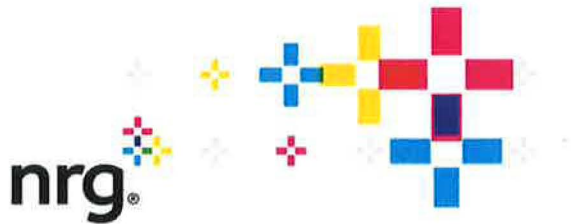


DOCKETED

Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	236355
Document Title:	Quarterly Operational Report Second Quarter 2020
Description:	Quarterly Operational Report- Second Quarter 2020
Filer:	Anwar Ali
Organization:	Carlsbad Energy Center LLC
Submitter Role:	Applicant
Submission Date:	1/19/2021 1:46:26 PM
Docketed Date:	1/19/2021



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

July 28, 2020

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, SECOND QUARTER 2020**

Dear Dr. Ali:

Carlsbad Energy Center LLC ("Project Owner") submits the second quarter 2020 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.

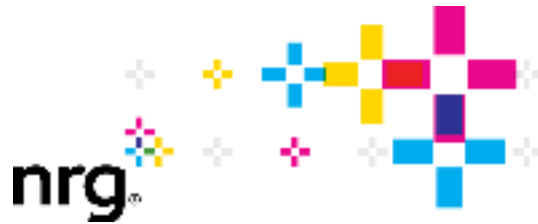
If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 710-3943.

Sincerely,

Paul Mattesich
Plant Manager
Carlsbad Energy Center LLC

Attached: Carlsbad Energy Center Project (07-AFC-06C), California Energy Commission, Quarterly Operational Report, Second Quarter 2020,

Cc: File



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

**California Energy Commission
Quarterly Operational Report**

Second Quarter 2020

***Submitted by: Carlsbad Energy Center LLC
Date Submitted: 7-28-2019***

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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:

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

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

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AQ-32: NO_x 13.6 PPM Limit

AQ-33: NO_x 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

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AQ-40: VOC Portion Only

AQ-41: VOC Portion Only

Attachment I Encina Power Station Operations Statement:

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Attachment J Noncompliance Statement:

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AQ-78: DAHS Programming Compliance Summary

Attachment K Diesel Fire Pump Operations 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

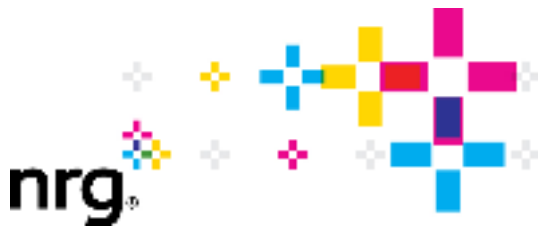
a. Project Quarterly Compliance Summary

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 second quarter of 2020.

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

July 28, 2020

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

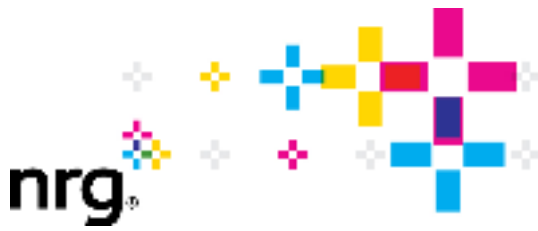
AQ-15: Startup Event Duration

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

July 28, 2020

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



July 14, 2020

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

Subject: 2Q20 Quarterly Fuel Analysis Results for Carlsbad Energy Center
Report Number: W002AS-709150-RT-1369

Dear Ryan,

Montrose Air Quality Services, LLC (MAQS) collected two natural gas samples from Carlsbad Energy Center on April 30th, 2020. 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 1.6 ppmv total reduced sulfur compounds as Sulfur. This letter presents the calculations from ppm to grains per hundred standard cubic feet.

$$\frac{1.6 \text{ scf S}}{10^6 \text{ scf fuel}} * \frac{32 \text{ lb}}{\text{lb-mole}} * \frac{\text{lb-mole}}{379.5 \text{ scf}} * \frac{100 \text{ scf}}{\text{hundred scf}} * \frac{7000 \text{ grains}}{\text{lb}} = \frac{0.10 \text{ grains S}}{\text{hundred scf}}$$

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", with a horizontal line drawn through the end of the signature.

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

Montrose Santa Ana Office

1631 E. St. Andrew Pl.
Santa Ana, California 92705
T: 714.282.8240

www.montrose-env.com

Global Headquarters

1 Park Plaza, Suite 1000
Irvine, CA 92614
T: 949.988.3500

ATTACHMENTS

CLIENT: MONTROSE
CLIENT PROJ NO: Carlsbad Energy Center
LABORATORY NO: 20-360
SAMPLING DATE: 04/30/20
RECEIVING DATE: 04/30/20
ANALYSIS DATE: 04/30/20
REPORT DATE: 05/01/20

Laboratory Analysis Report

Analysis Method	ATSM D6228-98		
Detection Limits	0.05 PPMV		
Analyte	Client ID	1-Fuel	2-Fuel
	Sampling Date	4/30/2020	04/30/20
	Sampling Time	1125	1126
	Lab ID	12120-8	12120-9
	Units	PPMV	PPMV
Hydrogen Sulfide	0.10	0.10	
Carbonyl Sulfide	<0.05	<0.05	
Methyl Mercaptan	<0.05	<0.05	
Ethyl Mercaptan	<0.05	<0.05	
t-Butyl Mercaptan	0.87	0.85	
Tetrahydrothiophene	0.68	0.69	
Un-Identified S Compounds	<0.05	<0.05	
Total Sulfur as H₂S	1.65	1.63	



Dr. Andrew Kitto
President

CLIENT: MONTROSE
CLIENT PROJ NO: Carlsbad Energy Center
LABORATORY NO: 20-360
SAMPLING DATE: 04/30/20
RECEIVING DATE: 04/30/20
ANALYSIS DATE: 04/30/20
REPORT DATE: 05/01/20

Quality Assurance Report

Duplicate Analysis

Sample ID: 2-Fuel

Lab ID: 12120-9

Analysis Method		ATSM D6228-98		
Detection Limit		0.05 PPMV		
Analyte	Aver. Conc. PPMV	Dil. Factor Ambient Air	DF*A/CF PPMV	% Sample Recovery*
Hydrogen Sulfide	0.10	1	0.10	101
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	0.84	1	0.83	99.1
Tetrahydrothiophene	0.67	1	0.66	97.9
Unidentified S Compounds	<0.05	1	<0.05	N/A
Total Sulfur as H2S	1.61	1	1.59	98.7

N/A: Not Applicable

*Must be ±10%



Dr. Andrew Kitto
President

20-360

CHAIN OF CUSTODY

W002AS-709150-RT-1369

CLIENT: Carlsbad Energy Center PROJECT NUMBER: 002AS-709150 TEST DATE(S): 4/30/2020
 LOCATION: Carlsbad SAMPLER(S): RD
 SAMPLE LOCATION: Gas Line PROJECT MANAGER: JP
 TEST METHOD(S): ASTM D6228-98 DATE DUE: 5/10/2020
 OUTSIDE LAB REQUIRED?: Yes - Quantum Lab COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
4/30/2020	1125	1-Fuel	5L Tedlar Bag	1	RD	5 L Tedlar Bag
4/30/2020	1126	2-Fuel	5L Tedlar Bag	1	RD	5 L Tedlar Bag

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	4/30/20 13:35	<i>[Signature]</i>	4/30/20 136

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

5 of 6



Date of Last Revision 9/1/2017

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

THIS IS THE LAST PAGE OF THIS DOCUMENT

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

Name: Rik Dupont
Title: Sr. Field Technician
Region: 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: 7/20/2020 12:07

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

Period Start: 4/1/2020 00:00
Period End: 6/30/2020 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
04/01/2020 16:00	1.5	1.5	0.1	0.1	1.1
04/01/2020 17:00	1.5	2.2	0.1	0.1	1.1
04/01/2020 18:00	1.5	2.0	0.1	0.1	1.1
04/01/2020 19:00	1.5	2.0	0.1	0.1	1.1
04/01/2020 20:00	1.4	2.0	0.1	0.1	1.1
04/01/2020 21:00	1.5	2.0	0.1	0.1	1.1
04/01/2020 22:00	1.4	1.9	0.1	0.1	1.1
04/04/2020 17:00	1.5	1.5	0.1	0.1	1.1
04/04/2020 18:00	1.5	1.3	0.2	0.1	1.1
04/04/2020 19:00	1.5	2.0	0.2	0.2	1.1
04/04/2020 20:00	1.5	2.0	0.1	0.1	1.1
04/04/2020 21:00	1.5	2.0	0.1	0.1	1.0
04/04/2020 22:00	1.5	1.9	0.1	0.1	1.0
04/05/2020 14:00	1.6	1.8	0.1	0.0	1.1
04/05/2020 15:00	1.4	2.3	0.1	0.2	1.3
04/05/2020 16:00	1.4	2.0	0.1	0.1	1.2
04/05/2020 17:00	1.5	2.0	0.1	0.1	1.1
04/05/2020 18:00	1.5	2.7	0.2	0.2	1.1
04/05/2020 19:00	1.5	2.3	0.1	0.1	1.3
04/05/2020 20:00	1.4	2.1	0.1	0.1	1.2
04/05/2020 21:00	1.5	2.5	0.1	0.1	1.3
04/05/2020 22:00	1.4	1.8	0.1	0.1	1.2
04/06/2020 15:00	1.6	2.4	0.3	0.4	1.1
04/06/2020 16:00	1.2	0.3	0.2	0.0	1.3
04/06/2020 18:00	1.4	1.6	0.3	0.2	1.2
04/06/2020 19:00	1.5	2.5	0.1	0.1	1.1
04/06/2020 20:00	1.4	1.9	0.1	0.0	1.1
04/11/2020 12:00	1.3	0.4	0.1	0.0	1.4
04/11/2020 13:00	1.5	3.5	0.2	0.4	1.0
04/11/2020 14:00	1.5	3.5	0.2	0.3	1.0
04/11/2020 15:00	1.5	3.7	0.3	0.5	0.9
04/11/2020 16:00	1.5	3.8	0.3	0.5	0.9
04/13/2020 18:00	1.4	4.0	0.9	1.5	0.9
04/13/2020 19:00	1.5	3.7	0.4	0.8	1.0
04/14/2020 18:00	1.2	0.8	1.5	0.6	1.2
04/14/2020 19:00	1.5	5.0	0.8	1.6	1.0
04/14/2020 20:00	1.6	2.9	0.4	0.5	1.2
04/16/2020 18:00	1.5	0.4	0.2	0.0	1.1
04/16/2020 19:00	1.5	2.0	0.2	0.1	1.1
04/16/2020 20:00	1.5	0.4	0.1	0.0	1.1
04/28/2020 06:00	1.7	2.1	3.0	2.2	0.8
04/28/2020 07:00	2.0	6.9	1.8	3.8	4.9
04/28/2020 08:00	2.0	6.9	1.7	3.5	5.1 NH3 testing, factor set to 1.0
04/28/2020 09:00	2.0	6.8	1.8	3.8	5.1 NH3 testing, factor set to 1.0
04/28/2020 10:00	2.0	6.8	1.7	3.7	5.0
04/28/2020 11:00	2.0	6.7	1.7	3.6	5.0
04/28/2020 12:00	2.0	6.8	1.7	3.6	5.0
04/28/2020 13:00	2.0	6.8	1.8	3.8	5.1 NH3 testing, factor set to 1.0
04/28/2020 14:00	2.0	6.8	1.6	3.5	5.0
04/28/2020 15:00	1.9	6.3	1.7	3.4	5.1 NH3 testing, factor set to 1.0
04/30/2020 09:00	1.7	0.5	0.0	0.0	1.1
04/30/2020 10:00	1.5	0.8	0.0	0.0	1.2
05/01/2020 06:00	1.3	1.7	0.6	0.8	1.1
05/01/2020 11:00	1.5	1.5	1.9	1.2	1.0
05/01/2020 12:00	1.5	5.2	1.2	2.7	1.0
05/01/2020 13:00	1.4	4.9	1.2	2.5	1.0
05/02/2020 17:00	1.6	0.8	0.3	0.1	1.1
05/02/2020 18:00	1.5	3.5	0.7	1.5	1.1
05/02/2020 19:00	1.5	5.3	1.4	2.9	0.9
05/02/2020 20:00	1.4	2.2	0.2	0.3	0.8
05/03/2020 18:00	1.5	3.6	0.5	0.9	0.8
05/03/2020 19:00	1.5	4.3	0.6	1.1	0.6
05/03/2020 20:00	1.4	3.1	1.1	1.6	0.8
05/04/2020 05:00	1.5	1.5	0.0	0.0	1.1
05/04/2020 18:00	1.4	4.1	1.5	2.5	0.9
05/04/2020 19:00	1.5	5.4	1.4	3.0	0.9
05/04/2020 20:00	1.4	2.0	0.7	0.7	0.8
05/05/2020 05:00	1.6	1.4	0.0	0.0	1.0
05/05/2020 12:00	1.5	0.6	0.0	0.0	0.9
05/05/2020 13:00	1.5	2.4	1.0	1.1	1.0
05/06/2020 05:00	1.5	1.3	0.0	0.0	1.0
05/06/2020 14:00	1.3	1.6	0.0	0.0	1.2
05/06/2020 15:00	1.1	2.8	0.5	0.9	1.1
05/06/2020 17:00	1.2	0.1	1.2	0.0	1.5
05/06/2020 18:00	2.4	4.0	0.2	0.5	2.5

Period Start:	Average	Average	Average	Average	Average
	6NOxCorOP1 ppm	6NOx#OP1HR LBS	6COCorOP1 ppm	6CO#OP1HR LBS	6NH3CorOP1 ppm
05/07/2020 15:00	1.5	1.8	0.0	0.0	1.0
05/07/2020 16:00	1.6	0.3	0.0	0.0	1.0
05/09/2020 17:00	1.5	1.7	0.7	0.5	1.1
05/09/2020 18:00	1.4	4.5	0.4	0.7	0.9
05/09/2020 19:00	1.5	3.8	0.1	0.2	0.9
05/09/2020 20:00	1.5	3.1	0.2	0.4	1.1
05/09/2020 21:00	1.5	2.1	0.0	0.0	1.1
05/09/2020 22:00	1.5	0.4	0.0	0.0	1.0
05/10/2020 05:00	1.6	0.7	0.2	0.1	1.0
05/10/2020 18:00	1.5	1.5	0.0	0.0	1.0
05/10/2020 19:00	1.5	2.0	0.0	0.0	1.0
05/10/2020 20:00	1.6	2.0	0.0	0.0	1.0
05/11/2020 17:00	1.6	4.7	0.8	1.7	1.1
05/11/2020 18:00	1.4	4.7	0.7	1.5	1.0
05/11/2020 19:00	1.5	4.0	0.4	0.9	1.0
05/12/2020 06:00	1.6	1.8	0.0	0.0	1.1
05/12/2020 07:00	1.5	3.4	0.2	0.2	1.0
05/12/2020 08:00	1.4	2.2	0.0	0.0	1.2
05/12/2020 09:00	1.5	3.0	0.1	0.1	1.0
05/12/2020 10:00	1.4	4.4	0.7	1.3	0.8
05/12/2020 11:00	1.5	2.3	0.1	0.1	1.2
05/12/2020 12:00	1.5	2.2	0.1	0.1	1.2
05/13/2020 18:00	1.2	0.9	1.7	0.7	0.8
05/13/2020 19:00	1.5	1.8	0.5	0.5	0.9
05/13/2020 20:00	1.4	2.0	1.0	0.9	1.0
05/14/2020 17:00	1.1	0.9	1.9	0.9	1.1
05/14/2020 18:00	1.4	2.1	0.1	0.1	1.1
05/14/2020 19:00	1.5	3.6	0.3	0.4	0.9
05/14/2020 20:00	1.6	2.5	0.1	0.1	1.1
05/14/2020 21:00	1.3	0.8	0.6	0.2	1.1
05/15/2020 18:00	1.6	0.6	0.1	0.0	1.0
05/15/2020 19:00	1.5	2.1	0.1	0.1	1.0
05/15/2020 20:00	1.5	2.1	0.1	0.1	1.0
05/15/2020 21:00	1.5	2.0	0.1	0.1	1.0
05/16/2020 18:00	1.4	2.5	0.7	1.1	1.0
05/16/2020 19:00	1.5	4.8	1.2	2.4	0.8
05/16/2020 20:00	1.5	2.5	0.3	0.5	1.2
05/16/2020 21:00	1.5	0.4	0.1	0.0	1.2
05/17/2020 18:00	1.6	0.5	0.0	0.0	1.2
05/17/2020 19:00	1.5	2.7	0.3	0.3	1.0
05/21/2020 18:00	1.4	2.8	1.2	1.4	0.9
05/21/2020 19:00	1.5	3.2	1.2	1.6	0.9
05/21/2020 20:00	1.4	2.1	1.3	1.2	0.9
05/22/2020 20:00	1.4	3.6	0.7	1.2	0.9
05/22/2020 21:00	1.4	2.4	0.2	0.2	0.9
05/24/2020 17:00	1.5	1.5	0.1	0.1	1.1
05/24/2020 18:00	1.5	4.5	1.3	2.6	0.9
05/24/2020 19:00	1.5	3.6	0.9	1.8	0.9
05/24/2020 20:00	1.5	2.6	0.2	0.2	1.0
05/25/2020 17:00	1.5	2.9	0.8	1.0	0.7
05/25/2020 18:00	1.5	5.1	1.6	3.3	0.9
05/25/2020 19:00	1.5	5.1	1.6	3.4	0.9
05/25/2020 20:00	1.5	3.7	0.4	0.6	0.8
05/26/2020 17:00	1.6	3.5	1.7	2.6	1.0
05/26/2020 18:00	1.5	5.2	1.7	3.7	0.9
05/26/2020 19:00	1.5	1.7	0.5	0.4	1.0
05/27/2020 15:00	1.5	1.7	0.5	0.5	1.2
05/27/2020 16:00	1.5	2.9	0.5	1.0	1.1
05/27/2020 17:00	1.5	2.0	0.1	0.1	1.2
05/27/2020 18:00	1.5	3.4	0.2	0.3	0.9
05/27/2020 19:00	1.5	3.8	0.5	0.9	0.8
05/28/2020 06:00	1.4	3.6	1.5	2.4	1.0
05/28/2020 07:00	1.5	5.8	1.4	3.2	1.1
05/28/2020 08:00	1.5	5.6	1.3	2.9	1.0
05/28/2020 09:00	1.5	5.6	1.2	2.5	1.1
05/28/2020 10:00	1.5	5.6	1.7	3.8	1.1
05/28/2020 11:00	1.5	4.9	1.4	2.8	1.0
05/28/2020 15:00	1.5	1.5	0.1	0.1	1.2
05/28/2020 16:00	1.5	2.4	0.2	0.2	1.2
05/28/2020 17:00	1.5	2.0	0.1	0.1	1.0
05/28/2020 18:00	1.5	3.2	1.8	2.3	0.9
05/28/2020 19:00	1.5	2.2	0.2	0.2	1.1
05/28/2020 20:00	1.5	2.1	0.1	0.1	1.3
05/29/2020 17:00	1.5	1.9	0.2	0.2	1.1
05/29/2020 18:00	1.5	2.1	0.1	0.1	1.3
05/29/2020 19:00	1.5	1.9	0.2	0.1	1.4
06/01/2020 16:00	1.5	2.1	0.3	0.2	1.1
06/01/2020 17:00	1.4	0.4	0.4	0.1	1.0
06/01/2020 18:00	1.5	0.4	0.1	0.0	1.2
06/01/2020 19:00	1.5	1.9	0.1	0.1	1.2
06/01/2020 20:00	1.5	0.3	0.1	0.0	1.2
06/02/2020 16:00	1.4	1.9	0.4	0.4	1.0
06/02/2020 17:00	1.5	2.0	0.2	0.2	1.1
06/02/2020 18:00	1.5	1.9	0.2	0.1	1.1

Period Start:	Average 6NOxCorOP1 ppm	Average 6NOx#OP1HR LBS	Average 6COCorOP1 ppm	Average 6CO#OP1HR LBS	Average 6NH3CorOP1 ppm
06/02/2020 19:00	1.5	2.1	0.2	0.1	1.2
06/02/2020 20:00	1.5	0.9	0.1	0.0	1.3
06/03/2020 16:00	1.7	1.2	0.5	0.2	1.1
06/03/2020 17:00	1.5	1.9	0.2	0.2	1.1
06/03/2020 18:00	1.5	1.9	0.2	0.2	1.1
06/03/2020 19:00	1.5	2.0	0.2	0.2	1.1
06/03/2020 20:00	1.5	1.8	0.2	0.1	1.1
06/04/2020 18:00	1.6	4.5	1.5	3.1	1.1
06/10/2020 15:00	1.6	0.4	0.0	0.0	1.3
06/10/2020 16:00	1.6	1.2	0.1	0.1	1.2
06/10/2020 17:00	1.4	1.8	0.0	0.0	1.4
06/10/2020 18:00	1.5	1.7	0.0	0.0	1.1
06/11/2020 16:00	1.5	1.4	0.1	0.1	3.9
06/11/2020 17:00	1.5	2.1	0.1	0.1	3.9
06/11/2020 18:00	1.5	1.7	0.1	0.1	3.6
06/14/2020 18:00	1.4	0.8	2.7	0.9	3.0
06/14/2020 19:00	1.5	1.9	0.3	0.2	3.5
06/14/2020 20:00	1.4	0.9	0.2	0.1	3.6
06/15/2020 17:00	1.4	0.9	0.6	0.2	2.8
06/15/2020 18:00	1.5	2.5	0.7	1.1	3.4
06/17/2020 18:00	1.5	0.4	0.1	0.0	3.2
06/17/2020 19:00	1.5	0.8	0.1	0.0	3.9
06/20/2020 18:00	1.4	2.8	2.1	2.5	3.4
06/20/2020 19:00	1.4	2.9	1.2	1.7	3.3
06/22/2020 16:00	1.5	1.5	0.1	0.1	4.4
06/22/2020 17:00	1.5	1.9	0.1	0.1	3.7
06/22/2020 18:00	1.5	3.9	1.4	2.7	3.5
06/22/2020 19:00	1.5	1.9	0.1	0.0	3.9
06/22/2020 20:00	1.5	0.8	0.1	0.0	3.3
06/23/2020 16:00	1.5	1.5	0.1	0.1	3.7
06/23/2020 17:00	1.6	2.7	0.6	1.1	3.6
06/23/2020 18:00	1.5	2.1	0.1	0.1	4.1
06/23/2020 19:00	1.5	1.9	0.1	0.1	4.6
06/23/2020 20:00	1.5	0.3	0.0	0.0	4.7
06/24/2020 16:00	1.6	0.8	0.1	0.0	4.0
06/24/2020 17:00	1.5	4.1	1.3	2.5	4.1
06/24/2020 18:00	1.4	2.3	0.2	0.2	3.8
06/24/2020 19:00	1.5	1.3	0.1	0.1	4.3
06/26/2020 15:00	1.6	1.6	0.4	0.2	4.2
06/26/2020 16:00	1.5	4.4	1.4	2.7	3.5
06/26/2020 17:00	1.5	3.4	1.0	1.8	3.8
06/26/2020 18:00	1.5	5.0	1.6	3.3	3.0
06/26/2020 19:00	1.5	5.1	1.9	4.1	3.0
06/26/2020 20:00	1.5	2.2	0.2	0.2	4.2
06/26/2020 21:00	1.5	0.4	0.2	0.0	3.4
06/27/2020 13:00	1.5	0.9	0.2	0.1	3.5
06/27/2020 14:00	1.5	0.3	0.3	0.0	3.3
06/27/2020 15:00	1.2	0.6	0.2	0.1	3.7
06/27/2020 16:00	1.6	3.1	0.5	0.9	4.0
06/27/2020 17:00	1.5	4.3	1.1	2.3	3.7
06/27/2020 18:00	1.5	4.9	1.2	2.6	3.2
06/27/2020 19:00	1.5	5.3	1.6	3.4	3.3
06/27/2020 20:00	1.4	1.1	0.3	0.3	3.8
06/28/2020 19:00	1.1	0.5	0.2	0.1	4.6
06/28/2020 20:00	1.5	1.2	0.0	0.0	3.8
06/30/2020 19:00	1.4	2.4	2.3	2.4	3.5
06/30/2020 20:00	1.4	2.0	1.9	1.7	3.6
Final Average*	1.5	2.5	0.6	0.8	1.8
Maximum*	2.4	6.9	3.0	4.1	5.1
	05/06/2020 18:00	04/28/2020 8:00	04/28/2020 6:00	06/26/2020 19:00	04/28/2020 15:00
Minimum*	1.1	0.1	0.0	0.0	0.6
	06/28/2020 19:00	05/06/2020 17:00	06/28/2020 20:00	06/28/2020 20:00	05/03/2020 19:00

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

Average Values Report
 Generated: 7/20/2020 12:08

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

Period Start: 4/1/2020 00:00
 Period End: 6/30/2020 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
04/06/2020 15:00	1.4	2.1	0.8	0.8	1.6
04/06/2020 16:00	1.7	0.5	0.6	0.1	1.9
04/06/2020 17:00	0.9	0.0	1.0	0.0	2.5
04/06/2020 18:00	1.5	2.5	0.6	0.6	1.4
04/06/2020 19:00	1.5	2.6	0.6	0.7	1.2
04/06/2020 20:00	1.5	1.9	0.5	0.4	1.6
04/13/2020 18:00	1.4	3.9	1.0	1.8	1.2
04/13/2020 19:00	1.5	4.0	0.8	1.4	1.4
04/14/2020 19:00	1.4	4.0	1.2	2.1	1.4
04/14/2020 20:00	1.6	2.7	1.0	1.1	1.8
04/16/2020 18:00	1.5	0.4	0.8	0.1	1.2
04/16/2020 19:00	1.5	2.0	0.7	0.6	1.8
04/16/2020 20:00	1.4	0.4	0.7	0.1	1.8
04/20/2020 14:00	1.3	0.9	1.3	0.5	1.4
04/20/2020 15:00	1.6	0.9	0.9	0.3	1.5
04/21/2020 18:00	2.2	1.2	0.6	0.2	1.6
04/21/2020 19:00	1.4	4.5	1.2	2.4	1.5
04/21/2020 20:00	1.5	3.4	0.7	1.0	1.3
04/24/2020 14:00	1.4	3.8	0.8	1.2	1.5
04/24/2020 15:00	1.5	4.5	1.0	1.9	1.6
04/24/2020 16:00	1.8	0.8	0.5	0.2	1.7
04/24/2020 18:00	1.5	0.4	0.1	0.0	1.2
04/24/2020 19:00	1.5	2.0	0.1	0.1	2.1
04/24/2020 20:00	1.4	0.9	0.1	0.0	2.1
04/29/2020 06:00	1.6	1.8	0.9	0.6	1.4
04/29/2020 07:00	2.0	4.6	0.9	1.3	1.2
04/29/2020 08:00	2.0	6.5	0.9	1.8	1.2
04/29/2020 09:00	2.0	6.5	0.9	1.8	1.2
04/29/2020 10:00	2.0	6.5	0.9	1.8	1.2
04/29/2020 11:00	2.0	6.6	0.8	1.7	1.2
04/29/2020 12:00	2.0	6.5	0.9	1.8	1.2
04/29/2020 13:00	2.0	6.5	0.9	1.8	1.2
04/29/2020 14:00	2.0	6.5	0.9	1.9	1.2
04/29/2020 15:00	2.0	6.7	0.9	1.8	1.1
04/29/2020 16:00	1.9	6.2	0.9	1.9	1.1
05/01/2020 11:00	1.2	1.2	1.7	1.1	2.1
05/01/2020 12:00	1.5	4.9	1.2	2.6	2.1
05/01/2020 13:00	1.5	4.8	1.0	1.9	1.6
05/02/2020 18:00	1.3	1.2	1.2	0.7	2.2
05/02/2020 19:00	1.4	4.8	1.7	3.5	2.5
05/02/2020 20:00	1.3	2.1	0.6	0.6	N/A
05/03/2020 18:00	1.4	3.7	0.9	1.5	1.2
05/03/2020 19:00	1.5	3.0	1.2	1.5	1.2
05/03/2020 20:00	1.4	3.1	1.0	1.4	1.2
05/04/2020 17:00	1.4	4.1	1.1	2.1	2.2
05/04/2020 18:00	1.4	4.6	0.9	2.0	1.9
05/04/2020 19:00	1.5	5.3	0.9	2.0	1.7
05/04/2020 20:00	1.6	2.2	0.7	0.6	1.2
05/05/2020 05:00	1.5	1.4	0.2	0.1	1.5
05/05/2020 12:00	1.6	0.7	0.5	0.1	1.3
05/05/2020 13:00	1.5	3.4	0.5	0.9	1.9
05/05/2020 14:00	1.6	3.9	0.8	1.5	2.4
05/05/2020 15:00	1.5	0.5	0.2	0.0	2.0
05/06/2020 05:00	1.5	1.3	0.2	0.1	1.5
05/06/2020 14:00	1.3	1.5	0.2	0.2	2.4
05/06/2020 15:00	1.1	2.7	0.6	1.1	2.2
05/06/2020 16:00	1.4	4.0	0.5	1.0	1.8
05/06/2020 17:00	1.5	2.2	0.8	0.9	2.0
05/06/2020 18:00	1.5	3.8	0.6	1.1	1.9
05/06/2020 19:00	1.4	3.3	0.8	1.4	2.1
05/07/2020 09:00	1.4	1.9	0.2	0.1	1.3
05/07/2020 15:00	1.5	1.8	0.2	0.1	1.7
05/07/2020 16:00	1.5	4.6	0.6	1.2	2.5

Period Start:	Average	Average	Average	Average	Average
	7NOxCorOP1 ppm	7NOX#OP1HR LBS	7COCorOP1 ppm	7CO#OP1HR LBS	7NH3CorOP1 ppm
05/07/2020 17:00	1.6	3.5	0.6	1.1	2.1
05/07/2020 18:00	1.5	3.1	0.3	0.4	1.6
05/08/2020 09:00	1.5	0.6	0.1	0.0	1.4
05/08/2020 10:00	1.5	2.5	0.2	0.2	1.9
05/08/2020 11:00	1.5	2.2	0.1	0.1	1.7
05/08/2020 15:00	1.5	1.7	0.1	0.1	1.7
05/08/2020 16:00	1.5	3.4	0.4	0.7	2.1
05/08/2020 17:00	1.4	2.6	0.4	0.5	1.4
05/08/2020 18:00	1.6	3.9	0.5	0.7	1.6
05/08/2020 19:00	1.5	4.0	0.4	0.7	1.4
05/08/2020 20:00	1.4	0.9	0.1	0.1	1.9
05/09/2020 20:00	1.9	0.1	0.1	0.0	1.7
05/09/2020 21:00	1.5	2.1	0.0	0.0	1.5
05/09/2020 22:00	1.5	0.4	0.1	0.0	1.7
05/16/2020 18:00	1.4	2.4	0.7	0.9	2.1
05/16/2020 19:00	1.5	4.8	1.0	2.0	1.8
05/16/2020 20:00	1.6	2.5	0.5	0.7	2.2
05/16/2020 21:00	1.4	0.4	0.3	0.1	2.5
05/17/2020 18:00	1.6	0.5	0.2	0.0	2.1
05/17/2020 19:00	1.5	2.6	0.6	0.6	2.3
05/21/2020 08:00	1.5	1.4	0.0	0.0	2.0
05/21/2020 09:00	1.5	1.2	0.1	0.0	2.0
05/21/2020 10:00	1.5	1.9	0.1	0.1	2.0
05/21/2020 11:00	1.5	1.9	0.0	0.0	2.0
05/21/2020 12:00	1.5	2.2	0.1	0.1	2.1
05/21/2020 13:00	1.5	2.0	0.0	0.1	2.0
05/21/2020 18:00	1.4	2.6	0.4	0.4	2.0
05/21/2020 19:00	1.5	4.9	0.5	1.0	1.7
05/21/2020 20:00	1.4	2.1	0.6	0.5	1.9
05/22/2020 19:00	1.5	4.3	0.8	1.5	1.7
05/22/2020 20:00	1.4	4.7	0.6	1.2	1.9
05/22/2020 21:00	1.5	2.4	0.4	0.4	1.7
05/23/2020 19:00	1.1	2.6	1.2	1.6	1.9
05/24/2020 17:00	1.5	1.5	0.0	0.0	1.8
05/24/2020 18:00	1.4	4.2	1.0	2.0	1.6
05/24/2020 19:00	1.6	3.7	0.9	1.7	1.7
05/24/2020 20:00	1.4	2.6	0.3	0.3	1.7
05/25/2020 17:00	1.7	1.4	0.9	0.5	1.5
05/25/2020 18:00	1.4	4.6	1.2	2.5	1.5
05/25/2020 19:00	1.5	5.1	1.2	2.4	1.6
05/25/2020 20:00	1.6	3.8	0.7	1.1	1.5
05/26/2020 17:00	1.5	3.3	1.3	1.9	2.0
05/26/2020 18:00	1.5	4.8	0.9	1.9	1.7
05/26/2020 19:00	1.7	4.1	0.6	1.1	1.5
05/26/2020 20:00	1.4	2.5	0.5	0.9	2.2
05/27/2020 15:00	1.5	1.6	0.4	0.3	2.4
05/27/2020 16:00	1.4	2.7	0.5	1.0	1.9
05/27/2020 17:00	1.5	2.1	0.1	0.1	1.7
05/27/2020 18:00	1.5	3.5	0.5	0.7	1.7
05/27/2020 19:00	1.4	3.9	0.8	1.4	1.2
05/28/2020 06:00	1.4	3.4	1.1	1.6	1.9
05/28/2020 07:00	1.5	5.5	0.9	1.9	1.8
05/28/2020 08:00	1.5	5.7	1.1	2.5	1.9
05/28/2020 09:00	1.5	5.4	1.2	2.7	2.0
05/28/2020 10:00	1.5	5.5	1.3	2.8	2.0
05/28/2020 11:00	1.5	3.1	1.3	1.7	1.8
05/28/2020 15:00	1.5	1.5	0.1	0.1	1.8
05/28/2020 16:00	1.5	2.3	0.2	0.3	1.8
05/28/2020 17:00	1.5	2.0	0.2	0.1	1.8
05/28/2020 18:00	1.4	4.0	0.7	1.4	1.8
05/28/2020 19:00	1.6	2.4	0.2	0.2	1.8
05/28/2020 20:00	1.5	2.1	0.1	0.1	1.8
05/29/2020 17:00	1.5	2.0	0.3	0.3	2.1
05/29/2020 18:00	1.5	2.1	0.2	0.2	1.5
05/29/2020 19:00	1.4	1.9	0.2	0.2	1.4
05/30/2020 15:00	1.4	1.7	0.5	0.4	1.5
05/30/2020 16:00	1.5	2.0	0.3	0.3	1.5
06/01/2020 16:00	1.6	2.1	0.7	0.5	1.6
06/01/2020 17:00	1.5	1.6	0.7	0.5	1.7
06/01/2020 18:00	1.5	2.8	0.8	1.2	2.1
06/01/2020 19:00	1.5	1.9	0.3	0.3	2.0
06/01/2020 20:00	1.6	0.4	0.4	0.1	2.1

Period Start:	Average 7NOxCorOP1 ppm	Average 7NOX#OP1HR LBS	Average 7COCorOP1 ppm	Average 7CO#OP1HR LBS	Average 7NH3CorOP1 ppm
06/02/2020 16:00	1.4	1.8	0.9	0.8	1.7
06/02/2020 17:00	1.5	2.1	0.5	0.4	1.7
06/02/2020 18:00	1.5	2.0	0.4	0.3	1.7
06/02/2020 19:00	1.5	2.1	0.5	0.4	1.5
06/02/2020 20:00	1.5	0.9	0.4	0.2	1.6
06/03/2020 16:00	1.5	1.5	0.6	0.4	1.7
06/03/2020 17:00	1.5	2.0	0.5	0.4	1.7
06/03/2020 18:00	1.5	2.0	0.5	0.4	1.7
06/03/2020 19:00	1.5	2.1	0.5	0.5	1.8
06/03/2020 20:00	1.5	1.9	0.5	0.4	1.7
06/04/2020 18:00	1.4	3.9	2.1	4.1	2.1
06/10/2020 11:00	1.8	0.2	0.7	0.1	1.5
06/10/2020 12:00	1.4	0.3	0.7	0.1	1.9
06/10/2020 15:00	1.6	2.1	0.3	0.3	2.1
06/10/2020 16:00	1.5	2.7	0.4	0.4	1.9
06/10/2020 17:00	1.5	1.2	0.2	0.1	1.5
06/10/2020 18:00	1.5	0.6	0.2	0.1	1.6
06/11/2020 16:00	1.5	1.5	0.6	0.4	1.5
06/11/2020 17:00	1.5	2.2	0.6	0.6	1.5
06/11/2020 18:00	1.5	1.8	0.6	0.4	1.8
06/14/2020 18:00	1.3	2.1	2.9	2.9	1.6
06/14/2020 19:00	1.6	2.2	0.8	0.7	1.6
06/14/2020 20:00	1.4	0.9	0.9	0.3	1.8
06/15/2020 17:00	1.1	0.6	1.4	0.5	1.4
06/15/2020 18:00	1.6	2.7	1.3	1.8	1.7
06/17/2020 16:00	1.5	0.6	1.1	0.3	1.3
06/17/2020 18:00	1.6	0.5	0.7	0.1	1.6
06/17/2020 19:00	1.5	0.8	0.7	0.2	1.6
06/20/2020 05:00	1.5	1.9	0.8	0.6	1.2
06/20/2020 06:00	1.5	1.2	0.8	0.4	1.9
06/20/2020 18:00	1.4	2.6	2.8	3.3	1.6
06/20/2020 19:00	1.6	3.1	1.9	2.7	1.4
06/22/2020 16:00	1.5	1.5	0.6	0.4	1.4
06/22/2020 17:00	1.5	2.0	0.6	0.5	1.6
06/22/2020 18:00	1.5	3.7	1.7	3.2	1.8
06/22/2020 19:00	1.5	2.1	0.6	0.5	1.6
06/22/2020 20:00	1.5	0.9	0.6	0.2	1.6
06/23/2020 16:00	1.5	1.5	0.7	0.4	1.4
06/23/2020 17:00	1.5	2.6	1.1	1.6	2.0
06/23/2020 18:00	1.5	2.1	0.6	0.6	1.5
06/23/2020 19:00	1.5	2.0	0.6	0.5	1.6
06/23/2020 20:00	1.5	0.4	0.6	0.1	1.6
06/24/2020 16:00	1.5	1.1	0.7	0.3	1.4
06/24/2020 17:00	1.4	3.4	2.0	3.3	2.1
06/24/2020 18:00	1.6	2.5	0.8	0.8	1.4
06/24/2020 19:00	1.5	1.4	0.7	0.4	1.6
06/26/2020 15:00	1.5	1.4	1.2	0.6	1.8
06/26/2020 16:00	1.5	4.2	2.2	4.3	1.7
06/26/2020 17:00	1.5	3.2	1.8	3.1	1.9
06/26/2020 18:00	1.4	4.9	2.3	4.9	1.5
06/26/2020 19:00	1.5	4.9	2.8	6.0	1.7
06/26/2020 20:00	1.6	2.4	1.0	0.9	1.5
06/26/2020 21:00	1.5	0.4	1.0	0.1	1.7
06/27/2020 13:00	1.6	1.0	1.0	0.4	1.5
06/27/2020 14:00	1.5	0.3	1.0	0.1	1.6
06/27/2020 15:00	1.4	0.6	1.0	0.3	1.1
06/27/2020 16:00	1.4	2.8	1.3	1.8	1.7
06/27/2020 17:00	1.5	4.0	1.8	3.5	1.9
06/27/2020 18:00	1.5	5.0	2.0	4.4	1.7
06/27/2020 19:00	1.5	5.0	2.6	5.6	1.6
06/27/2020 20:00	1.7	1.4	1.1	0.6	1.3
06/28/2020 19:00	1.3	0.5	0.9	0.3	1.5
06/28/2020 20:00	1.5	1.2	0.8	0.4	1.7
06/29/2020 05:00	1.5	0.8	1.0	0.3	1.3
06/29/2020 18:00	1.5	0.4	0.2	0.0	1.2
06/29/2020 19:00	1.5	2.2	0.5	0.6	1.7
06/30/2020 19:00	1.4	4.1	2.6	4.6	1.5
06/30/2020 20:00	1.4	2.0	2.4	2.2	1.6
Final Average*	1.5	2.6	0.8	1.0	1.7
Maximum*	2.2	6.7	2.9	6.0	2.5
	04/21/2020 18:00	04/29/2020 15:00	06/14/2020 18:00	06/26/2020 19:00	05/16/2020 21:00

Period Start:	Average 7NOxCorOP1 ppm	Average 7NOX#OP1HR LBS	Average 7COCorOP1 ppm	Average 7CO#OP1HR LBS	Average 7NH3CorOP1 ppm
Minimum*	0.9	0.0	0.0	0.0	1.1
	04/06/2020 17:00	04/06/2020 17:00	05/24/2020 17:00	06/29/2020 18:00	06/27/2020 15:00

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

Average Values Report
Generated: 7/20/2020 12:09

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

Period Start: 4/1/2020 00:00
Period End: 6/30/2020 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
04/05/2020 15:00	1.5	1.1	0.0	0.0	2.0
04/05/2020 16:00	1.5	2.0	0.0	0.0	2.5
04/05/2020 17:00	1.6	2.0	0.0	0.0	2.7
04/05/2020 18:00	1.5	2.5	0.0	0.0	1.7
04/05/2020 19:00	1.5	2.3	0.0	0.0	2.2
04/05/2020 20:00	1.5	2.1	0.0	0.0	2.3
04/05/2020 21:00	1.6	2.5	0.0	0.0	2.7
04/05/2020 22:00	1.4	1.7	0.0	0.0	2.5
04/06/2020 15:00	1.5	2.3	0.0	0.0	2.1
04/06/2020 16:00	1.5	2.7	0.0	0.0	2.5
04/06/2020 17:00	1.6	2.7	0.1	0.1	2.7
04/06/2020 18:00	1.4	2.4	0.0	0.0	2.3
04/06/2020 19:00	1.5	2.6	0.0	0.0	2.1
04/06/2020 20:00	1.5	1.9	0.0	0.0	2.6
04/11/2020 12:00	1.3	0.4	0.0	0.0	2.4
04/11/2020 13:00	1.5	3.6	0.1	0.2	1.9
04/11/2020 14:00	1.5	3.4	0.1	0.2	1.9
04/11/2020 15:00	1.5	3.8	0.2	0.3	1.8
04/11/2020 16:00	1.5	3.8	0.2	0.3	1.6
04/13/2020 18:00	1.4	4.0	0.3	0.5	1.8
04/13/2020 19:00	1.5	3.8	0.2	0.3	1.9
04/14/2020 18:00	1.2	0.8	0.2	0.1	1.9
04/14/2020 19:00	1.5	4.8	0.3	0.5	1.7
04/14/2020 20:00	1.6	2.9	0.2	0.2	2.3
04/16/2020 18:00	1.5	0.4	0.0	0.0	1.7
04/16/2020 19:00	1.5	1.9	0.0	0.0	1.8
04/16/2020 20:00	1.5	0.4	0.0	0.0	2.1
04/19/2020 08:00	1.5	0.6	0.1	0.0	2.5
04/20/2020 07:00	1.1	0.4	0.0	0.0	2.5
04/20/2020 08:00	1.5	4.7	0.2	0.3	1.8
04/20/2020 09:00	1.5	3.5	0.1	0.3	2.1
04/20/2020 10:00	1.5	2.8	0.0	0.0	2.9
04/20/2020 11:00	1.5	1.8	0.0	0.0	2.8
04/21/2020 18:00	2.2	1.2	0.3	0.1	2.1
04/21/2020 19:00	1.4	4.7	0.3	0.7	1.8
04/21/2020 20:00	1.5	3.3	0.2	0.3	1.7
04/22/2020 05:00	2.1	0.2	0.0	0.0	1.0
04/22/2020 06:00	1.9	4.5	0.3	0.4	1.9
04/22/2020 07:00	2.0	2.3	0.2	0.2	1.5
04/22/2020 08:00	2.0	1.7	0.2	0.1	1.4
04/22/2020 09:00	2.0	2.3	0.7	0.5	1.5
04/22/2020 10:00	2.0	6.5	0.6	1.2	1.5
04/22/2020 11:00	2.0	6.8	0.5	1.0	1.4
04/22/2020 12:00	2.0	6.6	0.5	1.0	1.4
04/22/2020 13:00	2.0	6.8	0.5	1.0	1.4
04/22/2020 14:00	2.0	6.8	0.4	0.9	1.3
04/22/2020 15:00	2.0	6.7	0.5	1.0	1.4
04/22/2020 16:00	2.0	6.8	0.5	1.0	1.3
04/22/2020 17:00	1.9	6.5	0.5	1.0	1.5
04/22/2020 18:00	1.6	2.6	0.0	0.1	2.1
04/22/2020 19:00	1.2	0.7	0.3	0.1	2.8
04/24/2020 18:00	1.5	0.4	0.0	0.0	1.9
04/24/2020 19:00	1.5	1.9	0.0	0.0	1.9
04/24/2020 20:00	1.5	0.8	0.0	0.0	1.9
05/02/2020 18:00	2.3	1.7	0.4	0.2	3.4
05/02/2020 19:00	1.4	5.0	0.3	0.7	2.3
05/02/2020 20:00	1.5	2.2	0.3	0.3	2.2
05/03/2020 18:00	1.5	3.7	0.3	0.5	2.1
05/03/2020 19:00	1.5	3.0	0.5	0.6	1.7
05/03/2020 20:00	1.4	3.1	0.2	0.3	2.0
05/04/2020 18:00	1.4	3.9	0.3	0.5	2.2
05/04/2020 19:00	1.5	5.4	0.3	0.6	2.2
05/04/2020 20:00	1.5	2.0	0.4	0.4	1.9

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOx#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
05/05/2020 05:00	1.5	1.3	0.0	0.0	2.6
05/05/2020 12:00	1.7	0.7	0.1	0.0	2.4
05/05/2020 13:00	1.5	3.5	0.1	0.2	2.7
05/06/2020 17:00	1.1	0.1	0.2	0.0	3.0
05/06/2020 18:00	1.5	3.5	0.5	0.9	2.6
05/07/2020 15:00	1.5	1.8	0.1	0.1	2.3
05/07/2020 16:00	1.5	0.2	0.0	0.0	2.5
05/07/2020 17:00	1.2	0.2	0.1	0.0	2.3
05/07/2020 18:00	1.5	3.1	0.0	0.1	2.5
05/08/2020 09:00	1.5	2.6	0.2	0.3	2.6
05/08/2020 10:00	1.5	2.4	0.0	0.0	2.5
05/08/2020 11:00	1.5	2.1	0.0	0.0	2.6
05/08/2020 13:00	1.3	2.5	0.0	0.1	2.4
05/08/2020 14:00	1.5	2.6	0.1	0.1	2.3
05/08/2020 15:00	1.5	2.1	0.0	0.0	2.6
05/08/2020 16:00	1.5	3.5	0.1	0.2	2.5
05/08/2020 17:00	1.5	4.4	0.1	0.2	1.7
05/08/2020 18:00	1.5	3.7	0.2	0.3	1.6
05/08/2020 19:00	1.5	3.9	0.1	0.3	1.8
05/08/2020 20:00	1.4	0.9	0.0	0.0	2.9
05/09/2020 15:00	1.8	0.9	0.1	0.0	2.6
05/09/2020 16:00	1.5	3.2	0.1	0.1	2.6
05/09/2020 17:00	1.5	4.9	0.2	0.3	2.1
05/09/2020 18:00	1.5	4.3	0.3	0.5	1.9
05/09/2020 19:00	1.5	3.9	0.3	0.5	1.7
05/09/2020 20:00	1.5	3.1	0.2	0.3	2.2
05/09/2020 21:00	1.5	2.1	0.0	0.0	2.6
05/09/2020 22:00	1.5	0.4	0.0	0.0	2.7
05/10/2020 05:00	1.5	0.7	0.1	0.0	2.5
05/10/2020 18:00	1.5	1.5	0.0	0.0	2.4
05/10/2020 19:00	1.5	1.9	0.0	0.0	2.7
05/10/2020 20:00	1.5	1.9	0.0	0.0	2.6
05/12/2020 18:00	1.5	1.8	0.5	0.4	1.9
05/12/2020 19:00	1.5	3.1	0.7	0.8	2.3
05/13/2020 09:00	1.5	1.6	0.3	0.2	1.9
05/13/2020 10:00	1.5	2.3	0.4	0.3	1.9
05/13/2020 11:00	1.5	2.3	0.4	0.4	2.1
05/13/2020 12:00	1.5	2.2	0.3	0.3	2.1
05/13/2020 13:00	1.5	2.2	0.2	0.2	2.0
05/13/2020 14:00	1.5	2.2	0.3	0.3	2.3
05/13/2020 15:00	1.5	2.2	0.3	0.2	2.4
05/13/2020 18:00	1.2	0.9	0.7	0.3	1.7
05/13/2020 19:00	1.5	3.3	0.4	0.7	1.7
05/13/2020 20:00	1.2	0.4	1.0	0.2	1.6
05/14/2020 17:00	1.1	0.9	0.8	0.4	2.2
05/14/2020 18:00	1.5	2.1	0.2	0.2	2.3
05/14/2020 19:00	1.5	3.6	0.5	0.8	1.8
05/14/2020 20:00	1.6	2.5	0.2	0.2	2.5
05/14/2020 21:00	1.2	0.7	0.6	0.2	2.2
05/15/2020 17:00	1.5	2.3	0.7	0.7	2.3
05/15/2020 18:00	1.4	2.7	0.5	0.6	2.5
05/15/2020 19:00	1.5	2.1	0.3	0.3	2.6
05/15/2020 20:00	1.5	2.0	0.3	0.2	2.5
05/15/2020 21:00	1.5	1.9	0.3	0.2	2.6
05/16/2020 17:00	1.5	4.0	0.7	1.2	2.3
05/16/2020 18:00	1.5	3.6	0.7	1.0	2.3
05/16/2020 19:00	1.5	4.9	0.7	1.4	1.7
05/16/2020 20:00	1.5	2.6	0.4	0.5	2.6
05/16/2020 21:00	1.3	0.4	0.3	0.0	3.0
05/17/2020 18:00	1.7	0.5	0.3	0.0	2.5
05/17/2020 19:00	1.5	2.7	0.6	0.6	2.3
05/18/2020 18:00	1.3	2.8	0.8	1.0	1.9
05/18/2020 19:00	1.4	3.7	0.7	1.0	1.8
05/21/2020 17:00	1.6	3.1	0.7	0.9	2.5
05/21/2020 18:00	1.5	4.6	0.8	1.5	2.1
05/21/2020 19:00	1.5	5.5	0.7	1.4	1.8
05/21/2020 20:00	1.4	2.2	0.7	0.7	1.8
05/22/2020 20:00	1.4	3.7	0.7	1.1	1.8
05/22/2020 21:00	1.5	2.5	0.6	0.7	1.7
05/24/2020 17:00	1.5	1.5	0.0	0.0	2.5
05/24/2020 18:00	1.5	4.3	0.6	1.1	1.8
05/24/2020 19:00	1.5	3.6	0.7	1.3	2.0

Period Start:	Average	Average	Average	Average	Average
	8NOxCorOP1 ppm	8NOX#OP1HR LBS	8COCorOP1 ppm	8CO#OP1HR LBS	8NH3CorOP1 ppm
05/24/2020 20:00	1.4	2.5	0.3	0.3	1.9
05/25/2020 17:00	1.6	3.1	0.6	0.7	1.6
05/25/2020 18:00	1.5	4.9	0.6	1.3	1.7
05/25/2020 19:00	1.5	5.1	0.6	1.3	1.7
05/25/2020 20:00	1.5	2.3	0.7	0.6	1.6
05/26/2020 17:00	1.6	3.4	0.8	1.1	2.0
05/26/2020 18:00	1.5	5.1	0.7	1.4	1.9
05/26/2020 19:00	1.4	3.2	0.5	0.9	2.0
05/27/2020 17:00	1.5	1.7	0.1	0.1	2.3
05/27/2020 18:00	1.6	3.5	0.4	0.6	1.8
05/27/2020 19:00	1.4	4.0	0.6	1.0	1.7
05/28/2020 06:00	1.4	3.7	0.6	0.9	2.0
05/28/2020 07:00	1.5	5.2	0.5	1.1	2.0
05/28/2020 08:00	1.5	5.0	0.5	1.1	2.0
05/28/2020 09:00	1.5	5.1	0.5	1.2	2.1
05/28/2020 10:00	1.5	4.9	0.6	1.4	2.1
05/28/2020 11:00	1.5	4.7	0.6	1.3	2.1
05/28/2020 15:00	1.5	0.8	0.2	0.0	2.8
05/28/2020 16:00	1.5	2.3	0.1	0.1	2.6
05/28/2020 17:00	1.5	2.0	0.0	0.0	2.7
05/28/2020 18:00	1.5	4.2	0.3	0.6	2.2
05/28/2020 19:00	1.5	2.2	0.0	0.1	2.8
05/28/2020 20:00	1.5	2.0	0.0	0.0	2.6
05/29/2020 17:00	1.5	2.0	0.1	0.1	2.6
05/29/2020 18:00	1.5	2.0	0.0	0.0	2.5
05/29/2020 19:00	1.5	1.9	0.0	0.0	2.4
06/02/2020 16:00	1.4	1.9	0.1	0.2	2.1
06/02/2020 17:00	1.5	2.0	0.0	0.0	2.6
06/02/2020 18:00	1.5	2.2	0.0	0.0	2.9
06/02/2020 19:00	1.5	2.1	0.0	0.0	2.4
06/02/2020 20:00	1.5	0.9	0.0	0.0	2.4
06/03/2020 16:00	1.6	0.9	0.0	0.0	2.0
06/03/2020 17:00	1.5	2.0	0.1	0.1	2.7
06/03/2020 18:00	1.5	2.2	0.0	0.0	2.8
06/03/2020 19:00	1.5	2.2	0.0	0.0	2.7
06/03/2020 20:00	1.5	2.1	0.0	0.0	2.8
06/10/2020 15:00	1.5	0.5	0.2	0.0	2.3
06/10/2020 16:00	1.7	1.4	0.3	0.2	2.5
06/10/2020 17:00	1.4	1.8	0.2	0.2	2.7
06/10/2020 18:00	1.5	1.8	0.2	0.2	2.8
06/14/2020 18:00	1.4	2.2	0.9	0.9	1.9
06/14/2020 19:00	1.5	2.2	0.0	0.0	2.5
06/14/2020 20:00	1.4	0.9	0.0	0.0	2.4
06/15/2020 17:00	1.2	0.7	0.5	0.2	1.6
06/15/2020 18:00	1.5	2.6	0.3	0.5	2.3
06/17/2020 18:00	1.5	0.5	0.0	0.0	1.5
06/17/2020 19:00	1.6	0.9	0.0	0.0	2.4
06/20/2020 18:00	1.4	2.8	1.1	1.3	1.8
06/20/2020 19:00	1.5	2.9	0.7	0.9	1.8
06/22/2020 16:00	1.5	0.7	0.3	0.1	2.0
06/22/2020 17:00	1.5	2.0	0.3	0.2	2.6
06/22/2020 18:00	1.5	3.8	0.8	1.6	2.0
06/22/2020 19:00	1.5	2.0	0.2	0.1	2.5
06/22/2020 20:00	1.5	0.9	0.2	0.1	2.6
06/23/2020 16:00	1.5	1.5	0.2	0.2	2.1
06/23/2020 17:00	1.5	2.8	0.6	0.9	2.6
06/23/2020 18:00	1.5	2.1	0.3	0.3	2.4
06/23/2020 19:00	1.5	2.0	0.2	0.2	2.5
06/23/2020 20:00	1.5	0.4	0.2	0.0	2.6
06/24/2020 16:00	1.5	1.5	0.0	0.0	2.2
06/24/2020 17:00	1.5	3.9	0.5	1.1	2.3
06/24/2020 18:00	1.5	2.4	0.1	0.1	2.2
06/24/2020 19:00	1.5	1.3	0.0	0.0	2.6
06/26/2020 16:00	1.5	1.6	1.0	0.7	1.7
06/26/2020 17:00	1.5	3.3	0.7	1.2	2.4
06/26/2020 18:00	1.5	5.0	0.9	1.9	1.8
06/26/2020 19:00	1.5	4.9	1.0	2.2	1.9
06/26/2020 20:00	1.5	1.4	0.6	0.4	2.4
06/26/2020 21:00	1.5	0.4	0.4	0.1	2.7
06/27/2020 15:00	1.4	0.6	0.5	0.1	1.9
06/27/2020 16:00	1.5	3.0	0.5	0.8	2.2
06/27/2020 17:00	1.5	4.2	0.8	1.5	2.0

Period Start:	Average 8NOxCorOP1 ppm	Average 8NOX#OP1HR LBS	Average 8COCorOP1 ppm	Average 8CO#OP1HR LBS	Average 8NH3CorOP1 ppm
06/27/2020 18:00	1.5	5.1	0.9	2.0	1.9
06/27/2020 19:00	1.5	5.2	1.1	2.5	1.9
06/27/2020 20:00	1.5	1.2	0.5	0.3	2.2
06/28/2020 19:00	1.1	0.5	0.1	0.0	2.5
06/28/2020 20:00	1.5	1.2	0.0	0.0	2.4
06/30/2020 19:00	1.5	4.2	1.0	1.8	1.8
06/30/2020 20:00	1.5	2.1	1.0	0.9	2.0
Final Average*	1.5	2.6	0.3	0.4	2.2
Maximum*	2.3	6.8	1.1	2.5	3.4
	05/02/2020 18:00	04/22/2020 16:00	06/27/2020 19:00	06/27/2020 19:00	05/02/2020 18:00
Minimum*	1.1	0.1	0.0	0.0	0.0
	06/28/2020 19:00	05/06/2020 17:00	06/28/2020 20:00	06/29/2020 19:00	05/08/2020 8:00

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

Average Values Report
Generated: 7/20/2020 12:09

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

Period Start: 4/1/2020 00:00
Period End: 6/30/2020 23:59
Validation Type: 1/60 min
Averaging Period: 1 hr
Type: Block Avg

Period Start:	Average 9NOxCorOP1 ppm	Average 9NOX#OP1HR LBS	Average 9COCorOP1 ppm	Average 9CO#OP1HR LBS	Average 9NH3CorOP1 ppm	Notes
04/06/2020 15:00	1.5	2.2	0.2	0.2	3.3	
04/06/2020 16:00	1.6	0.4	0.1	0.0	3.2	
04/06/2020 17:00	1.2	0.1	0.2	0.0	4.6	
04/06/2020 18:00	1.5	2.4	0.1	0.1	3.0	
04/06/2020 19:00	1.5	2.5	0.1	0.1	2.9	
04/06/2020 20:00	1.5	2.0	0.1	0.1	3.5	
04/13/2020 18:00	1.4	4.2	0.4	0.7	2.7	
04/13/2020 19:00	1.5	3.9	0.3	0.6	2.6	
04/14/2020 18:00	1.1	0.1	0.3	0.0	3.9	
04/14/2020 19:00	1.4	3.7	0.5	0.8	3.0	
04/14/2020 20:00	1.6	2.8	0.3	0.3	3.2	
04/16/2020 18:00	1.6	0.4	0.1	0.0	2.5	
04/16/2020 19:00	1.5	2.0	0.1	0.1	4.0	
04/16/2020 20:00	1.5	0.4	0.1	0.0	4.1	
04/21/2020 06:00	1.7	4.2	0.4	0.7	3.9	
04/21/2020 07:00	2.0	6.6	0.5	1.0	4.3	
04/21/2020 08:00	2.0	6.6	0.4	0.9	4.2	
04/21/2020 09:00	2.0	6.7	0.4	0.9	4.1	
04/21/2020 10:00	2.0	6.8	0.4	0.8	4.6	
04/21/2020 11:00	2.0	6.8	0.4	0.8	3.6	
04/21/2020 12:00	2.0	6.7	0.4	0.7	2.4	
04/21/2020 13:00	2.0	6.7	0.3	0.7	2.3	
04/21/2020 14:00	2.0	6.9	0.4	0.8	2.2	
04/21/2020 15:00	2.0	6.7	0.4	0.8	2.4	
04/21/2020 16:00	1.9	6.4	0.4	0.8	2.5	
04/21/2020 17:00	1.5	4.9	0.4	0.8	3.2	
04/21/2020 18:00	1.6	4.1	0.4	0.6	3.2	
04/21/2020 19:00	1.4	4.6	0.4	0.9	2.8	
04/21/2020 20:00	1.5	2.0	0.5	0.4	2.7	
04/24/2020 13:00	1.5	3.6	0.4	0.7	3.4	
04/24/2020 14:00	1.5	4.9	0.4	0.8	3.2	
04/24/2020 15:00	1.4	0.2	0.3	0.0	2.5	
04/24/2020 18:00	1.5	0.4	0.1	0.0	2.7	
04/24/2020 19:00	1.5	2.0	0.1	0.1	2.7	
04/24/2020 20:00	1.4	0.9	0.1	0.0	2.7	
04/25/2020 17:00	1.5	2.0	0.1	0.1	2.9	
04/25/2020 18:00	1.5	2.5	0.2	0.2	3.4	
04/25/2020 19:00	1.5	1.4	0.1	0.0	4.0	
04/30/2020 09:00	1.6	0.5	0.2	0.0	2.7	
04/30/2020 10:00	1.5	0.9	0.2	0.1	2.6	
05/01/2020 10:00	1.4	4.7	0.5	1.1	3.4	
05/01/2020 11:00	1.5	3.9	0.6	1.1	3.2	
05/02/2020 18:00	1.5	1.4	0.5	0.3	3.2	
05/02/2020 19:00	1.4	3.2	0.8	1.0	3.0	
05/02/2020 20:00	1.5	2.3	0.5	0.5	2.6	
05/03/2020 18:00	1.4	3.5	0.6	1.0	2.4	
05/03/2020 19:00	1.5	4.6	0.7	1.3	1.9	
05/03/2020 20:00	1.5	3.2	0.6	0.8	2.4	
05/04/2020 18:00	1.4	3.8	0.5	0.9	3.0	
05/04/2020 19:00	1.5	5.2	0.5	1.1	2.8	
05/04/2020 20:00	1.5	2.0	0.5	0.4	2.3	
05/05/2020 05:00	1.5	1.4	0.2	0.1	3.2	
05/07/2020 15:00	1.5	1.8	0.3	0.3	2.8	
05/07/2020 16:00	1.8	0.3	0.3	0.0	2.4	
05/07/2020 17:00	1.2	0.2	0.4	0.0	2.9	
05/07/2020 18:00	1.5	3.1	0.3	0.4	2.6	
05/08/2020 15:00	1.4	0.9	0.4	0.2	3.1	
05/08/2020 16:00	1.5	3.5	0.3	0.5	3.7	
05/08/2020 17:00	1.5	4.3	0.4	0.8	2.4	
05/08/2020 18:00	1.6	3.9	0.4	0.6	2.1	
05/08/2020 19:00	1.5	3.9	0.4	0.7	2.5	
05/08/2020 20:00	1.4	0.9	0.2	0.1	3.2	
05/09/2020 15:00	1.9	0.9	0.2	0.1	3.6	
05/09/2020 16:00	1.5	3.2	0.2	0.3	3.7	
05/09/2020 17:00	1.5	4.7	0.3	0.7	3.5	
05/09/2020 18:00	1.5	4.4	0.4	0.8	2.8	
05/09/2020 19:00	1.5	3.9	0.4	0.7	2.5	
05/09/2020 20:00	1.5	3.1	0.3	0.4	3.0	
05/09/2020 21:00	1.5	2.1	0.2	0.1	3.6	
05/09/2020 22:00	1.5	0.4	0.1	0.0	3.8	
05/10/2020 05:00	1.5	1.5	0.1	0.1	3.4	
05/10/2020 18:00	1.5	1.5	0.1	0.1	3.4	
05/10/2020 19:00	1.5	2.0	0.1	0.1	3.7	

Period Start:	Average 9NOxCorOP1 ppm	Average 9NOX#OP1HR LBS	Average 9COCorOP1 ppm	Average 9CO#OP1HR LBS	Average 9NH3CorOP1 ppm	Notes
05/10/2020 20:00	1.5	1.3	0.3	0.2	3.6	
05/13/2020 18:00	1.2	0.8	0.7	0.3	2.5	
05/13/2020 19:00	1.6	3.6	0.4	0.7	2.4	
05/13/2020 20:00	1.4	1.9	0.5	0.4	3.2	
05/14/2020 17:00	1.1	0.8	0.6	0.3	3.8	
05/14/2020 18:00	1.5	2.2	0.2	0.2	3.0	
05/14/2020 19:00	1.5	3.5	0.4	0.6	2.5	
05/14/2020 20:00	1.6	2.5	0.2	0.2	3.2	
05/14/2020 21:00	1.1	0.6	0.5	0.2	3.6	
05/15/2020 18:00	1.5	0.6	0.2	0.1	3.2	
05/15/2020 19:00	1.5	2.2	0.2	0.2	3.6	
05/15/2020 20:00	1.5	2.1	0.2	0.2	3.5	
05/15/2020 21:00	1.5	2.0	0.2	0.2	3.6	
05/16/2020 18:00	1.4	2.5	0.4	0.5	2.9	
05/16/2020 19:00	1.5	5.0	0.6	1.1	2.7	
05/16/2020 20:00	1.6	2.5	0.2	0.3	3.7	
05/16/2020 21:00	1.5	0.4	0.2	0.0	3.8	
05/17/2020 19:00	1.4	2.5	0.6	0.6	3.3	
05/24/2020 19:00	1.6	0.8	0.2	0.1	3.1	
05/24/2020 20:00	1.5	2.6	0.3	0.3	2.8	
05/25/2020 17:00	1.6	3.0	0.7	0.9	2.1	
05/25/2020 18:00	1.5	4.9	0.9	1.8	2.5	
05/25/2020 19:00	1.5	5.0	0.6	1.3	2.5	
05/25/2020 20:00	1.5	3.7	0.5	0.8	2.2	
05/26/2020 17:00	3.1	1.2	0.2	0.1	3.4	<15 minute operating hour
05/27/2020 15:00	1.5	1.7	0.2	0.2	3.9	
05/27/2020 16:00	1.5	2.8	0.5	0.9	3.1	
05/27/2020 17:00	1.5	2.1	0.1	0.1	3.2	
05/27/2020 18:00	1.5	3.4	0.4	0.5	2.6	
05/27/2020 19:00	1.4	4.0	0.7	1.1	2.0	
05/28/2020 06:00	1.4	3.3	0.6	0.9	3.2	
05/28/2020 07:00	1.5	5.3	0.5	1.2	3.2	
05/28/2020 08:00	1.5	5.3	0.5	1.0	3.3	
05/28/2020 09:00	1.5	5.0	0.5	1.1	3.1	
05/28/2020 10:00	1.5	5.1	0.5	1.0	3.2	
05/28/2020 11:00	1.5	2.9	0.7	0.9	3.1	
05/28/2020 15:00	1.5	1.5	0.1	0.0	3.6	
05/28/2020 16:00	1.5	2.4	0.1	0.1	3.3	
05/28/2020 17:00	1.5	2.0	0.1	0.1	3.7	
05/28/2020 18:00	1.5	4.0	0.3	0.6	2.9	
05/28/2020 19:00	1.5	2.3	0.1	0.1	3.5	
05/28/2020 20:00	1.5	2.1	0.1	0.1	3.5	
05/29/2020 15:00	1.4	4.0	0.4	0.7	3.2	
05/29/2020 16:00	1.5	2.8	0.2	0.2	3.3	
05/29/2020 17:00	1.5	2.4	0.1	0.1	3.4	
05/29/2020 18:00	1.5	2.1	0.1	0.1	3.4	
05/29/2020 19:00	1.5	2.0	0.1	0.1	3.4	
05/30/2020 15:00	1.5	1.8	0.1	0.1	2.7	
05/30/2020 16:00	1.5	2.1	0.1	0.1	3.3	
05/31/2020 15:00	0.9	0.3	0.2	0.0	4.8	
05/31/2020 16:00	1.5	1.7	0.2	0.1	2.7	
05/31/2020 17:00	1.5	2.4	0.1	0.1	2.8	
05/31/2020 18:00	1.5	2.3	0.1	0.1	2.7	
05/31/2020 19:00	1.5	2.3	0.1	0.1	2.9	
05/31/2020 20:00	1.5	2.3	0.1	0.1	2.8	
05/31/2020 21:00	1.5	2.2	0.1	0.1	2.6	
06/01/2020 16:00	1.5	2.0	0.1	0.1	2.8	
06/01/2020 17:00	1.5	2.5	0.1	0.1	2.6	
06/01/2020 18:00	1.5	2.8	0.2	0.3	2.8	
06/01/2020 19:00	1.5	1.9	0.1	0.1	2.6	
06/01/2020 20:00	1.6	0.4	0.1	0.0	2.6	
06/02/2020 16:00	1.5	2.0	0.2	0.2	2.5	
06/02/2020 17:00	1.5	2.1	0.1	0.1	3.3	
06/02/2020 18:00	1.5	2.0	0.1	0.1	2.3	
06/02/2020 19:00	1.5	2.1	0.1	0.1	3.1	
06/02/2020 20:00	1.5	0.9	0.1	0.0	3.0	
06/03/2020 16:00	1.5	1.5	0.1	0.1	2.5	
06/03/2020 17:00	1.5	1.3	0.2	0.1	2.5	
06/03/2020 18:00	1.5	2.0	0.1	0.1	2.3	
06/03/2020 19:00	1.5	2.1	0.1	0.1	2.5	
06/03/2020 20:00	1.5	1.8	0.1	0.1	2.4	
06/04/2020 18:00	1.5	4.1	1.0	2.1	2.9	
06/08/2020 18:00	1.4	4.7	1.6	3.2	2.8	
06/08/2020 19:00	1.5	4.5	1.4	3.0	2.4	
06/08/2020 20:00	1.4	3.4	1.1	1.7	2.6	
06/09/2020 22:00	1.3	1.4	0.1	0.1	3.3	
06/10/2020 11:00	1.6	0.2	0.6	0.0	2.5	
06/10/2020 12:00	1.4	0.4	0.6	0.1	2.4	
06/10/2020 15:00	1.5	2.0	0.1	0.1	2.9	
06/10/2020 16:00	1.5	2.7	0.2	0.2	2.7	
06/10/2020 17:00	1.5	1.2	0.1	0.0	3.1	
06/10/2020 18:00	1.4	0.6	0.1	0.0	3.4	

Period Start:	Average 9NOxCorOP1 ppm	Average 9NOX#OP1HR LBS	Average 9COCorOP1 ppm	Average 9CO#OP1HR LBS	Average 9NH3CorOP1 ppm	Notes
06/11/2020 16:00	1.5	1.5	0.1	0.0	2.2	
06/11/2020 17:00	1.5	2.2	0.1	0.1	2.3	
06/11/2020 18:00	1.5	1.9	0.1	0.1	2.3	
06/13/2020 17:00	1.5	2.5	0.4	0.6	2.2	
06/14/2020 18:00	1.4	2.1	1.3	1.3	2.6	
06/14/2020 19:00	1.6	2.2	0.1	0.1	2.0	
06/14/2020 20:00	1.4	0.9	0.1	0.0	2.4	
06/14/2020 22:00	1.5	0.9	0.3	0.1	2.4	
06/15/2020 17:00	1.3	0.8	0.2	0.1	1.9	
06/15/2020 18:00	1.5	2.7	0.4	0.6	2.2	
06/16/2020 18:00	1.3	0.8	0.8	0.3	2.9	
06/16/2020 19:00	1.5	2.4	1.0	1.4	2.7	
06/17/2020 16:00	1.5	1.5	0.1	0.0	2.0	
06/17/2020 18:00	1.5	0.5	0.1	0.0	2.0	
06/17/2020 19:00	1.5	0.9	0.1	0.0	1.9	
06/19/2020 19:00	1.5	3.1	0.8	1.6	2.7	
06/19/2020 20:00	1.5	0.4	0.1	0.0	2.9	
06/20/2020 05:00	1.5	2.0	0.1	0.1	1.7	
06/20/2020 06:00	1.5	1.2	0.1	0.1	2.4	
06/20/2020 17:00	1.6	3.3	0.7	1.5	2.9	
06/20/2020 18:00	1.4	4.5	1.3	2.8	2.8	
06/20/2020 19:00	1.4	1.1	0.6	0.3	2.0	
06/22/2020 16:00	1.5	1.6	0.1	0.0	1.8	
06/22/2020 17:00	1.5	2.1	0.1	0.1	2.0	
06/22/2020 18:00	1.4	3.8	0.8	1.6	2.6	
06/22/2020 19:00	1.5	2.1	0.1	0.1	1.9	
06/22/2020 20:00	1.5	0.9	0.1	0.0	2.0	
06/23/2020 16:00	1.5	1.6	0.1	0.0	1.9	
06/23/2020 17:00	1.5	2.8	0.5	0.8	2.6	
06/23/2020 18:00	1.5	2.2	0.1	0.1	2.3	
06/23/2020 19:00	1.5	2.1	0.1	0.1	2.0	
06/23/2020 20:00	1.5	0.4	0.1	0.0	1.9	
06/24/2020 16:00	1.5	1.6	0.1	0.0	1.8	
06/24/2020 17:00	1.5	3.8	0.7	1.4	2.6	
06/24/2020 18:00	1.5	2.4	0.1	0.1	2.2	
06/24/2020 19:00	1.5	1.5	0.1	0.0	2.0	
06/26/2020 15:00	1.5	1.4	0.2	0.1	2.8	
06/26/2020 16:00	1.5	4.2	0.8	1.5	2.4	
06/26/2020 17:00	1.5	2.5	1.2	1.5	2.6	
06/26/2020 18:00	1.5	5.1	0.7	1.5	2.1	
06/26/2020 19:00	1.5	5.0	0.8	1.7	2.6	
06/26/2020 20:00	1.5	2.3	0.1	0.1	2.3	
06/26/2020 21:00	1.5	0.4	0.1	0.0	2.1	
06/27/2020 13:00	1.5	1.1	0.1	0.0	2.0	
06/27/2020 14:00	1.5	0.4	0.1	0.0	2.0	
06/27/2020 15:00	1.4	0.6	0.1	0.0	2.2	
06/27/2020 16:00	1.5	3.0	0.3	0.5	2.2	
06/27/2020 17:00	1.5	4.1	0.5	1.1	2.6	
06/27/2020 18:00	1.5	4.9	0.6	1.3	2.6	
06/27/2020 19:00	1.5	5.2	1.0	2.1	2.7	
06/27/2020 20:00	1.6	1.2	0.3	0.2	2.0	
06/28/2020 18:00	1.4	4.2	1.0	2.1	2.4	
06/28/2020 19:00	1.5	3.4	0.6	1.1	2.6	
06/28/2020 20:00	1.5	2.7	0.1	0.1	2.7	
06/28/2020 21:00	1.5	1.5	0.1	0.0	2.9	
06/29/2020 05:00	1.5	0.9	0.3	0.1	3.2	
06/29/2020 18:00	1.5	0.5	0.1	0.0	1.9	
06/29/2020 19:00	1.5	2.2	0.4	0.5	2.4	
06/30/2020 18:00	1.5	4.7	1.4	2.9	2.7	
06/30/2020 19:00	1.4	4.9	1.5	3.3	2.7	
06/30/2020 20:00	1.4	2.1	1.3	1.2	2.7	
Final Average*	1.5	2.6	0.4	0.5	2.8	
Maximum*	3.1	6.9	1.6	3.3	4.8	
	05/26/2020 17:00	04/21/2020 14:00	06/08/2020 18:00	06/30/2020 19:00	05/31/2020 15:00	
Minimum*	0.9	0.1	0.1	0.0	1.7	
	05/31/2020 15:00	04/14/2020 18:00	06/29/2020 18:00	06/29/2020 18:00	06/20/2020 5:00	

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

Average Values Report
 Generated: 7/20/2020 12:06

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

Period Start: 4/1/2020 00:00
 Period End: 6/30/2020 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
04/05/2020 18:00	1.5	3.8	1.5	3.1	2.9
04/05/2020 19:00	1.5	4.3	1.7	3.6	3.0
04/05/2020 20:00	1.4	4.0	0.4	0.8	2.1
04/06/2020 15:00	1.5	3.1	2.1	3.2	2.9
04/06/2020 16:00	1.5	0.5	0.3	0.1	2.8
04/13/2020 18:00	1.3	2.1	3.1	3.2	3.1
04/13/2020 19:00	1.5	4.1	1.3	2.5	2.8
05/01/2020 06:00	1.6	1.8	3.4	2.4	3.0
05/01/2020 07:00	1.8	5.5	2.1	4.0	2.7
05/01/2020 08:00	2.0	6.3	1.8	3.5	1.9
05/01/2020 09:00	2.0	6.3	2.4	4.8	1.9
05/01/2020 10:00	2.0	6.3	2.4	4.9	2.0
05/01/2020 11:00	2.0	6.6	2.3	4.6	2.0
05/01/2020 12:00	2.0	6.4	2.5	5.1	2.1
05/01/2020 13:00	2.0	6.6	3.4	6.9	2.1
05/01/2020 14:00	2.0	6.6	3.0	6.0	2.3
05/01/2020 15:00	2.0	6.6	3.3	6.5	2.0
05/01/2020 16:00	2.0	5.9	N/A	N/A	2.1
05/11/2020 06:00	1.5	3.1	N/A	N/A	2.7
05/11/2020 07:00	1.2	0.2	N/A	N/A	3.2
05/11/2020 09:00	2.1	0.6	N/A	N/A	1.8
05/11/2020 10:00	2.0	6.5	N/A	N/A	1.7
05/11/2020 11:00	2.0	6.4	N/A	N/A	1.8
05/11/2020 12:00	2.0	6.5	N/A	N/A	1.8
05/11/2020 13:00	2.0	6.4	N/A	N/A	1.7
05/11/2020 14:00	2.0	6.5	N/A	N/A	1.8
05/11/2020 15:00	2.0	6.4	0.6	0.6	1.8
05/11/2020 16:00	1.5	3.0	0.2	0.3	2.6
05/11/2020 17:00	1.4	3.1	0.3	0.5	2.6
05/13/2020 09:00	1.5	1.4	0.1	0.1	2.2
05/13/2020 10:00	1.5	1.7	0.1	0.1	2.0
05/13/2020 14:00	1.5	1.4	0.1	0.1	2.0
05/13/2020 15:00	1.5	1.8	0.1	0.1	2.0
05/15/2020 19:00	1.6	1.1	0.1	0.0	2.5
05/15/2020 20:00	1.5	2.9	0.6	1.1	2.7
05/16/2020 17:00	1.4	2.9	1.3	2.0	3.1
05/16/2020 18:00	1.5	3.0	0.4	0.7	2.5
05/16/2020 19:00	1.5	3.7	0.7	1.3	2.5
05/16/2020 20:00	1.4	1.8	0.2	0.2	2.5
05/17/2020 19:00	1.5	1.6	0.2	0.1	2.0
05/18/2020 18:00	1.5	4.6	1.4	2.7	2.3
05/18/2020 19:00	1.4	3.3	0.8	1.2	2.5
05/21/2020 08:00	1.5	1.4	0.3	0.2	2.1
05/21/2020 17:00	1.4	3.2	1.2	2.2	2.4
05/21/2020 18:00	1.5	4.4	1.7	3.5	2.6
05/21/2020 19:00	1.5	5.0	1.7	3.6	2.3
05/21/2020 20:00	1.3	0.9	1.4	0.6	2.4
05/22/2020 19:00	1.5	2.8	2.0	2.4	2.7
05/22/2020 20:00	1.5	4.7	0.8	1.6	2.6
05/22/2020 21:00	1.6	1.2	0.1	0.1	2.7
05/24/2020 18:00	1.5	1.6	0.2	0.1	2.0
05/24/2020 19:00	1.5	2.3	0.2	0.2	2.1
05/24/2020 20:00	1.5	0.6	0.4	0.1	2.4
05/25/2020 17:00	1.4	1.4	0.3	0.1	2.0
05/26/2020 16:00	1.5	1.4	0.3	0.1	2.1
05/26/2020 17:00	1.5	2.5	0.3	0.3	2.5
05/26/2020 18:00	1.4	4.7	2.6	5.5	2.8
05/26/2020 19:00	1.5	2.3	0.3	0.3	2.2
05/26/2020 20:00	1.5	1.6	0.2	0.1	2.1
05/27/2020 15:00	1.4	0.4	0.0	0.0	2.0
05/27/2020 16:00	1.5	2.7	0.2	0.4	2.1
05/27/2020 17:00	1.4	2.1	0.0	0.0	2.3
05/27/2020 18:00	1.5	2.3	0.0	0.0	2.8

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCoOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm
05/27/2020 19:00	1.5	1.6	0.0	0.0	2.9
05/27/2020 20:00	1.5	1.7	0.0	0.0	2.7
05/28/2020 06:00	1.5	3.8	1.4	2.2	2.7
05/28/2020 07:00	1.5	5.1	1.1	2.5	2.6
05/28/2020 08:00	1.5	5.1	1.0	2.2	2.7
05/28/2020 09:00	1.5	5.1	1.2	2.5	2.7
05/28/2020 10:00	1.5	5.0	1.1	2.4	2.7
05/28/2020 11:00	1.5	4.8	1.4	2.9	2.7
05/28/2020 17:00	1.4	2.2	0.7	1.0	2.8
05/29/2020 10:00	1.5	3.3	0.4	0.5	2.4
05/29/2020 12:00	1.5	0.4	0.0	0.0	2.6
05/29/2020 13:00	1.6	2.1	0.0	0.0	3.1
05/29/2020 14:00	1.5	2.4	0.1	0.1	3.0
05/29/2020 15:00	1.5	3.2	0.2	0.4	3.0
05/29/2020 16:00	1.5	1.2	0.0	0.0	2.8
05/29/2020 17:00	1.5	2.1	0.1	0.1	2.7
05/29/2020 18:00	1.5	2.2	0.0	0.0	3.1
05/29/2020 19:00	1.5	2.3	0.1	0.0	2.8
05/29/2020 20:00	1.5	2.0	0.0	0.0	2.8
05/30/2020 16:00	1.5	1.3	0.1	0.1	2.5
05/30/2020 19:00	1.5	3.9	0.8	1.6	2.6
05/30/2020 20:00	1.4	2.3	0.4	0.5	2.8
05/31/2020 16:00	1.5	1.4	0.1	0.0	2.8
05/31/2020 17:00	1.5	1.9	0.0	0.0	3.0
05/31/2020 18:00	1.5	0.4	0.0	0.0	3.0
05/31/2020 21:00	1.6	1.3	0.0	0.0	2.8
06/01/2020 05:00	1.5	0.8	0.1	0.0	2.4
06/01/2020 14:00	1.4	0.9	0.1	0.0	2.7
06/01/2020 15:00	1.4	0.3	0.1	0.0	3.0
06/01/2020 17:00	1.4	0.5	0.0	0.0	2.1
06/01/2020 18:00	1.5	2.2	0.0	0.0	2.7
06/02/2020 10:00	1.4	1.0	0.1	0.0	2.5
06/02/2020 11:00	1.5	2.1	0.1	0.1	2.4
06/02/2020 12:00	1.5	2.2	0.2	0.1	2.4
06/02/2020 13:00	1.5	2.2	0.2	0.2	2.4
06/02/2020 14:00	1.5	3.1	0.5	0.9	2.7
06/02/2020 15:00	1.5	2.3	0.1	0.1	2.5
06/02/2020 16:00	1.5	2.4	0.1	0.1	2.8
06/02/2020 17:00	1.5	2.4	0.1	0.1	2.8
06/02/2020 18:00	1.5	2.5	0.1	0.1	2.8
06/02/2020 19:00	1.5	2.3	0.1	0.0	2.8
06/03/2020 14:00	1.5	2.0	0.6	0.7	2.7
06/03/2020 15:00	1.5	1.4	0.2	0.1	2.4
06/03/2020 16:00	1.5	2.4	0.3	0.3	2.2
06/03/2020 17:00	1.5	2.3	0.3	0.3	2.4
06/03/2020 18:00	1.5	2.2	0.2	0.2	2.6
06/04/2020 17:00	1.4	1.5	0.0	0.0	2.3
06/04/2020 18:00	1.5	2.2	0.0	0.0	2.8
06/08/2020 05:00	1.5	0.9	0.2	0.1	2.3
06/08/2020 06:00	1.6	0.4	0.2	0.0	2.4
06/08/2020 17:00	1.5	2.1	0.0	0.0	2.2
06/08/2020 18:00	1.5	3.0	0.3	0.6	2.5
06/08/2020 19:00	1.5	4.2	1.3	2.8	2.5
06/08/2020 20:00	1.4	3.4	2.4	3.6	2.5
06/09/2020 15:00	1.4	0.1	0.0	0.0	1.7
06/09/2020 16:00	1.5	0.9	0.3	0.1	2.1
06/09/2020 17:00	1.5	1.1	1.2	0.5	2.5
06/09/2020 18:00	1.5	0.4	0.0	0.0	2.8
06/09/2020 20:00	1.5	3.0	1.8	2.5	2.3
06/10/2020 05:00	1.3	1.3	0.0	0.0	2.5
06/10/2020 11:00	1.5	0.7	1.1	0.5	3.1
06/10/2020 12:00	1.4	1.0	0.0	0.0	2.5
06/11/2020 18:00	1.5	1.4	0.0	0.0	1.8
06/12/2020 17:00	1.5	1.3	0.0	0.0	2.4
06/13/2020 05:00	1.6	0.9	0.0	0.0	1.6
06/13/2020 06:00	1.5	0.4	0.0	0.0	1.7
06/14/2020 15:00	1.5	0.7	0.0	0.0	2.5
06/14/2020 16:00	1.5	1.9	0.0	0.0	2.6
06/14/2020 18:00	1.5	2.5	0.5	0.7	2.5
06/14/2020 19:00	1.5	1.5	0.0	0.0	2.1
06/15/2020 06:00	1.5	1.6	0.0	0.0	2.3
06/15/2020 07:00	1.5	2.1	0.0	0.0	2.5

Period Start:	Average 10NOxCrOP1 ppm	Average 10NOX#OP1H LBS	Average 10COCoOP1 ppm	Average 10CO#OP1HR LBS	Average 10NH3CrNS1 ppm
06/15/2020 08:00	1.5	0.4	0.0	0.0	2.8
06/15/2020 12:00	1.6	1.6	0.0	0.0	2.6
06/15/2020 13:00	1.5	1.8	0.0	0.0	2.7
06/16/2020 18:00	1.6	0.6	0.0	0.0	2.3
06/16/2020 19:00	1.5	1.6	0.1	0.1	2.6
06/17/2020 06:00	1.5	1.3	0.0	0.0	1.6
06/17/2020 10:00	1.5	1.3	0.0	0.0	2.3
06/18/2020 05:00	1.5	0.7	0.0	0.0	1.8
06/18/2020 06:00	1.5	2.0	0.0	0.0	2.3
06/18/2020 07:00	1.5	1.3	0.0	0.0	2.6
06/18/2020 14:00	1.3	0.0	0.0	0.0	1.4
06/18/2020 15:00	1.5	0.9	0.0	0.0	2.6
06/19/2020 06:00	1.6	1.1	0.6	0.5	2.4
06/19/2020 18:00	1.5	2.1	0.3	0.3	2.3
06/19/2020 19:00	1.6	1.6	0.0	0.0	2.5
06/20/2020 05:00	1.6	2.9	1.5	2.3	2.2
06/20/2020 06:00	1.4	2.6	0.8	1.5	2.2
06/20/2020 15:00	1.5	1.5	0.0	0.0	2.4
06/20/2020 16:00	1.5	2.0	0.0	0.0	2.6
06/20/2020 17:00	1.4	2.9	0.7	1.5	2.8
06/20/2020 18:00	1.5	4.7	1.9	4.1	2.6
06/20/2020 19:00	1.5	2.0	1.8	1.6	2.3
06/21/2020 05:00	1.5	0.3	0.0	0.0	N/A
06/21/2020 06:00	1.6	0.4	0.0	0.0	2.8
06/21/2020 19:00	1.5	1.8	0.2	0.2	2.3
06/22/2020 17:00	1.4	0.5	0.0	0.0	1.9
06/22/2020 18:00	1.5	3.1	0.5	1.0	2.6
06/22/2020 19:00	1.5	2.4	0.0	0.0	2.3
06/22/2020 20:00	1.5	1.1	0.0	0.0	2.1
06/23/2020 06:00	1.5	1.4	0.0	0.0	2.5
06/23/2020 09:00	1.8	0.8	0.1	0.0	2.1
06/23/2020 10:00	1.3	1.6	0.6	0.5	2.1
06/24/2020 17:00	1.3	1.0	2.0	1.0	2.7
06/24/2020 18:00	1.6	2.5	0.0	0.0	2.6
06/24/2020 19:00	1.5	0.4	0.0	0.0	2.7
06/25/2020 05:00	1.5	1.4	0.0	0.0	2.8
06/25/2020 06:00	1.5	0.4	0.0	0.0	2.6
06/26/2020 14:00	1.3	1.1	1.9	0.9	3.1
06/26/2020 15:00	1.5	2.7	0.2	0.2	2.7
06/26/2020 16:00	1.3	0.1	0.2	0.0	2.9
06/26/2020 17:00	1.2	0.9	2.2	1.1	3.1
06/26/2020 18:00	1.5	4.1	0.8	1.6	2.7
06/26/2020 19:00	1.5	5.1	0.7	1.4	2.6
06/26/2020 20:00	1.5	2.2	0.0	0.0	2.8
06/27/2020 13:00	1.4	0.5	0.2	0.0	2.1
06/27/2020 14:00	1.5	2.3	0.2	0.1	2.7
06/27/2020 15:00	1.5	2.0	0.1	0.1	2.5
06/27/2020 16:00	1.5	2.7	0.2	0.4	2.7
06/27/2020 17:00	1.4	3.9	0.8	1.8	2.8
06/27/2020 18:00	1.5	5.0	0.9	1.8	2.6
06/27/2020 19:00	1.5	4.9	0.7	1.5	2.6
06/27/2020 20:00	1.6	1.0	0.0	0.0	2.6
06/28/2020 18:00	1.5	3.5	0.6	1.2	3.1
06/28/2020 19:00	1.6	1.2	0.1	0.1	3.3
06/29/2020 05:00	1.5	1.4	0.1	0.0	2.5
06/29/2020 18:00	1.3	0.2	0.0	0.0	1.9
06/29/2020 19:00	1.6	0.5	0.1	0.0	N/A
06/30/2020 09:00	1.5	1.3	0.0	0.0	2.9
06/30/2020 11:00	1.5	0.9	0.2	0.1	2.9
06/30/2020 12:00	1.5	0.3	0.2	0.0	2.9
Final Average*	1.5	2.4	0.6	0.9	2.5
Maximum*	2.1	6.6	3.4	6.9	3.3
	05/11/2020 9:00	05/01/2020 15:00	05/01/2020 13:00	05/01/2020 13:00	06/28/2020 19:00
Minimum*	1.2	0.0	0.0	0.0	1.4
	06/26/2020 17:00	06/18/2020 14:00	06/30/2020 9:00	06/30/2020 12:00	06/18/2020 14:00

* 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: 7/20/2020 12:10
 StartUp/ShutDown Event Report NRG Carlsbad Unit 6
 Carlsbad Unit 6

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

Events	Time	Duration (min)	CO LBs	Nox Lbs	Notes
START_UP	04/01/2020 15:53 ~ 04/01/2020 16:17	25	1.2	4.0	
SHUT_DOWN	04/01/2020 22:57 ~ 04/01/2020 23:09	13	0.0	0.3	
START_UP	04/04/2020 16:53 ~ 04/04/2020 17:17	25	2.9	4.0	
SHUT_DOWN	04/04/2020 22:57 ~ 04/04/2020 23:09	13	0.0	0.3	
START_UP	04/05/2020 13:53 ~ 04/05/2020 14:17	25	1.2	3.9	
SHUT_DOWN	04/05/2020 22:57 ~ 04/05/2020 23:09	13	0.0	0.3	
START_UP	04/06/2020 14:52 ~ 04/06/2020 15:16	25	3.1	3.5	
SHUT_DOWN	04/06/2020 16:12 ~ 04/06/2020 16:24	13	0.0	0.3	
START_UP	04/06/2020 17:34 ~ 04/06/2020 17:58	25	1.2	1.7	
SHUT_DOWN	04/06/2020 20:57 ~ 04/06/2020 21:09	13	0.0	0.3	
START_UP	04/11/2020 12:23 ~ 04/11/2020 12:47	25	4.2	4.5	
SHUT_DOWN	04/11/2020 16:58 ~ 04/11/2020 17:10	13	0.0	0.2	
START_UP	04/13/2020 17:43 ~ 04/13/2020 18:07	25	3.5	4.6	
SHUT_DOWN	04/13/2020 19:57 ~ 04/13/2020 20:09	13	0.0	0.3	
START_UP	04/14/2020 18:23 ~ 04/14/2020 18:47	25	4.0	4.8	
SHUT_DOWN	04/14/2020 20:42 ~ 04/14/2020 20:54	13	0.0	0.2	
START_UP	04/16/2020 18:22 ~ 04/16/2020 18:46	25	4.3	3.9	
SHUT_DOWN	04/16/2020 20:12 ~ 04/16/2020 20:24	13	0.0	0.3	
START_UP	04/19/2020 10:02 ~ 04/19/2020 10:26	25	1.8	2.5	
SHUT_DOWN	04/19/2020 10:27 ~ 04/19/2020 10:30	4	0.0	0.1	
START_UP	04/28/2020 05:52 ~ 04/28/2020 06:16	25	2.6	5.0	
SHUT_DOWN	04/28/2020 15:57 ~ 04/28/2020 16:09	13	0.0	0.3	
START_UP	04/30/2020 09:22 ~ 04/30/2020 09:46	25	2.3	4.5	
SHUT_DOWN	04/30/2020 10:26 ~ 04/30/2020 10:38	13	0.0	0.2	
START_UP	05/01/2020 05:38 ~ 05/01/2020 06:02	25	1.8	4.4	
SHUT_DOWN	05/01/2020 06:43 ~ 05/01/2020 06:55	13	0.0	0.2	
START_UP	05/01/2020 11:17 ~ 05/01/2020 11:41	25	2.6	4.1	
SHUT_DOWN	05/01/2020 13:57 ~ 05/01/2020 14:09	13	0.0	0.3	
START_UP	05/02/2020 16:52 ~ 05/02/2020 17:16	25	1.7	3.8	
SHUT_DOWN	05/02/2020 20:42 ~ 05/02/2020 20:54	13	0.0	0.2	
START_UP	05/03/2020 17:37 ~ 05/03/2020 18:01	25	2.1	4.6	
SHUT_DOWN	05/03/2020 20:42 ~ 05/03/2020 20:54	13	0.0	0.2	
START_UP	05/04/2020 04:52 ~ 05/04/2020 05:16	25	1.9	3.5	

SHUT_DOWN	05/04/2020	05:57	~	05/04/2020	06:09	13	0.0	0.2
START_UP	05/04/2020	17:47	~	05/04/2020	18:11	25	2.6	4.5
SHUT_DOWN	05/04/2020	20:28	~	05/04/2020	20:40	13	0.0	0.2
START_UP	05/05/2020	04:52	~	05/05/2020	05:16	25	2.5	3.5
SHUT_DOWN	05/05/2020	05:57	~	05/05/2020	06:09	13	0.0	0.3
START_UP	05/05/2020	12:23	~	05/05/2020	12:47	25	2.4	3.4
SHUT_DOWN	05/05/2020	13:58	~	05/05/2020	14:10	13	0.0	0.2
START_UP	05/06/2020	04:52	~	05/06/2020	05:16	25	1.9	3.7
SHUT_DOWN	05/06/2020	05:56	~	05/06/2020	06:08	13	0.0	0.3
START_UP	05/06/2020	13:53	~	05/06/2020	14:17	25	2.2	3.6
SHUT_DOWN	05/06/2020	15:57	~	05/06/2020	16:09	13	0.0	0.2
START_UP	05/06/2020	17:34	~	05/06/2020	17:58	25	2.9	2.2
SHUT_DOWN	05/06/2020	19:00	~	05/06/2020	19:12	13	0.0	0.1
START_UP	05/07/2020	14:53	~	05/07/2020	15:17	25	1.3	3.7
SHUT_DOWN	05/07/2020	16:07	~	05/07/2020	16:19	13	0.0	0.2
START_UP	05/09/2020	17:17	~	05/09/2020	17:41	25	3.0	6.7
SHUT_DOWN	05/09/2020	22:12	~	05/09/2020	22:24	13	0.0	0.2
START_UP	05/10/2020	04:52	~	05/10/2020	05:16	25	1.7	3.1
SHUT_DOWN	05/10/2020	05:57	~	05/10/2020	06:09	13	0.0	0.2
START_UP	05/10/2020	17:52	~	05/10/2020	18:16	25	1.8	3.5
SHUT_DOWN	05/10/2020	20:56	~	05/10/2020	21:08	13	0.0	0.2
START_UP	05/11/2020	16:38	~	05/11/2020	17:02	25	1.9	3.9
SHUT_DOWN	05/11/2020	19:58	~	05/11/2020	20:10	13	0.0	0.2
START_UP	05/12/2020	05:53	~	05/12/2020	06:17	25	1.0	3.7
SHUT_DOWN	05/12/2020	12:57	~	05/12/2020	13:09	13	0.0	0.3
START_UP	05/13/2020	18:22	~	05/13/2020	18:46	25	1.8	4.4
SHUT_DOWN	05/13/2020	20:26	~	05/13/2020	20:38	13	0.0	0.2
START_UP	05/14/2020	17:22	~	05/14/2020	17:46	25	2.5	4.3
SHUT_DOWN	05/14/2020	21:12	~	05/14/2020	21:24	13	0.0	0.2
START_UP	05/15/2020	18:18	~	05/15/2020	18:42	25	2.4	4.3
SHUT_DOWN	05/15/2020	21:57	~	05/15/2020	22:09	13	0.0	0.2
START_UP	05/16/2020	17:48	~	05/16/2020	18:12	25	2.9	4.5
SHUT_DOWN	05/16/2020	21:12	~	05/16/2020	21:24	13	0.0	0.2
START_UP	05/17/2020	18:22	~	05/17/2020	18:46	25	2.2	3.6
SHUT_DOWN	05/17/2020	19:42	~	05/17/2020	19:54	13	0.0	0.2
START_UP	05/21/2020	18:02	~	05/21/2020	18:26	25	2.6	5.3
SHUT_DOWN	05/21/2020	20:27	~	05/21/2020	20:39	13	0.0	0.2
START_UP	05/22/2020	19:48	~	05/22/2020	20:12	25	3.0	5.3
SHUT_DOWN	05/22/2020	21:42	~	05/22/2020	21:54	13	0.0	0.2
START_UP	05/24/2020	16:53	~	05/24/2020	17:17	25	2.2	3.9
SHUT_DOWN	05/24/2020	20:57	~	05/24/2020	21:09	13	0.0	0.2
START_UP	05/25/2020	16:52	~	05/25/2020	17:16	25	2.8	4.2
SHUT_DOWN	05/25/2020	20:57	~	05/25/2020	21:09	13	0.0	0.2
START_UP	05/26/2020	16:53	~	05/26/2020	17:17	25	1.5	3.7
SHUT_DOWN	05/26/2020	19:55	~	05/26/2020	20:07	13	0.0	0.2

START_UP	05/27/2020	15:07	~	05/27/2020	15:31	25	2.7	3.7
SHUT_DOWN	05/27/2020	19:56	~	05/27/2020	20:08	13	0.0	0.2
START_UP	05/28/2020	05:52	~	05/28/2020	06:16	25	2.7	4.5
SHUT_DOWN	05/28/2020	11:58	~	05/28/2020	12:10	13	0.0	0.2
START_UP	05/28/2020	14:52	~	05/28/2020	15:16	25	2.4	2.6
SHUT_DOWN	05/28/2020	20:57	~	05/28/2020	21:09	13	0.0	0.3
START_UP	05/29/2020	16:48	~	05/29/2020	17:12	25	1.4	3.8
SHUT_DOWN	05/29/2020	19:57	~	05/29/2020	20:09	13	0.0	0.3
START_UP	06/01/2020	15:52	~	06/01/2020	16:16	25	1.7	4.0
SHUT_DOWN	06/01/2020	17:09	~	06/01/2020	17:21	13	0.0	0.2
START_UP	06/01/2020	18:21	~	06/01/2020	18:45	25	1.3	3.2
SHUT_DOWN	06/01/2020	20:11	~	06/01/2020	20:23	13	0.0	0.2
START_UP	06/02/2020	15:52	~	06/02/2020	16:16	25	2.0	4.7
SHUT_DOWN	06/02/2020	20:26	~	06/02/2020	20:38	13	0.0	0.2
START_UP	06/03/2020	15:52	~	06/03/2020	16:16	25	1.8	3.8
SHUT_DOWN	06/03/2020	20:56	~	06/03/2020	21:08	13	0.0	0.2
START_UP	06/04/2020	17:37	~	06/04/2020	18:01	25	2.0	3.8
SHUT_DOWN	06/04/2020	18:58	~	06/04/2020	19:10	13	0.1	0.2
START_UP	06/10/2020	14:52	~	06/10/2020	15:16	25	1.5	4.2
SHUT_DOWN	06/10/2020	18:56	~	06/10/2020	19:08	13	0.0	0.2
START_UP	06/11/2020	15:52	~	06/11/2020	16:16	25	2.4	4.5
SHUT_DOWN	06/11/2020	18:56	~	06/11/2020	19:08	13	0.0	0.2
START_UP	06/14/2020	18:07	~	06/14/2020	18:31	25	4.7	4.9
SHUT_DOWN	06/14/2020	20:26	~	06/14/2020	20:38	13	0.0	0.2
START_UP	06/15/2020	17:22	~	06/15/2020	17:46	25	1.4	4.1
SHUT_DOWN	06/15/2020	18:56	~	06/15/2020	19:08	13	0.0	0.2
START_UP	06/17/2020	18:22	~	06/17/2020	18:46	25	2.9	4.0
SHUT_DOWN	06/17/2020	19:26	~	06/17/2020	19:38	13	0.0	0.3
START_UP	06/20/2020	18:02	~	06/20/2020	18:26	25	3.0	5.3
SHUT_DOWN	06/20/2020	19:41	~	06/20/2020	19:53	13	0.0	0.2
START_UP	06/22/2020	15:52	~	06/22/2020	16:16	25	3.2	4.3
SHUT_DOWN	06/22/2020	20:26	~	06/22/2020	20:38	13	0.0	0.2
START_UP	06/23/2020	15:52	~	06/23/2020	16:16	25	4.1	4.0
SHUT_DOWN	06/23/2020	20:11	~	06/23/2020	20:23	13	0.0	0.2
START_UP	06/24/2020	15:52	~	06/24/2020	16:16	25	3.1	4.1
SHUT_DOWN	06/24/2020	19:41	~	06/24/2020	19:53	13	0.0	0.2
START_UP	06/26/2020	15:07	~	06/26/2020	15:31	25	3.2	4.1
SHUT_DOWN	06/26/2020	21:11	~	06/26/2020	21:23	13	0.0	0.2
START_UP	06/27/2020	13:07	~	06/27/2020	13:31	25	3.7	3.9
SHUT_DOWN	06/27/2020	14:10	~	06/27/2020	14:22	13	0.0	0.2
START_UP	06/27/2020	15:21	~	06/27/2020	15:45	25	1.4	1.6
SHUT_DOWN	06/27/2020	20:26	~	06/27/2020	20:38	13	0.0	0.2
START_UP	06/28/2020	19:17	~	06/28/2020	19:41	25	3.8	4.9
SHUT_DOWN	06/28/2020	20:36	~	06/28/2020	20:48	13	0.0	0.2
START_UP	06/30/2020	18:46	~	06/30/2020	19:10	25	3.1	5.0

SHUT_DOWN 06/30/2020 20:26 ~ 06/30/2020 20:38 13 0.0 0.2

Startup / ShutDown Report
 Generated: 7/20/2020 12:11
 StartUp/ShutDown Event Report NRG Carlsbad Unit 7
 Carlsbad Unit 7

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

Events	Time	Duration (min)	CO Lbs	Nox Lbs	Notes
START_UP	04/06/2020 14:52 ~ 04/06/2020 15:16	25	3.5	4.4	
SHUT_DOWN	04/06/2020 16:12 ~ 04/06/2020 16:24	13	0.0	0.1	
START_UP	04/06/2020 17:34 ~ 04/06/2020 17:58	25	1.4	1.8	
SHUT_DOWN	04/06/2020 20:57 ~ 04/06/2020 21:09	13	0.0	0.2	
START_UP	04/13/2020 17:43 ~ 04/13/2020 18:07	25	3.3	4.8	
SHUT_DOWN	04/13/2020 19:57 ~ 04/13/2020 20:09	13	0.0	0.2	
START_UP	04/14/2020 18:22 ~ 04/14/2020 18:46	25	2.6	4.8	
SHUT_DOWN	04/14/2020 20:42 ~ 04/14/2020 20:54	13	0.1	0.1	
START_UP	04/16/2020 18:22 ~ 04/16/2020 18:46	25	3.1	4.5	
SHUT_DOWN	04/16/2020 20:12 ~ 04/16/2020 20:24	13	0.1	0.2	
START_UP	04/20/2020 14:22 ~ 04/20/2020 14:46	25	2.5	5.0	
SHUT_DOWN	04/20/2020 15:27 ~ 04/20/2020 15:39	13	0.1	0.2	
START_UP	04/21/2020 18:23 ~ 04/21/2020 18:47	25	4.4	5.9	
SHUT_DOWN	04/21/2020 20:57 ~ 04/21/2020 21:09	13	0.0	0.1	
START_UP	04/24/2020 13:47 ~ 04/24/2020 14:11	25	2.8	6.3	
SHUT_DOWN	04/24/2020 16:14 ~ 04/24/2020 16:26	13	0.0	0.1	
START_UP	04/24/2020 18:22 ~ 04/24/2020 18:46	25	0.8	2.4	
SHUT_DOWN	04/24/2020 20:27 ~ 04/24/2020 20:39	13	0.0	0.1	
START_UP	04/29/2020 05:53 ~ 04/29/2020 06:17	25	4.1	5.6	
SHUT_DOWN	04/29/2020 16:58 ~ 04/29/2020 17:10	13	0.0	0.3	
START_UP	05/01/2020 11:17 ~ 05/01/2020 11:41	25	3.0	5.5	
SHUT_DOWN	05/01/2020 13:57 ~ 05/01/2020 14:09	13	0.0	0.2	
START_UP	05/02/2020 18:17 ~ 05/02/2020 18:41	25	3.5	4.7	
SHUT_DOWN	05/02/2020 20:42 ~ 05/02/2020 20:54	13	0.0	0.1	
START_UP	05/03/2020 17:37 ~ 05/03/2020 18:01	25	1.6	5.1	
SHUT_DOWN	05/03/2020 20:42 ~ 05/03/2020 20:54	13	0.0	0.3	
START_UP	05/04/2020 16:38 ~ 05/04/2020 17:02	25	2.3	5.3	
SHUT_DOWN	05/04/2020 20:27 ~ 05/04/2020 20:39	13	0.1	0.2	
START_UP	05/05/2020 04:52 ~ 05/05/2020 05:16	25	2.3	4.2	
SHUT_DOWN	05/05/2020 05:57 ~ 05/05/2020 06:09	13	0.0	0.2	
START_UP	05/05/2020 12:23 ~ 05/05/2020 12:47	25	2.3	4.1	
SHUT_DOWN	05/05/2020 15:12 ~ 05/05/2020 15:24	13	0.0	0.1	
START_UP	05/06/2020 04:52 ~ 05/06/2020 05:16	25	1.5	4.7	

SHUT_DOWN	05/06/2020	05:56	~	05/06/2020	06:08	13	0.0	0.2
START_UP	05/06/2020	13:53	~	05/06/2020	14:17	25	3.4	4.6
SHUT_DOWN	05/06/2020	19:57	~	05/06/2020	20:09	13	0.0	0.2
START_UP	05/07/2020	08:37	~	05/07/2020	09:01	25	3.1	4.7
SHUT_DOWN	05/07/2020	09:57	~	05/07/2020	10:09	13	0.0	0.2
START_UP	05/07/2020	14:52	~	05/07/2020	15:16	25	1.1	3.7
SHUT_DOWN	05/07/2020	18:57	~	05/07/2020	19:09	13	0.0	0.1
START_UP	05/08/2020	09:18	~	05/08/2020	09:42	25	1.5	5.9
SHUT_DOWN	05/08/2020	11:57	~	05/08/2020	12:09	13	0.0	0.1
START_UP	05/08/2020	14:46	~	05/08/2020	15:10	25	2.2	2.8
SHUT_DOWN	05/08/2020	20:27	~	05/08/2020	20:39	13	0.0	0.1
START_UP	05/09/2020	17:17	~	05/09/2020	17:41	25	2.8	6.2
SHUT_DOWN	05/09/2020	17:42	~	05/09/2020	17:49	8	0.0	0.1
START_UP	05/09/2020	19:15	~	05/09/2020	19:39	25	0.6	1.7
SHUT_DOWN	05/09/2020	19:40	~	05/09/2020	19:52	13	0.0	0.1
START_UP	05/09/2020	20:32	~	05/09/2020	20:56	25	0.2	2.1
SHUT_DOWN	05/09/2020	22:12	~	05/09/2020	22:24	13	0.0	0.1
START_UP	05/10/2020	11:38	~	05/10/2020	12:02	25	3.5	2.8
SHUT_DOWN	05/10/2020	12:03	~	05/10/2020	12:05	3	0.0	0.0
START_UP	05/16/2020	17:48	~	05/16/2020	18:12	25	1.3	4.1
SHUT_DOWN	05/16/2020	21:12	~	05/16/2020	21:24	13	0.0	0.1
START_UP	05/17/2020	18:22	~	05/17/2020	18:46	25	2.0	4.5
SHUT_DOWN	05/17/2020	19:42	~	05/17/2020	19:54	13	0.0	0.2
START_UP	05/21/2020	07:52	~	05/21/2020	08:16	25	1.5	4.8
SHUT_DOWN	05/21/2020	13:57	~	05/21/2020	14:09	13	0.0	0.1
START_UP	05/21/2020	18:02	~	05/21/2020	18:26	25	3.7	4.7
SHUT_DOWN	05/21/2020	20:27	~	05/21/2020	20:39	13	0.0	0.2
START_UP	05/22/2020	18:37	~	05/22/2020	19:01	25	2.4	5.2
SHUT_DOWN	05/22/2020	21:42	~	05/22/2020	21:54	13	0.0	0.1
START_UP	05/23/2020	18:37	~	05/23/2020	19:01	25	2.0	5.2
SHUT_DOWN	05/23/2020	19:42	~	05/23/2020	19:54	13	0.0	0.2
START_UP	05/24/2020	16:53	~	05/24/2020	17:17	25	3.7	4.6
SHUT_DOWN	05/24/2020	20:57	~	05/24/2020	21:09	13	0.0	0.2
START_UP	05/25/2020	16:52	~	05/25/2020	17:16	25	2.9	4.8
SHUT_DOWN	05/25/2020	20:57	~	05/25/2020	21:09	13	0.0	0.1
START_UP	05/26/2020	16:53	~	05/26/2020	17:17	25	1.5	4.4
SHUT_DOWN	05/26/2020	20:57	~	05/26/2020	21:09	13	0.0	0.2
START_UP	05/27/2020	15:07	~	05/27/2020	15:31	25	3.5	4.4
SHUT_DOWN	05/27/2020	19:56	~	05/27/2020	20:08	13	0.0	0.2
START_UP	05/28/2020	05:52	~	05/28/2020	06:16	25	2.7	5.1
SHUT_DOWN	05/28/2020	11:58	~	05/28/2020	12:10	13	0.0	0.2
START_UP	05/28/2020	14:52	~	05/28/2020	15:16	25	2.6	2.7
SHUT_DOWN	05/28/2020	20:57	~	05/28/2020	21:09	13	0.0	0.2
START_UP	05/29/2020	16:48	~	05/29/2020	17:12	25	1.1	4.6
SHUT_DOWN	05/29/2020	19:57	~	05/29/2020	20:09	13	0.0	0.2

START_UP	05/30/2020	14:52	~	05/30/2020	15:16	25	2.5	4.7
SHUT_DOWN	05/30/2020	16:56	~	05/30/2020	17:08	13	0.0	0.2
START_UP	06/01/2020	15:52	~	06/01/2020	16:16	25	1.7	4.8
SHUT_DOWN	06/01/2020	20:11	~	06/01/2020	20:23	13	0.0	0.1
START_UP	06/02/2020	15:52	~	06/02/2020	16:16	25	1.5	5.4
SHUT_DOWN	06/02/2020	20:26	~	06/02/2020	20:38	13	0.0	0.2
START_UP	06/03/2020	15:52	~	06/03/2020	16:16	25	1.8	5.0
SHUT_DOWN	06/03/2020	20:56	~	06/03/2020	21:08	13	0.0	0.2
START_UP	06/04/2020	17:37	~	06/04/2020	18:01	25	1.7	4.5
SHUT_DOWN	06/04/2020	18:58	~	06/04/2020	19:10	13	0.1	0.2
START_UP	06/10/2020	11:07	~	06/10/2020	11:31	25	1.5	4.7
SHUT_DOWN	06/10/2020	12:11	~	06/10/2020	12:23	13	0.0	0.2
START_UP	06/10/2020	14:51	~	06/10/2020	15:15	25	2.1	2.7
SHUT_DOWN	06/10/2020	18:56	~	06/10/2020	19:08	13	0.0	0.2
START_UP	06/11/2020	15:52	~	06/11/2020	16:16	25	2.3	5.5
SHUT_DOWN	06/11/2020	18:56	~	06/11/2020	19:08	13	0.0	0.1
START_UP	06/14/2020	18:07	~	06/14/2020	18:31	25	5.2	5.2
SHUT_DOWN	06/14/2020	20:26	~	06/14/2020	20:38	13	0.1	0.1
START_UP	06/15/2020	17:22	~	06/15/2020	17:46	25	1.6	4.8
SHUT_DOWN	06/15/2020	18:56	~	06/15/2020	19:08	13	0.1	0.2
START_UP	06/17/2020	15:52	~	06/17/2020	16:16	25	3.4	5.0
SHUT_DOWN	06/17/2020	16:56	~	06/17/2020	17:08	13	0.1	0.2
START_UP	06/17/2020	18:21	~	06/17/2020	18:45	25	1.0	1.4
SHUT_DOWN	06/17/2020	19:26	~	06/17/2020	19:38	13	0.1	0.2
START_UP	06/20/2020	04:52	~	06/20/2020	05:16	25	4.4	5.1
SHUT_DOWN	06/20/2020	06:26	~	06/20/2020	06:38	13	0.0	0.1
START_UP	06/20/2020	18:02	~	06/20/2020	18:26	25	3.3	5.1
SHUT_DOWN	06/20/2020	19:41	~	06/20/2020	19:53	13	0.0	0.2
START_UP	06/22/2020	15:52	~	06/22/2020	16:16	25	3.7	4.9
SHUT_DOWN	06/22/2020	20:26	~	06/22/2020	20:38	13	0.0	0.1
START_UP	06/23/2020	15:52	~	06/23/2020	16:16	25	4.8	4.8
SHUT_DOWN	06/23/2020	20:11	~	06/23/2020	20:23	13	0.0	0.1
START_UP	06/24/2020	15:51	~	06/24/2020	16:15	25	3.7	4.9
SHUT_DOWN	06/24/2020	19:41	~	06/24/2020	19:53	13	0.1	0.1
START_UP	06/26/2020	15:07	~	06/26/2020	15:31	25	1.3	4.6
SHUT_DOWN	06/26/2020	21:11	~	06/26/2020	21:23	13	0.1	0.1
START_UP	06/27/2020	13:07	~	06/27/2020	13:31	25	4.6	4.4
SHUT_DOWN	06/27/2020	14:10	~	06/27/2020	14:22	13	0.1	0.2
START_UP	06/27/2020	15:21	~	06/27/2020	15:45	25	1.5	1.5
SHUT_DOWN	06/27/2020	20:26	~	06/27/2020	20:38	13	0.1	0.1
START_UP	06/28/2020	19:17	~	06/28/2020	19:41	25	4.8	5.3
SHUT_DOWN	06/28/2020	20:36	~	06/28/2020	20:48	13	0.1	0.2
START_UP	06/29/2020	04:51	~	06/29/2020	05:15	25	2.8	4.4
SHUT_DOWN	06/29/2020	05:56	~	06/29/2020	06:08	13	0.1	0.1
START_UP	06/29/2020	18:22	~	06/29/2020	18:46	25	1.2	4.6

SHUT_DOWN	06/29/2020	19:41	~	06/29/2020	19:53	13	0.0	0.1
START_UP	06/30/2020	18:46	~	06/30/2020	19:10	25	3.3	5.2
SHUT_DOWN	06/30/2020	20:26	~	06/30/2020	20:38	13	0.0	0.1

Startup / ShutDown Report
 Generated: 7/20/2020 12:11
 StartUp/ShutDown Event Report NRG Carlsbad Unit 8
 Carlsbad Unit 8

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

Events	Time	Duration (min)	CO Lbs	Nox Lbs	Notes
START_UP	04/05/2020 15:03 ~ 04/05/2020 15:27	25	2.3	5.7	
SHUT_DOWN	04/05/2020 22:57 ~ 04/05/2020 23:09	13	0.0	0.2	
START_UP	04/06/2020 14:52 ~ 04/06/2020 15:16	25	2.2	4.1	
SHUT_DOWN	04/06/2020 20:57 ~ 04/06/2020 21:09	13	0.0	0.2	
START_UP	04/11/2020 12:23 ~ 04/11/2020 12:47	25	3.3	4.6	
SHUT_DOWN	04/11/2020 16:58 ~ 04/11/2020 17:10	13	0.0	0.1	
START_UP	04/13/2020 17:42 ~ 04/13/2020 18:06	25	2.4	4.9	
SHUT_DOWN	04/13/2020 19:57 ~ 04/13/2020 20:09	13	0.0	0.2	
START_UP	04/14/2020 18:23 ~ 04/14/2020 18:47	25	3.0	5.0	
SHUT_DOWN	04/14/2020 20:42 ~ 04/14/2020 20:54	13	0.0	0.1	
START_UP	04/16/2020 18:22 ~ 04/16/2020 18:46	25	2.8	4.3	
SHUT_DOWN	04/16/2020 20:12 ~ 04/16/2020 20:24	13	0.0	0.2	
START_UP	04/19/2020 07:53 ~ 04/19/2020 08:17	25	2.5	4.5	
SHUT_DOWN	04/19/2020 08:57 ~ 04/19/2020 09:09	13	0.0	0.2	
START_UP	04/20/2020 07:22 ~ 04/20/2020 07:46	25	2.0	5.1	
SHUT_DOWN	04/20/2020 11:42 ~ 04/20/2020 11:54	13	0.0	0.2	
START_UP	04/21/2020 18:23 ~ 04/21/2020 18:47	25	2.8	5.7	
SHUT_DOWN	04/21/2020 20:57 ~ 04/21/2020 21:09	13	0.0	0.2	
START_UP	04/22/2020 05:07 ~ 04/22/2020 05:31	25	1.9	3.6	
SHUT_DOWN	04/22/2020 19:13 ~ 04/22/2020 19:25	13	0.0	0.1	
START_UP	04/24/2020 18:23 ~ 04/24/2020 18:47	25	3.1	4.0	
SHUT_DOWN	04/24/2020 20:27 ~ 04/24/2020 20:39	13	0.0	0.1	
START_UP	04/26/2020 08:57 ~ 04/26/2020 09:21	25	3.4	2.4	
SHUT_DOWN	04/26/2020 09:22 ~ 04/26/2020 09:25	4	0.0	0.0	
START_UP	05/02/2020 18:18 ~ 05/02/2020 18:42	25	1.2	9.8	
SHUT_DOWN	05/02/2020 20:42 ~ 05/02/2020 20:54	13	0.0	0.1	
START_UP	05/03/2020 17:37 ~ 05/03/2020 18:01	25	1.6	5.2	
SHUT_DOWN	05/03/2020 20:42 ~ 05/03/2020 20:54	13	0.0	0.1	
START_UP	05/04/2020 17:48 ~ 05/04/2020 18:12	25	3.8	5.3	
SHUT_DOWN	05/04/2020 20:28 ~ 05/04/2020 20:40	13	0.0	0.1	
START_UP	05/05/2020 04:53 ~ 05/05/2020 05:17	25	3.0	4.4	
SHUT_DOWN	05/05/2020 05:57 ~ 05/05/2020 06:09	13	0.0	0.2	
START_UP	05/05/2020 12:23 ~ 05/05/2020 12:47	25	3.2	3.9	

SHUT_DOWN	05/05/2020	13:58	~	05/05/2020	14:10	13	0.0	0.1
START_UP	05/06/2020	17:34	~	05/06/2020	17:58	25	3.2	6.6
SHUT_DOWN	05/06/2020	18:57	~	05/06/2020	19:09	13	0.0	0.1
START_UP	05/07/2020	14:53	~	05/07/2020	15:17	25	3.8	4.1
SHUT_DOWN	05/07/2020	16:07	~	05/07/2020	16:19	13	0.0	0.1
START_UP	05/07/2020	17:32	~	05/07/2020	17:56	25	4.1	2.1
SHUT_DOWN	05/07/2020	18:57	~	05/07/2020	19:09	13	0.0	0.1
START_UP	05/08/2020	07:37	~	05/08/2020	08:01	25	0.0	0.0
SHUT_DOWN	05/08/2020	11:56	~	05/08/2020	12:08	13	0.0	0.2
START_UP	05/08/2020	12:51	~	05/08/2020	13:15	25	0.6	2.1
SHUT_DOWN	05/08/2020	20:27	~	05/08/2020	20:39	13	0.0	0.1
START_UP	05/09/2020	15:22	~	05/09/2020	15:46	25	2.2	4.2
SHUT_DOWN	05/09/2020	22:12	~	05/09/2020	22:24	13	0.0	0.1
START_UP	05/10/2020	04:52	~	05/10/2020	05:16	25	1.7	3.7
SHUT_DOWN	05/10/2020	05:57	~	05/10/2020	06:09	13	0.0	0.1
START_UP	05/10/2020	17:52	~	05/10/2020	18:16	25	1.3	4.2
SHUT_DOWN	05/10/2020	20:56	~	05/10/2020	21:08	13	0.0	0.1
START_UP	05/12/2020	18:07	~	05/12/2020	18:31	25	2.2	4.5
SHUT_DOWN	05/12/2020	19:43	~	05/12/2020	19:55	13	0.0	0.2
START_UP	05/13/2020	08:52	~	05/13/2020	09:16	25	2.4	4.4
SHUT_DOWN	05/13/2020	15:57	~	05/13/2020	16:09	13	0.0	0.2
START_UP	05/13/2020	18:21	~	05/13/2020	18:45	25	1.6	1.9
SHUT_DOWN	05/13/2020	20:26	~	05/13/2020	20:38	13	0.1	0.1
START_UP	05/14/2020	17:22	~	05/14/2020	17:46	25	2.3	4.9
SHUT_DOWN	05/14/2020	21:12	~	05/14/2020	21:24	13	0.0	0.1
START_UP	05/15/2020	17:07	~	05/15/2020	17:31	25	1.5	5.0
SHUT_DOWN	05/15/2020	21:57	~	05/15/2020	22:09	13	0.0	0.1
START_UP	05/16/2020	16:38	~	05/16/2020	17:02	25	4.2	4.8
SHUT_DOWN	05/16/2020	21:12	~	05/16/2020	21:24	13	0.0	0.1
START_UP	05/17/2020	18:22	~	05/17/2020	18:46	25	2.1	3.9
SHUT_DOWN	05/17/2020	19:42	~	05/17/2020	19:54	13	0.0	0.2
START_UP	05/18/2020	17:38	~	05/18/2020	18:02	25	1.5	4.8
SHUT_DOWN	05/18/2020	19:43	~	05/18/2020	19:55	13	0.0	0.1
START_UP	05/21/2020	16:37	~	05/21/2020	17:01	25	2.5	4.2
SHUT_DOWN	05/21/2020	20:27	~	05/21/2020	20:39	13	0.1	0.2
START_UP	05/22/2020	19:47	~	05/22/2020	20:11	25	2.6	5.6
SHUT_DOWN	05/22/2020	21:42	~	05/22/2020	21:54	13	0.0	0.1
START_UP	05/24/2020	16:53	~	05/24/2020	17:17	25	2.7	4.2
SHUT_DOWN	05/24/2020	20:57	~	05/24/2020	21:09	13	0.0	0.2
START_UP	05/25/2020	16:52	~	05/25/2020	17:16	25	2.7	4.5
SHUT_DOWN	05/25/2020	20:57	~	05/25/2020	21:09	13	0.0	0.1
START_UP	05/26/2020	16:53	~	05/26/2020	17:17	25	1.5	4.1
SHUT_DOWN	05/26/2020	19:55	~	05/26/2020	20:07	13	0.0	0.2
START_UP	05/27/2020	16:47	~	05/27/2020	17:11	25	1.9	6.4
SHUT_DOWN	05/27/2020	19:56	~	05/27/2020	20:08	13	0.0	0.1

START_UP	05/28/2020	05:52	~	05/28/2020	06:16	25	2.4	4.8
SHUT_DOWN	05/28/2020	11:58	~	05/28/2020	12:10	13	0.0	0.2
START_UP	05/28/2020	14:52	~	05/28/2020	15:16	25	2.7	2.4
SHUT_DOWN	05/28/2020	20:57	~	05/28/2020	21:09	13	0.0	0.2
START_UP	05/29/2020	16:48	~	05/29/2020	17:12	25	1.3	4.3
SHUT_DOWN	05/29/2020	19:57	~	05/29/2020	20:09	13	0.0	0.2
START_UP	06/01/2020	15:52	~	06/01/2020	16:16	25	1.4	9.7
SHUT_DOWN	06/01/2020	16:13	~	06/01/2020	16:25	13	0.0	1.2
START_UP	06/02/2020	15:52	~	06/02/2020	16:16	25	1.5	5.2
SHUT_DOWN	06/02/2020	20:26	~	06/02/2020	20:38	13	0.0	0.2
START_UP	06/03/2020	15:52	~	06/03/2020	16:16	25	1.7	4.6
SHUT_DOWN	06/03/2020	20:56	~	06/03/2020	21:08	13	0.0	0.2
START_UP	06/10/2020	14:52	~	06/10/2020	15:16	25	1.4	4.4
SHUT_DOWN	06/10/2020	18:56	~	06/10/2020	19:08	13	0.0	0.2
START_UP	06/14/2020	18:07	~	06/14/2020	18:31	25	4.3	5.1
SHUT_DOWN	06/14/2020	20:26	~	06/14/2020	20:38	13	0.0	0.1
START_UP	06/15/2020	17:22	~	06/15/2020	17:46	25	3.1	4.5
SHUT_DOWN	06/15/2020	18:56	~	06/15/2020	19:08	13	0.0	0.2
START_UP	06/17/2020	18:21	~	06/17/2020	18:45	25	2.5	4.2
SHUT_DOWN	06/17/2020	19:26	~	06/17/2020	19:38	13	0.0	0.2
START_UP	06/20/2020	18:02	~	06/20/2020	18:26	25	2.7	5.2
SHUT_DOWN	06/20/2020	19:41	~	06/20/2020	19:53	13	0.0	0.2
START_UP	06/22/2020	15:52	~	06/22/2020	16:16	25	3.4	4.4
SHUT_DOWN	06/22/2020	20:26	~	06/22/2020	20:38	13	0.0	0.1
START_UP	06/23/2020	15:52	~	06/23/2020	16:16	25	3.7	4.3
SHUT_DOWN	06/23/2020	20:11	~	06/23/2020	20:23	13	0.0	0.1
START_UP	06/24/2020	15:52	~	06/24/2020	16:16	25	3.5	4.3
SHUT_DOWN	06/24/2020	19:41	~	06/24/2020	19:53	13	0.0	0.1
START_UP	06/26/2020	16:16	~	06/26/2020	16:40	25	3.9	7.4
SHUT_DOWN	06/26/2020	21:11	~	06/26/2020	21:23	13	0.0	0.1
START_UP	06/27/2020	15:22	~	06/27/2020	15:46	25	3.3	4.2
SHUT_DOWN	06/27/2020	20:26	~	06/27/2020	20:38	13	0.0	0.1
START_UP	06/28/2020	19:16	~	06/28/2020	19:40	25	2.9	4.9
SHUT_DOWN	06/28/2020	20:36	~	06/28/2020	20:48	13	0.0	0.2
START_UP	06/29/2020	18:22	~	06/29/2020	18:46	25	1.5	4.3
SHUT_DOWN	06/29/2020	19:41	~	06/29/2020	19:53	13	0.0	0.2
START_UP	06/30/2020	18:46	~	06/30/2020	19:10	25	3.1	5.3
SHUT_DOWN	06/30/2020	20:26	~	06/30/2020	20:38	13	0.0	0.1

BRK-0033

Startup / ShutDown Report
 Generated: 7/20/2020 12:11
 StartUp/ShutDown Event Report NRG Carlsbad Unit 9
 Carlsbad Unit 9

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

Events	Time	Duration (min)	CO Lbs	Nox Lbs	Notes
START_UP	04/06/2020 14:52 ~ 04/06/2020 15:16	25	3.2	4.2	
SHUT_DOWN	04/06/2020 16:12 ~ 04/06/2020 16:24	13	0.0	0.2	
START_UP	04/06/2020 17:34 ~ 04/06/2020 17:58	25	1.1	2.0	
SHUT_DOWN	04/06/2020 20:57 ~ 04/06/2020 21:09	13	0.0	0.2	
START_UP	04/13/2020 17:42 ~ 04/13/2020 18:06	25	3.0	4.6	
SHUT_DOWN	04/13/2020 19:57 ~ 04/13/2020 20:09	13	0.0	0.2	
START_UP	04/14/2020 18:22 ~ 04/14/2020 18:46	25	2.8	4.7	
SHUT_DOWN	04/14/2020 20:42 ~ 04/14/2020 20:54	13	0.0	0.1	
START_UP	04/16/2020 18:22 ~ 04/16/2020 18:46	25	2.9	4.0	
SHUT_DOWN	04/16/2020 20:12 ~ 04/16/2020 20:24	13	0.0	0.2	
START_UP	04/21/2020 05:52 ~ 04/21/2020 06:16	25	2.7	5.3	
SHUT_DOWN	04/21/2020 20:57 ~ 04/21/2020 21:09	13	0.0	0.2	
START_UP	04/24/2020 12:37 ~ 04/24/2020 13:01	25	2.4	3.9	
SHUT_DOWN	04/24/2020 15:06 ~ 04/24/2020 15:18	13	0.0	0.2	
START_UP	04/24/2020 18:22 ~ 04/24/2020 18:46	25	2.7	2.5	
SHUT_DOWN	04/24/2020 20:27 ~ 04/24/2020 20:39	13	0.0	0.2	
START_UP	04/25/2020 16:37 ~ 04/25/2020 17:01	25	3.3	4.2	
SHUT_DOWN	04/25/2020 19:42 ~ 04/25/2020 19:54	13	0.0	0.2	
START_UP	04/30/2020 09:22 ~ 04/30/2020 09:46	25	2.4	4.9	
SHUT_DOWN	04/30/2020 10:26 ~ 04/30/2020 10:38	13	0.0	0.2	
START_UP	05/01/2020 09:38 ~ 05/01/2020 10:02	25	3.6	5.1	
SHUT_DOWN	05/01/2020 11:55 ~ 05/01/2020 12:07	13	0.1	1.3	BRK-0028
START_UP	05/02/2020 18:17 ~ 05/02/2020 18:41	25	3.0	4.1	
SHUT_DOWN	05/02/2020 20:42 ~ 05/02/2020 20:54	13	0.0	0.2	
START_UP	05/03/2020 17:37 ~ 05/03/2020 18:01	25	2.5	4.7	
SHUT_DOWN	05/03/2020 20:42 ~ 05/03/2020 20:54	13	0.0	0.2	
START_UP	05/04/2020 17:47 ~ 05/04/2020 18:11	25	2.7	4.8	
SHUT_DOWN	05/04/2020 20:27 ~ 05/04/2020 20:39	13	0.0	0.2	
START_UP	05/05/2020 04:52 ~ 05/05/2020 05:16	25	2.8	3.8	
SHUT_DOWN	05/05/2020 05:57 ~ 05/05/2020 06:09	13	0.0	0.2	
START_UP	05/07/2020 14:53 ~ 05/07/2020 15:17	25	3.7	4.4	
SHUT_DOWN	05/07/2020 16:07 ~ 05/07/2020 16:19	13	0.0	0.2	
START_UP	05/07/2020 17:32 ~ 05/07/2020 17:56	25	3.9	2.0	

SHUT_DOWN	05/07/2020	18:57	~	05/07/2020	19:09	13	0.0	0.2
START_UP	05/08/2020	14:47	~	05/08/2020	15:11	25	2.1	4.7
SHUT_DOWN	05/08/2020	20:27	~	05/08/2020	20:39	13	0.0	0.2
START_UP	05/09/2020	15:22	~	05/09/2020	15:46	25	3.0	4.0
SHUT_DOWN	05/09/2020	22:12	~	05/09/2020	22:24	13	0.0	0.2
START_UP	05/10/2020	04:52	~	05/10/2020	05:16	25	2.1	3.5
SHUT_DOWN	05/10/2020	05:57	~	05/10/2020	06:09	13	0.0	0.2
START_UP	05/10/2020	17:52	~	05/10/2020	18:16	25	1.7	3.8
SHUT_DOWN	05/10/2020	20:56	~	05/10/2020	21:08	13	0.0	0.2
START_UP	05/13/2020	18:22	~	05/13/2020	18:46	25	2.0	4.8
SHUT_DOWN	05/13/2020	20:26	~	05/13/2020	20:38	13	0.0	0.2
START_UP	05/14/2020	17:22	~	05/14/2020	17:46	25	2.6	4.5
SHUT_DOWN	05/14/2020	21:12	~	05/14/2020	21:24	13	0.0	0.2
START_UP	05/15/2020	18:18	~	05/15/2020	18:42	25	3.0	4.5
SHUT_DOWN	05/15/2020	21:57	~	05/15/2020	22:09	13	0.0	0.2
START_UP	05/16/2020	17:48	~	05/16/2020	18:12	25	3.2	4.7
SHUT_DOWN	05/16/2020	21:12	~	05/16/2020	21:24	13	0.0	0.2
START_UP	05/17/2020	10:11	~	05/17/2020	10:35	25	3.8	2.3
SHUT_DOWN	05/17/2020	10:36	~	05/17/2020	10:38	3	0.0	0.0
START_UP	05/17/2020	18:22	~	05/17/2020	18:46	25	1.7	3.7
SHUT_DOWN	05/17/2020	19:42	~	05/17/2020	19:54	13	0.0	0.2
START_UP	05/24/2020	19:17	~	05/24/2020	19:41	25	3.3	5.2
SHUT_DOWN	05/24/2020	20:57	~	05/24/2020	21:09	13	0.0	0.2
START_UP	05/25/2020	16:52	~	05/25/2020	17:16	25	2.9	4.1
SHUT_DOWN	05/25/2020	20:57	~	05/25/2020	21:09	13	0.0	0.1
START_UP	05/26/2020	16:53	~	05/26/2020	17:17	25	2.0	3.7
SHUT_DOWN	05/26/2020	17:30	~	05/26/2020	17:42	13	0.0	0.3
START_UP	05/27/2020	15:07	~	05/27/2020	15:31	25	2.9	4.1
SHUT_DOWN	05/27/2020	19:56	~	05/27/2020	20:08	13	0.0	0.2
START_UP	05/28/2020	05:52	~	05/28/2020	06:16	25	2.3	4.6
SHUT_DOWN	05/28/2020	11:58	~	05/28/2020	12:10	13	0.0	0.2
START_UP	05/28/2020	14:52	~	05/28/2020	15:16	25	2.3	1.2
SHUT_DOWN	05/28/2020	20:57	~	05/28/2020	21:09	13	0.0	0.2
START_UP	05/29/2020	14:37	~	05/29/2020	15:01	25	2.5	4.3
SHUT_DOWN	05/29/2020	19:57	~	05/29/2020	20:09	13	0.0	0.2
START_UP	05/30/2020	14:52	~	05/30/2020	15:16	25	2.2	3.7
SHUT_DOWN	05/30/2020	16:56	~	05/30/2020	17:08	13	0.0	0.2
START_UP	05/31/2020	15:22	~	05/31/2020	15:46	25	2.2	4.4
SHUT_DOWN	05/31/2020	21:56	~	05/31/2020	22:08	13	0.0	0.2
START_UP	06/01/2020	15:52	~	06/01/2020	16:16	25	1.6	3.6
SHUT_DOWN	06/01/2020	20:11	~	06/01/2020	20:23	13	0.0	0.2
START_UP	06/02/2020	15:52	~	06/02/2020	16:16	25	1.8	4.4
SHUT_DOWN	06/02/2020	20:26	~	06/02/2020	20:38	13	0.0	0.2
START_UP	06/03/2020	15:52	~	06/03/2020	16:16	25	1.8	4.0
SHUT_DOWN	06/03/2020	20:56	~	06/03/2020	21:08	13	0.0	0.2

START_UP	06/04/2020	17:37	~	06/04/2020	18:01	25	2.1	3.9
SHUT_DOWN	06/04/2020	18:58	~	06/04/2020	19:10	13	0.1	0.2
START_UP	06/08/2020	17:37	~	06/08/2020	18:01	25	2.3	4.7
SHUT_DOWN	06/08/2020	20:42	~	06/08/2020	20:54	13	0.0	0.2
START_UP	06/09/2020	21:37	~	06/09/2020	22:01	25	1.4	4.4
SHUT_DOWN	06/09/2020	22:41	~	06/09/2020	22:53	13	0.0	0.2
START_UP	06/10/2020	11:07	~	06/10/2020	11:31	25	1.5	3.6
SHUT_DOWN	06/10/2020	12:11	~	06/10/2020	12:23	13	0.0	0.2
START_UP	06/10/2020	14:51	~	06/10/2020	15:15	25	2.2	1.9
SHUT_DOWN	06/10/2020	18:56	~	06/10/2020	19:08	13	0.0	0.2
START_UP	06/11/2020	15:52	~	06/11/2020	16:16	25	2.3	4.1
SHUT_DOWN	06/11/2020	18:56	~	06/11/2020	19:08	13	0.0	0.2
START_UP	06/13/2020	16:37	~	06/13/2020	17:01	25	1.9	3.9
SHUT_DOWN	06/13/2020	17:57	~	06/13/2020	18:09	13	0.0	0.1
START_UP	06/14/2020	18:07	~	06/14/2020	18:31	25	3.7	4.5
SHUT_DOWN	06/14/2020	20:26	~	06/14/2020	20:38	13	0.0	0.2
START_UP	06/14/2020	21:51	~	06/14/2020	22:15	25	1.7	0.9
SHUT_DOWN	06/14/2020	22:56	~	06/14/2020	23:08	13	0.0	0.2
START_UP	06/15/2020	17:22	~	06/15/2020	17:46	25	2.8	3.9
SHUT_DOWN	06/15/2020	18:56	~	06/15/2020	19:08	13	0.0	0.2
START_UP	06/16/2020	18:22	~	06/16/2020	18:46	25	2.7	4.4
SHUT_DOWN	06/16/2020	19:41	~	06/16/2020	19:53	13	0.0	0.2
START_UP	06/17/2020	15:52	~	06/17/2020	16:16	25	2.4	3.6
SHUT_DOWN	06/17/2020	16:56	~	06/17/2020	17:08	13	0.0	0.2
START_UP	06/17/2020	18:21	~	06/17/2020	18:45	25	1.3	1.2
SHUT_DOWN	06/17/2020	19:26	~	06/17/2020	19:38	13	0.0	0.2
START_UP	06/19/2020	18:37	~	06/19/2020	19:01	25	2.8	3.8
SHUT_DOWN	06/19/2020	20:11	~	06/19/2020	20:23	13	0.0	0.2
START_UP	06/20/2020	04:52	~	06/20/2020	05:16	25	2.4	3.8
SHUT_DOWN	06/20/2020	06:26	~	06/20/2020	06:38	13	0.0	0.2
START_UP	06/20/2020	16:37	~	06/20/2020	17:01	25	1.6	3.6
SHUT_DOWN	06/20/2020	19:41	~	06/20/2020	19:53	13	0.0	0.2
START_UP	06/22/2020	15:52	~	06/22/2020	16:16	25	2.5	3.7
SHUT_DOWN	06/22/2020	20:25	~	06/22/2020	20:37	13	0.0	0.2
START_UP	06/23/2020	15:52	~	06/23/2020	16:16	25	2.7	3.6
SHUT_DOWN	06/23/2020	20:11	~	06/23/2020	20:23	13	0.0	0.2
START_UP	06/24/2020	15:52	~	06/24/2020	16:16	25	2.6	3.6
SHUT_DOWN	06/24/2020	19:41	~	06/24/2020	19:53	13	0.0	0.2
START_UP	06/26/2020	15:07	~	06/26/2020	15:31	25	2.8	3.7
SHUT_DOWN	06/26/2020	21:11	~	06/26/2020	21:23	13	0.0	0.2
START_UP	06/27/2020	13:06	~	06/27/2020	13:30	25	2.6	3.3
SHUT_DOWN	06/27/2020	14:10	~	06/27/2020	14:22	13	0.0	0.2
START_UP	06/27/2020	15:21	~	06/27/2020	15:45	25	2.4	1.4
SHUT_DOWN	06/27/2020	20:26	~	06/27/2020	20:38	13	0.0	0.2
START_UP	06/28/2020	17:37	~	06/28/2020	18:01	25	3.1	4.3

SHUT_DOWN	06/28/2020	21:41	~	06/28/2020	21:53	13	0.0	0.2
START_UP	06/29/2020	04:51	~	06/29/2020	05:15	25	2.6	3.0
SHUT_DOWN	06/29/2020	05:56	~	06/29/2020	06:08	13	0.0	0.2
START_UP	06/29/2020	18:22	~	06/29/2020	18:46	25	1.5	3.4
SHUT_DOWN	06/29/2020	19:41	~	06/29/2020	19:53	13	0.0	0.1
START_UP	06/30/2020	17:36	~	06/30/2020	18:00	25	3.2	4.4
SHUT_DOWN	06/30/2020	20:26	~	06/30/2020	20:38	13	0.0	0.1

Startup / ShutDown Report
 Generated: 7/20/2020 12:10
 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: 4/1/2020 00:00
 Period End: 6/30/2020 23:59
 Unit Name: Unit10

Events	Time	Duration (min)	CO Lbs	Nox Lbs	Notes
START_UP	04/05/2020 17:37 ~ 04/05/2020 18:01	25	2.5	6.0	
SHUT_DOWN	04/05/2020 20:57 ~ 04/05/2020 21:09	13	0.0	0.2	
START_UP	04/06/2020 14:52 ~ 04/06/2020 15:16	25	1.8	4.4	
SHUT_DOWN	04/06/2020 16:12 ~ 04/06/2020 16:24	13	0.0	0.1	
START_UP	04/13/2020 17:42 ~ 04/13/2020 18:06	25	3.1	5.7	
SHUT_DOWN	04/13/2020 19:57 ~ 04/13/2020 20:09	13	0.0	0.2	
START_UP	04/22/2020 13:52 ~ 04/22/2020 14:16	25	3.1	10.3	
SHUT_DOWN	04/22/2020 14:17 ~ 04/22/2020 14:24	8	0.0	1.2	BRK-0019
START_UP	04/22/2020 21:02 ~ 04/22/2020 21:26	25	1.7	5.2	
SHUT_DOWN	04/22/2020 21:27 ~ 04/22/2020 21:34	8	0.0	1.9	BRK-0020
START_UP	04/23/2020 08:21 ~ 04/23/2020 08:45	25	1.4	3.2	
SHUT_DOWN	04/23/2020 08:46 ~ 04/23/2020 08:54	9	0.0	0.1	
START_UP	04/24/2020 05:52 ~ 04/24/2020 06:16	25	2.2	8.4	
SHUT_DOWN	04/24/2020 06:05 ~ 04/24/2020 06:17	13	0.0	2.7	
START_UP	05/01/2020 05:53 ~ 05/01/2020 06:17	25	4.9	3.6	BRK-0021
SHUT_DOWN	05/01/2020 16:54 ~ 05/01/2020 17:06	13	0.0	0.1	Out of Control from failed RATA
START_UP	05/11/2020 05:53 ~ 05/11/2020 06:17	25	0.0	3.6	Out of Control from failed RATA
SHUT_DOWN	05/11/2020 07:03 ~ 05/11/2020 07:15	13	0.0	0.2	Out of Control from failed RATA
START_UP	05/11/2020 09:07 ~ 05/11/2020 09:31	25	0.0	3.3	Out of Control from failed RATA
SHUT_DOWN	05/11/2020 17:57 ~ 05/11/2020 18:09	13	0.0	0.1	
START_UP	05/13/2020 08:52 ~ 05/13/2020 09:16	25	1.7	4.1	
SHUT_DOWN	05/13/2020 10:56 ~ 05/13/2020 11:08	13	0.0	0.2	
START_UP	05/13/2020 13:53 ~ 05/13/2020 14:17	25	1.0	2.5	
SHUT_DOWN	05/13/2020 15:57 ~ 05/13/2020 16:09	13	0.0	0.1	
START_UP	05/15/2020 18:38 ~ 05/15/2020 19:02	25	1.6	5.0	
SHUT_DOWN	05/15/2020 20:56 ~ 05/15/2020 21:08	13	0.0	0.2	
START_UP	05/16/2020 16:52 ~ 05/16/2020 17:16	25	2.4	4.9	
SHUT_DOWN	05/16/2020 20:42 ~ 05/16/2020 20:54	13	0.0	0.1	
START_UP	05/17/2020 18:37 ~ 05/17/2020 19:01	25	1.3	4.8	
SHUT_DOWN	05/17/2020 19:42 ~ 05/17/2020 19:54	13	0.0	0.2	
START_UP	05/18/2020 17:38 ~ 05/18/2020 18:02	25	1.6	5.0	
SHUT_DOWN	05/18/2020 19:42 ~ 05/18/2020 19:54	13	0.0	0.2	
START_UP	05/21/2020 07:52 ~ 05/21/2020 08:16	25	1.3	4.5	

SHUT_DOWN	05/21/2020	08:56	~	05/21/2020	09:08	13	0.0	0.2
START_UP	05/21/2020	16:37	~	05/21/2020	17:01	25	1.9	4.0
SHUT_DOWN	05/21/2020	20:13	~	05/21/2020	20:25	13	0.0	0.2
START_UP	05/22/2020	18:37	~	05/22/2020	19:01	25	2.0	5.8
SHUT_DOWN	05/22/2020	21:27	~	05/22/2020	21:39	13	0.0	0.2
START_UP	05/24/2020	17:53	~	05/24/2020	18:17	25	2.5	4.4
SHUT_DOWN	05/24/2020	20:12	~	05/24/2020	20:24	13	0.0	0.2
START_UP	05/25/2020	16:52	~	05/25/2020	17:16	25	2.1	4.4
SHUT_DOWN	05/25/2020	17:56	~	05/25/2020	18:08	13	0.0	0.2
START_UP	05/26/2020	15:52	~	05/26/2020	16:16	25	2.6	4.3
SHUT_DOWN	05/26/2020	20:42	~	05/26/2020	20:54	13	0.0	0.2
START_UP	05/27/2020	15:23	~	05/27/2020	15:47	25	2.9	4.4
SHUT_DOWN	05/27/2020	20:56	~	05/27/2020	21:08	13	0.0	0.2
START_UP	05/28/2020	05:52	~	05/28/2020	06:16	25	2.1	4.9
SHUT_DOWN	05/28/2020	11:58	~	05/28/2020	12:10	13	0.0	0.2
START_UP	05/28/2020	16:52	~	05/28/2020	17:16	25	1.9	3.6
SHUT_DOWN	05/28/2020	17:57	~	05/28/2020	18:09	13	0.0	0.1
START_UP	05/29/2020	09:37	~	05/29/2020	10:01	25	2.5	4.7
SHUT_DOWN	05/29/2020	10:57	~	05/29/2020	11:09	13	0.0	0.1
START_UP	05/29/2020	12:22	~	05/29/2020	12:46	25	2.1	1.5
SHUT_DOWN	05/29/2020	20:57	~	05/29/2020	21:09	13	0.0	0.2
START_UP	05/30/2020	15:52	~	05/30/2020	16:16	25	2.3	4.2
SHUT_DOWN	05/30/2020	16:56	~	05/30/2020	17:08	13	0.0	0.2
START_UP	05/30/2020	18:36	~	05/30/2020	19:00	25	2.0	1.9
SHUT_DOWN	05/30/2020	20:42	~	05/30/2020	20:54	13	0.0	0.2
START_UP	05/31/2020	15:52	~	05/31/2020	16:16	25	1.1	4.2
SHUT_DOWN	05/31/2020	18:11	~	05/31/2020	18:23	13	0.0	0.2
START_UP	05/31/2020	20:51	~	05/31/2020	21:15	25	0.8	2.4
SHUT_DOWN	05/31/2020	21:56	~	05/31/2020	22:08	13	0.0	0.2
START_UP	06/01/2020	04:52	~	06/01/2020	05:16	25	2.4	3.7
SHUT_DOWN	06/01/2020	05:56	~	06/01/2020	06:08	13	0.0	0.2
START_UP	06/01/2020	14:07	~	06/01/2020	14:31	25	1.1	3.8
SHUT_DOWN	06/01/2020	15:11	~	06/01/2020	15:23	13	0.0	0.2
START_UP	06/01/2020	17:22	~	06/01/2020	17:46	25	1.4	1.6
SHUT_DOWN	06/01/2020	18:57	~	06/01/2020	19:09	13	0.0	0.2
START_UP	06/02/2020	10:07	~	06/02/2020	10:31	25	2.9	4.4
SHUT_DOWN	06/02/2020	19:56	~	06/02/2020	20:08	13	0.0	0.2
START_UP	06/03/2020	13:52	~	06/03/2020	14:16	25	1.2	4.3
SHUT_DOWN	06/03/2020	18:56	~	06/03/2020	19:08	13	0.0	0.1
START_UP	06/04/2020	16:52	~	06/04/2020	17:16	25	1.4	4.4
SHUT_DOWN	06/04/2020	18:57	~	06/04/2020	19:09	13	0.0	0.2
START_UP	06/08/2020	05:07	~	06/08/2020	05:31	25	0.9	4.7
SHUT_DOWN	06/08/2020	06:11	~	06/08/2020	06:23	13	0.0	0.2
START_UP	06/08/2020	16:37	~	06/08/2020	17:01	25	1.0	4.1
SHUT_DOWN	06/08/2020	20:42	~	06/08/2020	20:54	13	0.0	0.2

START_UP	06/09/2020	15:22	~	06/09/2020	15:46	25	0.6	4.5
SHUT_DOWN	06/09/2020	18:56	~	06/09/2020	19:08	13	0.0	0.2
START_UP	06/09/2020	19:52	~	06/09/2020	20:16	25	0.9	1.8
SHUT_DOWN	06/09/2020	20:57	~	06/09/2020	21:09	13	0.0	0.2
START_UP	06/10/2020	04:52	~	06/10/2020	05:16	25	2.1	4.2
SHUT_DOWN	06/10/2020	05:56	~	06/10/2020	06:08	13	0.0	0.2
START_UP	06/10/2020	11:21	~	06/10/2020	11:45	25	1.3	3.9
SHUT_DOWN	06/10/2020	12:27	~	06/10/2020	12:39	13	0.0	0.2
START_UP	06/11/2020	17:52	~	06/11/2020	18:16	25	1.3	4.6
SHUT_DOWN	06/11/2020	18:56	~	06/11/2020	19:08	13	0.0	0.2
START_UP	06/12/2020	16:52	~	06/12/2020	17:16	25	1.1	4.3
SHUT_DOWN	06/12/2020	17:56	~	06/12/2020	18:08	13	0.0	0.2
START_UP	06/13/2020	05:07	~	06/13/2020	05:31	25	3.3	4.1
SHUT_DOWN	06/13/2020	06:11	~	06/13/2020	06:23	13	0.0	0.2
START_UP	06/14/2020	14:51	~	06/14/2020	15:15	25	2.4	4.3
SHUT_DOWN	06/14/2020	16:56	~	06/14/2020	17:08	13	0.0	0.1
START_UP	06/14/2020	17:51	~	06/14/2020	18:15	25	0.2	1.3
SHUT_DOWN	06/14/2020	19:41	~	06/14/2020	19:53	13	0.0	0.2
START_UP	06/15/2020	05:51	~	06/15/2020	06:15	25	2.5	4.3
SHUT_DOWN	06/15/2020	08:11	~	06/15/2020	08:23	13	0.0	0.2
START_UP	06/15/2020	11:51	~	06/15/2020	12:15	25	0.9	2.9
SHUT_DOWN	06/15/2020	13:56	~	06/15/2020	14:08	13	0.0	0.2
START_UP	06/16/2020	18:21	~	06/16/2020	18:45	25	3.1	4.6
SHUT_DOWN	06/16/2020	19:41	~	06/16/2020	19:53	13	0.0	0.2
START_UP	06/17/2020	05:51	~	06/17/2020	06:15	25	2.3	4.0
SHUT_DOWN	06/17/2020	06:56	~	06/17/2020	07:08	13	0.0	0.2
START_UP	06/17/2020	09:51	~	06/17/2020	10:15	25	1.8	2.6
SHUT_DOWN	06/17/2020	10:56	~	06/17/2020	11:08	13	0.0	0.2
START_UP	06/18/2020	04:51	~	06/18/2020	05:15	25	2.4	4.3
SHUT_DOWN	06/18/2020	07:41	~	06/18/2020	07:53	13	0.0	0.2
START_UP	06/18/2020	14:22	~	06/18/2020	14:46	25	2.1	3.7
SHUT_DOWN	06/18/2020	15:41	~	06/18/2020	15:53	13	0.0	0.2
START_UP	06/19/2020	05:52	~	06/19/2020	06:16	25	3.6	4.6
SHUT_DOWN	06/19/2020	06:56	~	06/19/2020	07:08	13	0.0	0.1
START_UP	06/19/2020	17:37	~	06/19/2020	18:01	25	3.2	4.4
SHUT_DOWN	06/19/2020	19:41	~	06/19/2020	19:53	13	0.0	0.1
START_UP	06/20/2020	04:52	~	06/20/2020	05:16	25	4.2	4.7
SHUT_DOWN	06/20/2020	06:56	~	06/20/2020	07:08	13	0.0	0.2
START_UP	06/20/2020	14:51	~	06/20/2020	15:15	25	2.1	3.7
SHUT_DOWN	06/20/2020	19:26	~	06/20/2020	19:38	13	0.0	0.2
START_UP	06/21/2020	05:06	~	06/21/2020	05:30	25	2.1	3.7
SHUT_DOWN	06/21/2020	06:11	~	06/21/2020	06:23	13	0.0	0.1
START_UP	06/21/2020	18:36	~	06/21/2020	19:00	25	3.0	4.6
SHUT_DOWN	06/21/2020	19:41	~	06/21/2020	19:53	13	0.0	0.1
START_UP	06/22/2020	17:22	~	06/22/2020	17:46	25	2.1	4.7

SHUT_DOWN	06/22/2020	20:26	~	06/22/2020	20:38	13	0.0	0.1
START_UP	06/23/2020	05:51	~	06/23/2020	06:15	25	2.2	4.2
SHUT_DOWN	06/23/2020	06:56	~	06/23/2020	07:08	13	0.0	0.1
START_UP	06/23/2020	09:21	~	06/23/2020	09:45	25	2.4	1.3
SHUT_DOWN	06/23/2020	10:27	~	06/23/2020	10:39	13	0.0	0.2
START_UP	06/24/2020	17:21	~	06/24/2020	17:45	25	3.6	5.5
SHUT_DOWN	06/24/2020	19:11	~	06/24/2020	19:23	13	0.0	0.2
START_UP	06/25/2020	04:51	~	06/25/2020	05:15	25	2.1	4.1
SHUT_DOWN	06/25/2020	06:11	~	06/25/2020	06:23	13	0.0	0.1
START_UP	06/26/2020	14:21	~	06/26/2020	14:45	25	2.7	4.9
SHUT_DOWN	06/26/2020	16:27	~	06/26/2020	16:39	13	0.0	0.2
START_UP	06/26/2020	17:21	~	06/26/2020	17:45	25	0.6	1.9
SHUT_DOWN	06/26/2020	20:56	~	06/26/2020	21:08	13	0.0	0.2
START_UP	06/27/2020	13:21	~	06/27/2020	13:45	25	2.4	4.3
SHUT_DOWN	06/27/2020	20:26	~	06/27/2020	20:38	13	0.0	0.1
START_UP	06/28/2020	17:36	~	06/28/2020	18:00	25	2.5	4.6
SHUT_DOWN	06/28/2020	19:26	~	06/28/2020	19:38	13	0.0	0.1
START_UP	06/29/2020	04:51	~	06/29/2020	05:15	25	2.0	4.3
SHUT_DOWN	06/29/2020	05:56	~	06/29/2020	06:08	13	0.0	0.2
START_UP	06/29/2020	18:22	~	06/29/2020	18:46	25	0.9	4.3
SHUT_DOWN	06/29/2020	19:27	~	06/29/2020	19:39	13	0.0	0.2
START_UP	06/30/2020	08:37	~	06/30/2020	09:01	25	2.4	4.3
SHUT_DOWN	06/30/2020	09:41	~	06/30/2020	09:53	13	0.0	0.1
START_UP	06/30/2020	11:06	~	06/30/2020	11:30	25	2.4	1.4
SHUT_DOWN	06/30/2020	12:11	~	06/30/2020	12:23	13	0.0	0.1

Attachment F 40 CFR Part 60, Subpart KKKK Report:

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

AQ-88: Part 60, KKKK Semiannual Report Summary

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

Reporting dates 1/1/2020 00:00 through 6/30/2020 23:59
Generated: 7/20/2020 12:20

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

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA 92008
Model: Teledyne T200

Description: Unit 6

Date of Latest CEMS Certification or Audit: April 28, 2020

Total source operating time in reporting period: **742.0 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: PAUL MATTESICH

Signature: 

Title: General Manager

Date: 7/28/20

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

**Reporting dates 1/1/2020 00:00 through 6/30/2020 23:59
Generated: 7/20/2020 12:21**

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

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA 92008
Model: Teledyne T200

Description: Unit 7

Date of Latest CEMS Certification or Audit: April 29, 2020

Total source operating time in reporting period: **709.0 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: PAUL MATTESICH

Signature: 

Title: General Manager

Date: 7/28/20

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

Reporting dates 1/1/2020 00:00 through 6/30/2020 23:59
Generated: 7/20/2020 12:21

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

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA 92008
Model: Teledyne T200

Description: Unit 8

Date of Latest CEMS Certification or Audit: April 22, 2020

Total source operating time in reporting period: **803.0 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... 1.0
c. Process Problems..... 0.0	c. Quality Assurance..... 3.0
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..... 4.0
3. Excess emission duration (%)..... 0.00%	3. CEMS downtime (%)..... 0.50%

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: PAUL MATTESICH

Signature: 

Title: General Manager

Date: 7/28/20

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

Reporting dates 1/1/2020 00:00 through 6/30/2020 23:59
Generated: 7/20/2020 12:21

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

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA 92008
Model: Teledyne T200

Description: Unit 9

Date of Latest CEMS Certification or Audit: April 21, 2020

Total source operating time in reporting period: **614.0 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: PAUL MATESICH

Signature: 

Title: General Manager

Date: 7/28/20

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

Reporting dates 1/1/2020 00:00 through 6/30/2020 23:59
Generated: 7/20/2020 12:20

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

Company Name: Carlsbad Energy Center
Address: 4950 Avenida Encinas, Carlsbad, CA 92008
Model: Teledyne T200

Description: Unit 10

Date of Latest CEMS Certification or Audit: May 1, 2020

Total source operating time in reporting period: **591.0 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 statment(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: PAUL MATTESICH

Signature: 

Title: General Manager

Date: 7/28/20

Attachment G Air Pollution Control District Monthly Report:

AQ-46: NO_x and PM₁₀ Annual Emissions Summary

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

2019

All Emission Values are Totals In Lbs

Unit 6	Monthly										12 Mo Rolling					Plant Tons/12mo					Plant Tons/Calendar Year				
	MMBTU			SO2			MMBTU			SO2			CO	Nox		CO	PM10	SO2	CO	Nox		PM10	SO2	CO	
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2	NOx	CO		PM10	SO2					NOx	CO				PM10
Feb-19	117263.11	758.54	91.31	246.25	70.36	439707.36	3225.71	539.08	923.39	263.82	13.67	3.84	4.09	1.19	2020	5.05	1.78	1.53	0.44						
Mar-19	110328.82	744.29	184.96	231.69	66.20	550036.18	3969.99	724.04	1155.08	330.02	12.95	3.80	3.91	1.14	2020	5.05	1.78	1.53	0.44						
Apr-19	56364.87	382.89	111.08	118.37	33.82	606401.05	4352.88	835.13	1273.44	363.84	12.32	3.83	3.77	1.10	2020	5.05	1.78	1.53	0.44						
May-19	39417.30	267.66	72.42	82.78	23.65	645818.35	4620.54	907.55	1356.22	387.49	11.53	3.59	3.53	1.03	2020	5.05	1.78	1.53	0.44						
Jun-19	56364.87	382.89	111.08	118.37	33.82	702183.22	5003.43	1018.63	1474.58	421.31	11.80	3.75	3.61	1.05	2020	5.05	1.78	1.53	0.44						
Jul-19	31135.92	225.00	75.44	65.39	18.68	733319.14	5228.43	1094.08	1539.97	439.99	12.00	3.90	3.65	1.06	2020	5.05	1.78	1.53	0.44						
Aug-19	92255.35	626.56	235.32	158.23	55.35	655744.89	5834.96	1326.29	1833.37	539.34	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Sep-19	94118.07	602.83	169.59	197.65	56.47	867570.87	6015.21	1427.02	1821.90	520.54	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Oct-19	40807.91	306.07	82.17	85.70	24.48	899417.88	6233.49	1488.20	1888.78	539.65	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Nov-19	36366.0	262.422	74.925	76.37	21.82	856556.25	5843.29	1469.82	1798.77	513.93	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Dec-19	117590.46	706.90	168.72	246.94	70.55	906553.40	6028.85	1542.26	1903.76	543.93	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Jan-20	40595.64	280.34	95.02	85.25	24.36	832608.36	5526.37	1471.95	1748.48	499.57	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Feb-20	83771.25	534.22	125.97	175.92	50.26	799116.50	5302.05	1506.61	1678.14	479.47	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Mar-20	71601.28	451.55	114.37	150.36	42.96	760388.96	5009.31	1436.02	1596.82	456.23	0.00	0.00	0.00	0.00	2020	5.05	1.78	1.53	0.44						
Apr-20	28070.99	202.52	77.92	58.95	16.84	732095.08	4828.94	1402.86	1537.40	439.26	2019	Limit	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
May-20	57875.63	402.52	158.54	121.54	34.73	750553.41	4963.80	1488.97	1576.16	450.33	Nox	0.00	84.18	0.00	0.00	0.00	0.00	0.00	0.00						
Jun-20	29152.51	210.43	96.41	61.22	17.49	723341.05	4791.34	1474.30	1519.02	434.00	CO	0.00	77.8	0.00	0.00	0.00	0.00	0.00	0.00						
Jul-20											PM10	0.00	28.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Aug-20											Sox	0.00	5.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Sep-20																									
Oct-20																									
Nov-20																									
Dec-20																									

Unit 7

	Monthly										12 Mo Rolling							
	MMBTU			SO2			MMBTU			SO2			CO	Nox		CO	PM10	SO2
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2	NOx	CO		PM10	SO2			
Feb-19	108414.84	807.74	97.66	205.99	65.05	393079.25	3023.05	531.39	746.85	235.85	15.49	4.72	4.50	1.26				
Mar-19	137989.29	941.19	125.58	262.18	82.79	531068.54	3964.23	656.97	1009.03	318.64	15.93	4.72	4.50	1.26				
Apr-19	78070.99	202.52	77.92	58.95	16.84	732095.08	4828.94	1402.86	1537.40	439.26	15.49	4.72	4.50	1.26				
May-19	41633.28	290.99	131.06	79.10	24.98	649515.73	4804.27	895.46	1234.08	389.71	15.49	4.72	4.50	1.26				
Jun-19	11750.71	79.10	27.87	22.33	7.05	661266.44	4883.37	786.76	1256.41	396.76	15.49	4.72	4.50	1.26				
Jul-19	33539.86	247.17	123.35	63.73	20.12	694806.30	5130.54	910.11	1320.13	416.88	15.49	4.72	4.50	1.26				
Aug-19	88847.41	610.49	250.12	168.81	53.31	783653.71	5741.03	1160.23	1488.94	470.19	15.49	4.72	4.50	1.26				
Sep-19	90642.28	580.78	187.44	172.22	54.39	851151.11	6147.18	1312.44	1617.19	510.69	15.49	4.72	4.50	1.26				
Oct-19	30468.30	263.23	99.21	57.89	18.28	877133.92	6369.21	1398.48	1666.55	526.28	15.49	4.72	4.50	1.26				
Nov-19	32539.3	239.84	92.38	61.82	19.52	825842.07	5930.81	1412.68	1569.10	495.51	15.49	4.72	4.50	1.26				
Dec-19	110379.94	685.603	261.46	209.72	66.23	869883.94	6082.41	1608.99	1652.78	521.93	15.49	4.72	4.50	1.26				
Jan-20	35619.277	257.3695	128.2282	67.68	21.37	798638.42	5552.66	1631.78	1517.41	479.18	15.49	4.72	4.50	1.26				
Feb-20	59940.39	381.41	124.34	113.89	35.96	750163.97	5126.33	1658.47	1425.31	450.10	15.49	4.72	4.50	1.26				
Mar-20	97568.01	609.38	218.63	185.38	58.54	709742.69	4794.53	1751.52	1348.51	425.85	15.49	4.72	4.50	1.26				
Apr-20	22137.94	163.77	65.45	42.06	13.28	655066.73	4409.25	1709.54	1244.63	393.04	15.49	4.72	4.50	1.26				
May-20	57687.99	405.00	152.52	109.61	34.61	671121.44	4523.26	1731.00	1275.13	402.67	15.49	4.72	4.50	1.26				
Jun-20	32415.85	249.87	148.92	61.59	19.45	691786.58	4694.03	1852.05	1314.39	415.07	15.49	4.72	4.50	1.26				
Jul-20											15.49	4.72	4.50	1.26				
Aug-20											15.49	4.72	4.50	1.26				
Sep-20											15.49	4.72	4.50	1.26				
Oct-20											15.49	4.72	4.50	1.26				
Nov-20											15.49	4.72	4.50	1.26				
Dec-20											15.49	4.72	4.50	1.26				

Unit 8

	Monthly										12 Mo Rolling							
	MMBTU			SO2			MMBTU			SO2			CO	Nox		CO	PM10	SO2
	MMBTU	Nox	CO	PM10	SO2	MMBTU	Nox	CO	PM10	SO2	NOx	CO		PM10	SO2			
Feb-19	101888.84	727.26	232.62	203.78	61.13	405562.93	3200.80	774.51	811.13	243.34	15.49	4.72	4.50	1.26				
Mar-19	61724.97	490.60	191.31	123.45	37.03	467287.90	3691.39	965.82	934.58	280.37	15.49	4.72	4.50	1.26				
Apr-19	45401.64	346.36	228.18	90.80	27.24	512689.53	4037.76	1194.00	1025.38	307.61	15.49	4.72	4.50	1.26				
May-19	38384.13	240.47	58.16	76.77	23.03	551073.66	4278.22	1252.16	1102.15	330.64	15.49	4.72	4.50	1.26				
Jun-19	32900.81	204.38	31.45	65.80	19.74	583974.48	4482.61	1283.61	1167.95	350.38	15.49	4.72	4.50	1.26				
Jul-19	34386.89	217.64	68.79	68.79	20.64	590973.87	4494.89	1323.37	1181.59	354.58	15.49	4.72	4.50	1.26				
Aug-19	114289.26	721.67	188.83	228.58	68.57	653873.18	4772.00	1453.58	1307.75	392.32	15.49	4.72	4.50	1.26				
Sep-19	115566.50	714.74	130.47	231.13	69.34	769195.56	5480.96	1579.52	1538.39	461.52	15.49	4.72	4.50	1.26				
Oct-19	68119.68	513.46	96.43	136.24	40.87	832563.09	5944.13	1664.55	1665.13	499.54	15.49	4.72	4.50	1.26				
Nov-19	43144.2	331.885	71.245	86.29	25.89	796397.48	5588.36	1589.36	1592.79	477.84	15.49	4.72	4.50	1.26				
Dec-19	138794.64	868.19	149.38	277.59	83.28	881210.36	6021.64	1592.45	1762.42	528.73	15.49	4.72	4.50	1.26				
Jan-20	44763.50	319.35	53.69	89.53	26.86	839375.07	5696.01	1492.42	1678.75	503.63	15.49	4.72	4.50	1.26				
Feb-20	91197.58	607.99	86.32	132.40	54.72	828683.81	5576.74	1346.11	1657.37	497.21	15.49	4.72	4.50	1.26				
Mar-20	93345.17	592.97	107.27	186.69	56.01	860304.01	5679.11	1262.06	1720.61	516.18	15.49	4.72	4.50	1.26				
Apr-20	31625.71	216.55	46.02	63.25	18.98	846528.08	5549.30	1079.91	1693.06	507.92	15.49	4.72	4.50	1.26				
May-20	62648.77	433.16	120.10	125.30	37.59	870792.72	5741.99	1141.84	1741.59	522.48	15.49	4.72	4.50	1.26				
Jun-20	25459.93	198.05	70.09	50.92	15.28	863351.84	5735.65	1180.48	1726.70	518.01	15.49	4.72	4.50	1.26				
Jul-20											15.49	4.72	4.50	1.26				
Aug-20											15.49	4.72	4.50	1.26				
Sep-20											15.49	4.72	4.50	1.26				
Oct-20											15.49	4.72	4.50	1.26				
Nov-20											15.49	4.72	4.50	1.26				
Dec-20											15.49	4.72	4.50	1.26				

Unit 9

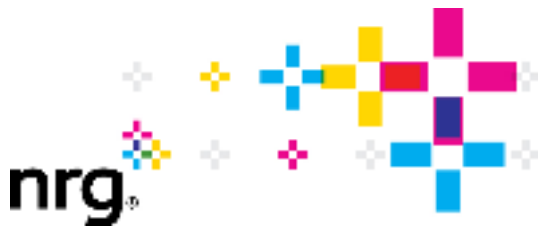
	Monthly										12 Mo Rolling							
	MMBTU			SO2			MMBTU			SO2			CO	Nox		CO	PM10	SO2</

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

July 28, 2020

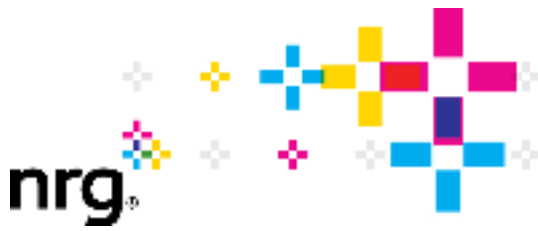
Subject: CARLSBAD ENERGY CENTER AQ-SC8 REPORT – VOLATILE ORGANIC COMPOUNDS COMPLIANCE STATEMENT

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



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

July 28, 2020

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
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Phone: 760-710-3970

July 28, 2020

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

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



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

April 28, 2020

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

Attached are operator logs for the diesel test runs in 2Q2020. The logs show that the diesel has run under its hour limit for this year.

All Entries

06/29/2020 09:44 PDT	M Kristie	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by m13kri on 6/29/2020 09:44 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 32.7; Diesel data before Start Diesel tank level (decimal entry): .6; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0906; 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: 0936; Ensure Diesel stops at 30 minutes Date: 6/29/20; Diesel data after the run Engine hours: 33.1; Diesel data after the run Diesel tank level (Decimal): 6</p>	Complete
06/22/2020 14:45 PDT	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 6/22/2020 14:45 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 32.3; Diesel data before Start Diesel tank level (decimal entry): 0.6; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1053; 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: 1122; Ensure Diesel stops at 30 minutes Date: 6/22/20; Diesel data after the run Engine hours: 32.7; Diesel data after the run Diesel tank level (Decimal): 0.6</p>	Complete
06/15/2020 17:16 PDT	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 6/15/2020 17:16 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 31.9; Diesel data before Start Diesel tank level (decimal entry): 0.6; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1605; Diesel Running Parameters normal(Leakoff, pressure etc.): Not OK; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: coolant flow indicator was leaking a lot. ; 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: 1635; Ensure Diesel stops at 30 minutes Date: 6/15/20; Diesel data after the run Engine hours: 32.3; Diesel data after the run Diesel tank level (Decimal): 0.6</p>	Complete
06/08/2020 14:19 PDT	R Burton	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by r13bur on 6/08/2020 14:19 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 31.5; Diesel data before Start Diesel tank level (decimal entry): .6; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0825; 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: 0855; Ensure Diesel stops at 30 minutes Date: 6/8/20; Diesel data after the</p>	Complete

			run Engine hours: 31.9; Diesel data after the run Diesel tank level (Decimal): .6	
06/01/2020 13:43 PDT	R Burton		<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by r13bur on 6/01/2020 13:46 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 31.1; Diesel data before Start Diesel tank level (decimal entry): 0.6; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0931; 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: 1001; Ensure Diesel stops at 30 minutes Date: 6/1/20; Diesel data after the run Engine hours: 31.5; Diesel data after the run Diesel tank level (Decimal): 0.6</p>	Complete
05/25/2020 17:19 PDT	S Reilly		<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by s13rei on 5/25/2020 17:23 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 30.7; Diesel data before Start Diesel tank level (decimal entry): 0.63; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1646; 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: 1717; Ensure Diesel stops at 30 minutes Date: 5/25/20; Diesel data after the run Engine hours: 31.1; Diesel data after the run Diesel tank level (Decimal): 0.62</p>	Complete
05/18/2020 15:41 PDT	G Munsell		<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by g13mun on 5/18/2020 15:43 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 30.3; Diesel data before Start Diesel tank level (decimal entry): .65; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1404; 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: 1434; Ensure Diesel stops at 30 minutes Date: 05-18-2020; Diesel data after the run Engine hours: 30.7; Diesel data after the run Diesel tank level (Decimal): .62</p>	Complete
05/11/2020 13:00 PDT	A Siegel		<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 5/11/2020 13:00 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 29.9; Diesel data before Start Diesel tank level (decimal entry): 0.68; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1224; 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: 1254; Ensure Diesel stops at 30 minutes Date: 5/11/20; Diesel data after the</p>	Complete

		run Engine hours: 30.3; Diesel data after the run Diesel tank level (Decimal): 0.65	
05/05/2020 08:44 PDT	K Campbell	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by kcampbell01 on 5/05/2020 08:52 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 29.5; Diesel data before Start Diesel tank level (decimal entry): 68; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0800; 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: 0830; Ensure Diesel stops at 30 minutes Date: 05/5/20; Diesel data after the run Engine hours: 29.9; Diesel data after the run Diesel tank level (Decimal): .68</p>	Complete
04/27/2020 10:03 PDT	B Miller	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by b13mil on 4/27/2020 10:03 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 21.9; Diesel data before Start Diesel tank level (decimal entry): 0.68; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0741; 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: 0811; Ensure Diesel stops at 30 minutes Date: 4/27/20; Diesel data after the run Engine hours: 29.5; Diesel data after the run Diesel tank level (Decimal): 0.68</p>	Complete
04/20/2020 09:35 PDT	G Munsell	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by g13mun on 4/20/2020 09:38 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 28.7; Diesel data before Start Diesel tank level (decimal entry): .68; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 0817; 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: 0847; Ensure Diesel stops at 30 minutes Date: 4/20/20; Diesel data after the run Engine hours: 29.1; Diesel data after the run Diesel tank level (Decimal): .68</p>	Complete
04/13/2020 15:08 PDT	A Siegel	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 4/13/2020 15:12 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Start Diesel Fire Pump Normal Startup? Comment: N/A; Diesel Running Parameters normal(Leakoff, pressure etc.) Comment: N/A ; Ensure Diesel stops at 30 minutes Did Diesel run and stop OK? Comment: N/A</p> <p>Appended Comments:</p> <ul style="list-style-type: none"> ▪ Duplicate, ignore (ASiegel, 4/13/2020 15:59 PDT) 	Complete

<p>04/13/2020 14:59 PDT</p>	<p>A Siegel</p>	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by asiegel on 4/13/2020 15:04 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 28.3; Diesel data before Start Diesel tank level (decimal entry): 0.7; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1353; 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: 1423; Ensure Diesel stops at 30 minutes Date: 4/13/20; Diesel data after the run Engine hours: 28.7; Diesel data after the run Diesel tank level (Decimal): .68</p>	<p>Complete</p>
<p>04/06/2020 13:09 PDT</p>	<p>M Kristie</p>	<p>LOG ENTRY SHARED FROM 'Carlsbad Energy Center Rounds' by m13kri on 4/06/2020 13:11 PDT</p> <p>Round: Weekly Diesel Firepump</p> <p>Details: Diesel data before Start Engine hours: 27.9; Diesel data before Start Diesel tank level (decimal entry): 70; Start Diesel Fire Pump Normal Startup?: Normal; Start Diesel Fire Pump Normal Startup? Comment: N/A; Start Diesel Fire Pump Start time: 1120; 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: 1150; Ensure Diesel stops at 30 minutes Date: 4/6/20; Diesel data after the run Engine hours: 28.3; Diesel data after the run Diesel tank level (Decimal): 70</p>	<p>Complete</p>

Attachment L Diesel Generator Conditions:

AQ-110: Diesel Engine Run Hours

AQ-120: Diesel Engine Operation Logs

AQ-121: Diesel Engine District Notification



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

July 28, 2020

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 NO_x, CO, VOC, PM₁₀, and Sox

AQ-45: Rolling 12-Month Annual Emissions CO

AQ-49: Annual Operating Hours Summary

AQ-50: Annual Starts Per Turbine Summary

AQ-51: Commissioning Starts Per Turbine Summary

AQ-90: Initial Startup Notification