06:36	~	09/25/2019	07:00	25	8604.2	25	633.4	25	98.396	25	256.825	25	1.6	4.3
SHUT_DOWN	09/25/2019	09:13	~	09/25/2019	09:25	13	2300.5	13	78.8	13	0	13	7.101	13	0.0	0.1
START_UP	09/25/2019	14:52	~	09/25/2019	15:16	25	8113	25	579.2	25	114.763	25	226.872	25	1.9	3.8
SHUT_DOWN	09/25/2019	19:26	~	09/25/2019	19:38	13	2042.6	13	47.1	13	0	13	6.752	13	0.0	0.1
START_UP	09/26/2019	07:35	~	09/26/2019	07:59	25	8349.3	25	607.6	25	140.045	25	259.806	25	2.3	4.3
SHUT_DOWN	09/26/2019	14:11	~	09/26/2019	14:23	13	2284.3	13	74.5	13	0	13	12.373	13	0.0	0.2
START_UP	09/26/2019	17:05	~	09/26/2019	17:29	25	13458.8	25	1320.5	25	210.372	25	196.017	25	3.5	3.3
SHUT_DOWN	09/26/2019	20:40	~	09/26/2019	20:52	13	2054.4	13	47.9	13	0	13	7.865	13	0.0	0.1
START_UP	09/27/2019	05:21	~	09/27/2019	05:45	25	8421.9	25	613	25	100.029	25	251.923	25	1.7	4.2
SHUT_DOWN	09/27/2019	13:55	~	09/27/2019	14:07	13	2166	13	60.8	13	0	13	7.306	13	0.0	0.1
START_UP	09/27/2019	17:51	~	09/27/2019	18:15	25	8179	25	582.8	25	193.157	25	181.39	25	3.2	3.0
SHUT_DOWN	09/27/2019	18:55	~	09/27/2019	19:07	13	2005.2	13	41.8	13	0	13	6.32	13	0.0	0.1
START_UP	09/30/2019	04:51	~	09/30/2019	05:15	25	8280.8	25	593.6	25	76.13	25	295.656	25	1.3	4.9
SHUT_DOWN	09/30/2019	07:25	~	09/30/2019	07:37	13	2175.1	13	61.2	13	0	13	10.351	13	0.0	0.2
START_UP	09/30/2019	09:16	~	09/30/2019	09:40	25	16541.9	25	1772.2	25	68.68	25	160.287	25	1.1	2.7
SHUT_DOWN	09/30/2019	13:25	~	09/30/2019	13:37	13	2153.7	13	60.2	13	0.317	13	9.913	13	0.0	0.2

Startup / ShutDown Report
 Generated: 10/16/2019 06:54
 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: 7/1/2019 00:00
 Period End: 9/30/2019 23:59
 Unit Name: Unit9

Events	Time	Duration (min)	Total			Total			Total			Total			Event	Nox
			9_GasFlow (kscfh)	Valid Mins	9Gross_MW (MW)	Valid Mins	9COLBHR (LBHR)	Valid Mins	9NOXLBHR (LBHR)	Valid Mins	CO	LBs	LBs			
START_UP	07/04/2019 17:32 ~ 07/04/2019 17:56	25	18973	25	2143.6	25	262.546	25	494.337	25	4.4	8.2				
SHUT_DOWN	07/04/2019 19:57 ~ 07/04/2019 20:09	13	2629.9	13	122	13	2.375	13	10.731	13	0.0	0.2				
START_UP	07/10/2019 17:31 ~ 07/10/2019 17:55	25	19792.5	25	2242.8	25	154.775	25	480.925	25	2.6	8.0				
SHUT_DOWN	07/10/2019 19:11 ~ 07/10/2019 19:23	13	2118.7	13	53.9	13	1.313	13	9.24	13	0.0	0.2				
START_UP	07/11/2019 17:25 ~ 07/11/2019 17:49	25	13896.6	25	1410.9	25	413.528	25	327.499	25	6.9	5.5				
SHUT_DOWN	07/11/2019 19:56 ~ 07/11/2019 20:08	13	2225.7	13	66	13	1.878	13	7.212	13	0.0	0.1				
START_UP	07/12/2019 16:52 ~ 07/12/2019 17:16	25	8113.3	25	580.6	25	246.232	25	247.202	25	4.1	4.1				
SHUT_DOWN	07/12/2019 19:56 ~ 07/12/2019 20:08	13	2194.5	13	64.2	13	1.73	13	8.905	13	0.0	0.1				
START_UP	07/15/2019 17:21 ~ 07/15/2019 17:45	25	16166.1	25	1717.8	25	339.195	25	361.527	25	5.7	6.0				
SHUT_DOWN	07/15/2019 18:41 ~ 07/15/2019 18:53	13	2098.1	13	53.2	13	2.007	13	8.007	13	0.0	0.1				
START_UP	07/18/2019 09:52 ~ 07/18/2019 10:16	25	8207.301	25	580.7	25	324.364	25	258.23	25	5.4	4.3				
SHUT_DOWN	07/18/2019 12:41 ~ 07/18/2019 12:53	13	2092.7	13	51.3	13	3.575	13	8.84	13	0.1	0.1				
START_UP	07/18/2019 17:21 ~ 07/18/2019 17:45	25	12373.4	25	1179.8	25	199.318	25	240.161	25	3.3	4.0				
SHUT_DOWN	07/18/2019 20:12 ~ 07/18/2019 20:24	13	2417.6	13	93.5	13	2.429	13	9.902	13	0.0	0.2				
START_UP	07/21/2019 16:52 ~ 07/21/2019 17:16	25	18897.9	25	2108.4	25	363.323	25	412.606	25	6.1	6.9				
SHUT_DOWN	07/21/2019 20:26 ~ 07/21/2019 20:38	13	2130.5	13	55.4	13	2.045	13	9.497	13	0.0	0.2				
START_UP	07/22/2019 15:17 ~ 07/22/2019 15:41	25	10123.5	25	855	25	377.465	25	250.041	25	6.3	4.2				
SHUT_DOWN	07/22/2019 20:11 ~ 07/22/2019 20:23	13	2095.9	13	51.9	13	1.563	13	8.608	13	0.0	0.1				
START_UP	07/23/2019 10:52 ~ 07/23/2019 11:16	25	11279.5	25	1026	25	387.065	25	268.79	25	6.5	4.5				
SHUT_DOWN	07/23/2019 20:11 ~ 07/23/2019 20:23	13	2103.2	13	52.8	13	1.522	13	9.227	13	0.0	0.2				
START_UP	07/24/2019 09:36 ~ 07/24/2019 10:00	25	12273.4	25	1162.1	25	410.671	25	282.777	25	6.8	4.7				
SHUT_DOWN	07/24/2019 18:56 ~ 07/24/2019 19:08	13	2093.5	13	50.8	13	1.849	13	7.835	13	0.0	0.1				
START_UP	07/25/2019 14:51 ~ 07/25/2019 15:15	25	9427.2	25	756.5	25	480.549	25	278.668	25	8.0	4.6	BRK-0041			
SHUT_DOWN	07/25/2019 18:25 ~ 07/25/2019 18:37	13	2208.4	13	65	13	1.547	13	9.671	13	0.0	0.2				
START_UP	08/01/2019 13:21 ~ 08/01/2019 13:45	25	10289.3	25	876.9	25	385.996	25	295.474	25	6.4	4.9				
SHUT_DOWN	08/01/2019 20:56 ~ 08/01/2019 21:08	13	2145.2	13	55.4	13	1.718	13	10.961	13	0.0	0.2				
START_UP	08/02/2019 15:51 ~ 08/02/2019 16:15	25	9391.3	25	747.3	25	432.258	25	256.675	25	7.2	4.3				
SHUT_DOWN	08/02/2019 19:41 ~ 08/02/2019 19:53	13	2083.8	13	50.8	13	1.844	13	8.561	13	0.0	0.1				
START_UP	08/03/2019 13:26 ~ 08/03/2019 13:50	25	19180.8	25	2153.6	25	262.426	25	436.039	25	4.4	7.3				
SHUT_DOWN	08/03/2019 20:26 ~ 08/03/2019 20:38	13	2126.7	13	55.1	13	1.983	13	8.78	13	0.0	0.1				
START_UP	08/04/2019 15:36 ~ 08/04/2019 16:00	25	12470.8	25	1209.5	25	357.074	25	275.058	25	6.0	4.6				
SHUT_DOWN	08/04/2019 20:41 ~ 08/04/2019 20:53	13	2065.1	13	48	13	1.883	13	8.314	13	0.0	0.1				
START_UP	08/05/2019 12:51 ~ 08/05/2019 13:15	25	11016.6	25	977.9	25	312.905	25	291.094	25	5.2	4.9				
SHUT_DOWN	08/05/2019 20:56 ~ 08/05/2019 21:08	13	2102.5	13	52.6	13	2.068	13	7.153	13	0.0	0.1				
START_UP	08/06/2019 12:36 ~ 08/06/2019 13:00	25	13806.6	25	1388.6	25	333.03	22	267.34	22	5.6	4.5				
SHUT_DOWN	08/06/2019 19:26 ~ 08/06/2019 19:38	13	2101.8	13	52.8	13	2.904	13	9.084	13	0.0	0.2				
START_UP	08/07/2019 15:51 ~ 08/07/2019 16:15	25	13953.4	25	1420	25	287.765	25	316.041	25	4.8	5.3				
SHUT_DOWN	08/07/2019 19:26 ~ 08/07/2019 19:38	13	2038.6	13	45.8	13	0	13	9.446	13	0.0	0.2				
START_UP	08/09/2019 16:22 ~ 08/09/2019 16:46	25	13254.3	25	1302.1	25	167.159	25	330.469	25	2.8	5.5				
SHUT_DOWN	08/09/2019 21:25 ~ 08/09/2019 21:37	13	2456.8	13	96.8	13	0.26	13	10.151	13	0.0	0.2				
START_UP	08/10/2019 18:21 ~ 08/10/2019 18:45	25	16235.9	25	1746.4	25	141.136	25	318.746	25	2.4	5.3				
SHUT_DOWN	08/10/2019 20:10 ~ 08/10/2019 20:22	13	2197.1	13	63.2	13	0	13	10.381	13	0.0	0.2				

START_UP	08/11/2019	15:21	~	08/11/2019	15:45	25	7942.2	25	556.5	25	300.727	25	232.331	25	5.0	3.9
SHUT_DOWN	08/11/2019	20:11	~	08/11/2019	20:23	13	2234.6	13	69.4	13	0	13	8.56	13	0.0	0.1
START_UP	08/12/2019	17:06	~	08/12/2019	17:30	25	9763	25	811.7	25	161.818	25	262.403	25	2.7	4.4
SHUT_DOWN	08/12/2019	19:25	~	08/12/2019	19:37	13	2207.5	13	64.9	13	0	13	9.455	13	0.0	0.2
START_UP	08/13/2019	15:36	~	08/13/2019	16:00	25	16808.9	25	1822.1	25	249.449	25	409.682	25	4.2	6.8
SHUT_DOWN	08/13/2019	20:26	~	08/13/2019	20:38	13	2072.5	13	49.3	13	0	13	8.48	13	0.0	0.1
START_UP	08/14/2019	17:37	~	08/14/2019	18:01	25	18482.9	25	2064.7	25	185.712	25	405.717	25	3.1	6.8
SHUT_DOWN	08/14/2019	20:12	~	08/14/2019	20:24	13	2264.6	13	74	13	0.024	13	11.124	13	0.0	0.2
START_UP	08/15/2019	11:51	~	08/15/2019	12:15	25	11015.8	25	974.4	25	170.233	25	292.051	25	2.8	4.9
SHUT_DOWN	08/15/2019	13:56	~	08/15/2019	14:08	13	2023.1	13	44.9	13	0	13	9.055	13	0.0	0.2
START_UP	08/15/2019	16:21	~	08/15/2019	16:45	25	15415.8	25	1628.3	25	237.169	25	123.915	25	4.0	2.1
SHUT_DOWN	08/15/2019	19:27	~	08/15/2019	19:39	13	2259.3	13	74.6	13	0	13	9.601	13	0.0	0.2
START_UP	08/17/2019	17:52	~	08/17/2019	18:16	25	19620.6	25	2230.6	25	137.631	25	455.365	25	2.3	7.6
SHUT_DOWN	08/17/2019	19:41	~	08/17/2019	19:53	13	2070.1	13	49.7	13	0	13	9.715	13	0.0	0.2
START_UP	08/18/2019	17:06	~	08/18/2019	17:30	25	19334.6	25	2199.9	25	141.406	25	444.152	25	2.4	7.4
SHUT_DOWN	08/18/2019	20:10	~	08/18/2019	20:22	13	2203.2	13	65.7	13	0	13	10.691	13	0.0	0.2
START_UP	08/19/2019	16:36	~	08/19/2019	17:00	25	13144.4	25	1298.6	25	256.351	25	330.008	25	4.3	5.5
SHUT_DOWN	08/19/2019	19:26	~	08/19/2019	19:38	13	2000.9	13	42.8	13	0	13	8.583	13	0.0	0.1
START_UP	08/20/2019	17:07	~	08/20/2019	17:31	25	12549.9	25	1217.6	25	200.035	25	272.159	25	3.3	4.5
SHUT_DOWN	08/20/2019	19:25	~	08/20/2019	19:37	13	2180.2	13	62.3	13	0.014	13	9.993	13	0.0	0.2
START_UP	08/21/2019	13:21	~	08/21/2019	13:45	25	12954.9	25	1273.7	25	289.867	25	270.577	25	4.8	4.5
SHUT_DOWN	08/21/2019	14:26	~	08/21/2019	14:38	13	2101.3	13	53.5	13	1.511	13	8.044	13	0.0	0.1
START_UP	08/21/2019	15:21	~	08/21/2019	15:45	25	17843.4	25	1975	25	160.036	25	138.266	25	2.7	2.3
SHUT_DOWN	08/21/2019	19:10	~	08/21/2019	19:22	13	2178.3	13	62.4	13	0	13	9.859	13	0.0	0.2
START_UP	08/23/2019	04:51	~	08/23/2019	05:15	25	8345.399	25	602.8	25	208.568	25	243.935	25	3.5	4.1
SHUT_DOWN	08/23/2019	06:11	~	08/23/2019	06:23	13	2100.7	13	53.1	13	0	13	6.875	13	0.0	0.1
START_UP	08/23/2019	14:21	~	08/23/2019	14:45	25	19626	25	2237.8	25	147.326	25	432.768	25	2.5	7.2
SHUT_DOWN	08/23/2019	19:26	~	08/23/2019	19:38	13	2112.7	13	55	13	0.051	13	9.348	13	0.0	0.2
START_UP	08/24/2019	16:52	~	08/24/2019	17:16	25	19724.1	25	2229.8	25	179.827	25	453.403	25	3.0	7.6
SHUT_DOWN	08/24/2019	20:12	~	08/24/2019	20:24	13	2483.2	13	102	13	0.281	13	11.307	13	0.0	0.2
START_UP	08/25/2019	13:21	~	08/25/2019	13:45	25	13007.6	25	1269.1	25	136.038	25	267.614	25	2.3	4.5
SHUT_DOWN	08/25/2019	20:27	~	08/25/2019	20:39	13	2482.3	13	103	13	0.101	13	10.856	13	0.0	0.2
START_UP	08/26/2019	14:36	~	08/26/2019	15:00	25	9591.1	25	773.1	25	144.419	25	271.521	25	2.4	4.5
SHUT_DOWN	08/26/2019	19:41	~	08/26/2019	19:53	13	2121.6	13	56.7	13	0.051	13	9.63	13	0.0	0.2
START_UP	08/27/2019	14:21	~	08/27/2019	14:45	25	15980.2	25	1700.7	25	152.604	25	351.15	25	2.5	5.9
SHUT_DOWN	08/27/2019	19:26	~	08/27/2019	19:38	13	2059.4	13	48.7	13	0	13	8.437	13	0.0	0.1
START_UP	08/28/2019	17:51	~	08/28/2019	18:15	25	19287.2	25	2177.2	25	169.116	25	444.154	25	2.8	7.4
SHUT_DOWN	08/28/2019	18:56	~	08/28/2019	19:08	13	2039.2	13	46.5	13	0.203	13	8.353	13	0.0	0.1
START_UP	08/29/2019	11:21	~	08/29/2019	11:45	25	16395.9	25	1766.3	25	196.317	25	352.361	25	3.3	5.9
SHUT_DOWN	08/29/2019	12:53	~	08/29/2019	13:05	13	2206.9	13	65	13	0	13	9.571	13	0.0	0.2
START_UP	08/29/2019	14:05	~	08/29/2019	14:29	25	14673.2	25	1519.7	25	69.104	25	107.201	25	1.2	1.8
SHUT_DOWN	08/29/2019	19:25	~	08/29/2019	19:37	13	2208	13	66.1	13	0	13	9.338	13	0.0	0.2
START_UP	08/30/2019	07:51	~	08/30/2019	08:15	25	11175.5	25	1011.9	25	257.569	25	267.228	25	4.3	4.5
SHUT_DOWN	08/30/2019	19:11	~	08/30/2019	19:23	13	2024.1	13	45.2	13	0	13	9.201	13	0.0	0.2
START_UP	08/31/2019	10:51	~	08/31/2019	11:15	25	15734.6	25	1672.5	25	300.982	25	322.479	25	5.0	5.4
SHUT_DOWN	08/31/2019	13:57	~	08/31/2019	14:09	13	2314.3	13	82.8	13	0	13	11.594	13	0.0	0.2
START_UP	08/31/2019	17:21	~	08/31/2019	17:45	25	16287.6	25	1748.9	25	177.418	25	209.289	25	3.0	3.5
SHUT_DOWN	08/31/2019	18:41	~	08/31/2019	18:53	13	2138.4	13	57.6	13	0	13	9.71	13	0.0	0.2
START_UP	09/01/2019	15:21	~	09/01/2019	15:45	25	8205.9	25	588.1	25	265.973	25	233.513	25	4.4	3.9
SHUT_DOWN	09/01/2019	18:41	~	09/01/2019	18:53	13	2001.4	13	41.7	13	0	13	8.383	13	0.0	0.1
START_UP	09/02/2019	11:21	~	09/02/2019	11:45	25	10487.3	25	911.1	25	278.162	25	258.494	25	4.6	4.3
SHUT_DOWN	09/02/2019	19:41	~	09/02/2019	19:53	13	1993.5	13	40.9	13	0	13	8.64	13	0.0	0.1
START_UP	09/03/2019	10:51	~	09/03/2019	11:15	25	18110.1	25	2008.9	25	272.161	25	369.962	25	4.5	6.2
SHUT_DOWN	09/03/2019	22:10	~	09/03/2019	22:22	13	2161.8	13	60.3	13	11.452	13	9.208	13	0.2	0.2
START_UP	09/04/2019	07:36	~	09/04/2019	08:00	25	8140.101	25	584.5	25	254.422	25	217.712	25	4.2	3.6

SHUT_DOWN	09/04/2019	20:46	~	09/04/2019	20:58	13	2523.5	13	106.1	13	4.024	13	12.092	13	0.1	0.2
START_UP	09/05/2019	09:36	~	09/05/2019	10:00	25	16454.3	25	1764.9	25	161.29	25	368.713	25	2.7	6.1
SHUT_DOWN	09/05/2019	22:41	~	09/05/2019	22:53	13	2120.4	13	55.8	13	0	13	9.365	13	0.0	0.2
START_UP	09/06/2019	13:16	~	09/06/2019	13:40	25	8057.399	25	587.2	25	408.384	25	221.27	25	6.8	3.7
SHUT_DOWN	09/06/2019	18:25	~	09/06/2019	18:37	13	2175.1	13	61.3	13	0	13	9.556	13	0.0	0.2
START_UP	09/07/2019	13:46	~	09/07/2019	14:10	25	13678.5	25	1373.2	25	317.048	25	296.817	25	5.3	4.9
SHUT_DOWN	09/07/2019	19:41	~	09/07/2019	19:53	13	2023.3	13	44.6	13	0	13	9.159	13	0.0	0.2
START_UP	09/08/2019	18:21	~	09/08/2019	18:45	25	8080.9	25	572.7	25	174.806	25	235.357	25	2.9	3.9
SHUT_DOWN	09/08/2019	19:25	~	09/08/2019	19:37	13	2136.2	13	57.9	13	0	13	10.141	13	0.0	0.2
START_UP	09/09/2019	17:51	~	09/09/2019	18:15	25	8294.5	25	599.6	25	148.623	25	244.704	25	2.5	4.1
SHUT_DOWN	09/09/2019	18:55	~	09/09/2019	19:07	13	2169.8	13	61.4	13	0	13	10.508	13	0.0	0.2
START_UP	09/10/2019	18:36	~	09/10/2019	19:00	25	18691.2	25	2090.2	25	186.759	25	418.422	25	3.1	7.0
SHUT_DOWN	09/10/2019	19:40	~	09/10/2019	19:52	13	2175.4	13	61.2	13	0	13	9.648	13	0.0	0.2
START_UP	09/11/2019	08:46	~	09/11/2019	09:10	25	16546.4	25	1797.8	25	133.873	25	339.028	25	2.2	5.7
SHUT_DOWN	09/11/2019	14:11	~	09/11/2019	14:23	13	2584.2	13	114.3	13	0	13	13.088	13	0.0	0.2
START_UP	09/12/2019	16:51	~	09/12/2019	17:15	25	8859.7	25	675.3	25	141.57	25	247.588	25	2.4	4.1
SHUT_DOWN	09/12/2019	19:13	~	09/12/2019	19:25	13	2091.7	13	51.7	13	0	13	9.444	13	0.0	0.2
START_UP	09/13/2019	16:21	~	09/13/2019	16:45	25	16196.7	25	1737.4	25	163.646	25	319.737	25	2.7	5.3
SHUT_DOWN	09/13/2019	19:25	~	09/13/2019	19:37	13	2186.6	13	62.1	13	0	13	10.695	13	0.0	0.2
START_UP	09/14/2019	12:47	~	09/14/2019	13:11	25	16788.2	25	1823.1	25	323.229	25	359.413	25	5.4	6.0
SHUT_DOWN	09/14/2019	13:55	~	09/14/2019	14:07	13	2315.3	13	76.3	13	0	13	9.363	13	0.0	0.2
START_UP	09/14/2019	14:50	~	09/14/2019	15:14	25	16521.3	25	1789.8	25	16.812	25	119.936	25	0.3	2.0
SHUT_DOWN	09/14/2019	19:25	~	09/14/2019	19:37	13	2403.7	13	88.5	13	0	13	8.187	13	0.0	0.1
START_UP	09/15/2019	17:51	~	09/15/2019	18:15	25	18350.9	25	2051.3	25	159.351	25	434.209	25	2.7	7.2
SHUT_DOWN	09/15/2019	21:10	~	09/15/2019	21:22	13	2408.7	13	89	13	0	13	9.526	13	0.0	0.2
START_UP	09/16/2019	12:06	~	09/16/2019	12:30	25	16813.8	25	1812.6	25	166.417	25	357.222	25	2.8	6.0
SHUT_DOWN	09/16/2019	15:40	~	09/16/2019	15:52	13	2200.7	13	64.3	13	0	13	10.162	13	0.0	0.2
START_UP	09/17/2019	09:46	~	09/17/2019	10:10	25	16663.1	25	1808.3	25	225.938	25	336.346	25	3.8	5.6
SHUT_DOWN	09/17/2019	11:56	~	09/17/2019	12:08	13	1994.4	13	40.1	13	0	13	9.59	13	0.0	0.2
START_UP	09/18/2019	11:51	~	09/18/2019	12:15	25	12834.1	25	1238.3	25	153.839	25	291.382	25	2.6	4.9
SHUT_DOWN	09/18/2019	13:55	~	09/18/2019	14:07	13	2198.9	13	63.9	13	0	13	9.163	13	0.0	0.2
START_UP	09/18/2019	17:16	~	09/18/2019	17:40	25	16602	25	1794.4	25	167.683	25	208.84	25	2.8	3.5
SHUT_DOWN	09/18/2019	21:55	~	09/18/2019	22:07	13	2116.3	13	54.5	13	0	13	7.69	13	0.0	0.1
START_UP	09/19/2019	05:06	~	09/19/2019	05:30	25	8186.601	25	589.9	25	165.382	25	224.691	25	2.8	3.7
SHUT_DOWN	09/19/2019	06:25	~	09/19/2019	06:37	13	2224.5	13	66.2	13	0	13	10.654	13	0.0	0.2
START_UP	09/19/2019	15:22	~	09/19/2019	15:46	25	9658	25	773.7	25	169.931	25	257.491	25	2.8	4.3
SHUT_DOWN	09/19/2019	16:56	~	09/19/2019	17:08	13	2137.6	13	57	13	0	13	7.402	13	0.0	0.1
START_UP	09/20/2019	07:51	~	09/20/2019	08:15	25	8397.299	25	608.3	25	148.992	25	246.635	25	2.5	4.1
SHUT_DOWN	09/20/2019	10:56	~	09/20/2019	11:08	13	2062.2	13	46.3	13	0	13	9.563	13	0.0	0.2
START_UP	09/21/2019	15:51	~	09/21/2019	16:15	25	8585.2	25	630.1	25	118.547	25	257.749	25	2.0	4.3
SHUT_DOWN	09/21/2019	16:56	~	09/21/2019	17:08	13	2095.6	13	50.1	13	0	13	9.202	13	0.0	0.2
START_UP	09/21/2019	17:55	~	09/21/2019	18:19	25	8363.9	25	606.4	25	219.884	25	83.315	25	3.7	1.4
SHUT_DOWN	09/21/2019	19:11	~	09/21/2019	19:23	13	2011.1	13	42.3	13	0	13	9.52	13	0.0	0.2
START_UP	09/22/2019	14:21	~	09/22/2019	14:45	25	8303.2	25	600.8	25	257.688	22	241.75	22	4.3	4.0
SHUT_DOWN	09/22/2019	19:26	~	09/22/2019	19:38	13	2037	13	44.9	13	0	13	9.419	13	0.0	0.2
START_UP	09/23/2019	05:51	~	09/23/2019	05:53	3	464	3	8.4	3	132.548	3	19.233	3	2.2	0.3
START_UP	09/23/2019	13:01	~	09/23/2019	13:25	25	10501.7	25	914	25	232.793	25	362.05	25	3.9	6.0
SHUT_DOWN	09/23/2019	18:41	~	09/23/2019	18:53	13	2032	13	42.3	13	0	13	8.961	13	0.0	0.1
START_UP	09/24/2019	07:46	~	09/24/2019	08:10	25	11133.9	25	988	25	194.973	25	327.447	25	3.2	5.5
SHUT_DOWN	09/24/2019	19:10	~	09/24/2019	19:22	13	2176.9	13	62	13	0	13	9.898	13	0.0	0.2
START_UP	09/25/2019	08:02	~	09/25/2019	08:26	25	8187.8	25	586.8	25	194.226	25	236.76	25	3.2	3.9
SHUT_DOWN	09/25/2019	13:56	~	09/25/2019	14:08	13	1982.2	13	40.4	13	0	13	8.29	13	0.0	0.1
START_UP	09/25/2019	14:51	~	09/25/2019	15:15	25	7989.299	25	572.2	25	49.063	25	73.407	25	0.8	1.2
SHUT_DOWN	09/25/2019	19:26	~	09/25/2019	19:38	13	2053.5	13	48.1	13	0	13	10.847	13	0.0	0.2
START_UP	09/26/2019	12:46	~	09/26/2019	13:10	25	11321.3	25	1006.5	25	129.026	25	307.866	25	2.2	5.1

SHUT_DOWN	09/26/2019	19:39 ~ 09/26/2019	19:51	13	2140.5	13	55	13	0	13	8.554	13	0.0	0.1
START_UP	09/27/2019	07:36 ~ 09/27/2019	08:00	25	11306.6	25	1005.6	25	236.474	25	278.221	25	3.9	4.6
SHUT_DOWN	09/27/2019	16:55 ~ 09/27/2019	17:07	13	2577.3	13	113	13	0	13	10.576	13	0.0	0.2
START_UP	09/30/2019	09:17 ~ 09/30/2019	09:41	25	17072.6	25	1846.1	25	113.511	25	447.695	25	1.9	7.5
SHUT_DOWN	09/30/2019	13:25 ~ 09/30/2019	13:37	13	2171.9	13	62.1	13	0	13	11.674	13	0.0	0.2

Startup / ShutDown Report
 Generated: 10/16/2019 06:54
 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: 7/1/2019 00:00
 Period End: 9/30/2019 23:59
 Unit Name: Unit10

Events	Time	Duration (min)	Total 10 GasFlow			Total 10 Gross MW			Total 10 COLBHR			Total 10 NOXLBHR			Event CO LBS	Event Nox LBS
			10 GasFlow (kscfh)	Valid Mins	Total (kscfh)	10 Gross MW (MW)	Valid Mins	Total (MW)	10 COLBHR (LBHR)	Valid Mins	Total (LBHR)	10 NOXLBHR (LBHR)	Valid Mins	Total (LBHR)		
START_UP	07/04/2019 17:32 ~ 07/04/2019 17:56	25	19653	25	2236.3	25	307.995	25	559.998	25	5.1	9.3				
SHUT_DOWN	07/04/2019 19:56 ~ 07/04/2019 20:08	13	2274.2	13	77.2	13	1.406	13	10.574	13	0.0	0.2				
START_UP	07/12/2019 14:52 ~ 07/12/2019 15:16	25	8606.2	25	640.6	25	104.495	25	293.727	25	1.7	4.9				
SHUT_DOWN	07/12/2019 19:56 ~ 07/12/2019 20:08	13	2221.7	13	70.6	13	2.134	13	8.913	13	0.0	0.1				
START_UP	07/18/2019 17:22 ~ 07/18/2019 17:46	25	11641.1	25	1075.8	25	59.736	15	275.792	15	1.0	4.6				
SHUT_DOWN	07/18/2019 19:26 ~ 07/18/2019 19:38	13	2208.9	13	67.5	13	2.084	13	9.957	13	0.0	0.2				
START_UP	07/21/2019 15:36 ~ 07/21/2019 16:00	25	17223.6	25	1893.5	25	376.842	25	414.886	25	6.3	6.9				
SHUT_DOWN	07/21/2019 19:26 ~ 07/21/2019 19:38	13	2244.5	13	70.4	13	2.505	13	8.983	13	0.0	0.1				
START_UP	07/22/2019 11:54 ~ 07/22/2019 12:18	25	13915.9	25	1403.3	25	294.548	25	339.374	25	4.9	5.7				
SHUT_DOWN	07/22/2019 20:11 ~ 07/22/2019 20:23	13	2241.4	13	72.9	13	2.735	13	9.875	13	0.0	0.2				
START_UP	07/23/2019 13:06 ~ 07/23/2019 13:30	25	14308.4	25	1481.2	25	587.337	25	391.735	25	9.8	6.5	BRK-0042			
SHUT_DOWN	07/23/2019 19:57 ~ 07/23/2019 20:09	13	2214.6	13	67.8	13	3.303	13	9.521	13	0.1	0.2				
START_UP	07/24/2019 09:36 ~ 07/24/2019 10:00	25	12653	25	1229.6	25	442.789	25	330.156	25	7.4	5.5				
SHUT_DOWN	07/24/2019 17:56 ~ 07/24/2019 18:08	13	2067.8	13	49.3	13	2.831	13	7.931	13	0.0	0.1				
START_UP	07/25/2019 15:22 ~ 07/25/2019 15:46	25	18532.6	25	2074.2	25	553.928	25	447.361	25	9.2	7.5	BRK-0042			
SHUT_DOWN	07/25/2019 18:11 ~ 07/25/2019 18:23	13	2153.1	13	59.5	13	3.02	13	9.878	13	0.1	0.2				
START_UP	07/31/2019 11:06 ~ 07/31/2019 11:30	25	14768.2	25	1542.2	25	240.725	25	413.945	25	4.0	6.9				
SHUT_DOWN	07/31/2019 12:11 ~ 07/31/2019 12:23	13	2113.1	13	56.2	13	2.802	13	9.07	13	0.0	0.2				
START_UP	08/01/2019 16:36 ~ 08/01/2019 17:00	25	9234.4	25	732.4	25	307.678	25	307.195	25	5.1	5.1				
SHUT_DOWN	08/01/2019 19:27 ~ 08/01/2019 19:39	13	2551.1	13	110.9	13	3.499	13	8.844	13	0.1	0.1				
START_UP	08/02/2019 17:22 ~ 08/02/2019 17:46	25	16990	25	1845.4	25	139.736	25	368.211	25	2.3	6.1				
SHUT_DOWN	08/02/2019 18:27 ~ 08/02/2019 18:39	13	2381.6	13	90.6	13	3.364	13	8.521	13	0.1	0.1				
START_UP	08/03/2019 13:26 ~ 08/03/2019 13:50	25	19830	25	2241.7	25	271.879	25	518.279	25	4.5	8.6				
SHUT_DOWN	08/03/2019 19:26 ~ 08/03/2019 19:38	13	2170.4	13	62	13	2.265	13	8.696	13	0.0	0.1				
START_UP	08/04/2019 15:21 ~ 08/04/2019 15:45	25	8906.299	25	692.5	25	436.087	25	284.716	25	7.3	4.7				
SHUT_DOWN	08/04/2019 20:11 ~ 08/04/2019 20:23	13	2605.2	13	118.2	13	3.158	13	9.779	13	0.1	0.2				
START_UP	08/05/2019 01:03 ~ 08/05/2019 01:27	25	8430.5	25	623.8	25	156.889	25	229.956	25	2.6	3.8				
SHUT_DOWN	08/05/2019 05:41 ~ 08/05/2019 05:53	13	2061.5	13	50.1	13	2.202	13	8.059	13	0.0	0.1				
START_UP	08/05/2019 14:51 ~ 08/05/2019 15:15	25	12123.6	25	1156.3	25	331.556	25	285.264	25	5.5	4.8				
SHUT_DOWN	08/05/2019 18:56 ~ 08/05/2019 19:08	13	2119.7	13	57.2	13	2.255	13	9.124	13	0.0	0.2				
START_UP	08/06/2019 13:52 ~ 08/06/2019 14:16	25	18328.6	25	2035.4	25	169.788	25	413.629	25	2.8	6.9				
SHUT_DOWN	08/06/2019 19:26 ~ 08/06/2019 19:38	13	2157.3	13	63.4	13	1.801	13	8.653	13	0.0	0.1				
START_UP	08/09/2019 17:21 ~ 08/09/2019 17:45	25	18222.9	25	2035.3	25	220.348	25	447.134	25	3.7	7.5				
SHUT_DOWN	08/09/2019 20:26 ~ 08/09/2019 20:38	13	2635.1	13	124.8	13	2.453	13	8.904	13	0.0	0.1				
START_UP	08/11/2019 17:21 ~ 08/11/2019 17:45	25	10361.1	25	901.7	25	142.702	25	317.129	25	2.4	5.3				
SHUT_DOWN	08/11/2019 19:10 ~ 08/11/2019 19:22	13	2261.2	13	73.5	13	1.863	13	9.738	13	0.0	0.2				
START_UP	08/13/2019 15:21 ~ 08/13/2019 15:45	25	16956.7	25	1862.5	25	299.119	25	403.416	25	5.0	6.7				
SHUT_DOWN	08/13/2019 20:26 ~ 08/13/2019 20:38	13	2152.5	13	61.5	13	2.383	13	8.814	13	0.0	0.1				
START_UP	08/14/2019 17:26 ~ 08/14/2019 17:50	25	18859.9	25	2131.6	25	248.101	25	477.598	25	4.1	8.0				
SHUT_DOWN	08/14/2019 19:43 ~ 08/14/2019 19:55	13	2641.6	13	124.6	13	3.43	13	14.631	13	0.1	0.2				
START_UP	08/18/2019 17:21 ~ 08/18/2019 17:45	25	18839.5	25	2129.1	25	212.613	25	471.125	25	3.5	7.9				
SHUT_DOWN	08/18/2019 19:40 ~ 08/18/2019 19:52	13	2282	13	77	13	2.491	13	9.341	13	0.0	0.2				
START_UP	08/20/2019 16:36 ~ 08/20/2019 17:00	25	11416.5	25	1051.4	25	120.311	25	384.772	25	2.0	6.4				
SHUT_DOWN	08/20/2019 19:11 ~ 08/20/2019 19:23	13	2033.5	13	46.9	13	2.035	13	8.693	13	0.0	0.1				

START_UP	08/21/2019	14:51	~	08/21/2019	15:15	25	17564.5	25	1953.5	25	298.912	25	506.241	25	5.0	8.4
SHUT_DOWN	08/21/2019	18:40	~	08/21/2019	18:52	13	2280.6	13	76.1	13	NA	0	NA	0	0.0	0.0
START_UP	08/23/2019	17:21	~	08/23/2019	17:45	25	18838	25	2124.2	25	270.345	18	463.177	18	4.5	7.7
SHUT_DOWN	08/23/2019	19:29	~	08/23/2019	19:41	13	1994.1	13	44.2	13	1.94	12	6.261	12	0.0	0.1
START_UP	08/24/2019	16:21	~	08/24/2019	16:45	25	17423	25	1931.5	25	368.717	25	431.801	25	6.1	7.2
SHUT_DOWN	08/24/2019	20:12	~	08/24/2019	20:24	13	2463.7	13	102.8	13	3.022	13	8.766	13	0.1	0.1
START_UP	08/25/2019	16:22	~	08/25/2019	16:46	25	18691.7	25	2119.9	25	445.922	25	507.675	25	7.4	8.5
SHUT_DOWN	08/25/2019	20:10	~	08/25/2019	20:22	13	2149.2	13	59.9	13	2.056	13	7.921	13	0.0	0.1
START_UP	08/26/2019	16:21	~	08/26/2019	16:45	25	10731	25	957.5	25	100.572	25	317.2	25	1.7	5.3
SHUT_DOWN	08/26/2019	19:26	~	08/26/2019	19:38	13	1808.7	13	21.3	13	0.005	13	11.105	13	0.0	0.2
START_UP	08/27/2019	15:51	~	08/27/2019	16:15	25	18179.2	25	2020.1	25	222.276	25	462.321	25	3.7	7.7
SHUT_DOWN	08/27/2019	19:10	~	08/27/2019	19:22	13	2276.8	13	75.7	13	0.908	13	9.72	13	0.0	0.2
START_UP	08/29/2019	12:51	~	08/29/2019	13:15	25	16854.4	25	1849.6	25	173.372	25	429.245	25	2.9	7.2
SHUT_DOWN	08/29/2019	19:11	~	08/29/2019	19:23	13	2515.1	13	108.5	13	0.552	13	8.235	13	0.0	0.1
START_UP	08/30/2019	08:21	~	08/30/2019	08:45	25	15129.7	25	1601.5	25	180.201	25	420.94	25	3.0	7.0
SHUT_DOWN	08/30/2019	13:56	~	08/30/2019	14:08	13	2676.2	13	130.2	13	0.359	13	8.658	13	0.0	0.1
START_UP	08/30/2019	16:35	~	08/30/2019	16:59	25	17881.1	25	2001.5	25	173.056	25	148.362	25	2.9	2.5
SHUT_DOWN	08/30/2019	18:56	~	08/30/2019	19:08	13	2102.4	13	55.9	13	0	13	8.257	13	0.0	0.1
START_UP	09/01/2019	16:21	~	09/01/2019	16:45	25	11170.4	25	1025.9	25	151.732	25	323.294	25	2.5	5.4
SHUT_DOWN	09/01/2019	18:40	~	09/01/2019	18:52	13	1855.9	13	26.8	13	0	13	10.292	13	0.0	0.2
START_UP	09/02/2019	14:52	~	09/02/2019	15:16	25	18997.5	25	2144.2	25	204.77	24	436.72	24	3.4	7.3
SHUT_DOWN	09/02/2019	19:40	~	09/02/2019	19:52	13	1825.4	13	23.6	13	0	13	10.198	13	0.0	0.2
START_UP	09/03/2019	10:36	~	09/03/2019	11:00	25	16365.4	25	1759.6	25	168.508	25	392.107	25	2.8	6.5
SHUT_DOWN	09/03/2019	20:56	~	09/03/2019	21:08	13	2096.1	13	54.5	13	0	13	7.227	13	0.0	0.1
START_UP	09/04/2019	07:51	~	09/04/2019	08:15	25	8445.1	25	637	25	139.662	25	255.233	25	2.3	4.3
SHUT_DOWN	09/04/2019	09:16	~	09/04/2019	09:28	13	2231.7	13	71.3	13	0.004	13	10.098	13	0.0	0.2
START_UP	09/04/2019	10:06	~	09/04/2019	10:30	25	18350.2	25	2057.5	25	64.713	25	168.762	25	1.1	2.8
SHUT_DOWN	09/04/2019	21:12	~	09/04/2019	21:24	13	2230	13	72.8	13	0.141	13	7.521	13	0.0	0.1
START_UP	09/05/2019	10:21	~	09/05/2019	10:45	25	17789.4	25	1985.4	25	129.126	25	406.939	25	2.2	6.8
SHUT_DOWN	09/05/2019	20:10	~	09/05/2019	20:22	13	1779.4	13	16.9	13	0	13	6.028	13	0.0	0.1
START_UP	09/06/2019	11:52	~	09/06/2019	12:16	25	18399.7	25	2079.7	25	168.347	25	432.867	25	2.8	7.2
SHUT_DOWN	09/06/2019	18:26	~	09/06/2019	18:38	13	2155.2	13	63.3	13	0.004	13	8.281	13	0.0	0.1
START_UP	09/07/2019	12:51	~	09/07/2019	13:15	25	15185.8	25	1608.7	25	233.869	25	373.067	25	3.9	6.2
SHUT_DOWN	09/07/2019	18:41	~	09/07/2019	18:53	13	2158.7	13	62.4	13	0.169	13	6.665	13	0.0	0.1
START_UP	09/10/2019	16:51	~	09/10/2019	17:15	25	16059.9	25	1723.1	25	158.368	25	431.571	25	2.6	7.2
SHUT_DOWN	09/10/2019	17:55	~	09/10/2019	18:07	13	2274.4	13	76.2	13	0.396	13	6.349	13	0.0	0.1
START_UP	09/11/2019	17:21	~	09/11/2019	17:45	25	16954.3	25	1867.1	25	150.513	25	395.077	25	2.5	6.6
SHUT_DOWN	09/11/2019	19:11	~	09/11/2019	19:23	13	1980.6	13	42.2	13	0	13	8.054	13	0.0	0.1
START_UP	09/12/2019	07:51	~	09/12/2019	08:15	25	8561.8	25	646.6	25	116.192	25	283.378	25	1.9	4.7
SHUT_DOWN	09/12/2019	09:26	~	09/12/2019	09:38	13	2022.3	13	46.5	13	0	13	6.925	13	0.0	0.1
START_UP	09/13/2019	15:36	~	09/13/2019	16:00	25	8477.6	25	638.1	25	165.547	25	298.464	25	2.8	5.0
SHUT_DOWN	09/13/2019	19:26	~	09/13/2019	19:38	13	2065.2	13	51.1	13	0.015	13	7.31	13	0.0	0.1
START_UP	09/14/2019	13:06	~	09/14/2019	13:30	25	17714	25	1961.8	25	333.766	25	401.407	25	5.6	6.7
SHUT_DOWN	09/14/2019	14:10	~	09/14/2019	14:22	13	2191.1	13	66.5	13	0	13	8.008	13	0.0	0.1
START_UP	09/14/2019	15:35	~	09/14/2019	15:59	25	15155.8	25	1589.8	25	98.547	25	125.556	25	1.6	2.1
SHUT_DOWN	09/14/2019	18:40	~	09/14/2019	18:52	13	2173.9	13	63.1	13	0	13	8.437	13	0.0	0.1
START_UP	09/15/2019	17:51	~	09/15/2019	18:15	25	18994.5	25	2134	25	194.239	25	468.821	25	3.2	7.8
SHUT_DOWN	09/15/2019	19:26	~	09/15/2019	19:38	13	2113.8	13	56.1	13	0	13	6.781	13	0.0	0.1
START_UP	09/16/2019	11:36	~	09/16/2019	12:00	25	12227.7	25	1169	25	112.375	25	382.141	25	1.9	6.4
SHUT_DOWN	09/16/2019	12:41	~	09/16/2019	12:53	13	2054	13	48.1	13	0.04	13	6.034	13	0.0	0.1
START_UP	09/17/2019	08:51	~	09/17/2019	09:15	25	18098.2	25	2017.6	25	174.381	25	450.578	25	2.9	7.5
SHUT_DOWN	09/17/2019	10:56	~	09/17/2019	11:08	13	2028.1	13	45.2	13	0	13	6.775	13	0.0	0.1
START_UP	09/17/2019	13:20	~	09/17/2019	13:44	25	17071.4	25	1879.5	25	158.022	25	138.055	25	2.6	2.3
SHUT_DOWN	09/17/2019	14:40	~	09/17/2019	14:52	13	2541	13	108.1	13	0	13	8.466	13	0.0	0.1
START_UP	09/18/2019	16:21	~	09/18/2019	16:45	25	9820.6	25	818.9	25	90.667	25	291.064	25	1.5	4.9
SHUT_DOWN	09/18/2019	20:40	~	09/18/2019	20:52	13	2329	13	82.1	13	0.057	13	6.922	13	0.0	0.1
START_UP	09/19/2019	17:21	~	09/19/2019	17:45	25	8738.8	25	658.1	25	243.126	25	282.061	25	4.1	4.7

SHUT_DOWN	09/19/2019	18:57	~	09/19/2019	19:09	13	2055.9	13	49.2	13	0	13	8.979	13	0.0	0.1
START_UP	09/20/2019	07:51	~	09/20/2019	08:15	25	12829.8	25	1235.2	25	92.878	25	385.85	25	1.5	6.4
SHUT_DOWN	09/20/2019	11:56	~	09/20/2019	12:08	13	2036.4	13	47.6	13	0.462	13	7.674	13	0.0	0.1
START_UP	09/20/2019	13:50	~	09/20/2019	14:14	25	8555.4	25	643.7	25	81.651	25	147.161	25	1.4	2.5
SHUT_DOWN	09/20/2019	14:56	~	09/20/2019	15:08	13	2050	13	47.5	13	0.316	13	9.244	13	0.0	0.2
START_UP	09/20/2019	15:50	~	09/20/2019	16:14	25	9853.3	25	816.5	25	9.336	25	93.106	25	0.2	1.6
SHUT_DOWN	09/20/2019	17:55	~	09/20/2019	18:07	13	2255	13	72.7	13	0.212	13	9.716	13	0.0	0.2
START_UP	09/21/2019	16:51	~	09/21/2019	17:15	25	8675.2	25	661.8	25	141.54	25	292.114	25	2.4	4.9
SHUT_DOWN	09/21/2019	18:25	~	09/21/2019	18:37	13	2268.2	13	73.9	13	0.33	13	9.497	13	0.0	0.2
START_UP	09/22/2019	16:21	~	09/22/2019	16:45	25	8885.1	25	687	25	126.738	25	299.782	25	2.1	5.0
SHUT_DOWN	09/22/2019	19:26	~	09/22/2019	19:38	13	2082.6	13	53.6	13	0.299	13	7.836	13	0.0	0.1
START_UP	09/23/2019	05:21	~	09/23/2019	05:45	25	9339.5	25	735.6	25	231.288	25	275.042	25	3.9	4.6
SHUT_DOWN	09/23/2019	06:40	~	09/23/2019	06:52	13	2226.2	13	67.9	13	0.222	13	8.886	13	0.0	0.1
START_UP	09/23/2019	16:51	~	09/23/2019	17:15	25	8828.6	25	673.9	25	100.763	25	273.431	25	1.7	4.6
SHUT_DOWN	09/23/2019	18:56	~	09/23/2019	19:08	13	2060.3	13	48.2	13	0.155	13	8.34	13	0.0	0.1
START_UP	09/24/2019	13:21	~	09/24/2019	13:45	25	15735.3	25	1682.6	25	233.967	25	395.369	25	3.9	6.6
SHUT_DOWN	09/24/2019	14:25	~	09/24/2019	14:37	13	2134.6	13	59.3	13	0.45	13	7.319	13	0.0	0.1
START_UP	09/24/2019	15:50	~	09/24/2019	16:14	25	8893.5	25	688	25	72.611	25	91.914	25	1.2	1.5
SHUT_DOWN	09/24/2019	17:55	~	09/24/2019	18:07	13	2228.2	13	69.5	13	0.38	13	10.083	13	0.0	0.2
START_UP	09/25/2019	14:36	~	09/25/2019	15:00	25	8553.6	25	640.8	25	242.56	25	283.682	25	4.0	4.7
SHUT_DOWN	09/25/2019	19:11	~	09/25/2019	19:23	13	2146.9	13	59	13	0	13	7.012	13	0.0	0.1
START_UP	09/26/2019	08:50	~	09/26/2019	09:14	25	7968.8	25	571.5	25	140.848	25	260.206	25	2.3	4.3
SHUT_DOWN	09/26/2019	10:10	~	09/26/2019	10:22	13	2107.3	13	54.8	13	0	13	8.282	13	0.0	0.1
START_UP	09/27/2019	06:36	~	09/27/2019	07:00	25	8642.699	25	649.7	25	218.347	25	290.779	25	3.6	4.8
SHUT_DOWN	09/27/2019	07:55	~	09/27/2019	08:07	13	2204.6	13	66.2	13	0	13	9.561	13	0.0	0.2
START_UP	09/30/2019	05:21	~	09/30/2019	05:45	25	9483.4	25	774.8	25	81.19	18	333.517	18	1.4	5.6
SHUT_DOWN	09/30/2019	06:55	~	09/30/2019	07:07	13	2296.7	13	76.5	13	0.082	13	9.832	13	0.0	0.2
START_UP	09/30/2019	09:16	~	09/30/2019	09:40	25	14441.4	25	1484.1	25	92.181	25	144.323	25	1.5	2.4
SHUT_DOWN	09/30/2019	13:26	~	09/30/2019	13:38	13	2031.7	13	48.5	13	0	13	10.103	13	0.0	0.2

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



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

October 30, 2019

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

The attached report shows compliance with KKKK requirements through the third quarter as generated by Data Acquisition Handling System. The semi-annual report that is included in the second and fourth quarter Quarterly Operations reports will show compliance with both conditions AQ-34 and AQ-88.

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

Reporting dates 7/1/2019 00:00 through 9/30/2019 23:59
Generated: 10/22/2019 12:21

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

Company Name: NRG
Address: Carlsbad, CA
Model:
Date of Latest CEMS
Certification Audit:

Description: Unit 6

Date of Latest CEMS Certification or Audit:

Total source operating time in reporting period: **419.0 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.....	0.0
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.....	0.0
3. Excess emission duration (%).....	0.00%	3. CEMS downtime (%).....	0.00%

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 7/1/2019 00:00 through 9/30/2019 23:59
Generated: 10/22/2019 12:21

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

Company Name: NRG
Address: Carlsbad, CA
Model:
Date of Latest CEMS
Certification Audit:

Description: Unit 7

Date of Latest CEMS Certification or Audit:

Total source operating time in reporting period: **393.0 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..... 0.0
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..... 0.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.00%

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 7/1/2019 00:00 through 9/30/2019 23:59
Generated: 10/22/2019 12:21

**Pollutant: NOx
Emission Limit: 15 ppmc @ 15% O2 4 Hour Rolling**

Company Name: NRG
Address: Carlsbad, CA
Model:
Date of Latest CEMS
Certification Audit:

Description: Unit 8

Date of Latest CEMS Certification or Audit:

Total source operating time in reporting period: **515.0 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..... 0.0
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..... 0.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.00%

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 7/1/2019 00:00 through 9/30/2019 23:59
Generated: 10/22/2019 12:21

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

Company Name: NRG
Address: Carlsbad, CA
Model:
Date of Latest CEMS
Certification Audit:

Description: Unit 9

Date of Latest CEMS Certification or Audit:

Total source operating time in reporting period: **435.0 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..... 0.0
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..... 0.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.00%

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 7/1/2019 00:00 through 9/30/2019 23:59
Generated: 10/22/2019 12:21

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

Company Name: NRG
Address: Carlsbad, CA
Model:
Date of Latest CEMS
Certification Audit:

Description: Unit 10

Date of Latest CEMS Certification or Audit:

Total source operating time in reporting period: **311.0 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.....	2.0
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.....	3.0
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.....	5.0
3. Excess emission duration (%).....	0.00%	3. CEMS downtime (%).....	1.61%

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

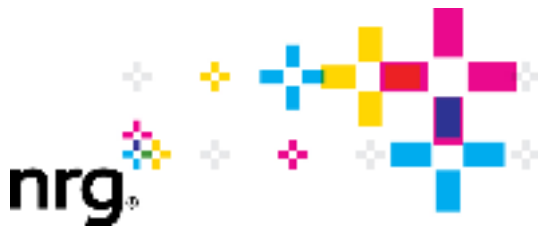
AQ-48: Monthly and Rolling 12-Month Calculated NO_x, CO, VOCs, PM₁₀, and SO_x Emissions Summary

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



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

October 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



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

October 30, 2019

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

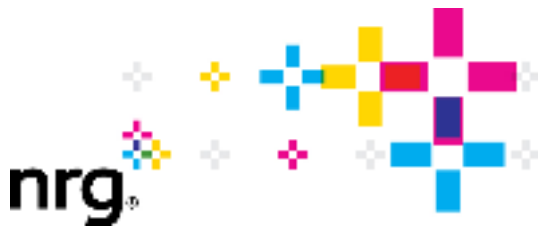
Encina Power Station ceased operations on December 11, 2018 and no longer operable. The following condition is fulfilled due to Encina no longer generating emissions:

- AQ-47

Attachment J Noncompliance Statement:

AQ-76: CEMS Emissions Exceedance Summary

AQ-78: DAHS Programming Compliance Summary



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

October 30, 2019

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

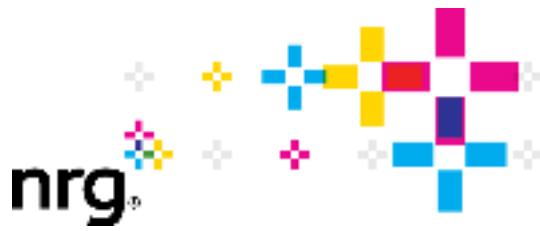
Carlsbad Energy Center had no permit exceedances in post-commercial operations in the third quarter of 2019 that did not qualify as breakdowns. In addition, no Data Acquisition Handling System (DAHS) programming changes were made in the third quarter of 2019. The following conditions are fulfilled:

- AQ-76
- AQ-78

Attachment K Diesel Fire Pump Operations Logs:

AQ-95: Fire Pump Hour Limit

AQ-105: Fire Pump Operating Log



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4950 Avenida Encinas
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October 30, 2019

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

Attached are operator logs for the diesel test runs in 3Q2019. The logs show that the diesel has run for a total of 16.9 hours so far this year.

All Entries

<p>09/23/2019 11:21 PDT</p>	<p>R MacNail</p>	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by rmacnail on 9/23/2019 11:21 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 16.5; Diesel data before Start Diesel tank level (decimal entry): 0.8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0952; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 1022; Ensure Diesel stops at 30 minutes Date: 9/23/19; Diesel data after the run Engine hours: 16.9; Diesel data after the run Diesel tank level (Decimal): 0.8</p>	<p>Complete</p>
<p>09/16/2019 12:02 PDT</p>	<p>R MacNail</p>	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by rmacnail on 9/16/2019 12:02 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 16.1; Diesel data before Start Diesel tank level (decimal entry): .8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1046; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 1116; Ensure Diesel stops at 30 minutes Date: 9/16/19; Diesel data after the run Engine hours: 16.5; Diesel data after the run Diesel tank level (Decimal): .8</p>	<p>Complete</p>
<p>09/10/2019 13:49 PDT</p>	<p>B Miller</p>	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 9/10/2019 14:52 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 15.7; Diesel data before Start Diesel tank level (decimal entry): 0.8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1315; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 1345; Ensure Diesel stops at 30 minutes Date: 9/10/19; Diesel data after the run Engine hours: 16.1; Diesel data after the run Diesel tank level (Decimal): 0.8</p>	<p>Complete</p>
<p>09/07/2019 11:35 PDT</p>	<p>M Kristie</p>	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by m13kri on 9/07/2019 11:35 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 15.2; Diesel data before Start Diesel tank level (decimal entry): 8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0628; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?</p>	<p>Complete</p>

		Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 0659; Ensure Diesel stops at 30 minutes Date: 9/7/19; Diesel data after the run Engine hours: 15.7; Diesel data after the run Diesel tank level (Decimal): 8	
08/27/2019 14:04 PDT	R MacNail	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by rmacnail on 8/27/2019 14:05 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 14.8; Diesel data before Start Diesel tank level (decimal entry): 0.8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1325; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 1355; Ensure Diesel stops at 30 minutes Date: 8/27/19; Diesel data after the run Engine hours: 15.2; Diesel data after the run Diesel tank level (Decimal): 0.8</p>	Complete
08/27/2019 13:25 PDT	C Lobo	<p>Category: BOP Fire Protection System Diesel Firepump</p> <p>Personnel: MacNail, Ryan</p> <p>Comment: Weekly PM</p>	PM
08/20/2019 14:44 PDT	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 8/20/2019 14:44 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 14.4; Diesel data before Start Diesel tank level (decimal entry): .8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1321; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 1351; Ensure Diesel stops at 30 minutes Date: 8/28/19; Diesel data after the run Engine hours: 14.8; Diesel data after the run Diesel tank level (Decimal): .8</p>	Complete
08/17/2019 13:05 PDT	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 8/17/2019 13:04 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 14; Diesel data before Start Diesel tank level (decimal entry): .8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1131; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A; Ensure Diesel stops at 30 minutes Stop time: 1156; Ensure Diesel stops at 30 minutes Date: 8/17/19; Diesel data after the run Engine hours: 14.4; Diesel data after the run Diesel tank level (Decimal): .8</p> <p>Appended Comments:</p> <ul style="list-style-type: none"> ▪ 25 minute run, for a total of 30 minutes completed this week.(ASiegel, 8/17/2019 13:05 PDT) 	Complete
08/17/2019 11:31 PDT	B Miller	<p>Category: BOP Fire Protection System Diesel Firepump</p>	Test

		<p>Personnel: Siegel, Aaron</p> <p>Comment: Weekly test of Diesel Fire Pump.</p> <p>Appended Comments:</p> <ul style="list-style-type: none"> 1155 Test complete (B13MIL, 8/17/2019 11:56 PDT) 	
08/16/2019 00:11 PDT	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 8/16/2019 00:10 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 14; Diesel data before Start Diesel tank level (decimal entry): .8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 2351; Diesel Running Parameters normal(Leakoff, pressure etc.): Not OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: water leak from cooling line, possible battery solution coming from both batteries; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: Not OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: stopped due to possible battery issue; Ensure Diesel stops at 30 minutes Stop time: 2356; Ensure Diesel stops at 30 minutes Date: 8/15/19; Diesel data after the run Engine hours: 14; Diesel data after the run Diesel tank level (Decimal): .8</p>	Complete
08/07/2019 12:45 PDT	R Burton	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by r13bur on 8/07/2019 12:47 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 13.6; Diesel data before Start Diesel tank level (decimal entry): 8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0950; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A; Ensure Diesel stops at 30 minutes Stop time: 1020; Ensure Diesel stops at 30 minutes Date: 8/7/19; Diesel data after the run Engine hours: 14.0; Diesel data after the run Diesel tank level (Decimal): .8</p>	Complete
07/29/2019 16:09 PDT	R Burton	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by r13bur on 7/29/2019 16:15 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 13.2; Diesel data before Start Diesel tank level (decimal entry): .8; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1535; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A; Ensure Diesel stops at 30 minutes Stop time: 1605; Ensure Diesel stops at 30 minutes Date: 7/29/19; Diesel data after the run Engine hours: 13.6; Diesel data after the run Diesel tank level (Decimal): .8</p>	Complete
07/29/2019 15:34 PDT	R MacNail	<p>Category: BOP Fire Protection System Diesel Firepump</p> <p>Personnel: Burton, Robert</p> <p>Comment: Commenced weekly 30 minute diesel fire pump test.</p> <p>Appended Comments:</p>	Test

		<ul style="list-style-type: none"> ▪ Diesel fire pump tested SAT. (RMacNail, 7/29/2019 16:15 PDT) 	
07/22/2019 13:37 PDT	M Kristie	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by m13kri on 7/22/2019 13:39 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 12.8; Diesel data before Start Diesel tank level (decimal entry): 875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1005; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 1035; Ensure Diesel stops at 30 minutes Date: 7-22-19; Diesel data after the run Engine hours: 13.2; Diesel data after the run Diesel tank level (Decimal): 875</p>	Complete
07/16/2019 20:32 PDT	M Kristie	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by m13kri on 7/16/2019 20:32 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 12.3; Diesel data before Start Diesel tank level (decimal entry): 875; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1946; Diesel Running Parameters normal(Leakoff, pressure etc.): OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A ; Ensure Diesel stops at 30 minutes Stop time: 2026; Ensure Diesel stops at 30 minutes Date: 7/16/19; Diesel data after the run Engine hours: 12.8; Diesel data after the run Diesel tank level (Decimal): 875</p>	Complete
07/16/2019 09:30 PDT	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 7/16/2019 09:31 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 12.3; 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: N/A; Start Diesel Fire Pump Start time: 0835; Diesel Running Parameters normal(Leakoff, pressure etc.): Not OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: no packing leak-off, I backed the packing nuts off 2 flats, still no leak-off after 5 minutes, stopped pump.; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK?: Not OK; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: Aborted run, due to no leak-off. Packing Gland temps 86/92F ; Ensure Diesel stops at 30 minutes Stop time: 0840; Ensure Diesel stops at 30 minutes Date: 7/16/19; Diesel data after the run Engine hours: 12.3; Diesel data after the run Diesel tank level (Decimal): 0.875</p>	Complete
07/16/2019 08:36 PDT	S Reilly	<p>Category: BOP Fire Protection System Diesel Firepump</p> <p>Per: Reilly, Shawn</p> <p>Personnel: Miller, Benjamin</p> <p>Comment: Began weekly diesel firepump test.</p>	Test
07/01/2019 15:14 PDT	R MacNail	<p>Category: BOP Fire Protection System Diesel Firepump</p> <p>Personnel: Siegel, Aaron</p>	Test

Comment: Commenced 30 minute weekly diesel fire pump test.

Attachment L Diesel Generator Conditions:

AQ-110: Diesel Engine Run Hours

AQ-120: Diesel Engine Operation Logs

AQ-121: Diesel Engine District Notification



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

October 30, 2019

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

Carlsbad Energy Center does not currently have a diesel generator as one was not installed during construction. The determination of future installation is pending.

Attachment M Verifications Not Included:

AQ-44: Rolling 12-Month Annual Emissions Summary NOx, 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