

DOCKETED

Docket Number:	01-AFC-05C
Project Title:	Valero Cogeneration Project-Compliance
TN #:	232261
Document Title:	Annual Cogen Mass Emissions Report 2019
Description:	N/A
Filer:	bob chou
Organization:	Valero Benicia Refinery
Submitter Role:	Applicant
Submission Date:	2/28/2020 3:15:09 PM
Docketed Date:	2/28/2020



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February 28, 2020

Valero Cogeneration Project
2019 Annual Mass Emissions Report
Application No. 2488/2695

Mr. Douglas W. Hall
Supervising Air Quality Engineer
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109

Dear Mr. Hall:

Enclosed is a copy of the 2019 Annual Mass Emissions Report for the Valero Cogeneration Project. As required by Permit Condition #22 (CEC Condition of Certification AQ-22), this report submission is required at the close of each calendar year to document compliance with the following permit conditions:

- #13 (AQ-13) – Fuel types fired
- #16 (AQ-16) – Annual limit on combined heat input rate
- #18 (AQ-18) – Emission limits for natural gas firing
- #19 (AQ-19) – Emission limits for refinery gas firing
- #20 (AQ-20) – Annual SAM emission limit
- #22 (AQ-22) – Annual mass emission limits
- #23 (AQ-23) – Daily mass emissions of POC, PM10, SAM, and SO₂
- #35 (AQ-35) – Fuel gas H₂S and TRS monitoring
- #36 (AQ-36) – Fuel gas H₂S and TRS averages
- #39 (AQ-39) – PM10 and POC quarterly testing
- #40 (AQ-40) – SAM, SO₂, SO₃ and ammonium sulfates quarterly testing

Daily mass emission rates, 365-day rolling average daily mass emissions are reported as required by BAAQMD Permit Conditions 19177 parts 22 and 23.

Mr. Douglas W. Hall, BAAQMD

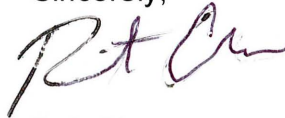
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Please note that quarterly PM10 source tests provided to the BAAQMD include results for total particulate matter and a corrected result for actual PM10 which excludes condensable ammonium sulfate. The compliance basis for PM10 emissions is the corrected result. Therefore, reported PM10 emissions exclude ammonium sulfate which is a condensable artifact of the source testing and analytical processes and, as such, reportable as part of the compliance demonstration.

Should you have questions regarding this information, call me at (707) 745-7609.

Sincerely,

A handwritten signature in dark ink, appearing to read "Bob Chou", with a stylized, cursive script.

Bob Chou
Environmental Engineer

RPC

Enclosure

cc: City of Benicia Public Library
150 East L Street
Benicia, California 94510

Anwar Ali
Compliance Project Manager
Valero Cogeneration Project (01-AFC-05)
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, California 95814

**Valero Cogeneration Project
Mass Emissions and Fuel Use Summary
2019**

Mass Emissions Summary

Cogen Stack Emissions (lbs)

Month	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
Jan-19	1930.4	2820.4	275.1	951.1	305.7	647.0
Feb-19	2406.8	2003.9	208.2	1183.1	380.3	804.9
Mar-19	2304.9	1890.0	416.8	1073.9	356.3	1003.4
Apr-19	262.0	1758.6	8.3	387.8	139.0	614.0
May-19	2369.1	1637.1	190.0	870.7	312.0	1378.6
Jun-19	2562.5	1574.5	450.8	866.0	310.3	889.9
Jul-19	2688.6	1680.6	664.2	890.2	319.0	787.2
Aug-19	2600.8	1835.8	505.8	825.1	295.7	729.1
Sep-19	2619.8	2014.8	699.7	862.9	309.2	762.4
Oct-19	2683.1	1803.7	487.7	910.6	326.3	804.7
Nov-19	2552.1	1288.5	455.8	816.1	292.4	721.4
Dec-19	2153.4	1625.2	240.8	669.2	239.8	591.5

Fugitive Emissions (lbs) 0.0

2019 Total lbs 27133.6 21933.1 4603.0 10306.8 3586.0 9734.3

2019 Total TPY 13.567 10.9666 2.3 5.153 1.793 4.9

Annual Limit⁽¹⁾ TPY 28.603 41.9285 15.0 10.919 8.579 7.0

Notes:

⁽¹⁾ Annual emission limits per PC 19177, Part 22a, and firing duty limit per PC 19177, Part 16

⁽²⁾ EPA Method 202

⁽³⁾ EPA Method 8

Fuel Use Summary

Heat Input Rate (MMBtu)

GT-4901	SG-4901	Combined
244,998	30,824	275,822
301,710	41,400	343,109
292,611	56,588	349,199
120,021	40,915	160,937
307,665	53,680	361,346
317,991	41,386	359,377
321,667	47,785	369,452
302,034	40,377	342,411
316,488	41,634	358,122
332,352	45,550	377,902
296,992	41,696	338,688
235,261	42,440	277,700

3,389,790 524,276 3,914,066 MMBtu

6,351,000 MMBtu

GT/SG4901 DAILY MASS RATES (lb/day)

	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
1/1/2019	87.2	120.9	11.5	43.0	13.8	29.2
1/2/2019	87.4	129.4	12.1	43.0	13.8	29.3
1/3/2019	86.2	135.8	10.6	42.4	13.6	28.8
1/4/2019	85.4	133.8	9.5	42.0	13.5	28.6
1/5/2019	85.0	135.4	8.8	41.7	13.4	28.4
1/6/2019	65.7	87.7	14.3	31.1	10.0	21.1
1/7/2019	85.4	139.7	10.7	42.6	13.7	29.0
1/8/2019	77.3	202.2	7.9	41.3	13.3	28.1
1/9/2019	85.7	130.9	7.7	42.0	13.5	28.6
1/10/2019	85.3	139.4	7.7	42.1	13.5	28.6
1/11/2019	85.4	133.5	5.9	42.1	13.5	28.6
1/12/2019	85.5	127.8	8.0	41.9	13.5	28.5
1/13/2019	85.5	121.6	9.6	41.9	13.5	28.5
1/14/2019	85.1	120.5	7.7	41.7	13.4	28.4
1/15/2019	85.1	123.5	8.7	41.6	13.4	28.3
1/16/2019	83.6	126.3	5.1	41.1	13.2	28.0
1/17/2019	84.1	126.6	5.6	41.5	13.3	28.2
1/18/2019	58.5	106.5	9.6	29.6	9.5	20.1
1/19/2019	0.0	0.0	9.6	0.0	0.0	0.0
1/20/2019	0.0	0.0	9.6	0.0	0.0	0.0
1/21/2019	0.0	0.0	9.6	0.0	0.0	0.0
1/22/2019	0.0	0.0	9.6	0.0	0.0	0.0
1/23/2019	0.0	0.0	9.6	0.0	0.0	0.0
1/24/2019	0.0	0.0	9.6	0.0	0.0	0.0
1/25/2019	0.4	1.7	9.6	0.0	0.0	0.0
1/26/2019	26.9	31.0	17.9	12.7	4.1	8.7
1/27/2019	85.4	82.1	6.6	41.8	13.4	28.4
1/28/2019	83.8	89.8	6.5	40.9	13.2	27.8
1/29/2019	83.4	88.4	6.7	40.9	13.1	27.8
1/30/2019	83.4	92.8	4.7	41.0	13.2	27.9
1/31/2019	83.4	93.2	4.2	41.1	13.2	27.9
2/1/2019	84.1	91.4	5.2	41.1	13.2	28.0
2/2/2019	84.4	85.1	7.4	41.3	13.3	28.1
2/3/2019	84.9	84.7	6.8	41.7	13.4	28.4
2/4/2019	86.1	70.4	10.0	42.2	13.6	28.7
2/5/2019	87.5	69.0	10.4	42.7	13.7	29.1
2/6/2019	87.9	76.7	7.9	43.1	13.8	29.3
2/7/2019	88.5	78.0	5.8	43.3	13.9	29.4
2/8/2019	88.0	79.8	7.1	43.4	14.0	29.5
2/9/2019	87.6	75.8	7.6	43.3	13.9	29.4
2/10/2019	88.0	73.8	7.3	43.3	13.9	29.5
2/11/2019	89.0	73.9	8.1	43.8	14.1	29.8
2/12/2019	88.8	78.4	7.8	43.8	14.1	29.8
2/13/2019	87.3	73.5	9.7	42.7	13.7	29.1
2/14/2019	86.0	66.5	7.9	42.1	13.5	28.6
2/15/2019	87.4	75.6	6.9	43.0	13.8	29.3
2/16/2019	87.7	77.5	5.7	43.2	13.9	29.4
2/17/2019	87.7	79.8	7.5	43.4	14.0	29.5
2/18/2019	87.8	76.2	9.8	43.3	13.9	29.5
2/19/2019	87.6	74.9	8.7	43.4	13.9	29.5
2/20/2019	87.2	78.4	6.1	43.1	13.9	29.4
2/21/2019	86.3	70.1	6.8	42.5	13.6	28.9
2/22/2019	87.4	74.0	8.4	43.1	13.8	29.3
2/23/2019	87.7	79.4	5.9	43.1	13.9	29.3
2/24/2019	85.3	74.3	5.4	42.0	13.5	28.6
2/25/2019	78.4	54.1	6.4	38.4	12.3	26.1
2/26/2019	79.2	44.3	6.9	38.8	12.5	26.4
2/27/2019	79.8	34.6	6.7	39.0	12.5	26.5
2/28/2019	79.2	33.8	7.9	39.0	12.5	26.5

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 DAILY MASS RATES (lb/day)

	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
3/1/2019	84.6	54.8	9.3	41.9	13.5	28.5
3/2/2019	88.4	68.4	10.4	43.9	14.1	29.9
3/3/2019	89.3	68.2	10.0	44.4	14.3	30.2
3/4/2019	88.6	63.7	10.3	44.0	14.1	29.9
3/5/2019	87.7	65.8	8.5	43.5	14.0	29.6
3/6/2019	84.3	55.2	12.5	41.6	13.4	28.3
3/7/2019	88.1	62.8	11.6	43.5	14.0	29.6
3/8/2019	88.3	62.0	9.1	43.6	14.0	29.6
3/9/2019	87.7	59.4	9.6	43.0	13.8	29.2
3/10/2019	88.1	62.7	10.0	43.3	13.9	29.4
3/11/2019	87.3	58.5	10.9	43.0	13.8	29.2
3/12/2019	87.3	60.8	11.8	42.9	13.8	29.2
3/13/2019	87.8	64.0	10.7	43.3	13.9	29.4
3/14/2019	88.8	69.7	11.8	43.7	14.0	29.7
3/15/2019	89.8	77.6	20.9	42.5	13.7	28.9
3/16/2019	89.5	70.0	24.0	42.2	13.6	28.7
3/17/2019	86.3	61.7	22.4	40.9	13.1	27.8
3/18/2019	85.3	65.4	26.1	40.7	13.1	27.7
3/19/2019	87.3	73.9	24.4	29.2	10.5	46.3
3/20/2019	89.6	82.4	29.7	30.0	10.8	47.6
3/21/2019	90.4	79.0	34.8	30.5	10.9	48.2
3/22/2019	90.5	87.1	36.3	29.6	10.6	46.9
3/23/2019	90.5	84.4	32.2	29.2	10.5	46.3
3/24/2019	90.0	55.4	9.7	28.4	10.2	45.0
3/25/2019	75.5	27.8	3.7	24.0	8.6	38.0
3/26/2019	47.7	26.8	1.4	20.2	7.2	32.0
3/27/2019	12.9	39.1	1.0	17.2	6.2	27.3
3/28/2019	16.3	35.3	1.1	17.0	6.1	27.0
3/29/2019	12.1	46.4	1.5	15.8	5.7	25.0
3/30/2019	12.2	50.8	0.6	15.4	5.5	24.5
3/31/2019	12.7	50.8	0.5	15.5	5.6	24.6
4/1/2019	11.6	55.5	0.6	15.6	5.6	24.7
4/2/2019	11.6	52.8	0.3	15.3	5.5	24.3
4/3/2019	10.7	60.1	0.3	14.9	5.3	23.5
4/4/2019	9.0	75.0	0.3	13.7	4.9	21.7
4/5/2019	8.8	75.4	0.2	13.8	4.9	21.8
4/6/2019	9.2	73.5	0.3	13.8	4.9	21.8
4/7/2019	9.2	73.2	0.3	13.9	5.0	22.0
4/8/2019	8.8	73.8	0.2	13.6	4.9	21.6
4/9/2019	8.0	74.3	0.2	13.6	4.9	21.5
4/10/2019	8.1	88.1	0.3	13.6	4.9	21.6
4/11/2019	8.6	64.3	0.2	13.4	4.8	21.2
4/12/2019	9.0	66.2	0.2	13.2	4.7	20.9
4/13/2019	7.2	73.8	0.4	13.0	4.7	20.6
4/14/2019	7.4	65.3	0.2	13.0	4.7	20.6
4/15/2019	6.9	62.2	0.2	13.0	4.7	20.6
4/16/2019	7.8	64.7	0.1	13.1	4.7	20.8
4/17/2019	8.7	66.4	0.4	13.2	4.7	20.9
4/18/2019	7.7	74.9	0.3	13.5	4.8	21.3
4/19/2019	7.6	74.3	0.4	13.1	4.7	20.8
4/20/2019	7.2	69.2	0.3	12.5	4.5	19.9
4/21/2019	7.7	59.4	0.3	11.3	4.1	17.9
4/22/2019	6.5	15.3	0.3	7.2	2.6	11.5
4/23/2019	7.6	19.8	0.3	7.6	2.7	12.1
4/24/2019	6.5	20.7	0.3	7.7	2.8	12.2
4/25/2019	5.1	19.3	0.3	7.4	2.6	11.7
4/26/2019	7.2	34.7	0.3	8.8	3.1	13.9
4/27/2019	18.3	58.7	0.2	16.2	5.8	25.6
4/28/2019	10.4	46.9	0.2	16.2	5.8	25.6
4/29/2019	10.5	47.6	0.2	16.2	5.8	25.6
4/30/2019	9.4	53.0	0.2	16.4	5.9	26.0

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 DAILY MASS RATES (lb/day)

	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
5/1/2019	10.1	53.1	0.1	16.8	6.0	26.5
5/2/2019	11.4	52.6	0.3	17.2	6.2	27.2
5/3/2019	21.5	46.7	0.3	18.5	6.6	29.3
5/4/2019	13.2	43.4	0.4	17.6	6.3	27.9
5/5/2019	37.1	39.5	0.9	20.6	7.4	32.6
5/6/2019	67.0	51.8	3.3	22.1	7.9	35.0
5/7/2019	79.1	51.2	8.9	26.3	9.4	41.7
5/8/2019	85.5	49.3	10.0	28.8	10.3	45.6
5/9/2019	89.3	53.8	6.0	30.4	10.9	48.1
5/10/2019	89.0	50.4	5.9	30.5	10.9	48.3
5/11/2019	86.0	61.9	3.2	29.3	10.5	46.4
5/12/2019	89.6	49.5	4.4	30.7	11.0	48.7
5/13/2019	93.5	45.5	9.4	31.5	11.3	49.9
5/14/2019	90.7	52.5	4.5	30.8	11.0	48.7
5/15/2019	83.6	76.9	1.6	28.6	10.2	45.2
5/16/2019	90.6	55.0	3.1	30.9	11.1	48.9
5/17/2019	91.8	91.7	3.0	31.7	11.3	50.1
5/18/2019	91.6	109.0	2.2	31.6	11.3	50.1
5/19/2019	90.6	54.4	4.2	30.7	11.0	48.6
5/20/2019	91.3	53.7	4.7	31.0	11.1	49.1
5/21/2019	90.9	52.1	5.8	30.7	11.0	48.6
5/22/2019	90.9	48.9	13.1	29.2	10.5	46.2
5/23/2019	88.5	50.6	14.5	29.6	10.6	46.9
5/24/2019	90.5	43.3	11.7	32.1	11.5	50.8
5/25/2019	90.1	43.2	9.2	31.7	11.4	50.2
5/26/2019	90.7	41.9	9.1	31.8	11.4	50.3
5/27/2019	88.6	40.1	10.5	31.2	11.2	49.4
5/28/2019	79.2	28.5	9.5	28.1	10.1	44.5
5/29/2019	83.5	40.9	10.5	29.3	10.5	46.4
5/30/2019	86.9	51.7	9.4	30.8	11.0	48.8
5/31/2019	86.6	53.8	10.2	30.8	11.0	48.7
6/1/2019	86.5	52.6	11.7	30.5	10.9	48.3
6/2/2019	86.8	53.9	9.6	30.2	10.8	47.9
6/3/2019	86.7	56.0	8.0	29.5	10.6	46.7
6/4/2019	84.5	58.6	8.1	29.6	10.6	46.8
6/5/2019	84.8	60.2	7.0	29.2	10.4	46.2
6/6/2019	85.5	59.1	6.4	28.7	10.3	45.5
6/7/2019	85.0	57.9	6.7	29.0	10.4	25.6
6/8/2019	84.7	62.4	8.2	29.7	10.7	26.3
6/9/2019	82.1	55.3	11.7	28.7	10.3	25.4
6/10/2019	76.9	37.6	21.9	27.0	9.7	23.9
6/11/2019	80.4	43.3	41.1	27.2	9.7	24.0
6/12/2019	77.2	49.1	38.7	26.4	9.4	23.3
6/13/2019	79.8	52.1	15.4	27.7	9.9	24.5
6/14/2019	87.3	52.6	13.1	29.4	10.5	26.0
6/15/2019	87.0	52.3	10.3	29.1	10.4	25.8
6/16/2019	86.8	51.6	10.6	29.0	10.4	25.7
6/17/2019	86.3	50.1	13.2	29.5	10.6	26.1
6/18/2019	86.6	50.6	13.3	29.4	10.5	26.0
6/19/2019	86.8	50.3	13.2	29.3	10.5	25.9
6/20/2019	86.9	51.0	12.9	29.0	10.4	25.6
6/21/2019	86.7	51.6	13.4	28.3	10.2	25.1
6/22/2019	86.8	51.7	15.9	28.8	10.3	25.5
6/23/2019	86.6	52.6	15.4	28.4	10.2	25.1
6/24/2019	86.5	51.9	14.8	28.4	10.2	25.1
6/25/2019	86.6	51.9	14.8	28.5	10.2	25.2
6/26/2019	87.1	52.2	13.2	28.5	10.2	25.2
6/27/2019	87.5	53.7	17.9	28.4	10.2	25.1
6/28/2019	87.6	53.7	21.5	29.2	10.4	25.8
6/29/2019	87.6	53.3	18.1	29.0	10.4	25.6
6/30/2019	91.2	45.3	24.4	30.4	10.9	26.9

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 DAILY MASS RATES (lb/day)

	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
7/1/2019	94.3	37.7	27.5	31.4	11.2	27.8
7/2/2019	93.3	37.4	28.0	31.2	11.2	27.6
7/3/2019	94.0	35.9	29.4	31.0	11.1	27.4
7/4/2019	94.2	39.8	35.4	31.5	11.3	27.8
7/5/2019	94.2	36.0	26.7	31.1	11.1	27.5
7/6/2019	94.1	35.5	25.0	31.2	11.2	27.6
7/7/2019	94.0	36.0	24.3	31.3	11.2	27.7
7/8/2019	94.0	38.2	16.2	31.5	11.3	27.8
7/9/2019	93.9	38.7	14.3	31.2	11.2	27.6
7/10/2019	94.2	37.8	13.8	31.1	11.1	27.5
7/11/2019	94.1	37.7	16.2	31.0	11.1	27.5
7/12/2019	93.6	37.7	16.0	30.9	11.1	27.4
7/13/2019	90.8	43.6	16.1	30.2	10.8	26.7
7/14/2019	82.6	68.2	10.3	27.3	9.8	24.2
7/15/2019	82.5	71.5	24.8	26.8	9.6	23.7
7/16/2019	83.0	68.1	22.7	27.1	9.7	24.0
7/17/2019	82.3	66.9	22.5	27.2	9.8	24.1
7/18/2019	82.4	67.7	23.6	27.2	9.7	24.0
7/19/2019	82.5	68.8	23.7	27.6	9.9	24.4
7/20/2019	82.6	70.7	21.9	27.5	9.9	24.4
7/21/2019	82.4	70.2	22.1	27.4	9.8	24.3
7/22/2019	82.2	69.4	25.1	27.2	9.7	24.0
7/23/2019	82.4	69.5	24.1	27.8	10.0	24.6
7/24/2019	81.9	69.2	22.7	28.0	10.0	24.7
7/25/2019	82.3	68.4	19.6	27.3	9.8	24.1
7/26/2019	83.1	69.4	17.4	27.2	9.8	24.1
7/27/2019	82.6	70.1	17.2	27.5	9.8	24.3
7/28/2019	82.6	69.5	18.4	26.8	9.6	23.7
7/29/2019	77.1	49.7	19.4	25.0	9.0	22.1
7/30/2019	77.5	50.2	19.7	25.2	9.0	22.3
7/31/2019	77.9	51.3	20.1	25.4	9.1	22.4
8/1/2019	80.1	45.4	18.7	25.3	9.1	22.4
8/2/2019	80.8	34.9	20.2	24.6	8.8	21.7
8/3/2019	80.3	33.5	20.5	24.5	8.8	21.6
8/4/2019	80.8	36.6	20.7	25.3	9.1	22.3
8/5/2019	84.8	49.2	16.2	25.4	9.1	22.5
8/6/2019	86.7	54.2	17.5	27.3	9.8	24.1
8/7/2019	77.4	48.8	13.8	26.4	9.4	23.3
8/8/2019	86.8	54.6	13.8	27.7	9.9	24.4
8/9/2019	81.7	50.7	16.2	25.8	9.2	22.8
8/10/2019	54.4	30.7	12.0	13.3	4.8	11.7
8/11/2019	84.0	76.2	15.3	26.8	9.6	23.7
8/12/2019	84.6	79.2	13.8	27.1	9.7	23.9
8/13/2019	83.2	85.8	13.5	26.7	9.6	23.6
8/14/2019	86.1	72.8	28.9	27.1	9.7	23.9
8/15/2019	86.0	65.6	19.3	27.1	9.7	23.9
8/16/2019	86.9	59.9	31.1	27.5	9.9	24.3
8/17/2019	86.8	59.3	23.6	27.5	9.9	24.3
8/18/2019	86.5	60.7	18.1	27.5	9.8	24.3
8/19/2019	86.4	62.4	18.2	27.3	9.8	24.1
8/20/2019	86.1	64.3	17.5	27.4	9.8	24.2
8/21/2019	85.6	64.5	15.9	27.6	9.9	24.4
8/22/2019	85.3	86.2	13.4	27.8	10.0	24.5
8/23/2019	86.5	63.3	12.8	27.6	9.9	24.4
8/24/2019	86.7	62.9	11.7	27.6	9.9	24.4
8/25/2019	86.7	62.9	12.1	27.5	9.9	24.3
8/26/2019	86.8	62.4	11.4	27.5	9.9	24.3
8/27/2019	86.5	61.7	11.2	28.2	10.1	24.9
8/28/2019	86.6	61.7	10.4	28.5	10.2	25.1
8/29/2019	86.8	60.9	11.4	28.6	10.3	25.3
8/30/2019	86.7	61.9	12.8	28.5	10.2	25.2
8/31/2019	86.5	62.6	13.8	28.3	10.2	25.0

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 DAILY MASS RATES (lb/day)

	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
9/1/2019	86.4	62.0	13.3	28.3	10.1	25.0
9/2/2019	86.6	61.6	12.1	28.2	10.1	24.9
9/3/2019	87.0	63.0	11.8	28.9	10.3	25.5
9/4/2019	86.7	64.7	12.6	28.8	10.3	25.4
9/5/2019	86.7	63.9	11.4	28.2	10.1	24.9
9/6/2019	86.8	62.7	12.0	29.9	10.7	26.4
9/7/2019	86.8	64.7	13.6	29.9	10.7	26.4
9/8/2019	87.0	63.7	21.5	29.6	10.6	26.2
9/9/2019	86.9	65.6	75.3	28.8	10.3	25.4
9/10/2019	86.6	63.2	13.7	28.2	10.1	24.9
9/11/2019	86.7	67.1	11.5	28.4	10.2	25.1
9/12/2019	86.4	67.4	11.8	28.1	10.1	24.8
9/13/2019	86.2	64.8	11.5	28.4	10.2	25.1
9/14/2019	86.2	64.3	11.9	28.6	10.3	25.3
9/15/2019	86.2	62.6	12.4	29.0	10.4	25.6
9/16/2019	86.6	63.0	11.1	28.5	10.2	25.2
9/17/2019	86.6	61.2	16.4	28.6	10.3	25.3
9/18/2019	81.1	55.1	14.1	28.6	10.2	25.2
9/19/2019	85.2	63.8	11.2	28.6	10.3	25.3
9/20/2019	95.7	57.0	12.6	29.0	10.4	25.6
9/21/2019	92.6	82.8	167.9	29.7	10.6	26.2
9/22/2019	88.4	142.1	77.5	28.8	10.3	25.5
9/23/2019	89.2	113.3	24.9	27.4	9.8	24.2
9/24/2019	88.4	65.9	15.4	28.6	10.2	25.2
9/25/2019	87.2	57.1	20.8	30.4	10.9	26.9
9/26/2019	88.2	57.3	17.3	28.6	10.3	25.3
9/27/2019	88.0	58.9	14.4	28.8	10.3	25.4
9/28/2019	87.7	57.6	12.8	28.6	10.3	25.3
9/29/2019	88.0	58.4	13.2	28.6	10.2	25.2
9/30/2019	87.8	59.8	13.7	28.8	10.3	25.4
10/1/2019	88.0	58.2	12.9	29.3	10.5	25.9
10/2/2019	88.1	57.7	13.9	29.2	10.5	25.8
10/3/2019	88.1	58.8	13.0	29.2	10.4	25.8
10/4/2019	88.4	59.0	14.5	29.3	10.5	25.9
10/5/2019	88.4	61.4	14.2	29.1	10.4	25.7
10/6/2019	88.2	61.4	16.0	29.7	10.6	26.2
10/7/2019	88.0	61.5	15.7	29.5	10.6	26.1
10/8/2019	87.8	61.2	17.1	29.6	10.6	26.2
10/9/2019	87.1	70.3	16.5	29.4	10.5	25.9
10/10/2019	87.9	61.7	15.9	29.6	10.6	26.1
10/11/2019	87.9	61.7	16.4	29.5	10.6	26.0
10/12/2019	87.8	61.8	17.0	30.1	10.8	26.6
10/13/2019	87.7	61.5	19.7	29.8	10.7	26.3
10/14/2019	88.3	62.4	17.1	30.9	11.1	27.3
10/15/2019	89.5	60.7	19.0	32.9	11.8	29.1
10/16/2019	89.2	60.5	17.8	29.1	10.4	25.7
10/17/2019	88.6	62.8	16.7	28.9	10.3	25.5
10/18/2019	89.6	61.2	16.6	31.2	11.2	27.6
10/19/2019	88.8	64.4	17.0	31.4	11.3	27.8
10/20/2019	87.1	66.0	12.7	29.3	10.5	25.9
10/21/2019	89.5	69.5	12.6	29.4	10.5	26.0
10/22/2019	88.6	70.1	14.8	29.2	10.5	25.8
10/23/2019	86.5	66.8	13.1	29.3	10.5	25.9
10/24/2019	85.7	65.9	12.9	28.6	10.3	25.3
10/25/2019	85.4	66.8	12.5	28.5	10.2	25.2
10/26/2019	86.2	65.9	15.3	28.3	10.1	25.0
10/27/2019	80.3	48.3	18.8	28.1	10.1	24.8
10/28/2019	70.9	33.6	18.4	28.2	10.1	24.9
10/29/2019	81.3	26.5	16.4	27.9	10.0	24.7
10/30/2019	81.8	28.0	15.9	28.1	10.1	24.8
10/31/2019	82.5	28.0	17.5	28.1	10.1	24.8

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 DAILY MASS RATES (lb/day)

	NOx	CO	SO ₂	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾ (H ₂ SO ₄)
11/1/2019	83.2	27.9	17.2	28.1	10.1	24.8
11/2/2019	83.3	28.6	19.0	28.0	10.0	24.8
11/3/2019	83.5	29.0	19.8	28.0	10.0	24.8
11/4/2019	82.9	31.4	21.7	27.9	10.0	24.6
11/5/2019	84.9	37.1	22.7	27.8	9.9	24.5
11/6/2019	85.9	42.3	22.5	28.0	10.0	24.7
11/7/2019	86.2	44.4	22.0	28.2	10.1	24.9
11/8/2019	86.1	45.2	19.4	28.0	10.0	24.7
11/9/2019	86.7	46.2	19.0	27.8	10.0	24.6
11/10/2019	84.9	56.1	16.0	27.7	9.9	24.5
11/11/2019	81.4	176.3	14.5	27.7	9.9	24.5
11/12/2019	83.1	30.7	13.3	27.6	9.9	24.4
11/13/2019	84.3	35.6	11.9	27.6	9.9	24.4
11/14/2019	86.0	40.4	12.9	27.3	9.8	24.2
11/15/2019	85.7	38.4	15.1	27.5	9.8	24.3
11/16/2019	85.5	36.2	14.0	27.7	9.9	24.5
11/17/2019	84.3	34.0	10.1	27.7	9.9	24.5
11/18/2019	83.5	33.4	11.4	28.1	10.1	24.8
11/19/2019	84.9	34.9	12.4	27.8	10.0	24.6
11/20/2019	83.2	29.7	11.1	27.5	9.9	24.3
11/21/2019	85.2	40.1	12.8	26.3	9.4	23.3
11/22/2019	85.4	40.3	12.9	25.9	9.3	22.9
11/23/2019	84.2	34.5	12.9	26.1	9.4	23.1
11/24/2019	84.7	37.8	13.2	26.1	9.4	23.1
11/25/2019	85.3	35.6	14.1	26.6	9.5	23.5
11/26/2019	86.7	41.2	13.7	26.1	9.4	23.1
11/27/2019	87.3	42.5	14.3	25.7	9.2	22.8
11/28/2019	87.9	46.4	13.3	25.7	9.2	22.8
11/29/2019	87.8	44.1	12.5	25.7	9.2	22.8
11/30/2019	88.3	48.2	10.1	25.7	9.2	22.7
12/1/2019	87.2	46.8	10.5	26.0	9.3	23.0
12/2/2019	86.5	49.6	8.9	26.5	9.5	23.4
12/3/2019	84.7	50.5	7.5	26.0	9.3	23.0
12/4/2019	86.6	63.6	15.1	26.5	9.5	23.4
12/5/2019	86.2	46.8	10.0	26.6	9.5	23.5
12/6/2019	84.9	40.8	9.1	26.3	9.4	23.3
12/7/2019	83.8	38.4	11.1	25.5	9.1	22.6
12/8/2019	80.3	39.1	9.5	25.6	9.2	22.6
12/9/2019	25.3	10.7	6.1	3.3	1.2	2.9
12/10/2019	25.8	13.4	8.5	3.3	1.2	2.9
12/11/2019	25.3	15.3	11.1	3.3	1.2	2.9
12/12/2019	25.6	14.7	11.1	3.3	1.2	2.9
12/13/2019	25.6	12.8	10.4	3.4	1.2	3.0
12/14/2019	24.9	12.9	10.0	3.3	1.2	2.9
12/15/2019	24.6	14.4	10.6	3.4	1.2	3.0
12/16/2019	48.0	47.8	6.6	26.3	9.4	23.2
12/17/2019	85.5	98.4	6.9	27.7	9.9	24.5
12/18/2019	85.0	98.5	7.0	27.7	9.9	24.5
12/19/2019	83.7	94.4	6.8	27.7	9.9	24.4
12/20/2019	82.5	80.6	12.6	27.7	9.9	24.5
12/21/2019	82.2	69.5	21.1	26.4	9.5	23.4
12/22/2019	82.2	74.4	14.5	25.3	9.1	22.4
12/23/2019	84.0	77.9	4.6	27.6	9.9	24.4
12/24/2019	85.5	81.0	1.5	27.5	9.9	24.3
12/25/2019	84.8	81.0	1.4	27.6	9.9	24.4
12/26/2019	84.5	69.0	1.6	27.6	9.9	24.4
12/27/2019	84.4	66.5	1.7	27.6	9.9	24.4
12/28/2019	83.6	65.0	1.4	27.6	9.9	24.4
12/29/2019	82.5	62.0	1.3	27.6	9.9	24.4
12/30/2019	79.5	44.8	1.1	27.6	9.9	24.4
12/31/2019	78.2	44.5	1.1	27.5	9.9	24.3

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 365-DAY ROLLING AVERAGE CUMULATIVE TOTAL (tons/yr)

	NOx	CO	SO ₂	PM ₁₀	POC	SAM ⁽³⁾ (H ₂ SO ₄)
1/1/2019	13.7	12.2	2.0	6.9	2.2	4.3
1/2/2019	13.7	12.2	2.0	6.9	2.2	4.3
1/3/2019	13.7	12.2	2.0	6.9	2.2	4.3
1/4/2019	13.7	12.3	2.0	6.9	2.2	4.3
1/5/2019	13.7	12.3	2.0	6.9	2.2	4.3
1/6/2019	13.7	12.3	2.0	6.9	2.2	4.3
1/7/2019	13.7	12.3	2.0	6.9	2.2	4.3
1/8/2019	13.7	12.4	2.0	6.9	2.2	4.3
1/9/2019	13.7	12.4	2.0	6.9	2.2	4.3
1/10/2019	13.7	12.5	2.0	6.9	2.2	4.3
1/11/2019	13.8	12.5	2.0	6.9	2.2	4.3
1/12/2019	13.8	12.5	2.0	6.9	2.2	4.3
1/13/2019	13.8	12.5	2.0	6.9	2.2	4.3
1/14/2019	13.8	12.6	2.1	6.9	2.2	4.3
1/15/2019	13.8	12.6	2.1	6.9	2.2	4.3
1/16/2019	13.8	12.6	2.1	6.9	2.2	4.3
1/17/2019	13.8	12.6	2.1	6.9	2.2	4.3
1/18/2019	13.8	12.7	2.1	6.9	2.2	4.3
1/19/2019	13.7	12.6	2.1	6.9	2.2	4.3
1/20/2019	13.7	12.6	2.1	6.9	2.2	4.3
1/21/2019	13.7	12.5	2.1	6.8	2.2	4.3
1/22/2019	13.6	12.5	2.1	6.8	2.2	4.3
1/23/2019	13.6	12.5	2.1	6.8	2.2	4.3
1/24/2019	13.5	12.4	2.1	6.8	2.2	4.2
1/25/2019	13.5	12.4	2.1	6.8	2.2	4.2
1/26/2019	13.5	12.4	2.1	6.7	2.2	4.2
1/27/2019	13.5	12.4	2.1	6.7	2.2	4.2
1/28/2019	13.5	12.4	2.1	6.7	2.2	4.2
1/29/2019	13.5	12.4	2.1	6.8	2.2	4.2
1/30/2019	13.6	12.5	2.1	6.8	2.2	4.3
1/31/2019	13.6	12.5	2.1	6.8	2.2	4.3
2/1/2019	13.7	12.6	2.1	6.8	2.2	4.3
2/2/2019	13.7	12.6	2.1	6.8	2.2	4.3
2/3/2019	13.7	12.6	2.1	6.8	2.2	4.3
2/4/2019	13.7	12.6	2.1	6.8	2.2	4.3
2/5/2019	13.7	12.6	2.1	6.8	2.2	4.3
2/6/2019	13.7	12.6	2.1	6.8	2.2	4.3
2/7/2019	13.7	12.7	2.1	6.8	2.2	4.3
2/8/2019	13.7	12.7	2.1	6.8	2.2	4.3
2/9/2019	13.7	12.7	2.1	6.8	2.2	4.3
2/10/2019	13.7	12.7	2.1	6.8	2.2	4.3
2/11/2019	13.7	12.7	2.1	6.8	2.2	4.3
2/12/2019	13.7	12.7	2.1	6.8	2.2	4.3
2/13/2019	13.7	12.7	2.2	6.8	2.2	4.3
2/14/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/15/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/16/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/17/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/18/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/19/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/20/2019	13.7	12.8	2.2	6.8	2.2	4.3
2/21/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/22/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/23/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/24/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/25/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/26/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/27/2019	13.7	12.9	2.2	6.8	2.2	4.3
2/28/2019	13.7	12.9	2.2	6.8	2.2	4.3

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 365-DAY ROLLING AVERAGE CUMULATIVE TOTAL (tons/yr)

	NO _x	CO	SO ₂	PM ₁₀	POC	SAM ⁽³⁾ (H ₂ SO ₄)
3/1/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/2/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/3/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/4/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/5/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/6/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/7/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/8/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/9/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/10/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/11/2019	13.7	12.9	2.2	6.8	2.2	4.3
3/12/2019	13.7	12.9	2.2	6.9	2.2	4.3
3/13/2019	13.7	12.9	2.2	6.9	2.2	4.3
3/14/2019	13.7	13.0	2.2	6.9	2.2	4.3
3/15/2019	13.7	13.0	2.2	6.9	2.2	4.3
3/16/2019	13.7	13.0	2.3	6.9	2.2	4.3
3/17/2019	13.7	13.0	2.3	6.9	2.2	4.3
3/18/2019	13.7	13.0	2.3	6.9	2.2	4.4
3/19/2019	13.7	13.0	2.3	6.8	2.2	4.4
3/20/2019	13.7	13.0	2.3	6.8	2.2	4.4
3/21/2019	13.8	13.0	2.3	6.8	2.2	4.4
3/22/2019	13.8	13.1	2.3	6.8	2.2	4.4
3/23/2019	13.8	13.1	2.3	6.8	2.2	4.4
3/24/2019	13.8	13.1	2.3	6.8	2.2	4.4
3/25/2019	13.8	13.1	2.4	6.8	2.2	4.4
3/26/2019	13.7	13.0	2.3	6.8	2.2	4.4
3/27/2019	13.7	13.1	2.3	6.8	2.2	4.4
3/28/2019	13.7	13.0	2.3	6.8	2.2	4.4
3/29/2019	13.7	13.1	2.3	6.8	2.2	4.4
3/30/2019	13.6	13.1	2.3	6.8	2.2	4.4
3/31/2019	13.6	13.1	2.3	6.8	2.2	4.4
4/1/2019	13.6	13.1	2.3	6.7	2.2	4.4
4/2/2019	13.5	13.1	2.3	6.7	2.2	4.4
4/3/2019	13.5	13.1	2.3	6.7	2.2	4.4
4/4/2019	13.5	13.1	2.3	6.7	2.2	4.4
4/5/2019	13.4	13.1	2.3	6.7	2.2	4.4
4/6/2019	13.4	13.1	2.3	6.7	2.2	4.4
4/7/2019	13.4	13.2	2.3	6.7	2.2	4.4
4/8/2019	13.3	13.2	2.3	6.7	2.1	4.4
4/9/2019	13.3	13.2	2.3	6.6	2.1	4.4
4/10/2019	13.3	13.2	2.3	6.6	2.1	4.4
4/11/2019	13.2	13.2	2.3	6.6	2.1	4.4
4/12/2019	13.2	13.2	2.3	6.6	2.1	4.4
4/13/2019	13.1	13.2	2.3	6.6	2.1	4.4
4/14/2019	13.1	13.2	2.3	6.6	2.1	4.4
4/15/2019	13.1	13.2	2.3	6.6	2.1	4.4
4/16/2019	13.1	13.3	2.3	6.6	2.1	4.4
4/17/2019	13.1	13.3	2.3	6.6	2.1	4.4
4/18/2019	13.1	13.3	2.3	6.6	2.1	4.4
4/19/2019	13.0	13.4	2.3	6.6	2.1	4.4
4/20/2019	13.0	13.4	2.3	6.6	2.1	4.4
4/21/2019	13.0	13.4	2.3	6.5	2.1	4.4
4/22/2019	12.9	13.4	2.3	6.5	2.1	4.4
4/23/2019	12.9	13.4	2.3	6.5	2.1	4.4
4/24/2019	12.9	13.4	2.3	6.5	2.1	4.4
4/25/2019	12.8	13.4	2.3	6.5	2.1	4.4
4/26/2019	12.8	13.4	2.3	6.5	2.1	4.4
4/27/2019	12.8	13.4	2.3	6.5	2.1	4.4
4/28/2019	12.7	13.4	2.2	6.4	2.1	4.4
4/29/2019	12.7	13.4	2.2	6.4	2.1	4.4
4/30/2019	12.7	13.4	2.2	6.4	2.1	4.4

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 365-DAY ROLLING AVERAGE CUMULATIVE TOTAL (tons/yr)

	NO _x	CO	SO ₂	PM ₁₀	POC	SAM ⁽³⁾ (H ₂ SO ₄)
5/1/2019	12.6	13.4	2.2	6.4	2.1	4.4
5/2/2019	12.6	13.4	2.2	6.4	2.1	4.4
5/3/2019	12.6	13.4	2.2	6.4	2.1	4.4
5/4/2019	12.6	13.4	2.2	6.4	2.1	4.4
5/5/2019	12.6	13.4	2.2	6.4	2.1	4.4
5/6/2019	12.6	13.5	2.2	6.4	2.1	4.4
5/7/2019	12.6	13.5	2.1	6.4	2.1	4.5
5/8/2019	12.7	13.5	2.1	6.4	2.1	4.5
5/9/2019	12.7	13.5	2.1	6.4	2.1	4.5
5/10/2019	12.7	13.5	2.1	6.4	2.1	4.5
5/11/2019	12.7	13.5	2.1	6.4	2.1	4.5
5/12/2019	12.7	13.5	2.1	6.4	2.1	4.5
5/13/2019	12.7	13.5	2.1	6.3	2.1	4.5
5/14/2019	12.7	13.5	2.1	6.3	2.1	4.5
5/15/2019	12.7	13.5	2.1	6.3	2.1	4.5
5/16/2019	12.7	13.5	2.1	6.3	2.1	4.6
5/17/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/18/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/19/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/20/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/21/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/22/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/23/2019	12.7	13.6	2.1	6.3	2.1	4.6
5/24/2019	12.7	13.6	2.1	6.3	2.0	4.7
5/25/2019	12.7	13.6	2.1	6.3	2.0	4.7
5/26/2019	12.7	13.6	2.1	6.3	2.0	4.7
5/27/2019	12.7	13.6	2.1	6.3	2.0	4.7
5/28/2019	12.7	13.6	2.1	6.3	2.0	4.7
5/29/2019	12.8	13.6	2.1	6.3	2.0	4.7
5/30/2019	12.8	13.6	2.1	6.3	2.0	4.7
5/31/2019	12.8	13.6	2.1	6.3	2.0	4.7
6/1/2019	12.8	13.6	2.1	6.3	2.0	4.7
6/2/2019	12.8	13.6	2.1	6.3	2.0	4.8
6/3/2019	12.8	13.6	2.1	6.2	2.0	4.8
6/4/2019	12.8	13.6	2.1	6.2	2.0	4.8
6/5/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/6/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/7/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/8/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/9/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/10/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/11/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/12/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/13/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/14/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/15/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/16/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/17/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/18/2019	12.8	13.7	2.1	6.2	2.0	4.8
6/19/2019	12.8	13.7	2.1	6.1	2.0	4.8
6/20/2019	12.8	13.7	2.1	6.1	2.0	4.8
6/21/2019	12.8	13.7	2.1	6.1	2.0	4.8
6/22/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/23/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/24/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/25/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/26/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/27/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/28/2019	12.8	13.8	2.2	6.1	2.0	4.8
6/29/2019	12.8	13.8	2.1	6.1	2.0	4.8
6/30/2019	12.8	13.8	2.1	6.1	2.0	4.8

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 365-DAY ROLLING AVERAGE CUMULATIVE TOTAL (tons/yr)

	NO _x	CO	SO ₂	PM ₁₀	POC	SAM ⁽³⁾ (H ₂ SO ₄)
7/1/2019	12.8	13.8	2.1	6.1	2.0	4.8
7/2/2019	12.8	13.8	2.1	6.1	2.0	4.8
7/3/2019	12.8	13.8	2.1	6.1	2.0	4.8
7/4/2019	12.8	13.8	2.1	6.1	2.0	4.8
7/5/2019	12.8	13.8	2.1	6.0	2.0	4.8
7/6/2019	12.8	13.8	2.1	6.0	2.0	4.8
7/7/2019	12.8	13.8	2.2	6.0	2.0	4.8
7/8/2019	12.8	13.8	2.2	6.0	2.0	4.8
7/9/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/10/2019	12.9	13.8	2.2	6.1	2.0	4.8
7/11/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/12/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/13/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/14/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/15/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/16/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/17/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/18/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/19/2019	12.9	13.8	2.2	6.0	2.0	4.8
7/20/2019	12.9	13.9	2.2	6.0	2.0	4.8
7/21/2019	12.9	13.9	2.2	6.0	2.0	4.8
7/22/2019	12.9	13.9	2.2	6.0	2.0	4.8
7/23/2019	12.9	13.9	2.2	6.0	2.0	4.8
7/24/2019	12.9	13.9	2.2	6.0	2.0	4.8
7/25/2019	12.9	13.9	2.2	6.0	2.0	4.8
7/26/2019	12.9	13.9	2.2	5.9	2.0	4.8
7/27/2019	12.9	13.9	2.2	5.9	2.0	4.8
7/28/2019	12.9	13.9	2.2	5.9	2.0	4.8
7/29/2019	12.9	13.9	2.2	5.9	2.0	4.8
7/30/2019	12.9	13.9	2.2	5.9	2.0	4.8
7/31/2019	12.9	13.9	2.2	5.9	2.0	4.8
8/1/2019	12.9	13.9	2.2	5.9	2.0	4.8
8/2/2019	12.9	13.9	2.2	5.9	2.0	4.8
8/3/2019	12.9	13.9	2.2	5.9	2.0	4.8
8/4/2019	12.9	13.9	2.2	5.9	2.0	4.8
8/5/2019	12.9	13.9	2.2	5.9	2.0	4.8
8/6/2019	13.0	13.9	2.2	5.9	2.0	4.8
8/7/2019	12.9	13.8	2.2	5.9	2.0	4.8
8/8/2019	13.0	13.8	2.2	5.9	2.0	4.8
8/9/2019	13.0	13.8	2.2	5.9	2.0	4.8
8/10/2019	12.9	13.8	2.2	5.9	1.9	4.8
8/11/2019	12.9	13.8	2.2	5.8	1.9	4.8
8/12/2019	12.9	13.8	2.1	5.8	1.9	4.8
8/13/2019	12.9	13.8	2.1	5.8	1.9	4.8
8/14/2019	12.9	13.8	2.1	5.8	1.9	4.8
8/15/2019	12.9	13.8	2.1	5.8	1.9	4.8
8/16/2019	12.9	13.8	2.1	5.8	1.9	4.8
8/17/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/18/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/19/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/20/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/21/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/22/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/23/2019	13.0	13.7	2.1	5.8	1.9	4.8
8/24/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/25/2019	13.0	13.8	2.1	5.8	1.9	4.8
8/26/2019	13.0	13.7	2.1	5.7	1.9	4.8
8/27/2019	13.0	13.7	2.1	5.7	1.9	4.8
8/28/2019	13.0	13.7	2.1	5.7	1.9	4.8
8/29/2019	13.0	13.7	2.1	5.7	1.9	4.8
8/30/2019	13.0	13.7	2.1	5.7	1.9	4.8
8/31/2019	13.0	13.7	2.1	5.7	1.9	4.8

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 365-DAY ROLLING AVERAGE CUMULATIVE TOTAL (tons/yr)

	NO _x	CO	SO ₂	PM ₁₀	POC	SAM ⁽³⁾ (H ₂ SO ₄)
9/1/2019	13.0	13.7	2.1	5.7	1.9	4.8
9/2/2019	13.0	13.7	2.1	5.7	1.9	4.8
9/3/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/4/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/5/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/6/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/7/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/8/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/9/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/10/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/11/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/12/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/13/2019	13.0	13.6	2.1	5.7	1.9	4.8
9/14/2019	13.1	13.6	2.1	5.7	1.9	4.8
9/15/2019	13.1	13.6	2.1	5.6	1.9	4.8
9/16/2019	13.1	13.6	2.1	5.6	1.9	4.8
9/17/2019	13.1	13.5	2.1	5.6	1.9	4.8
9/18/2019	13.1	13.5	2.1	5.6	1.9	4.8
9/19/2019	13.1	13.5	2.1	5.6	1.9	4.8
9/20/2019	13.1	13.5	2.1	5.6	1.9	4.8
9/21/2019	13.1	13.5	2.2	5.6	1.9	4.8
9/22/2019	13.1	13.5	2.2	5.6	1.9	4.8
9/23/2019	13.1	13.5	2.2	5.6	1.9	4.8
9/24/2019	13.1	13.4	2.2	5.6	1.9	4.8
9/25/2019	13.1	13.4	2.2	5.6	1.9	4.8
9/26/2019	13.1	13.4	2.2	5.6	1.9	4.8
9/27/2019	13.1	13.4	2.2	5.6	1.9	4.8
9/28/2019	13.1	13.3	2.2	5.6	1.9	4.8
9/29/2019	13.1	13.3	2.2	5.6	1.9	4.8
9/30/2019	13.1	13.3	2.2	5.6	1.9	4.8
10/1/2019	13.1	13.2	2.2	5.5	1.9	4.8
10/2/2019	13.1	13.2	2.2	5.5	1.9	4.8
10/3/2019	13.1	13.2	2.2	5.5	1.9	4.8
10/4/2019	13.1	13.1	2.2	5.5	1.9	4.8
10/5/2019	13.1	13.1	2.2	5.5	1.9	4.8
10/6/2019	13.1	13.1	2.2	5.5	1.9	4.8
10/7/2019	13.1	13.0	2.2	5.5	1.9	4.8
10/8/2019	13.1	13.0	2.2	5.5	1.9	4.8
10/9/2019	13.1	13.0	2.2	5.5	1.9	4.8
10/10/2019	13.1	13.0	2.2	5.5	1.9	4.8
10/11/2019	13.1	13.0	2.2	5.5	1.9	4.8
10/12/2019	13.2	13.0	2.2	5.5	1.9	4.8
10/13/2019	13.2	13.0	2.2	5.5	1.9	4.8
10/14/2019	13.2	12.9	2.2	5.5	1.9	4.8
10/15/2019	13.2	12.9	2.2	5.5	1.9	4.8
10/16/2019	13.2	12.9	2.2	5.5	1.9	4.8
10/17/2019	13.2	12.9	2.2	5.5	1.9	4.8
10/18/2019	13.2	12.9	2.2	5.5	1.9	4.8
10/19/2019	13.2	12.9	2.2	5.5	1.9	4.8
10/20/2019	13.2	12.8	2.2	5.5	1.9	4.8
10/21/2019	13.2	12.8	2.2	5.5	1.9	4.8
10/22/2019	13.2	12.8	2.2	5.5	1.9	4.8
10/23/2019	13.2	12.8	2.2	5.5	1.9	4.8
10/24/2019	13.3	12.8	2.2	5.5	1.9	4.8
10/25/2019	13.3	12.7	2.2	5.5	1.9	4.8
10/26/2019	13.3	12.7	2.2	5.5	1.9	4.8
10/27/2019	13.3	12.7	2.2	5.5	1.9	4.9
10/28/2019	13.3	12.7	2.2	5.5	1.9	4.9
10/29/2019	13.3	12.6	2.2	5.5	1.9	4.9
10/30/2019	13.3	12.6	2.2	5.5	1.9	4.9
10/31/2019	13.3	12.5	2.2	5.5	1.9	4.9

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

GT/SG4901 365-DAY ROLLING AVERAGE CUMULATIVE TOTAL (tons/yr)

	NO _x	CO	SO ₂	PM ₁₀	POC	SAM ⁽³⁾ (H ₂ SO ₄)
11/1/2019	13.3	12.5	2.2	5.4	1.9	4.9
11/2/2019	13.3	12.5	2.2	5.4	1.9	4.9
11/3/2019	13.3	12.4	2.2	5.4	1.9	4.9
11/4/2019	13.3	12.4	2.2	5.4	1.9	4.9
11/5/2019	13.4	12.4	2.2	5.4	1.9	4.9
11/6/2019	13.4	12.4	2.2	5.4	1.9	4.9
11/7/2019	13.4	12.3	2.2	5.4	1.9	4.9
11/8/2019	13.4	12.3	2.2	5.4	1.9	4.9
11/9/2019	13.4	12.3	2.2	5.4	1.9	4.9
11/10/2019	13.4	12.3	2.2	5.4	1.9	4.9
11/11/2019	13.4	12.3	2.2	5.4	1.9	4.9
11/12/2019	13.5	12.4	2.2	5.5	1.9	4.9
11/13/2019	13.5	12.4	2.2	5.5	1.9	4.9
11/14/2019	13.6	12.4	2.2	5.5	1.9	4.9
11/15/2019	13.6	12.4	2.2	5.5	1.9	4.9
11/16/2019	13.6	12.4	2.2	5.5	1.9	5.0
11/17/2019	13.7	12.5	2.2	5.5	1.9	5.0
11/18/2019	13.7	12.5	2.2	5.5	1.9	5.0
11/19/2019	13.8	12.5	2.2	5.5	1.9	5.0
11/20/2019	13.8	12.5	2.2	5.6	1.9	5.0
11/21/2019	13.8	12.5	2.3	5.5	1.9	5.0
11/22/2019	13.8	12.4	2.3	5.5	1.9	5.0
11/23/2019	13.8	12.4	2.3	5.5	1.9	5.0
11/24/2019	13.8	12.4	2.3	5.5	1.9	5.0
11/25/2019	13.8	12.3	2.3	5.5	1.9	5.0
11/26/2019	13.8	12.3	2.3	5.5	1.9	5.0
11/27/2019	13.8	12.2	2.3	5.5	1.9	5.0
11/28/2019	13.8	12.2	2.3	5.5	1.9	5.0
11/29/2019	13.8	12.2	2.3	5.5	1.9	5.0
11/30/2019	13.8	12.1	2.3	5.5	1.9	5.0
12/1/2019	13.8	12.1	2.3	5.5	1.9	5.0
12/2/2019	13.8	12.0	2.3	5.5	1.9	5.0
12/3/2019	13.8	12.0	2.3	5.4	1.9	5.0
12/4/2019	13.8	12.0	2.3	5.4	1.9	5.0
12/5/2019	13.8	11.9	2.3	5.4	1.9	5.0
12/6/2019	13.8	11.9	2.3	5.4	1.9	5.0
12/7/2019	13.8	11.8	2.3	5.4	1.9	5.0
12/8/2019	13.8	11.8	2.3	5.4	1.9	5.0
12/9/2019	13.8	11.7	2.3	5.4	1.9	5.0
12/10/2019	13.8	11.7	2.3	5.4	1.9	4.9
12/11/2019	13.7	11.6	2.3	5.4	1.8	4.9
12/12/2019	13.7	11.6	2.3	5.3	1.8	4.9
12/13/2019	13.7	11.5	2.3	5.3	1.8	4.9
12/14/2019	13.6	11.4	2.3	5.3	1.8	4.9
12/15/2019	13.6	11.4	2.3	5.3	1.8	4.9
12/16/2019	13.6	11.3	2.3	5.3	1.8	4.9
12/17/2019	13.6	11.3	2.3	5.3	1.8	4.9
12/18/2019	13.6	11.3	2.3	5.3	1.8	4.9
12/19/2019	13.6	11.3	2.3	5.2	1.8	4.9
12/20/2019	13.6	11.3	2.3	5.2	1.8	4.9
12/21/2019	13.6	11.3	2.3	5.2	1.8	4.9
12/22/2019	13.6	11.2	2.3	5.2	1.8	4.9
12/23/2019	13.6	11.2	2.3	5.2	1.8	4.9
12/24/2019	13.6	11.2	2.3	5.2	1.8	4.9
12/25/2019	13.6	11.2	2.3	5.2	1.8	4.9
12/26/2019	13.6	11.1	2.3	5.2	1.8	4.9
12/27/2019	13.6	11.1	2.3	5.2	1.8	4.9
12/28/2019	13.6	11.1	2.3	5.2	1.8	4.9
12/29/2019	13.6	11.0	2.3	5.2	1.8	4.9
12/30/2019	13.6	11.0	2.3	5.2	1.8	4.9
12/31/2019	13.6	11.0	2.3	5.2	1.8	4.9

NOTE: Shaded zeros indicate fresh-air firing for SG-4901.

VALERO COGENERATION PROJECT
SUMMARY OF QUARTERLY SOURCE TEST RESULTS
2019

Source Test Results		Fuel Gas	Emissions				Emissions Factors		
		MMBtu/hr	TRS Avg	PM ₁₀ ⁽²⁾	POC	SAM ⁽³⁾	SO ₂	PM ₁₀ ⁽²⁾	POC
Test #	Firing	ppm	lb/hr	lb/hr	lb/hr	lb/hr	lb/MMBtu	lb/MMBtu	lb/MMBtu
4th Qtr 2018	426	24.2	1.400	0.450	1.000	0.200	0.0034	0.0011	0.0023
1st Qtr 2019 (3/19/19)	498	19.7	1.200	0.430	1.900	0.400	0.0024	0.0009	0.0038
2nd Qtr 2019 (6/7/19)	469	28.4	1.200	0.430	1.000	0.6	0.0065	0.0009	0.0021
3rd Qtr 2019 (8/8/2019)	470	13.6	1.200	0.430	1.000	0.400	0.0065	0.0009	0.0021
4th Qtr 2019 (10/18/2019)	470	28.5	1.200	0.430	1.000	0.300	0.0065	0.0009	0.0021
2019 Average	477	22.6	2.715	0.430	1.225	0.425	0.0055	0.0009	0.0026

⁽²⁾ EPA Method 202

⁽³⁾ EPA Method 8

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG (S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **January 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15%</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-
01/01/19	1.8	1.8	1.8	3.74
01/02/19	1.8	1.8	1.8	3.69
01/03/19	1.8	1.8	1.8	3.67
01/04/19	1.8	1.8	1.8	3.61
01/05/19	1.8	1.8	1.8	3.62
01/06/19	1.9	2.1	2.2	3.55
01/07/19	1.8	1.8	1.8	3.72
01/08/19	1.6	1.8	2.1	3.78
01/09/19	1.8	1.8	1.8	3.64
01/10/19	1.8	1.8	1.8	3.63
01/11/19	1.8	1.8	1.8	3.60
01/12/19	1.8	1.8	1.8	3.60
01/13/19	1.8	1.8	1.8	3.62
01/14/19	1.8	1.8	1.8	3.59
01/15/19	1.8	1.8	1.9	3.67
01/16/19	1.8	1.8	1.8	3.54
01/17/19	1.8	1.8	1.8	3.55
01/18/19	4.5	18.8	20.3	3.56
01/19/19	-	-	-	-
01/20/19	-	-	-	-
01/21/19	-	-	-	-
01/22/19	-	-	-	-
01/23/19	-	-	-	-
01/24/19	-	-	-	-
01/25/19	-	-	-	-
01/26/19	-	-	-	-
01/27/19	1.8	1.8	1.8	3.67
01/28/19	1.8	1.8	1.8	3.58
01/29/19	1.8	1.8	1.8	3.52
01/30/19	1.8	1.8	1.8	3.57

Note: Cogen shut down on 1/18/19 and start up on 1/26/19. No excess occurred.

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **January 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
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*Excess for this source is:

- 1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].
- 2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].
- 3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].
- 4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **February 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15%</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-
02/01/19	1.8	1.8	1.8	3.56
02/02/19	1.8	1.8	1.8	3.59
02/03/19	1.8	1.8	1.8	3.60
02/04/19	1.8	1.8	1.8	3.68
02/05/19	1.8	1.8	1.8	3.70
02/06/19	1.8	1.8	1.8	3.73
02/07/19	1.8	1.8	1.8	3.72
02/08/19	1.8	1.8	1.8	3.69
02/09/19	1.8	1.8	1.8	3.75
02/10/19	1.8	1.8	1.8	3.73
02/11/19	1.8	1.8	1.8	3.80
02/12/19	1.8	1.8	1.8	3.73
02/13/19	1.8	1.8	1.8	3.73
02/14/19	1.8	1.8	1.9	3.70
02/15/19	1.8	1.8	1.8	3.69
02/16/19	1.8	1.8	1.8	3.74
02/17/19	1.8	1.8	1.8	3.75
02/18/19	1.8	1.8	1.9	3.79
02/19/19	1.8	1.8	1.8	3.77
02/20/19	1.8	1.8	1.8	3.67
02/21/19	1.8	1.8	1.8	3.69
02/22/19	1.8	1.8	1.8	3.72
02/23/19	1.8	1.8	1.8	3.71
02/24/19	1.8	1.8	1.8	3.68
02/25/19	1.8	1.8	1.8	3.30
02/26/19	1.8	1.8	1.8	3.35
02/27/19	1.8	1.8	1.9	3.51
02/28/19	1.8	1.8	1.8	3.37

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **February 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
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*Excess for this source is:

- 1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].
- 2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].
- 3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].
- 4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **March 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG- 4901) MAX 1 HR AVG-- <u>lb/hr</u>
03/01/19	1.8	1.8	1.8	3.73
03/02/19	1.8	1.8	1.8	3.72
03/03/19	1.8	1.8	1.9	3.84
03/04/19	1.8	1.8	1.9	3.81
03/05/19	1.8	1.8	1.8	3.73
03/06/19	1.8	1.8	1.8	3.67
03/07/19	1.8	1.8	1.8	3.72
03/08/19	1.8	1.8	1.8	3.80
03/09/19	1.8	1.8	1.8	3.73
03/10/19	1.8	1.8	1.8	3.76
03/11/19	1.8	1.9	1.9	3.81
03/12/19	1.8	1.9	2.0	3.88
03/13/19	1.8	1.9	1.9	3.85
03/14/19	1.8	1.9	1.9	3.92
03/15/19	1.8	1.9	1.9	3.93
03/16/19	1.8	1.9	1.9	3.93
03/17/19	1.8	1.9	1.9	3.88
03/18/19	1.8	1.9	2.0	3.92
03/19/19	1.8	1.9	1.9	3.89
03/20/19	1.8	1.9	2.0	4.05
03/21/19	1.8	1.9	1.9	4.06
03/22/19	1.8	1.8	1.8	3.84
03/23/19	1.8	1.9	1.9	4.04
03/24/19	1.8	1.9	1.9	4.21
03/25/19	1.8	1.8	1.9	3.55
03/26/19	1.3	1.8	1.8	3.08
03/27/19	0.4	0.5	0.5	0.64
03/28/19	0.5	0.6	0.6	0.84
03/29/19	0.4	0.5	0.5	0.65
03/30/19	0.4	0.5	0.5	0.62
03/31/19	0.4	0.5	0.5	0.65

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **March 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
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*Excess for this source is:

- 1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].
- 2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].
- 3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].
- 4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **April 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG- 4901) MAX 1 HR AVG-- <u>lb/hr</u>
04/01/19	0.4	0.4	0.4	0.53
04/02/19	0.4	0.4	0.4	0.52
04/03/19	0.4	0.4	0.4	0.52
04/04/19	0.3	0.4	0.4	0.45
04/05/19	0.3	0.3	0.3	0.39
04/06/19	0.3	0.4	0.4	0.40
04/07/19	0.3	0.4	0.4	0.42
04/08/19	0.3	0.3	0.3	0.39
04/09/19	0.3	0.3	0.4	0.41
04/10/19	0.3	0.3	0.3	0.40
04/11/19	0.3	0.4	0.4	0.39
04/12/19	0.3	0.4	0.5	0.50
04/13/19	0.3	0.3	0.3	0.36
04/14/19	0.3	0.3	0.3	0.36
04/15/19	0.3	0.3	0.3	0.33
04/16/19	0.3	0.3	0.3	0.36
04/17/19	0.3	0.4	0.4	0.40
04/18/19	0.3	0.4	0.4	0.40
04/19/19	0.3	0.3	0.3	0.37
04/20/19	0.3	0.3	0.3	0.34
04/21/19	0.3	0.5	0.5	0.36
04/22/19	-	-	-	-
04/23/19	-	-	-	-
04/24/19	-	-	-	-
04/25/19	-	-	-	-
04/26/19	-	-	-	-
04/27/19	0.3	0.4	0.4	0.44
04/28/19	0.4	0.4	0.5	0.51
04/29/19	0.4	0.4	0.4	0.50
04/30/19	0.3	0.4	0.4	0.45

Note: GT/SG 4901 shut down from 04/21/19 - 04/26/19. No excess occurred.

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company** Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626** Pollutant: **NOx**

Month: **April 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
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*Excess for this source is:

- 1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].
- 2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].
- 3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].
- 4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **May 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG-- <u>lb/hr</u>
05/01/19	0.4	0.4	0.4	0.50
05/02/19	0.4	0.5	0.6	0.74
05/03/19	0.7	1.1	1.3	1.69
05/04/19	0.4	0.5	0.5	0.71
05/05/19	1.1	1.5	1.6	2.43
05/06/19	1.7	1.8	1.8	3.06
05/07/19	1.8	1.8	1.9	3.45
05/08/19	1.8	1.8	1.8	3.80
05/09/19	1.8	1.8	1.8	3.76
05/10/19	1.8	1.8	1.8	3.74
05/11/19	1.8	1.8	1.8	3.74
05/12/19	1.8	1.8	1.8	3.85
05/13/19	1.8	1.8	1.9	4.07
05/14/19	1.8	1.8	1.8	3.94
05/15/19	1.8	1.8	1.8	3.79
05/16/19	1.8	1.8	1.8	3.81
05/17/19	1.8	1.8	1.8	3.91
05/18/19	1.8	1.8	1.8	3.85
05/19/19	1.8	1.8	1.8	3.82
05/20/19	1.8	1.8	1.8	3.88
05/21/19	1.8	1.8	1.8	3.89
05/22/19	1.8	1.8	1.8	3.83
05/23/19	1.8	1.8	1.9	3.93
05/24/19	1.8	1.8	1.8	3.81
05/25/19	1.8	1.8	1.8	3.80
05/26/19	1.8	1.8	1.8	3.84
05/27/19	1.8	1.8	1.9	3.85
05/28/19	1.8	1.8	1.8	3.36
05/29/19	1.8	1.8	1.8	3.67
05/30/19	1.8	1.8	1.8	3.74
05/31/19	1.8	1.8	1.8	3.77

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **May 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
			None		

*Excess for this source is:

1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].

2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].

3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].

4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **June 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG-- <u>lb/hr</u>
06/01/19	1.8	1.8	1.8	3.66
06/02/19	1.8	1.8	1.8	3.78
06/03/19	1.8	1.8	1.8	3.67
06/04/19	1.8	1.8	1.8	3.62
06/05/19	1.8	1.8	1.8	3.60
06/06/19	1.8	1.8	1.8	3.66
06/07/19	1.8	1.8	1.8	3.58
06/08/19	1.8	1.8	1.8	3.65
06/09/19	1.8	1.8	1.9	3.59
06/10/19	1.8	1.8	1.9	3.39
06/11/19	1.8	1.8	1.8	3.51
06/12/19	1.7	1.8	1.8	3.59
06/13/19	1.7	1.8	1.8	3.74
06/14/19	1.8	1.8	1.8	3.70
06/15/19	1.8	1.8	1.8	3.66
06/16/19	1.8	1.8	1.8	3.66
06/17/19	1.8	1.8	1.8	3.65
06/18/19	1.8	1.8	1.8	3.67
06/19/19	1.8	1.8	1.8	3.64
06/20/19	1.8	1.8	1.8	3.65
06/21/19	1.8	1.8	1.8	3.67
06/22/19	1.8	1.8	1.8	3.66
06/23/19	1.8	1.8	1.8	3.66
06/24/19	1.8	1.8	1.8	3.65
06/25/19	1.8	1.8	1.8	3.64
06/26/19	1.8	1.8	1.8	3.70
06/27/19	1.7	1.8	1.8	3.77
06/28/19	1.8	1.8	1.8	3.71
06/29/19	1.8	1.8	1.8	3.80
06/30/19	1.8	1.8	1.9	4.12

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **June 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
			None		

*Excess for this source is:

1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].

2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].

3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].

4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company**

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **July 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx ppm @ 15% O2	MAX. 3-HR AVG. NOx ppm @ 15% O2	MAX. 1-HR AVG. NOx ppm @ 15% O2	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG--lb/hr
07/01/19	1.8	1.8	1.8	4.03
07/02/19	1.8	1.8	1.8	3.94
07/03/19	1.8	1.8	1.8	3.99
07/04/19	1.8	1.8	1.8	4.00
07/05/19	1.8	1.8	1.8	3.96
07/06/19	1.8	1.8	1.8	3.99
07/07/19	1.8	1.8	1.8	3.97
07/08/19	1.8	1.8	1.8	3.98
07/09/19	1.8	1.9	2.0	4.13
07/10/19	1.8	1.8	1.8	4.00
07/11/19	1.8	1.8	1.8	3.97
07/12/19	1.8	1.8	1.8	3.99
07/13/19	1.8	1.8	1.8	3.98
07/14/19	1.8	1.8	1.8	3.47
07/15/19	1.8	1.8	1.8	3.51
07/16/19	1.8	1.8	1.8	3.49
07/17/19	1.8	1.8	1.8	3.51
07/18/19	1.8	1.8	1.8	3.46
07/19/19	1.8	1.8	1.8	3.48
07/20/19	1.8	1.8	1.8	3.47
07/21/19	1.8	1.8	1.8	3.47
07/22/19	1.8	1.8	1.8	3.49
07/23/19	1.8	1.8	1.8	3.49
07/24/19	1.8	1.8	1.9	3.50
07/25/19	1.8	1.8	1.8	3.48
07/26/19	1.8	1.8	1.8	3.50
07/27/19	1.8	1.8	1.8	3.49
07/28/19	1.8	1.8	1.8	3.49
07/29/19	1.8	1.8	1.8	3.46
07/30/19	1.8	1.8	1.8	3.34
07/31/19	1.8	1.8	1.8	3.36

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company**

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **July 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
			None		

*Excess for this source is:

- 1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O2 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].
- 2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O2 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].
- 3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NOx), calculated in accordance with District approved methods as NO2, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].
- 4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company**

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **August 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx ppm @ 15% O2	MAX. 3-HR AVG. NOx ppm @ 15% O2	MAX. 1-HR AVG. NOx ppm @ 15% O2	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG--lb/hr
08/01/19	1.8	1.8	1.8	3.45
08/02/19	1.8	1.8	1.8	3.52
08/03/19	1.8	1.8	1.8	3.51
08/04/19	1.8	1.8	1.8	3.54
08/05/19	1.8	1.8	1.8	3.66
08/06/19	1.8	1.8	1.8	3.66
08/07/19	1.8	1.8	1.8	3.65
08/08/19	1.8	1.8	1.8	3.64
08/09/19	1.8	1.8	1.8	3.68
08/10/19	2.0	3.6	7.0	13.15
08/11/19	1.8	1.8	1.8	3.52
08/12/19	1.8	2.0	2.4	4.62
08/13/19	1.8	1.8	1.8	3.51
08/14/19	1.8	1.9	1.9	3.77
08/15/19	1.8	1.8	1.8	3.65
08/16/19	1.8	1.8	1.8	3.70
08/17/19	1.8	1.8	1.8	3.67
08/18/19	1.8	1.8	1.8	3.63
08/19/19	1.8	1.8	1.8	3.65
08/20/19	1.8	1.8	1.8	3.62
08/21/19	1.8	1.8	1.8	3.60
08/22/19	1.8	1.8	1.9	3.63
08/23/19	1.8	1.8	1.8	3.64
08/24/19	1.8	1.8	1.8	3.64
08/25/19	1.8	1.8	1.8	3.64
08/26/19	1.8	1.8	1.8	3.68
08/27/19	1.8	1.8	1.8	3.66
08/28/19	1.8	1.8	1.8	3.63
08/29/19	1.8	1.8	1.8	3.65
08/30/19	1.8	1.8	1.8	3.65
08/31/19	1.8	1.8	1.8	3.63

Note: GT4901 started up on 8/10/2019 15:45. No excess occurred due to startup period.

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company**

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **August 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
			None		

*Excess for this source is:

- 1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].
- 2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].
- 3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].
- 4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
—			

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company**

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **September 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx ppm @ 15% O2	MAX. 3-HR AVG. NOx ppm @ 15% O2	MAX. 1-HR AVG. NOx ppm @ 15% O2	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG--lb/hr
09/01/19	1.8	1.8	1.8	3.64
09/02/19	1.8	1.8	1.8	3.65
09/03/19	1.8	1.8	1.8	3.72
09/04/19	1.8	1.8	1.8	3.65
09/05/19	1.8	1.8	1.8	3.65
09/06/19	1.8	1.8	1.8	3.66
09/07/19	1.8	1.8	1.8	3.64
09/08/19	1.8	1.8	1.8	3.67
09/09/19	1.8	1.8	1.8	3.68
09/10/19	1.8	1.8	1.8	3.63
09/11/19	1.8	1.8	1.8	3.65
09/12/19	1.8	1.8	1.8	3.65
09/13/19	1.8	1.8	1.9	3.69
09/14/19	1.8	1.8	1.8	3.67
09/15/19	1.8	1.8	1.8	3.63
09/16/19	1.8	1.8	1.8	3.67
09/17/19	1.8	1.8	1.9	3.75
09/18/19	1.8	1.8	1.8	3.64
09/19/19	1.8	1.8	1.8	3.65
09/20/19	1.9	2.8	4.4	9.75
09/21/19	1.8	2.7	1.9	4.34
09/22/19	1.8	1.9	2.1	4.26
09/23/19	1.8	1.9	2.0	4.17
09/24/19	1.8	1.8	1.8	3.76
09/25/19	1.8	1.8	1.8	3.69
09/26/19	1.8	1.8	1.8	3.71
09/27/19	1.8	1.8	1.8	3.70
09/28/19	1.8	1.8	1.8	3.71
09/29/19	1.8	1.8	1.8	3.69
09/30/19	1.8	1.8	1.8	3.70

Gas Turbine/HRSG Max 1-HR limit was not applicable on 9/20/19 as the unit was not firing natural gas exclusively. No excesses occurred.

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company: **Valero Refining Company**

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **September 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
9/20/2019	11:00 PM	3 hours	2.7 ppm vol	9.75 lb/hr	Episode ID: 07P07

*Excess for this source is:

1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].

2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].

3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].

4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
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**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **October 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG-- <u>lb/hr</u>
10/01/19	1.8	1.8	1.8	3.71
10/02/19	1.8	1.8	1.8	3.74
10/03/19	1.8	1.8	1.8	3.73
10/04/19	1.8	1.8	1.8	3.72
10/05/19	1.8	1.8	1.8	3.72
10/06/19	1.8	1.8	1.8	3.71
10/07/19	1.8	1.8	1.8	3.75
10/08/19	1.8	1.8	1.8	3.73
10/09/19	1.7	1.8	1.8	3.75
10/10/19	1.8	1.8	1.8	3.73
10/11/19	1.8	1.8	1.8	3.71
10/12/19	1.8	1.8	1.8	3.71
10/13/19	1.8	1.8	1.8	3.72
10/14/19	1.8	1.8	1.8	3.75
10/15/19	1.8	1.8	1.8	3.79
10/16/19	1.8	1.8	1.8	3.76
10/17/19	1.8	1.8	1.8	3.76
10/18/19	1.8	1.8	1.8	3.80
10/19/19	1.8	1.8	1.9	3.80
10/20/19	1.8	1.8	1.9	3.82
10/21/19	1.8	1.8	1.8	3.84
10/22/19	1.8	1.8	1.8	3.76
10/23/19	1.8	1.8	1.8	3.70
10/24/19	1.8	1.8	1.8	3.65
10/25/19	1.8	1.8	1.8	3.62
10/26/19	1.8	1.8	1.8	3.69
10/27/19	1.8	1.8	1.9	3.75
10/28/19	1.6	1.9	2.1	3.84
10/29/19	1.8	1.8	1.8	3.45
10/30/19	1.8	1.8	1.8	3.49
10/31/19	1.8	1.8	1.8	3.50

Note:

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **October 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
Oct-19				None	

*Excess for this source is:

1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].

2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].

3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].

4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
Oct-19			None

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **November 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG-- <u>lb/hr</u>
11/01/19	1.8	1.8	1.8	3.54
11/02/19	1.8	1.8	1.8	3.56
11/03/19	1.8	1.8	1.9	3.60
11/04/19	1.8	1.8	1.8	3.57
11/05/19	1.8	1.8	1.8	3.70
11/06/19	1.8	1.8	1.8	3.73
11/07/19	1.8	1.8	1.9	3.75
11/08/19	1.8	1.8	1.9	3.78
11/09/19	1.8	1.8	1.9	3.82
11/10/19	1.8	1.8	1.9	3.74
11/11/19	1.8	1.8	1.9	3.67
11/12/19	1.8	1.8	1.8	3.61
11/13/19	1.8	1.8	1.8	3.64
11/14/19	1.8	1.8	1.8	3.67
11/15/19	1.8	1.8	1.8	3.69
11/16/19	1.8	1.8	1.8	3.72
11/17/19	1.8	1.8	1.8	3.68
11/18/19	1.8	1.8	1.8	3.62
11/19/19	1.8	1.8	1.8	3.60
11/20/19	1.8	1.8	1.8	3.61
11/21/19	1.8	1.8	1.8	3.65
11/22/19	1.8	1.8	1.8	3.72
11/23/19	1.8	1.8	1.9	3.71
11/24/19	1.8	1.8	1.9	3.71
11/25/19	1.8	1.9	1.9	3.74
11/26/19	1.8	1.8	1.9	3.72
11/27/19	1.8	1.8	1.8	3.68
11/28/19	1.8	1.8	1.8	3.69
11/29/19	1.8	1.8	1.9	3.78
11/30/19	1.8	1.8	1.8	3.72

Note:

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **November 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
Nov-19				None	

*Excess for this source is:

1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].

2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].

3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].

4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
Nov-19			None

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **December 2019**

I. EMISSION DATA:

Day	DAILY AVG. NOx <u>ppm @ 15% O2</u>	MAX. 3-HR AVG. NOx <u>ppm @ 15% O2</u>	MAX. 1-HR AVG. NOx <u>ppm @ 15% O2</u>	P-60 NOx Mass (combined exhaust point for GT and SG-4901) MAX 1 HR AVG-- <u>lb/hr</u>
12/01/19	1.8	1.8	1.8	3.69
12/02/19	1.8	1.8	1.8	3.72
12/03/19	1.8	1.8	1.8	3.60
12/04/19	1.8	1.8	1.8	3.69
12/05/19	1.8	1.8	1.8	3.70
12/06/19	1.8	1.8	1.8	3.65
12/07/19	1.8	1.8	1.8	3.59
12/08/19	1.8	1.8	1.9	3.70
12/09/19	1.8	1.8	1.9	1.10
12/10/19	1.8	1.8	1.8	1.10
12/11/19	1.8	1.8	1.8	1.07
12/12/19	1.8	1.8	1.8	1.09
12/13/19	1.8	1.8	1.8	1.10
12/14/19	1.8	1.8	1.9	1.09
12/15/19	1.8	1.8	1.9	1.09
12/16/19	1.8	1.8	1.9	3.61
12/17/19	1.8	1.8	1.8	3.60
12/18/19	1.8	1.8	1.8	3.60
12/19/19	1.8	1.8	1.8	3.61
12/20/19	1.8	1.8	1.8	3.50
12/21/19	1.8	1.8	1.8	3.47
12/22/19	1.8	1.8	1.8	3.48
12/23/19	1.8	1.8	1.9	3.72
12/24/19	1.8	1.8	1.8	3.65
12/25/19	1.8	1.8	1.8	3.60
12/26/19	1.8	1.8	1.9	3.65
12/27/19	1.8	1.8	1.9	3.64
12/28/19	1.8	1.8	1.8	3.55
12/29/19	1.8	1.8	1.8	3.52
12/30/19	1.8	1.8	1.8	3.40
12/31/19	1.8	1.8	1.8	3.36

Note:

**BAY AREA
AIR QUALITY MANAGEMENT DISTRICT**

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

Company **Valero Refining Company**
:

Source: **GasTurbine/HRSG
(S1030/1031)**

Plant No. **B2626**

Pollutant: **NOx**

Month: **December 2019**

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>MAGNITUDE</u>	<u>MAGNITUDE</u>	<u>REMARKS</u>
Dec-19				None	

*Excess for this source is:

1) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 3 hr. avg., using Refinery Fuel Gas, except during shut down or startup periods [PC #19177.19(b)].

2) BAAQMD: Emissions of nitrogen oxides exceeding 2.5 ppmv @ 15% O₂ 1 hr. avg., using Natural Gas only, except during shut down or startup periods [PC #19177.18(a)(1)].

3) BAAQMD 19177, Part 19a: The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), calculated in accordance with District approved methods as NO₂, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) to no more than 7.29 pounds per clock hour [PC #19177.19(a)].

4) Federal: Emissions of nitrogen oxides exceeding 0.20 lb/MMBtu heat input are reported on the NSPS/MACT SUMMARY REPORT – GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE [40CFR60.44b(l)(1)].

III. MONITOR MALFUNCTION

<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PROBLEM/CORRECTIVE ACTION</u>
Dec-19			None



Benicia Refinery • Valero Refining Company - California

3400 East Second Street • Benicia, California 94510-1097 • Telephone (707) 745-7011 • Facsimile (707) 745-7339

Submitted Electronically

February 10, 2020

Valero Cogeneration Project
4Q2019 Quarterly Fuel Gas Sulfur Report
Application No. 2488/2695

Mr. Alexander Sohn
Air Quality Engineer
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

Dear Mr. Sohn:

Enclosed is the fuel gas sulfur report for the previous quarter in accordance with permit condition #36 (CEC Condition of Certification AQ-36) for the Valero Cogeneration Project. This report provides TRS and H₂S levels measured in the refinery process gas and natural gas fuels fired in the Cogeneration unit gas turbine (S-1030) and heat recovery steam generator (S-1031).

Please call me at (707) 745-7609 should you have questions regarding this information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'BA C'.

Bob Chou
Environmental Engineer

RPC

Enclosures:

Fuel Gas Summary Report
4Q2019 Daily Averages— Fuel Consumption, H₂S and TRS
4Q2019 Hourly Averages—Fuel 24-hr TRS and 3-hr H₂S

ecc:

Mr. Jeff Gove – BAAQMD – Director of Enforcement, jgove@baaqmd.gov
Mr. Anwar Ali – CEC – Compliance Project Manager, anwar.ali@energy.ca.gov

Fuel Gas Sulfur Summary for 4Q19

Natural Gas Firing

	Gas Turbine (GT4901)	HRSG (SG4901)
Hours Firing Natural Gas	326	5
Maximum Daily Average Fuel Consumption (MMSCF/day)	10.49	N/A
Maximum 3-Hour Average H2S (ppm)	6	22
Maximum 24-Hour Average TRS (ppm)	9	N/A
Quarterly Average H2S (ppm)	1	N/A
Quarterly Average TRS (ppm)	1	N/A

Process Gas Firing

	Gas Turbine (GT4901)	HRSG (SG4901)
Hours Firing Process Gas	1699	2204
Maximum Daily Average Fuel Consumption (MMSCF/day)	10.20	3.10
Maximum 3-Hour Average H2S (ppm)	11	30
Maximum 24-Hour Average TRS (ppm)	10	35
Quarterly Average H2S (ppm)	3	8
Quarterly Average TRS (ppm)	5	20

All Firing

4Q19	Average TRS (ppm)	4.9	19.7
3Q19	Average TRS (ppm)	7.9	28.4
2Q19	Average TRS (ppm)	2.2	13.6
1Q19	Average TRS (ppm)	1.8	28.5

Average TRS (ppm)

4.2	22.6
------------	-------------

Note 1: Natural gas values are conservative due to inclusion of transition periods.

Note 2: The HRSG fires 0.7 MMSCF/day of natural gas in the HRSG pilot. The H2S and TRS values are based on GT-4901 data.

Note 3: Periods of Natural Gas Firing are defined as using natural gas exclusively. All other mixtures of natural gas and process gas are considered periods of Process Gas Firing.

Valero Cogeneration Project
Daily Average Fuel Consumption, TRS Concentration, and H2S Concentration for 4Q19

Date	Fuel Consumption (MMSCF/day)		Daily Average TRS (ppm)			Daily Average H2S (ppm)		
	Gas Turbine	HRSG	Gas Turbine	HRSG	Combined	Gas Turbine	HRSG	Combined
10/1/2019	10.4	2.3	4.3	20.9	6.5	2.3	6.6	2.9
10/2/2019	10.4	2.3	4.9	21.1	7.0	2.6	7.4	3.2
10/3/2019	10.4	2.3	4.3	20.9	6.5	2.5	6.5	3.1
10/4/2019	10.5	2.3	4.8	23.9	7.3	2.3	7.4	3.0
10/5/2019	10.5	2.3	4.7	22.9	7.1	2.7	7.2	3.3
10/6/2019	10.3	2.3	5.9	23.0	8.2	2.7	6.8	3.2
10/7/2019	10.3	2.3	5.8	22.2	8.0	2.7	7.3	3.3
10/8/2019	10.3	2.3	6.2	25.3	8.7	2.7	7.5	3.4
10/9/2019	10.4	2.3	6.1	23.4	8.4	2.6	7.1	3.2
10/10/2019	10.3	2.3	5.9	22.5	8.1	2.8	7.4	3.4
10/11/2019	10.3	2.3	6.2	22.4	8.4	3.0	8.5	3.7
10/12/2019	10.2	2.2	6.4	24.9	8.8	2.9	8.7	3.7
10/13/2019	10.3	2.3	7.5	27.6	10.2	3.0	8.9	3.8
10/14/2019	10.3	2.3	6.4	24.3	8.8	2.9	8.5	3.6
10/15/2019	10.2	2.3	7.1	27.5	9.9	2.6	7.7	3.3
10/16/2019	10.3	2.3	6.5	25.9	9.1	2.5	8.2	3.3
10/17/2019	10.5	2.4	5.5	25.0	8.3	3.3	12.9	4.6
10/18/2019	10.4	2.5	5.8	22.2	8.2	3.4	11.0	4.5
10/19/2019	10.4	2.3	7.1	18.7	8.6	3.9	8.7	4.5
10/20/2019	10.5	2.3	4.7	18.3	6.5	2.9	8.2	3.6
10/21/2019	10.5	2.3	4.6	20.2	6.6	3.0	9.1	3.8
10/22/2019	10.5	2.3	5.5	20.2	7.4	3.5	9.4	4.3
10/23/2019	10.1	2.3	4.3	21.7	6.7	3.0	10.0	3.9
10/24/2019	10.1	2.3	4.5	19.6	6.6	3.0	9.0	3.9
10/25/2019	10.1	2.3	4.5	19.4	6.5	3.2	9.0	4.0
10/26/2019	10.0	2.4	6.1	19.4	8.0	3.6	8.4	4.3
10/27/2019	9.1	2.4	6.5	32.9	10.7	3.5	10.4	4.6
10/28/2019	8.9	2.4	6.7	30.1	10.4	3.9	11.6	5.1
10/29/2019	9.3	2.4	5.9	26.0	9.0	3.8	10.9	4.9
10/30/2019	9.4	2.4	5.8	24.7	8.7	3.7	10.6	4.7
10/31/2019	9.4	2.5	6.8	23.7	9.5	3.4	9.6	4.4
11/1/2019	9.4	2.5	6.8	21.3	9.2	3.3	8.4	4.1
11/2/2019	9.4	2.5	7.2	25.5	10.2	3.2	9.0	4.1
11/3/2019	9.4	2.6	8.0	23.6	10.6	3.5	8.8	4.4
11/4/2019	9.4	2.5	9.2	25.1	11.8	4.0	9.5	4.9
11/5/2019	9.6	2.6	8.5	29.4	12.0	4.0	10.7	5.2
11/6/2019	9.8	2.5	8.3	30.6	11.8	3.9	10.4	5.0
11/7/2019	9.8	2.5	7.8	31.2	11.4	3.9	10.9	5.0
11/8/2019	9.9	2.5	6.5	29.4	10.1	3.6	9.9	4.5
11/9/2019	9.8	2.6	6.2	27.7	9.7	3.4	9.8	4.4
11/10/2019	9.8	2.5	5.2	25.1	8.3	3.3	9.6	4.3
11/11/2019	9.5	2.5	4.5	24.9	7.7	2.9	9.5	4.0
11/12/2019	9.5	2.5	4.0	23.1	7.1	2.7	8.6	3.6
11/13/2019	9.7	2.5	3.7	19.6	6.2	2.5	7.8	3.3
11/14/2019	9.9	2.5	4.1	20.1	6.6	3.1	9.9	4.1
11/15/2019	9.9	2.5	4.9	23.1	7.7	3.5	12.1	4.8
11/16/2019	9.8	2.5	4.9	20.2	7.3	3.6	11.2	4.8
11/17/2019	9.6	2.5	3.1	16.7	5.3	2.4	9.3	3.5
11/18/2019	9.5	2.5	3.7	17.9	6.0	2.9	9.4	4.0
11/19/2019	9.6	2.5	4.2	18.4	6.4	3.3	9.4	4.3
11/20/2019	9.5	2.5	3.6	18.0	5.9	2.8	8.9	3.8
11/21/2019	9.9	2.5	4.2	19.0	6.5	3.2	8.9	4.1
11/22/2019	10.0	2.5	4.3	19.2	6.6	3.3	9.0	4.1
11/23/2019	9.8	2.5	4.5	19.0	6.7	3.4	9.2	4.3

Daily Average Fuel Consumption, TRS Concentration, and H2S Concentration for 4Q19

Date	Fuel Consumption (MMSCF/day)		Daily Average TRS (ppm)			Daily Average H2S (ppm)		
	Gas Turbine	HRSG	Gas Turbine	HRSG	Combined	Gas Turbine	HRSG	Combined
11/24/2019	9.9	2.5	4.5	19.3	6.8	3.2	9.0	4.1
11/25/2019	9.8	2.5	4.8	20.8	7.3	3.7	9.8	4.6
11/26/2019	10.1	2.6	4.7	18.8	6.9	3.5	9.7	4.5
11/27/2019	10.1	2.7	4.6	20.0	7.1	3.7	10.9	4.9
11/28/2019	10.3	2.7	4.4	17.8	6.5	3.4	9.8	4.4
11/29/2019	10.3	2.7	4.1	17.0	6.2	3.3	9.3	4.2
11/30/2019	10.3	2.7	3.3	13.4	4.9	3.0	8.1	3.8
12/1/2019	10.2	2.7	3.4	14.1	5.2	3.0	8.7	4.0
12/2/2019	10.3	2.7	2.9	12.2	4.4	2.5	7.7	3.4
12/3/2019	10.3	2.6	2.3	11.0	3.7	2.0	7.2	2.8
12/4/2019	10.3	2.8	4.8	19.6	7.3	3.7	10.9	4.9
12/5/2019	10.1	2.7	2.9	14.9	4.9	2.6	8.1	3.5
12/6/2019	9.9	2.7	2.7	14.1	4.6	2.3	6.6	3.0
12/7/2019	9.8	2.7	3.0	18.7	5.6	2.2	7.1	3.1
12/8/2019	9.3	2.8	2.5	16.7	5.1	1.6	6.4	2.5
12/9/2019	0.0	3.8	7.3	11.8	11.8	4.6	6.0	6.0
12/10/2019	0.0	3.8	10.3	16.4	16.4	5.4	6.7	6.7
12/11/2019	0.0	3.7	13.5	22.2	22.2	5.9	7.6	7.6
12/12/2019	0.0	3.7	15.1	21.9	21.9	6.2	7.9	7.9
12/13/2019	0.0	3.7	13.1	20.5	20.5	5.6	7.7	7.7
12/14/2019	0.0	3.6	0.5	20.1	20.1	0.4	7.8	7.8
12/15/2019	0.0	3.5	0.5	22.4	22.4	0.3	6.4	6.4
12/16/2019	4.3	3.0	0.9	15.1	5.9	0.7	8.9	3.6
12/17/2019	10.7	1.9	2.1	16.0	3.5	2.0	10.9	2.9
12/18/2019	10.7	1.9	2.1	16.5	3.6	2.0	11.1	2.9
12/19/2019	10.5	1.9	1.9	17.4	3.5	1.8	11.9	2.9
12/20/2019	10.2	2.1	4.8	17.9	6.4	4.3	12.5	5.3
12/21/2019	10.2	2.3	9.4	19.1	10.7	8.4	13.0	9.0
12/22/2019	10.1	2.1	5.7	20.8	7.5	5.2	13.7	6.3
12/23/2019	10.3	2.1	1.2	10.9	2.4	1.1	5.6	1.6
12/24/2019	10.6	2.1	0.1	5.3	0.7	0.1	1.3	0.2
12/25/2019	10.5	2.1	0.1	5.2	0.7	0.0	1.4	0.2
12/26/2019	10.4	2.1	0.1	5.4	0.8	0.0	1.7	0.2
12/27/2019	10.4	2.1	0.1	6.5	0.8	0.0	2.0	0.3
12/28/2019	10.3	2.1	0.1	4.8	0.7	0.0	1.6	0.2
12/29/2019	10.1	2.1	0.1	3.9	0.6	0.1	1.3	0.2
12/30/2019	9.7	2.1	0.1	3.9	0.6	0.0	1.5	0.2
12/31/2019	9.5	2.1	0.1	4.0	0.6	0.0	1.5	0.2

(1) Gas Turbine was down from 12/9/2019 - 12/15/2019

Note: HRSG fuel consumption includes 0.7 MMSCF/day of natural gas fired in the HRSG pilot, but the natural gas is not included in TRS and H2S concentration data in this table.

This report satisfies:

- permit conditions 25342 Parts 4b and 5b in Valero's Title V Permit issued by the BAAQMD on April 30, 2013.
- previously also CEC AQ-36 (a), (d), (e)

Valero Cogeneration Project

24-Hour Rolling Average TRS and 3-Hour Rolling Average H₂S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H₂S (ppm)	
Time	Gas Turbine	HRS	Gas Turbine	HRS
10/1/19 0:00	4.49	22.22	1.91	5.56
10/1/19 1:00	4.51	22.19	2.04	5.43
10/1/19 2:00	4.53	22.16	1.97	5.36
10/1/19 3:00	4.55	22.12	1.90	5.29
10/1/19 4:00	4.57	22.09	1.82	5.18
10/1/19 5:00	4.59	22.05	1.63	5.01
10/1/19 6:00	4.59	21.96	1.48	5.07
10/1/19 7:00	4.58	21.87	1.42	5.13
10/1/19 8:00	4.58	21.76	1.61	5.20
10/1/19 9:00	4.57	21.65	1.90	5.47
10/1/19 10:00	4.57	21.61	2.09	5.92
10/1/19 11:00	4.56	21.59	2.31	6.58
10/1/19 12:00	4.55	21.56	2.54	7.16
10/1/19 13:00	4.55	21.54	2.77	7.71
10/1/19 14:00	4.52	21.51	2.87	8.01
10/1/19 15:00	4.49	21.49	2.84	8.28
10/1/19 16:00	4.46	21.46	2.81	8.53
10/1/19 17:00	4.43	21.43	2.78	8.54
10/1/19 18:00	4.40	21.32	2.74	8.46
10/1/19 19:00	4.36	21.21	2.71	8.36
10/1/19 20:00	4.33	21.15	2.68	8.06
10/1/19 21:00	4.31	21.10	2.64	7.52
10/1/19 22:00	4.29	21.05	2.57	6.83
10/1/19 23:00	4.27	21.00	2.50	6.11
10/2/19 0:00	4.25	20.93	2.41	5.64
10/2/19 1:00	4.23	20.85	2.08	5.48
10/2/19 2:00	4.20	20.77	1.81	5.52
10/2/19 3:00	4.18	20.63	1.81	5.57
10/2/19 4:00	4.17	20.49	1.97	5.62
10/2/19 5:00	4.18	20.43	2.13	5.67
10/2/19 6:00	4.19	20.39	2.25	5.74
10/2/19 7:00	4.21	20.35	2.35	5.82
10/2/19 8:00	4.22	20.31	2.44	5.90
10/2/19 9:00	4.24	20.26	2.50	6.03
10/2/19 10:00	4.25	20.17	2.56	6.29
10/2/19 11:00	4.27	20.07	2.62	6.84
10/2/19 12:00	4.28	20.09	2.70	7.70
10/2/19 13:00	4.33	20.12	2.95	9.05
10/2/19 14:00	4.37	20.16	3.14	10.46
10/2/19 15:00	4.42	20.20	3.13	11.13
10/2/19 16:00	4.47	20.27	3.09	11.01
10/2/19 17:00	4.52	20.35	3.05	10.36
10/2/19 18:00	4.59	20.43	3.01	9.82
10/2/19 19:00	4.66	20.54	2.97	9.12
10/2/19 20:00	4.73	20.63	2.90	8.24
10/2/19 21:00	4.76	20.71	2.74	7.45
10/2/19 22:00	4.78	20.79	2.61	6.93
10/2/19 23:00	4.81	20.94	2.50	6.40
10/3/19 0:00	4.83	21.02	2.23	5.78
10/3/19 1:00	4.86	21.08	2.10	5.24
10/3/19 2:00	4.88	21.13	2.00	5.05
10/3/19 3:00	4.90	21.17	2.02	5.08
10/3/19 4:00	4.93	21.20	2.07	5.13
10/3/19 5:00	4.93	21.23	2.13	5.17
10/3/19 6:00	4.93	21.27	2.19	5.22
10/3/19 7:00	4.92	21.30	2.36	5.30
10/3/19 8:00	4.92	21.34	2.46	5.56
10/3/19 9:00	4.92	21.46	2.51	5.85

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/3/19 10:00	4.92	21.47	2.55	6.00
10/3/19 11:00	4.92	21.46	2.59	6.28
10/3/19 12:00	4.90	21.45	2.64	6.71
10/3/19 13:00	4.83	21.45	2.73	7.27
10/3/19 14:00	4.75	21.31	2.92	7.95
10/3/19 15:00	4.70	21.14	3.05	8.66
10/3/19 16:00	4.66	21.13	3.14	9.26
10/3/19 17:00	4.62	21.12	3.11	9.22
10/3/19 18:00	4.58	21.12	3.05	9.03
10/3/19 19:00	4.53	21.11	3.00	8.21
10/3/19 20:00	4.49	21.11	2.94	7.31
10/3/19 21:00	4.44	21.10	2.75	6.67
10/3/19 22:00	4.40	21.09	2.57	6.11
10/3/19 23:00	4.38	21.06	2.44	5.79
10/4/19 0:00	4.37	21.03	2.36	5.71
10/4/19 1:00	4.35	21.01	2.28	5.66
10/4/19 2:00	4.34	20.98	2.11	5.62
10/4/19 3:00	4.32	20.95	1.98	5.57
10/4/19 4:00	4.31	20.92	2.06	5.52
10/4/19 5:00	4.29	20.89	2.13	5.37
10/4/19 6:00	4.28	20.86	1.97	5.31
10/4/19 7:00	4.30	20.88	1.67	5.40
10/4/19 8:00	4.32	20.90	1.52	5.64
10/4/19 9:00	4.35	20.93	1.92	7.61
10/4/19 10:00	4.37	21.37	2.48	10.10
10/4/19 11:00	4.39	22.18	2.87	11.25
10/4/19 12:00	4.42	22.69	2.91	10.52
10/4/19 13:00	4.44	23.01	2.91	8.99
10/4/19 14:00	4.47	23.18	2.92	8.84
10/4/19 15:00	4.51	23.20	2.93	8.80
10/4/19 16:00	4.54	23.22	2.93	8.76
10/4/19 17:00	4.58	23.24	2.94	8.71
10/4/19 18:00	4.62	23.26	2.94	8.67
10/4/19 19:00	4.66	23.30	2.88	8.38
10/4/19 20:00	4.67	23.45	2.66	7.78
10/4/19 21:00	4.69	23.55	2.51	6.99
10/4/19 22:00	4.70	23.63	2.23	6.20
10/4/19 23:00	4.71	23.71	2.08	5.84
10/5/19 0:00	4.72	23.81	2.05	5.72
10/5/19 1:00	4.73	23.91	2.13	5.61
10/5/19 2:00	4.74	23.99	2.21	5.61
10/5/19 3:00	4.75	24.06	2.23	5.71
10/5/19 4:00	4.76	24.20	2.18	5.78
10/5/19 5:00	4.76	24.33	2.12	5.66
10/5/19 6:00	4.77	24.35	2.07	5.51
10/5/19 7:00	4.78	24.34	2.03	5.37
10/5/19 8:00	4.78	24.34	2.19	5.43
10/5/19 9:00	4.79	24.34	2.31	5.60
10/5/19 10:00	4.79	23.91	2.39	5.82
10/5/19 11:00	4.80	23.14	2.47	6.32
10/5/19 12:00	4.77	22.82	2.66	7.57
10/5/19 13:00	4.74	22.81	2.95	8.84
10/5/19 14:00	4.72	22.79	3.02	9.81
10/5/19 15:00	4.69	22.78	3.01	9.87
10/5/19 16:00	4.66	22.76	3.00	9.80
10/5/19 17:00	4.63	22.75	3.00	9.73
10/5/19 18:00	4.61	22.73	2.99	9.54
10/5/19 19:00	4.58	22.73	2.98	9.14
10/5/19 20:00	4.60	22.77	2.97	8.62

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/5/19 21:00	4.63	22.82	2.95	7.89
10/5/19 22:00	4.65	22.87	2.82	7.15
10/5/19 23:00	4.68	22.91	2.66	6.54
10/6/19 0:00	4.70	22.93	2.51	6.15
10/6/19 1:00	4.73	22.95	2.43	5.95
10/6/19 2:00	4.75	22.97	2.36	5.85
10/6/19 3:00	4.78	22.99	2.30	5.80
10/6/19 4:00	4.82	23.00	2.27	5.75
10/6/19 5:00	4.86	23.02	2.32	5.70
10/6/19 6:00	4.90	23.04	2.37	5.65
10/6/19 7:00	4.94	23.05	2.42	5.47
10/6/19 8:00	4.98	23.03	2.47	5.43
10/6/19 9:00	5.03	23.00	2.53	5.48
10/6/19 10:00	5.08	22.97	2.60	5.54
10/6/19 11:00	5.12	22.94	2.67	5.59
10/6/19 12:00	5.18	22.91	2.80	6.10
10/6/19 13:00	5.24	22.88	3.06	7.09
10/6/19 14:00	5.30	22.85	3.20	8.09
10/6/19 15:00	5.36	22.83	3.13	8.75
10/6/19 16:00	5.43	22.84	3.02	8.73
10/6/19 17:00	5.50	22.85	2.96	8.65
10/6/19 18:00	5.55	22.86	2.92	8.57
10/6/19 19:00	5.60	22.87	2.88	8.48
10/6/19 20:00	5.65	22.89	2.83	8.38
10/6/19 21:00	5.69	22.90	2.79	8.20
10/6/19 22:00	5.74	22.91	2.71	7.71
10/6/19 23:00	5.78	22.92	2.51	6.99
10/7/19 0:00	5.82	22.92	2.46	6.43
10/7/19 1:00	5.87	22.91	2.43	6.13
10/7/19 2:00	5.91	22.91	2.39	6.02
10/7/19 3:00	5.94	22.90	2.35	5.97
10/7/19 4:00	5.97	22.89	2.31	5.93
10/7/19 5:00	6.01	22.89	2.27	5.88
10/7/19 6:00	6.04	22.88	2.15	5.83
10/7/19 7:00	6.07	22.87	2.05	5.73
10/7/19 8:00	6.10	22.84	2.12	5.59
10/7/19 9:00	6.13	22.81	2.19	5.65
10/7/19 10:00	6.13	22.78	2.39	5.73
10/7/19 11:00	6.12	22.76	2.61	5.89
10/7/19 12:00	6.11	22.73	2.74	6.64
10/7/19 13:00	6.10	22.70	2.86	7.64
10/7/19 14:00	6.10	22.67	2.97	8.61
10/7/19 15:00	6.09	22.65	3.03	9.20
10/7/19 16:00	6.08	22.62	3.10	9.51
10/7/19 17:00	6.07	22.60	3.16	9.83
10/7/19 18:00	6.04	22.58	3.18	10.15
10/7/19 19:00	6.01	22.56	3.12	10.42
10/7/19 20:00	5.98	22.54	3.05	9.78
10/7/19 21:00	5.95	22.52	2.98	8.56
10/7/19 22:00	5.92	22.48	2.81	7.26
10/7/19 23:00	5.89	22.37	2.57	6.63
10/8/19 0:00	5.86	22.28	2.44	6.46
10/8/19 1:00	5.83	22.21	2.50	6.40
10/8/19 2:00	5.81	22.14	2.55	6.34
10/8/19 3:00	5.80	22.12	2.61	6.26
10/8/19 4:00	5.78	22.11	2.63	6.04
10/8/19 5:00	5.77	22.10	2.56	5.79
10/8/19 6:00	5.75	22.09	2.50	5.59
10/8/19 7:00	5.73	22.08	2.44	5.67

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/8/19 8:00	5.72	22.07	2.29	5.80
10/8/19 9:00	5.71	22.06	2.24	5.91
10/8/19 10:00	5.73	22.06	2.41	6.13
10/8/19 11:00	5.76	22.16	2.68	7.03
10/8/19 12:00	5.79	22.37	3.00	8.27
10/8/19 13:00	5.82	22.59	3.13	9.38
10/8/19 14:00	5.85	22.89	3.10	9.98
10/8/19 15:00	5.88	23.29	3.06	10.14
10/8/19 16:00	5.91	23.59	3.03	10.04
10/8/19 17:00	5.94	23.83	3.00	9.95
10/8/19 18:00	5.97	24.17	2.97	9.81
10/8/19 19:00	6.00	24.39	2.94	9.49
10/8/19 20:00	6.03	24.44	2.91	8.65
10/8/19 21:00	6.05	24.50	2.64	7.78
10/8/19 22:00	6.08	24.62	2.36	6.96
10/8/19 23:00	6.11	24.80	2.27	6.61
10/9/19 0:00	6.13	25.12	2.39	6.43
10/9/19 1:00	6.12	25.33	2.45	6.32
10/9/19 2:00	6.10	25.51	2.40	6.25
10/9/19 3:00	6.08	25.73	2.34	6.18
10/9/19 4:00	6.06	25.82	2.28	6.03
10/9/19 5:00	6.04	25.89	2.02	5.59
10/9/19 6:00	6.01	25.91	1.66	5.25
10/9/19 7:00	5.99	25.92	1.41	5.04
10/9/19 8:00	5.98	25.94	1.44	4.95
10/9/19 9:00	5.98	26.09	1.65	5.11
10/9/19 10:00	5.99	26.24	2.59	6.44
10/9/19 11:00	6.00	26.22	2.97	7.45
10/9/19 12:00	6.01	26.20	2.89	7.64
10/9/19 13:00	6.03	26.18	2.81	7.98
10/9/19 14:00	6.04	25.99	2.83	8.31
10/9/19 15:00	6.05	25.62	2.88	8.81
10/9/19 16:00	6.06	25.36	2.93	9.32
10/9/19 17:00	6.08	25.17	2.97	9.69
10/9/19 18:00	6.10	24.84	3.02	9.53
10/9/19 19:00	6.12	24.45	2.99	9.06
10/9/19 20:00	6.14	24.21	2.94	8.23
10/9/19 21:00	6.16	24.16	2.89	7.45
10/9/19 22:00	6.18	23.97	2.84	6.74
10/9/19 23:00	6.19	23.77	2.77	6.29
10/10/19 0:00	6.21	23.56	2.51	6.08
10/10/19 1:00	6.22	23.35	2.26	5.91
10/10/19 2:00	6.24	23.05	2.30	5.76
10/10/19 3:00	6.25	22.72	2.38	5.75
10/10/19 4:00	6.26	22.56	2.47	5.81
10/10/19 5:00	6.27	22.54	2.56	5.86
10/10/19 6:00	6.28	22.52	2.64	5.92
10/10/19 7:00	6.29	22.50	2.63	5.90
10/10/19 8:00	6.29	22.48	2.50	5.75
10/10/19 9:00	6.26	22.45	2.50	5.82
10/10/19 10:00	6.22	22.28	2.60	5.91
10/10/19 11:00	6.18	22.11	2.77	6.28
10/10/19 12:00	6.13	21.93	3.01	7.14
10/10/19 13:00	6.04	21.93	3.17	8.03
10/10/19 14:00	5.95	21.97	3.36	8.84
10/10/19 15:00	5.93	22.00	3.38	9.93
10/10/19 16:00	5.93	22.03	3.34	10.58
10/10/19 17:00	5.92	22.08	3.29	10.74
10/10/19 18:00	5.92	22.18	3.25	10.02

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/10/19 19:00	5.92	22.29	3.21	9.18
10/10/19 20:00	5.91	22.34	3.14	8.50
10/10/19 21:00	5.91	22.38	2.98	7.92
10/10/19 22:00	5.91	22.42	2.75	7.43
10/10/19 23:00	5.94	22.46	2.70	7.04
10/11/19 0:00	5.97	22.49	2.70	6.95
10/11/19 1:00	6.00	22.53	2.71	6.88
10/11/19 2:00	6.03	22.53	2.71	6.80
10/11/19 3:00	6.06	22.52	2.72	6.45
10/11/19 4:00	6.09	22.52	2.72	6.24
10/11/19 5:00	6.12	22.51	2.72	6.12
10/11/19 6:00	6.17	22.51	2.72	6.07
10/11/19 7:00	6.21	22.50	2.62	6.13
10/11/19 8:00	6.25	22.50	2.52	6.19
10/11/19 9:00	6.30	22.50	2.58	6.26
10/11/19 10:00	6.34	22.54	2.69	6.70
10/11/19 11:00	6.38	22.59	2.96	7.62
10/11/19 12:00	6.41	22.64	3.29	8.73
10/11/19 13:00	6.45	22.69	3.44	9.65
10/11/19 14:00	6.48	22.67	3.43	10.50
10/11/19 15:00	6.48	22.65	3.42	11.12
10/11/19 16:00	6.47	22.63	3.41	11.32
10/11/19 17:00	6.46	22.61	3.40	11.42
10/11/19 18:00	6.45	22.59	3.38	11.47
10/11/19 19:00	6.45	22.57	3.37	11.37
10/11/19 20:00	6.44	22.55	3.36	11.17
10/11/19 21:00	6.43	22.53	3.26	10.10
10/11/19 22:00	6.42	22.52	3.04	8.85
10/11/19 23:00	6.37	22.50	2.89	8.01
10/12/19 0:00	6.31	22.47	2.78	7.61
10/12/19 1:00	6.26	22.38	2.69	7.44
10/12/19 2:00	6.20	22.28	2.58	7.27
10/12/19 3:00	6.10	22.28	2.45	7.11
10/12/19 4:00	6.00	22.30	2.52	6.97
10/12/19 5:00	5.93	22.32	2.63	6.84
10/12/19 6:00	5.85	22.34	2.68	6.71
10/12/19 7:00	5.78	22.35	2.72	6.57
10/12/19 8:00	5.76	22.37	2.76	6.44
10/12/19 9:00	5.75	22.39	2.80	6.34
10/12/19 10:00	5.74	22.41	2.83	6.45
10/12/19 11:00	5.73	22.43	2.87	6.85
10/12/19 12:00	5.71	22.46	2.96	7.77
10/12/19 13:00	5.70	22.48	3.19	9.35
10/12/19 14:00	5.69	22.51	3.32	11.04
10/12/19 15:00	5.68	22.54	3.40	12.01
10/12/19 16:00	5.71	22.58	3.37	12.00
10/12/19 17:00	5.75	22.88	3.33	11.85
10/12/19 18:00	5.79	23.21	3.29	11.72
10/12/19 19:00	5.83	23.43	3.25	11.34
10/12/19 20:00	5.88	23.53	3.21	10.67
10/12/19 21:00	5.97	23.81	3.12	10.12
10/12/19 22:00	6.07	24.17	2.92	9.64
10/12/19 23:00	6.18	24.51	2.84	9.15
10/13/19 0:00	6.28	24.78	2.80	8.66
10/13/19 1:00	6.38	25.06	2.75	8.17
10/13/19 2:00	6.49	25.32	2.71	7.74
10/13/19 3:00	6.57	25.45	2.66	7.35
10/13/19 4:00	6.65	25.61	2.65	6.95
10/13/19 5:00	6.73	25.76	2.68	6.83

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/13/19 6:00	6.78	25.87	2.72	6.88
10/13/19 7:00	6.83	25.98	2.75	6.92
10/13/19 8:00	6.88	26.11	2.79	6.96
10/13/19 9:00	6.93	26.27	2.82	7.00
10/13/19 10:00	7.00	26.42	2.86	7.09
10/13/19 11:00	7.07	26.60	2.93	7.78
10/13/19 12:00	7.15	27.05	3.12	8.78
10/13/19 13:00	7.25	27.57	3.41	10.29
10/13/19 14:00	7.35	27.88	3.60	11.74
10/13/19 15:00	7.45	28.17	3.56	13.26
10/13/19 16:00	7.54	28.54	3.51	13.71
10/13/19 17:00	7.55	28.65	3.45	13.43
10/13/19 18:00	7.54	28.62	3.40	12.21
10/13/19 19:00	7.54	28.58	3.28	10.89
10/13/19 20:00	7.53	28.53	3.12	9.64
10/13/19 21:00	7.53	28.38	2.99	8.51
10/13/19 22:00	7.52	28.06	2.87	7.69
10/13/19 23:00	7.51	27.76	2.76	7.40
10/14/19 0:00	7.51	27.67	2.65	7.27
10/14/19 1:00	7.50	27.57	2.59	7.09
10/14/19 2:00	7.50	27.39	2.53	6.86
10/14/19 3:00	7.49	27.23	2.47	6.62
10/14/19 4:00	7.49	27.14	2.46	6.41
10/14/19 5:00	7.48	27.05	2.53	6.41
10/14/19 6:00	7.48	26.97	2.61	6.46
10/14/19 7:00	7.47	26.90	2.71	6.51
10/14/19 8:00	7.46	26.82	2.85	6.56
10/14/19 9:00	7.44	26.70	2.72	6.65
10/14/19 10:00	7.41	26.59	2.73	7.19
10/14/19 11:00	7.38	26.53	2.84	7.91
10/14/19 12:00	7.35	26.37	3.05	8.92
10/14/19 13:00	7.31	26.02	3.29	9.97
10/14/19 14:00	7.23	25.67	3.42	11.03
10/14/19 15:00	7.14	25.32	3.48	12.01
10/14/19 16:00	7.02	24.87	3.54	12.62
10/14/19 17:00	6.86	24.52	3.60	12.93
10/14/19 18:00	6.76	24.32	3.50	12.83
10/14/19 19:00	6.67	24.26	3.30	11.62
10/14/19 20:00	6.59	24.20	3.01	9.75
10/14/19 21:00	6.52	24.21	2.71	8.34
10/14/19 22:00	6.45	24.22	2.49	7.63
10/14/19 23:00	6.44	24.24	2.33	7.20
10/15/19 0:00	6.44	24.25	2.43	6.84
10/15/19 1:00	6.45	24.27	2.50	6.49
10/15/19 2:00	6.45	24.29	2.42	6.29
10/15/19 3:00	6.45	24.32	2.34	6.11
10/15/19 4:00	6.45	24.49	2.09	5.92
10/15/19 5:00	6.46	24.68	2.09	5.78
10/15/19 6:00	6.46	24.82	2.18	5.79
10/15/19 7:00	6.51	24.98	2.41	5.83
10/15/19 8:00	6.57	25.26	2.32	5.87
10/15/19 9:00	6.63	25.55	2.29	5.91
10/15/19 10:00	6.68	25.72	2.34	5.94
10/15/19 11:00	6.70	25.76	2.39	6.02
10/15/19 12:00	6.71	25.79	2.44	6.59
10/15/19 13:00	6.71	25.82	2.49	7.67
10/15/19 14:00	6.72	25.85	2.67	8.95
10/15/19 15:00	6.73	25.88	2.93	10.31
10/15/19 16:00	6.74	25.93	3.18	11.23

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/15/19 17:00	6.75	26.21	3.26	11.67
10/15/19 18:00	6.76	26.46	3.18	11.55
10/15/19 19:00	6.80	26.56	3.10	10.95
10/15/19 20:00	6.84	26.68	2.88	9.75
10/15/19 21:00	6.89	26.83	2.47	8.79
10/15/19 22:00	6.93	27.02	2.43	8.11
10/15/19 23:00	6.93	27.23	2.40	7.61
10/16/19 0:00	6.93	27.37	2.37	7.08
10/16/19 1:00	6.93	27.49	2.33	6.83
10/16/19 2:00	6.93	27.62	2.30	6.70
10/16/19 3:00	6.93	27.60	2.27	6.56
10/16/19 4:00	6.92	27.55	2.16	6.40
10/16/19 5:00	6.92	27.51	2.05	6.30
10/16/19 6:00	6.91	27.46	2.11	6.39
10/16/19 7:00	6.83	27.41	2.18	6.50
10/16/19 8:00	6.74	27.31	2.20	6.67
10/16/19 9:00	6.67	27.21	1.94	6.81
10/16/19 10:00	6.61	27.09	1.85	6.89
10/16/19 11:00	6.58	26.96	1.97	6.99
10/16/19 12:00	6.56	26.84	2.43	7.39
10/16/19 13:00	6.55	26.73	2.78	8.13
10/16/19 14:00	6.53	26.62	2.85	9.09
10/16/19 15:00	6.51	26.52	2.93	10.07
10/16/19 16:00	6.49	26.43	3.07	10.90
10/16/19 17:00	6.47	26.32	3.19	11.07
10/16/19 18:00	6.46	26.21	3.13	10.93
10/16/19 19:00	6.46	26.08	3.05	10.28
10/16/19 20:00	6.46	26.06	2.98	9.49
10/16/19 21:00	6.46	26.06	2.88	9.22
10/16/19 22:00	6.47	26.07	2.78	9.12
10/16/19 23:00	6.47	26.08	2.76	8.97
10/17/19 0:00	6.47	26.08	2.76	8.70
10/17/19 1:00	6.47	26.09	2.77	8.63
10/17/19 2:00	6.48	26.22	2.78	8.71
10/17/19 3:00	6.48	26.47	2.79	8.79
10/17/19 4:00	6.49	26.57	2.80	8.99
10/17/19 5:00	6.50	26.55	2.80	9.28
10/17/19 6:00	6.50	26.50	2.81	9.49
10/17/19 7:00	6.51	26.44	2.73	9.19
10/17/19 8:00	6.52	26.14	2.62	8.68
10/17/19 9:00	6.52	25.83	2.63	8.57
10/17/19 10:00	6.52	25.69	2.70	8.88
10/17/19 11:00	6.46	25.48	2.77	9.42
10/17/19 12:00	6.39	25.29	2.88	10.12
10/17/19 13:00	6.31	25.08	3.07	10.75
10/17/19 14:00	6.23	24.73	3.25	11.42
10/17/19 15:00	6.14	24.38	3.37	11.98
10/17/19 16:00	6.03	24.04	3.47	12.95
10/17/19 17:00	5.92	23.79	3.68	17.18
10/17/19 18:00	5.88	24.10	4.46	24.74
10/17/19 19:00	5.85	25.14	5.14	30.09
10/17/19 20:00	5.81	26.08	5.03	27.62
10/17/19 21:00	5.78	26.26	4.47	19.78
10/17/19 22:00	5.75	26.04	3.53	13.02
10/17/19 23:00	5.71	25.66	3.12	10.50
10/18/19 0:00	5.61	25.25	2.79	9.82
10/18/19 1:00	5.51	24.81	2.65	9.24
10/18/19 2:00	5.35	24.32	2.44	8.89
10/18/19 3:00	5.22	23.85	2.52	8.64

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/18/19 4:00	5.19	23.51	2.70	8.76
10/18/19 5:00	5.17	23.37	2.84	9.04
10/18/19 6:00	5.15	23.42	2.90	9.18
10/18/19 7:00	5.13	23.46	2.96	9.29
10/18/19 8:00	5.11	23.50	3.03	9.17
10/18/19 9:00	5.10	23.55	3.09	9.24
10/18/19 10:00	5.08	23.65	3.15	9.45
10/18/19 11:00	5.07	23.75	3.21	10.44
10/18/19 12:00	5.09	23.88	3.27	12.04
10/18/19 13:00	5.12	24.21	3.52	14.41
10/18/19 14:00	5.16	24.64	4.02	17.24
10/18/19 15:00	5.20	25.18	4.47	18.35
10/18/19 16:00	5.36	25.59	4.44	17.52
10/18/19 17:00	5.52	25.69	4.31	14.65
10/18/19 18:00	5.57	25.13	4.14	12.37
10/18/19 19:00	5.61	23.89	3.93	10.89
10/18/19 20:00	5.64	22.78	3.73	9.83
10/18/19 21:00	5.67	22.37	3.66	9.08
10/18/19 22:00	5.70	22.34	3.60	8.74
10/18/19 23:00	5.73	22.30	3.54	8.65
10/19/19 0:00	5.76	22.26	3.47	8.51
10/19/19 1:00	5.83	22.21	3.39	8.16
10/19/19 2:00	5.90	22.14	3.30	7.81
10/19/19 3:00	5.97	22.06	3.26	7.62
10/19/19 4:00	6.02	21.97	3.32	7.64
10/19/19 5:00	6.08	21.87	3.39	7.69
10/19/19 6:00	6.13	21.76	3.46	7.74
10/19/19 7:00	6.21	21.71	3.51	7.79
10/19/19 8:00	6.29	21.66	3.56	7.85
10/19/19 9:00	6.38	21.61	3.60	7.91
10/19/19 10:00	6.45	21.56	3.65	7.97
10/19/19 11:00	6.52	21.48	3.70	8.06
10/19/19 12:00	6.60	21.29	3.92	8.80
10/19/19 13:00	6.74	21.14	4.23	9.97
10/19/19 14:00	6.78	20.74	4.50	10.80
10/19/19 15:00	6.80	20.22	4.64	11.01
10/19/19 16:00	6.81	19.81	4.67	11.23
10/19/19 17:00	6.83	19.58	4.61	11.09
10/19/19 18:00	6.85	19.50	4.54	10.66
10/19/19 19:00	6.86	19.42	4.47	9.91
10/19/19 20:00	6.88	19.25	4.34	9.07
10/19/19 21:00	6.90	19.08	4.16	8.54
10/19/19 22:00	6.93	18.99	3.93	8.08
10/19/19 23:00	6.97	18.92	3.78	7.92
10/20/19 0:00	7.01	18.85	3.84	7.87
10/20/19 1:00	7.05	18.81	3.95	7.81
10/20/19 2:00	7.04	18.78	3.92	7.76
10/20/19 3:00	7.03	18.76	3.84	7.71
10/20/19 4:00	7.02	18.73	3.76	7.51
10/20/19 5:00	7.00	18.70	3.58	7.29
10/20/19 6:00	6.99	18.67	3.24	7.13
10/20/19 7:00	6.97	18.58	2.77	7.09
10/20/19 8:00	6.96	18.48	2.38	7.06
10/20/19 9:00	6.94	18.34	2.40	7.04
10/20/19 10:00	6.87	18.28	2.49	7.29
10/20/19 11:00	6.80	18.24	2.57	7.65
10/20/19 12:00	6.71	18.20	2.64	8.02
10/20/19 13:00	6.52	18.16	2.70	8.40
10/20/19 14:00	6.30	18.12	2.78	9.07

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRS	Gas Turbine	HRS
10/20/19 15:00	6.16	18.12	2.94	9.83
10/20/19 16:00	6.00	18.13	3.08	10.35
10/20/19 17:00	5.87	18.15	3.19	10.63
10/20/19 18:00	5.69	18.16	3.21	10.57
10/20/19 19:00	5.57	18.17	3.10	10.00
10/20/19 20:00	5.41	18.18	2.91	8.86
10/20/19 21:00	5.26	18.20	2.64	7.74
10/20/19 22:00	5.11	18.21	2.44	7.17
10/20/19 23:00	4.96	18.23	2.26	7.07
10/21/19 0:00	4.83	18.26	2.16	7.00
10/21/19 1:00	4.67	18.28	2.07	6.92
10/21/19 2:00	4.49	18.30	2.11	6.86
10/21/19 3:00	4.29	18.32	2.22	6.80
10/21/19 4:00	4.18	18.35	2.44	6.74
10/21/19 5:00	4.10	18.37	2.57	6.69
10/21/19 6:00	4.07	18.40	2.50	6.73
10/21/19 7:00	4.06	18.48	2.43	6.78
10/21/19 8:00	4.05	18.57	2.45	6.84
10/21/19 9:00	4.04	18.67	2.53	6.89
10/21/19 10:00	4.03	18.76	2.63	7.21
10/21/19 11:00	4.02	18.85	2.92	8.16
10/21/19 12:00	4.02	19.02	3.06	9.11
10/21/19 13:00	4.01	19.13	3.20	10.03
10/21/19 14:00	4.03	19.32	3.33	12.00
10/21/19 15:00	4.06	19.56	3.42	13.36
10/21/19 16:00	4.09	19.66	3.48	13.51
10/21/19 17:00	4.12	19.79	3.55	13.43
10/21/19 18:00	4.15	19.90	3.66	13.32
10/21/19 19:00	4.18	20.01	3.88	12.60
10/21/19 20:00	4.21	20.16	3.85	11.30
10/21/19 21:00	4.25	20.28	3.76	10.07
10/21/19 22:00	4.32	20.39	3.65	9.34
10/21/19 23:00	4.39	20.44	3.50	8.83
10/22/19 0:00	4.47	20.48	3.36	8.49
10/22/19 1:00	4.56	20.53	3.24	8.40
10/22/19 2:00	4.66	20.70	3.21	8.33
10/22/19 3:00	4.77	20.81	3.24	8.21
10/22/19 4:00	4.87	20.90	3.27	7.83
10/22/19 5:00	4.94	20.93	3.30	7.59
10/22/19 6:00	4.99	20.94	3.32	7.58
10/22/19 7:00	5.06	20.95	3.35	7.65
10/22/19 8:00	5.15	20.96	3.38	7.73
10/22/19 9:00	5.25	20.97	3.41	8.01
10/22/19 10:00	5.30	20.98	3.48	8.44
10/22/19 11:00	5.35	20.99	3.57	9.00
10/22/19 12:00	5.39	21.00	3.67	9.54
10/22/19 13:00	5.44	20.94	3.79	10.14
10/22/19 14:00	5.49	20.86	3.92	10.80
10/22/19 15:00	5.55	20.75	4.08	11.49
10/22/19 16:00	5.62	20.60	4.26	12.39
10/22/19 17:00	5.69	20.51	4.19	12.84
10/22/19 18:00	5.68	20.43	4.12	12.67
10/22/19 19:00	5.66	20.36	4.01	11.75
10/22/19 20:00	5.64	20.33	3.57	10.63
10/22/19 21:00	5.62	20.30	3.15	9.67
10/22/19 22:00	5.59	20.27	2.90	8.92
10/22/19 23:00	5.57	20.24	2.82	8.57
10/23/19 0:00	5.55	20.21	2.75	8.50
10/23/19 1:00	5.52	20.18	2.61	8.44

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/23/19 2:00	5.43	20.15	2.38	8.33
10/23/19 3:00	5.33	20.12	2.26	7.94
10/23/19 4:00	5.21	20.09	2.33	7.81
10/23/19 5:00	5.10	20.06	2.40	7.85
10/23/19 6:00	5.02	20.04	2.47	7.90
10/23/19 7:00	4.96	20.01	2.56	7.95
10/23/19 8:00	4.89	19.98	2.65	8.00
10/23/19 9:00	4.79	19.95	2.73	8.09
10/23/19 10:00	4.69	19.93	2.80	8.23
10/23/19 11:00	4.63	19.96	2.88	8.72
10/23/19 12:00	4.58	20.00	2.97	9.59
10/23/19 13:00	4.53	20.05	3.06	10.49
10/23/19 14:00	4.48	20.21	3.17	11.41
10/23/19 15:00	4.44	20.41	3.42	12.81
10/23/19 16:00	4.42	20.63	3.70	13.81
10/23/19 17:00	4.41	20.70	3.83	13.91
10/23/19 18:00	4.40	20.77	3.91	13.64
10/23/19 19:00	4.39	20.84	3.67	12.79
10/23/19 20:00	4.38	20.91	3.46	11.63
10/23/19 21:00	4.36	20.98	3.13	10.39
10/23/19 22:00	4.35	21.09	3.08	10.16
10/23/19 23:00	4.35	21.37	3.09	10.28
10/24/19 0:00	4.37	21.64	3.09	10.23
10/24/19 1:00	4.41	21.74	3.10	9.90
10/24/19 2:00	4.44	21.92	3.10	9.46
10/24/19 3:00	4.47	22.14	3.11	9.11
10/24/19 4:00	4.51	22.27	3.11	8.83
10/24/19 5:00	4.57	22.36	3.12	8.61
10/24/19 6:00	4.64	22.48	3.15	8.51
10/24/19 7:00	4.70	22.63	3.18	8.55
10/24/19 8:00	4.73	22.77	3.21	8.60
10/24/19 9:00	4.76	22.92	3.24	8.64
10/24/19 10:00	4.78	23.04	3.27	8.68
10/24/19 11:00	4.81	23.14	3.30	8.76
10/24/19 12:00	4.83	23.11	3.33	9.31
10/24/19 13:00	4.86	23.05	3.35	10.05
10/24/19 14:00	4.89	22.99	3.29	10.86
10/24/19 15:00	4.90	22.78	3.23	11.13
10/24/19 16:00	4.86	22.36	3.17	10.85
10/24/19 17:00	4.81	21.99	3.06	10.11
10/24/19 18:00	4.76	21.66	2.89	9.47
10/24/19 19:00	4.71	21.30	2.83	8.89
10/24/19 20:00	4.67	20.93	2.78	8.56
10/24/19 21:00	4.63	20.69	2.73	8.39
10/24/19 22:00	4.60	20.60	2.68	8.19
10/24/19 23:00	4.56	20.27	2.64	7.87
10/25/19 0:00	4.53	19.86	2.63	7.53
10/25/19 1:00	4.49	19.49	2.62	7.30
10/25/19 2:00	4.46	19.12	2.62	7.09
10/25/19 3:00	4.41	18.82	2.62	6.99
10/25/19 4:00	4.36	18.71	2.61	6.95
10/25/19 5:00	4.31	18.52	2.61	6.91
10/25/19 6:00	4.27	18.32	2.60	6.87
10/25/19 7:00	4.22	18.09	2.61	6.82
10/25/19 8:00	4.18	17.85	2.70	6.79
10/25/19 9:00	4.15	17.76	2.78	6.87
10/25/19 10:00	4.12	17.63	2.86	7.00
10/25/19 11:00	4.09	17.46	2.93	7.40
10/25/19 12:00	4.06	17.28	2.99	8.06

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/25/19 13:00	4.03	17.12	3.06	8.98
10/25/19 14:00	4.00	17.15	3.16	10.46
10/25/19 15:00	3.97	17.22	3.30	11.82
10/25/19 16:00	4.01	17.40	3.43	12.54
10/25/19 17:00	4.06	17.65	3.56	12.41
10/25/19 18:00	4.10	17.84	3.76	12.08
10/25/19 19:00	4.15	18.16	3.81	11.71
10/25/19 20:00	4.20	18.48	3.78	11.17
10/25/19 21:00	4.26	18.68	3.74	10.77
10/25/19 22:00	4.32	18.83	3.70	10.34
10/25/19 23:00	4.37	19.09	3.67	9.67
10/26/19 0:00	4.43	19.22	3.63	8.48
10/26/19 1:00	4.50	19.36	3.59	7.44
10/26/19 2:00	4.57	19.49	3.55	7.07
10/26/19 3:00	4.65	19.63	3.50	7.04
10/26/19 4:00	4.76	19.77	3.45	7.00
10/26/19 5:00	4.91	19.86	3.40	6.97
10/26/19 6:00	5.01	19.93	3.36	6.93
10/26/19 7:00	5.10	20.00	3.38	6.90
10/26/19 8:00	5.20	20.05	3.42	6.86
10/26/19 9:00	5.30	20.10	3.46	6.89
10/26/19 10:00	5.38	20.15	3.50	7.02
10/26/19 11:00	5.45	20.20	3.54	7.46
10/26/19 12:00	5.52	20.24	3.60	8.27
10/26/19 13:00	5.65	20.23	3.82	9.17
10/26/19 14:00	5.76	20.21	4.14	10.41
10/26/19 15:00	5.87	20.18	4.31	11.55
10/26/19 16:00	5.95	20.16	4.26	11.87
10/26/19 17:00	6.03	20.13	4.21	11.42
10/26/19 18:00	6.04	20.11	4.15	10.57
10/26/19 19:00	6.04	20.08	4.07	9.83
10/26/19 20:00	6.04	19.98	3.79	9.05
10/26/19 21:00	6.05	19.88	3.48	8.25
10/26/19 22:00	6.05	19.77	3.18	7.86
10/26/19 23:00	6.05	19.60	3.05	7.70
10/27/19 0:00	6.05	19.48	3.06	7.32
10/27/19 1:00	6.05	19.38	3.07	6.88
10/27/19 2:00	6.02	19.39	3.08	6.63
10/27/19 3:00	5.99	19.43	3.09	7.01
10/27/19 4:00	5.95	19.46	3.10	7.46
10/27/19 5:00	5.91	19.50	3.11	7.70
10/27/19 6:00	5.88	19.73	3.12	7.90
10/27/19 7:00	5.84	20.36	3.15	8.47
10/27/19 8:00	5.83	21.20	3.20	9.35
10/27/19 9:00	5.82	22.15	3.25	9.91
10/27/19 10:00	5.81	23.05	3.30	10.00
10/27/19 11:00	5.80	23.83	3.34	10.09
10/27/19 12:00	5.79	24.49	3.51	10.39
10/27/19 13:00	5.78	24.99	3.84	10.87
10/27/19 14:00	5.77	25.52	4.03	11.34
10/27/19 15:00	5.77	26.04	4.06	11.81
10/27/19 16:00	5.81	26.63	4.03	12.28
10/27/19 17:00	5.86	27.36	3.99	12.75
10/27/19 18:00	5.92	28.07	3.96	12.93
10/27/19 19:00	5.98	28.81	3.93	12.84
10/27/19 20:00	6.08	29.67	3.90	12.68
10/27/19 21:00	6.19	30.44	3.87	12.11
10/27/19 22:00	6.27	31.12	3.84	11.69
10/27/19 23:00	6.35	31.81	3.80	11.63

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/28/19 0:00	6.42	32.49	3.77	11.78
10/28/19 1:00	6.52	33.23	3.74	11.99
10/28/19 2:00	6.63	34.03	3.70	12.16
10/28/19 3:00	6.74	34.66	3.67	12.16
10/28/19 4:00	6.85	35.03	3.64	11.61
10/28/19 5:00	6.91	35.18	3.61	10.78
10/28/19 6:00	6.97	35.15	3.57	10.13
10/28/19 7:00	7.02	35.12	3.54	9.59
10/28/19 8:00	7.07	35.07	3.52	9.63
10/28/19 9:00	7.15	34.80	3.71	9.80
10/28/19 10:00	7.23	34.58	3.71	3.71
10/28/19 11:00	7.29	34.53	3.91	9.98
10/28/19 12:00	7.29	34.15	3.68	10.10
10/28/19 13:00	7.26	33.56	3.84	10.44
10/28/19 14:00	7.24	33.07	4.00	10.76
10/28/19 15:00	7.21	32.59	4.17	11.35
10/28/19 16:00	7.18	32.15	4.33	12.23
10/28/19 17:00	7.16	31.85	4.46	13.16
10/28/19 18:00	7.13	31.79	4.36	13.35
10/28/19 19:00	7.10	31.56	4.22	13.12
10/28/19 20:00	7.00	31.14	4.00	12.29
10/28/19 21:00	6.88	30.87	3.81	11.73
10/28/19 22:00	6.83	30.66	3.63	11.21
10/28/19 23:00	6.79	30.27	3.56	10.62
10/29/19 0:00	6.75	29.83	3.51	10.11
10/29/19 1:00	6.71	29.38	3.47	9.95
10/29/19 2:00	6.66	28.91	3.43	10.09
10/29/19 3:00	6.56	28.57	3.38	10.07
10/29/19 4:00	6.44	28.30	3.36	9.94
10/29/19 5:00	6.37	28.17	3.38	9.42
10/29/19 6:00	6.32	27.97	3.41	8.70
10/29/19 7:00	6.26	27.64	3.45	8.33
10/29/19 8:00	6.21	27.21	3.48	8.16
10/29/19 9:00	6.16	26.81	3.51	8.26
10/29/19 10:00	6.10	26.42	3.54	8.43
10/29/19 11:00	6.05	26.12	3.58	9.00
10/29/19 12:00	6.00	26.01	3.70	9.83
10/29/19 13:00	5.99	25.93	3.96	11.14
10/29/19 14:00	5.98	26.06	4.35	13.43
10/29/19 15:00	5.97	26.55	4.54	15.32
10/29/19 16:00	5.96	26.79	4.50	15.81
10/29/19 17:00	5.96	26.74	4.42	15.09
10/29/19 18:00	5.95	26.69	4.34	13.89
10/29/19 19:00	5.94	26.64	4.12	12.64
10/29/19 20:00	5.94	26.58	3.88	11.75
10/29/19 21:00	5.92	26.40	3.75	10.88
10/29/19 22:00	5.91	26.22	3.63	10.51
10/29/19 23:00	5.90	26.14	3.54	10.45
10/30/19 0:00	5.89	26.08	3.48	10.39
10/30/19 1:00	5.87	26.01	3.43	10.26
10/30/19 2:00	5.86	25.84	3.38	9.54
10/30/19 3:00	5.85	25.52	3.33	9.00
10/30/19 4:00	5.84	25.22	3.34	8.54
10/30/19 5:00	5.82	25.10	3.36	8.38
10/30/19 6:00	5.80	24.92	3.39	8.31
10/30/19 7:00	5.78	24.79	3.41	8.25
10/30/19 8:00	5.76	24.68	3.44	8.17
10/30/19 9:00	5.74	24.69	3.46	8.02
10/30/19 10:00	5.72	24.74	3.48	8.82

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
10/30/19 11:00	5.70	24.79	3.53	10.12
10/30/19 12:00	5.68	24.94	3.76	11.59
10/30/19 13:00	5.66	25.25	4.02	12.43
10/30/19 14:00	5.65	25.33	4.15	12.94
10/30/19 15:00	5.63	25.03	4.23	13.45
10/30/19 16:00	5.62	24.91	4.19	13.72
10/30/19 17:00	5.60	24.79	4.14	13.63
10/30/19 18:00	5.59	24.75	4.09	13.25
10/30/19 19:00	5.57	24.74	4.04	12.60
10/30/19 20:00	5.56	24.73	3.96	11.95
10/30/19 21:00	5.59	24.71	3.82	11.30
10/30/19 22:00	5.64	24.70	3.61	10.54
10/30/19 23:00	5.68	24.69	3.48	9.74
10/31/19 0:00	5.72	24.68	3.42	9.53
10/31/19 1:00	5.77	24.67	3.35	9.54
10/31/19 2:00	5.80	24.74	3.29	9.61
10/31/19 3:00	5.83	24.90	3.20	9.37
10/31/19 4:00	5.86	25.08	3.10	8.80
10/31/19 5:00	5.89	25.19	3.00	8.28
10/31/19 6:00	5.93	25.35	2.89	8.15
10/31/19 7:00	5.99	25.54	2.75	8.04
10/31/19 8:00	6.07	25.64	2.61	7.83
10/31/19 9:00	6.14	25.70	2.67	7.87
10/31/19 10:00	6.19	25.69	2.78	7.97
10/31/19 11:00	6.22	25.66	2.90	8.31
10/31/19 12:00	6.25	25.53	3.04	8.87
10/31/19 13:00	6.29	25.26	3.29	9.77
10/31/19 14:00	6.32	25.00	3.59	10.69
10/31/19 15:00	6.35	24.81	3.90	12.12
10/31/19 16:00	6.39	24.56	4.19	12.98
10/31/19 17:00	6.46	24.47	4.35	13.21
10/31/19 18:00	6.54	24.39	4.24	12.46
10/31/19 19:00	6.61	24.32	4.07	11.43
10/31/19 20:00	6.66	24.24	3.82	10.44
10/31/19 21:00	6.69	24.16	3.63	9.53
10/31/19 22:00	6.72	24.03	3.58	8.76
10/31/19 23:00	6.75	23.89	3.53	8.45
11/1/19 0:00	6.78	23.79	3.48	8.57
11/1/19 1:00	6.81	23.69	3.43	8.58
11/1/19 2:00	6.84	23.59	3.38	8.45
11/1/19 3:00	6.87	23.49	3.32	8.19
11/1/19 4:00	6.90	23.41	3.27	7.80
11/1/19 5:00	6.93	23.33	3.21	7.44
11/1/19 6:00	6.96	23.24	3.12	7.27
11/1/19 7:00	6.99	23.15	3.01	7.13
11/1/19 8:00	7.02	23.05	2.89	6.96
11/1/19 9:00	7.05	22.95	2.78	6.79
11/1/19 10:00	7.06	22.86	2.75	6.63
11/1/19 11:00	7.06	22.77	2.87	6.90
11/1/19 12:00	7.07	22.69	3.05	7.55
11/1/19 13:00	7.07	22.61	3.36	8.32
11/1/19 14:00	7.07	22.47	3.54	8.81
11/1/19 15:00	7.08	22.27	3.63	9.35
11/1/19 16:00	7.08	21.98	3.60	9.78
11/1/19 17:00	7.08	21.66	3.57	9.86
11/1/19 18:00	7.05	21.54	3.53	9.82
11/1/19 19:00	7.01	21.36	3.50	9.78
11/1/19 20:00	6.97	21.30	3.47	9.74
11/1/19 21:00	6.93	21.28	3.44	9.69

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/1/19 22:00	6.89	21.26	3.39	9.58
11/1/19 23:00	6.87	21.24	3.21	8.87
11/2/19 0:00	6.86	21.23	3.07	8.12
11/2/19 1:00	6.86	21.21	2.98	7.74
11/2/19 2:00	6.85	21.19	2.90	7.51
11/2/19 3:00	6.84	21.18	2.88	7.26
11/2/19 4:00	6.83	21.20	2.86	7.08
11/2/19 5:00	6.82	21.24	2.84	7.14
11/2/19 6:00	6.81	21.28	2.82	7.22
11/2/19 7:00	6.81	21.31	2.81	7.26
11/2/19 8:00	6.81	21.35	2.79	7.14
11/2/19 9:00	6.81	21.39	2.77	7.09
11/2/19 10:00	6.81	21.46	2.78	7.19
11/2/19 11:00	6.81	21.54	2.86	7.33
11/2/19 12:00	6.81	21.62	2.95	7.88
11/2/19 13:00	6.80	21.76	3.12	8.85
11/2/19 14:00	6.81	22.15	3.41	10.06
11/2/19 15:00	6.88	22.86	3.66	11.90
11/2/19 16:00	6.95	23.75	3.90	12.93
11/2/19 17:00	7.02	24.42	3.86	12.98
11/2/19 18:00	7.08	24.90	3.73	12.32
11/2/19 19:00	7.14	25.15	3.60	11.43
11/2/19 20:00	7.20	25.19	3.46	10.69
11/2/19 21:00	7.21	25.22	3.34	9.85
11/2/19 22:00	7.20	25.26	3.24	9.06
11/2/19 23:00	7.20	25.29	3.18	8.58
11/3/19 0:00	7.20	25.33	3.13	8.47
11/3/19 1:00	7.19	25.36	3.08	8.38
11/3/19 1:00	7.19	25.40	3.03	8.14
11/3/19 2:00	7.18	25.44	2.99	7.75
11/3/19 3:00	7.17	25.48	2.98	7.52
11/3/19 4:00	7.13	25.51	2.99	7.37
11/3/19 5:00	7.07	25.54	2.99	7.12
11/3/19 6:00	7.01	25.50	2.99	6.89
11/3/19 7:00	6.96	25.43	3.00	6.61
11/3/19 8:00	6.97	25.36	3.00	6.60
11/3/19 9:00	7.00	25.39	3.01	7.03
11/3/19 10:00	7.02	25.44	3.02	7.50
11/3/19 11:00	7.05	25.49	3.14	7.97
11/3/19 12:00	7.08	25.54	3.28	8.33
11/3/19 13:00	7.10	25.52	3.50	8.97
11/3/19 14:00	7.13	25.38	3.91	10.07
11/3/19 15:00	7.16	24.93	4.18	10.88
11/3/19 16:00	7.22	24.30	4.40	11.22
11/3/19 17:00	7.28	23.86	4.53	11.44
11/3/19 18:00	7.35	23.74	4.46	11.60
11/3/19 19:00	7.45	23.71	4.36	11.29
11/3/19 20:00	7.55	23.70	4.11	10.26
11/3/19 21:00	7.64	23.69	3.86	9.41
11/3/19 22:00	7.73	23.69	3.66	8.82
11/3/19 23:00	7.82	23.68	3.63	8.60
11/4/19 0:00	7.94	23.67	3.62	8.38
11/4/19 1:00	8.06	23.66	3.61	8.24
11/4/19 2:00	8.20	23.66	3.60	8.14
11/4/19 3:00	8.35	23.74	3.59	8.05
11/4/19 4:00	8.54	23.84	3.59	7.97
11/4/19 5:00	8.67	23.87	3.58	7.89
11/4/19 6:00	8.77	23.87	3.54	7.75
11/4/19 7:00	8.88	23.88	3.40	7.22

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/4/19 8:00	8.96	23.89	3.38	7.12
11/4/19 9:00	9.03	23.90	3.49	7.23
11/4/19 10:00	9.10	23.90	3.65	7.65
11/4/19 11:00	9.18	23.91	3.88	8.44
11/4/19 12:00	9.25	23.92	4.03	9.32
11/4/19 13:00	9.32	24.00	4.21	10.45
11/4/19 14:00	9.35	24.09	4.45	11.47
11/4/19 15:00	9.36	24.19	4.72	12.32
11/4/19 16:00	9.37	24.29	4.88	12.40
11/4/19 17:00	9.38	24.35	4.79	12.22
11/4/19 18:00	9.39	24.39	4.70	11.88
11/4/19 19:00	9.40	24.45	4.57	11.37
11/4/19 20:00	9.41	24.65	4.25	10.85
11/4/19 21:00	9.41	24.80	3.90	10.24
11/4/19 22:00	9.37	24.91	3.76	9.58
11/4/19 23:00	9.31	24.96	3.70	9.21
11/5/19 0:00	9.24	24.98	3.65	8.97
11/5/19 1:00	9.18	25.01	3.59	8.83
11/5/19 2:00	9.10	25.03	3.54	8.79
11/5/19 3:00	9.01	25.06	3.49	8.74
11/5/19 4:00	8.94	25.09	3.45	8.69
11/5/19 5:00	8.88	25.18	3.40	8.64
11/5/19 6:00	8.81	25.28	3.36	8.66
11/5/19 7:00	8.74	25.43	3.31	8.78
11/5/19 8:00	8.67	25.68	3.36	8.96
11/5/19 9:00	8.60	26.04	3.47	9.46
11/5/19 10:00	8.52	26.39	3.62	10.11
11/5/19 11:00	8.44	26.71	3.86	10.99
11/5/19 12:00	8.43	27.12	4.21	12.30
11/5/19 13:00	8.42	27.68	4.56	13.23
11/5/19 14:00	8.42	28.12	4.92	13.54
11/5/19 15:00	8.42	28.37	5.04	13.29
11/5/19 16:00	8.41	28.44	4.97	12.96
11/5/19 17:00	8.41	28.51	4.90	12.70
11/5/19 18:00	8.41	28.55	4.83	12.22
11/5/19 19:00	8.40	28.58	4.69	11.85
11/5/19 20:00	8.41	28.63	4.49	11.65
11/5/19 21:00	8.41	28.82	4.24	11.41
11/5/19 22:00	8.41	29.05	4.02	10.87
11/5/19 23:00	8.42	29.18	3.81	9.98
11/6/19 0:00	8.42	29.28	3.61	9.35
11/6/19 1:00	8.43	29.38	3.41	8.99
11/6/19 2:00	8.43	29.48	3.36	8.88
11/6/19 3:00	8.44	29.59	3.38	8.80
11/6/19 4:00	8.47	29.70	3.39	8.90
11/6/19 5:00	8.50	29.88	3.40	9.31
11/6/19 6:00	8.53	30.27	3.41	9.48
11/6/19 7:00	8.57	30.70	3.42	9.36
11/6/19 8:00	8.60	30.81	3.43	9.31
11/6/19 9:00	8.63	30.83	3.45	9.38
11/6/19 10:00	8.66	30.83	3.65	9.45
11/6/19 11:00	8.67	30.83	3.90	9.58
11/6/19 12:00	8.67	30.73	4.22	10.47
11/6/19 13:00	8.66	30.62	4.61	11.95
11/6/19 14:00	8.66	30.68	5.00	13.41
11/6/19 15:00	8.66	30.74	5.09	13.88
11/6/19 16:00	8.66	30.79	5.07	13.71
11/6/19 17:00	8.66	30.76	4.78	12.75
11/6/19 18:00	8.65	30.71	4.52	11.83

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/6/19 19:00	8.59	30.66	4.25	11.00
11/6/19 20:00	8.51	30.59	3.99	10.40
11/6/19 21:00	8.43	30.40	3.85	9.97
11/6/19 22:00	8.35	30.40	3.76	9.86
11/6/19 23:00	8.28	30.46	3.66	9.80
11/7/19 0:00	8.25	30.52	3.54	9.74
11/7/19 1:00	8.24	30.63	3.44	9.70
11/7/19 2:00	8.22	30.76	3.46	9.77
11/7/19 3:00	8.21	30.97	3.51	9.84
11/7/19 4:00	8.19	31.17	3.55	9.92
11/7/19 5:00	8.17	31.16	3.60	9.99
11/7/19 6:00	8.16	31.08	3.64	10.07
11/7/19 7:00	8.14	31.01	3.68	10.20
11/7/19 8:00	8.11	31.08	3.72	10.59
11/7/19 9:00	8.07	31.18	3.76	11.06
11/7/19 10:00	8.04	31.39	3.80	11.30
11/7/19 11:00	8.00	31.77	3.83	11.49
11/7/19 12:00	7.97	32.16	3.87	12.26
11/7/19 13:00	7.93	32.38	4.12	13.22
11/7/19 14:00	7.90	32.37	4.57	13.80
11/7/19 15:00	7.88	32.35	4.88	14.15
11/7/19 16:00	7.86	32.34	4.87	14.31
11/7/19 17:00	7.84	32.33	4.77	13.53
11/7/19 18:00	7.83	32.31	4.55	12.04
11/7/19 19:00	7.81	32.30	4.02	10.39
11/7/19 20:00	7.79	32.28	3.76	9.43
11/7/19 21:00	7.78	32.15	3.64	9.01
11/7/19 22:00	7.76	31.89	3.60	9.01
11/7/19 23:00	7.74	31.55	3.56	9.09
11/8/19 0:00	7.72	31.44	3.52	9.17
11/8/19 1:00	7.70	31.25	3.48	9.36
11/8/19 2:00	7.68	30.97	3.44	9.32
11/8/19 3:00	7.66	30.68	3.41	9.12
11/8/19 4:00	7.65	30.55	3.42	8.92
11/8/19 5:00	7.63	30.35	3.46	8.97
11/8/19 6:00	7.61	30.17	3.49	9.02
11/8/19 7:00	7.62	29.96	3.53	9.07
11/8/19 8:00	7.63	29.86	3.56	9.12
11/8/19 9:00	7.65	29.88	3.60	9.31
11/8/19 10:00	7.66	29.92	3.64	9.99
11/8/19 11:00	7.68	30.11	3.79	10.92
11/8/19 12:00	7.69	30.36	3.89	11.52
11/8/19 13:00	7.70	30.29	3.88	11.56
11/8/19 14:00	7.71	30.16	3.87	11.51
11/8/19 15:00	7.63	29.91	3.85	11.46
11/8/19 16:00	7.54	29.51	3.84	11.40
11/8/19 17:00	7.35	29.29	3.83	11.16
11/8/19 18:00	7.23	29.30	3.82	10.94
11/8/19 19:00	7.13	29.31	3.81	10.57
11/8/19 20:00	7.03	29.32	3.64	9.92
11/8/19 21:00	6.93	29.33	3.30	9.04
11/8/19 22:00	6.81	29.35	3.09	8.70
11/8/19 23:00	6.69	29.36	3.00	8.44
11/9/19 0:00	6.59	29.37	2.93	8.18
11/9/19 1:00	6.51	29.37	2.85	7.93
11/9/19 2:00	6.46	29.37	2.84	7.94
11/9/19 3:00	6.42	29.38	2.89	8.04
11/9/19 4:00	6.39	29.38	2.93	8.16
11/9/19 5:00	6.35	29.38	2.98	8.32

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/9/19 6:00	6.31	29.38	3.03	8.42
11/9/19 7:00	6.28	29.38	3.14	8.51
11/9/19 8:00	6.24	29.38	3.42	9.08
11/9/19 9:00	6.21	29.33	3.39	9.68
11/9/19 10:00	6.17	29.26	3.29	10.31
11/9/19 11:00	6.09	28.92	3.34	10.58
11/9/19 12:00	5.93	28.29	3.58	10.90
11/9/19 13:00	5.92	28.11	3.98	11.87
11/9/19 14:00	5.95	28.15	4.22	12.87
11/9/19 15:00	5.98	28.19	4.27	13.29
11/9/19 16:00	6.01	28.23	4.19	12.78
11/9/19 17:00	6.04	28.24	4.10	12.06
11/9/19 18:00	6.07	28.25	3.92	11.04
11/9/19 19:00	6.10	28.13	3.69	10.08
11/9/19 20:00	6.13	27.89	3.42	9.34
11/9/19 21:00	6.15	27.86	3.23	9.04
11/9/19 22:00	6.16	27.84	3.10	8.79
11/9/19 23:00	6.18	27.82	3.01	8.51
11/10/19 0:00	6.19	27.80	2.94	8.14
11/10/19 1:00	6.20	27.78	2.87	8.11
11/10/19 2:00	6.22	27.76	2.89	8.20
11/10/19 3:00	6.23	27.74	2.94	8.29
11/10/19 4:00	6.24	27.69	2.99	8.37
11/10/19 5:00	6.22	27.63	3.04	8.45
11/10/19 6:00	6.18	27.57	3.09	8.57
11/10/19 7:00	6.15	27.55	3.20	9.03
11/10/19 8:00	6.12	27.53	3.33	9.09
11/10/19 9:00	6.09	27.31	3.40	8.98
11/10/19 10:00	6.06	26.78	3.46	9.06
11/10/19 11:00	6.03	26.49	3.53	9.28
11/10/19 12:00	5.98	26.44	3.61	10.09
11/10/19 13:00	5.92	26.28	3.85	10.91
11/10/19 14:00	5.86	26.01	4.11	11.77
11/10/19 15:00	5.81	25.91	4.33	12.69
11/10/19 16:00	5.76	25.87	4.44	12.97
11/10/19 17:00	5.71	25.84	4.31	12.53
11/10/19 18:00	5.66	25.80	3.87	11.22
11/10/19 19:00	5.61	25.71	3.33	10.08
11/10/19 20:00	5.55	25.62	2.84	9.21
11/10/19 21:00	5.49	25.48	2.61	8.66
11/10/19 22:00	5.43	25.30	2.52	8.34
11/10/19 23:00	5.37	25.23	2.56	8.44
11/11/19 0:00	5.29	25.19	2.61	8.67
11/11/19 1:00	5.21	25.16	2.66	8.66
11/11/19 2:00	5.14	25.12	2.70	8.50
11/11/19 3:00	5.07	25.09	2.70	8.32
11/11/19 4:00	5.00	25.05	2.61	8.30
11/11/19 5:00	4.94	25.02	2.53	8.35
11/11/19 6:00	4.89	24.99	2.54	8.39
11/11/19 7:00	4.83	24.87	2.62	8.43
11/11/19 8:00	4.77	24.71	2.72	8.48
11/11/19 9:00	4.74	24.74	2.86	8.74
11/11/19 10:00	4.72	24.77	2.98	9.34
11/11/19 11:00	4.69	24.80	3.05	10.02
11/11/19 12:00	4.67	24.82	3.12	10.51
11/11/19 13:00	4.64	24.85	3.21	10.87
11/11/19 14:00	4.62	24.88	3.38	11.07
11/11/19 15:00	4.59	24.90	3.39	11.25
11/11/19 16:00	4.57	24.80	3.31	11.43

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/11/19 17:00	4.56	24.78	3.22	11.61
11/11/19 18:00	4.55	24.79	3.09	11.40
11/11/19 19:00	4.54	24.81	2.95	10.43
11/11/19 20:00	4.53	24.82	2.88	9.57
11/11/19 21:00	4.52	24.83	2.81	9.23
11/11/19 22:00	4.51	24.84	2.75	9.02
11/11/19 23:00	4.50	24.86	2.70	8.92
11/12/19 0:00	4.49	24.87	2.66	8.87
11/12/19 1:00	4.49	24.88	2.63	8.82
11/12/19 2:00	4.48	24.90	2.60	8.77
11/12/19 3:00	4.48	24.91	2.56	8.65
11/12/19 4:00	4.48	24.92	2.53	8.26
11/12/19 5:00	4.48	24.94	2.50	8.16
11/12/19 6:00	4.48	24.95	2.47	8.09
11/12/19 7:00	4.48	24.96	2.51	8.03
11/12/19 8:00	4.47	24.97	2.55	7.73
11/12/19 9:00	4.45	24.94	2.59	7.70
11/12/19 10:00	4.42	24.89	2.63	7.77
11/12/19 11:00	4.39	24.75	2.67	7.85
11/12/19 12:00	4.36	24.49	2.71	7.99
11/12/19 13:00	4.33	24.28	2.83	8.27
11/12/19 14:00	4.31	23.99	2.94	8.80
11/12/19 15:00	4.28	23.87	2.92	9.27
11/12/19 16:00	4.25	23.76	2.89	9.63
11/12/19 17:00	4.22	23.66	2.85	9.98
11/12/19 18:00	4.19	23.61	2.82	10.31
11/12/19 19:00	4.17	23.58	2.78	10.21
11/12/19 20:00	4.14	23.55	2.75	9.44
11/12/19 21:00	4.11	23.51	2.66	8.68
11/12/19 22:00	4.09	23.47	2.41	8.25
11/12/19 23:00	4.06	23.35	2.31	7.95
11/13/19 0:00	4.03	23.22	2.21	7.71
11/13/19 1:00	4.01	23.10	2.08	7.47
11/13/19 2:00	3.98	23.02	1.98	7.39
11/13/19 3:00	3.96	22.94	2.12	7.32
11/13/19 4:00	3.93	22.86	2.37	7.21
11/13/19 5:00	3.91	22.75	2.26	6.80
11/13/19 6:00	3.88	22.52	2.20	6.62
11/13/19 7:00	3.86	22.23	2.26	6.54
11/13/19 8:00	3.83	21.94	2.31	6.60
11/13/19 9:00	3.81	21.64	2.36	6.68
11/13/19 10:00	3.78	21.53	2.41	6.81
11/13/19 11:00	3.75	21.33	2.47	7.32
11/13/19 12:00	3.73	21.24	2.54	7.96
11/13/19 13:00	3.70	21.18	2.60	8.40
11/13/19 14:00	3.68	21.13	2.66	8.73
11/13/19 15:00	3.65	21.07	2.72	9.32
11/13/19 16:00	3.63	20.99	2.78	9.50
11/13/19 17:00	3.63	20.88	2.84	9.37
11/13/19 18:00	3.63	20.59	2.85	9.15
11/13/19 19:00	3.63	20.27	2.74	8.74
11/13/19 20:00	3.63	20.19	2.68	8.34
11/13/19 21:00	3.63	20.04	2.72	7.90
11/13/19 22:00	3.63	19.94	2.76	7.77
11/13/19 23:00	3.63	19.86	2.80	7.83
11/14/19 0:00	3.64	19.74	2.84	7.88
11/14/19 1:00	3.66	19.60	2.88	7.93
11/14/19 2:00	3.69	19.48	2.92	8.02
11/14/19 3:00	3.72	19.28	2.93	8.26

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/14/19 4:00	3.75	19.23	2.95	8.61
11/14/19 5:00	3.78	19.22	2.96	8.67
11/14/19 6:00	3.81	19.21	2.98	8.58
11/14/19 7:00	3.84	19.20	2.99	8.50
11/14/19 8:00	3.88	19.19	3.01	8.57
11/14/19 9:00	3.92	19.18	3.02	8.79
11/14/19 10:00	3.96	19.17	3.05	9.46
11/14/19 11:00	4.00	19.17	3.11	10.26
11/14/19 12:00	4.04	19.18	3.18	11.14
11/14/19 13:00	4.08	19.20	3.25	12.01
11/14/19 14:00	4.08	19.22	3.23	12.07
11/14/19 15:00	4.06	19.24	3.14	11.77
11/14/19 16:00	4.05	19.26	3.06	10.92
11/14/19 17:00	4.03	19.28	3.04	10.36
11/14/19 18:00	4.01	19.30	3.04	10.19
11/14/19 19:00	4.00	19.32	3.05	10.23
11/14/19 20:00	3.98	19.34	3.05	10.31
11/14/19 21:00	3.97	19.38	3.05	10.45
11/14/19 22:00	3.96	19.56	3.06	10.57
11/14/19 23:00	3.96	19.76	3.06	10.48
11/15/19 0:00	3.96	19.92	3.06	10.40
11/15/19 1:00	3.96	20.04	2.97	10.42
11/15/19 2:00	3.96	20.14	2.85	10.45
11/15/19 3:00	3.96	20.20	2.67	10.49
11/15/19 4:00	3.96	20.25	2.65	10.53
11/15/19 5:00	3.96	20.30	2.80	10.57
11/15/19 6:00	3.97	20.35	2.99	10.60
11/15/19 7:00	3.98	20.50	3.16	10.58
11/15/19 8:00	4.00	20.81	3.22	10.45
11/15/19 9:00	4.01	21.04	3.27	10.47
11/15/19 10:00	4.02	21.13	3.31	10.65
11/15/19 11:00	4.04	21.29	3.36	11.29
11/15/19 12:00	4.05	21.47	3.41	12.08
11/15/19 13:00	4.07	21.64	3.53	12.79
11/15/19 14:00	4.13	21.80	3.75	13.70
11/15/19 15:00	4.20	22.12	3.99	14.73
11/15/19 16:00	4.27	22.57	4.05	15.33
11/15/19 17:00	4.35	22.86	4.11	15.21
11/15/19 18:00	4.42	22.93	4.18	14.62
11/15/19 19:00	4.50	23.04	4.16	13.69
11/15/19 20:00	4.56	23.14	4.03	12.68
11/15/19 21:00	4.62	23.15	3.88	11.79
11/15/19 22:00	4.67	23.13	3.76	11.51
11/15/19 23:00	4.73	23.11	3.85	11.69
11/16/19 0:00	4.80	23.09	3.94	11.87
11/16/19 1:00	4.87	23.07	3.85	11.74
11/16/19 2:00	4.95	23.05	3.69	10.94
11/16/19 3:00	5.00	23.03	3.51	10.27
11/16/19 4:00	5.06	23.01	3.51	10.26
11/16/19 5:00	5.11	22.98	3.54	10.36
11/16/19 6:00	5.16	22.95	3.56	10.47
11/16/19 7:00	5.18	22.91	3.58	10.62
11/16/19 8:00	5.19	22.72	3.60	10.94
11/16/19 9:00	5.19	22.58	3.63	11.21
11/16/19 10:00	5.20	22.46	3.65	11.28
11/16/19 11:00	5.20	22.26	3.72	11.36
11/16/19 12:00	5.21	21.96	4.00	11.68
11/16/19 13:00	5.22	21.68	4.36	12.74
11/16/19 14:00	5.22	21.61	4.70	14.00

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/16/19 15:00	5.22	21.50	4.86	15.01
11/16/19 16:00	5.22	21.43	4.79	15.63
11/16/19 17:00	5.22	21.39	4.62	15.12
11/16/19 18:00	5.22	21.35	3.75	11.71
11/16/19 19:00	5.22	21.30	3.14	10.37
11/16/19 20:00	5.22	21.16	2.75	9.58
11/16/19 21:00	5.22	20.97	2.40	8.97
11/16/19 22:00	5.21	20.78	2.29	8.72
11/16/19 23:00	5.12	20.63	2.26	8.58
11/17/19 0:00	5.02	20.39	2.24	8.51
11/17/19 1:00	4.92	20.15	2.21	8.46
11/17/19 2:00	4.82	20.11	2.18	8.40
11/17/19 3:00	4.73	20.06	2.15	8.17
11/17/19 4:00	4.65	20.01	2.12	7.80
11/17/19 5:00	4.58	19.90	2.10	7.59
11/17/19 6:00	4.52	19.72	2.12	7.43
11/17/19 7:00	4.46	19.56	2.16	7.34
11/17/19 8:00	4.40	19.40	2.20	7.43
11/17/19 9:00	4.32	19.21	2.23	7.57
11/17/19 10:00	4.24	19.00	2.27	7.89
11/17/19 11:00	4.16	18.86	2.31	8.37
11/17/19 12:00	4.06	18.74	2.40	9.00
11/17/19 13:00	3.95	18.59	2.53	9.81
11/17/19 14:00	3.84	18.29	2.63	10.83
11/17/19 15:00	3.71	17.94	2.70	11.57
11/17/19 16:00	3.51	17.56	2.78	11.92
11/17/19 17:00	3.39	17.16	2.79	12.23
11/17/19 18:00	3.31	16.97	2.73	12.20
11/17/19 19:00	3.27	16.94	2.67	12.09
11/17/19 20:00	3.25	16.91	2.61	11.03
11/17/19 21:00	3.22	16.88	2.54	9.87
11/17/19 22:00	3.19	16.85	2.46	9.49
11/17/19 23:00	3.17	16.82	2.37	9.05
11/18/19 0:00	3.14	16.79	2.34	8.65
11/18/19 1:00	3.12	16.71	2.33	8.41
11/18/19 2:00	3.09	16.53	2.33	8.55
11/18/19 3:00	3.09	16.49	2.33	8.49
11/18/19 4:00	3.10	16.50	2.33	8.41
11/18/19 5:00	3.11	16.51	2.33	8.28
11/18/19 6:00	3.12	16.52	2.32	8.02
11/18/19 7:00	3.13	16.53	2.32	7.87
11/18/19 8:00	3.14	16.54	2.32	7.91
11/18/19 9:00	3.14	16.55	2.33	7.98
11/18/19 10:00	3.15	16.56	2.33	8.05
11/18/19 11:00	3.15	16.53	2.33	8.19
11/18/19 12:00	3.14	16.50	2.33	8.37
11/18/19 13:00	3.13	16.46	2.33	8.50
11/18/19 14:00	3.13	16.43	2.33	8.57
11/18/19 15:00	3.12	16.39	3.35	10.51
11/18/19 16:00	3.11	16.36	4.36	12.45
11/18/19 17:00	3.10	16.39	4.17	12.33
11/18/19 18:00	3.11	16.43	4.04	12.18
11/18/19 19:00	3.18	16.49	3.95	12.08
11/18/19 20:00	3.27	16.75	3.85	11.94
11/18/19 21:00	3.35	17.07	3.75	11.56
11/18/19 22:00	3.42	17.34	3.66	11.02
11/18/19 23:00	3.50	17.61	3.59	10.48
11/19/19 0:00	3.58	17.81	3.52	9.93
11/19/19 1:00	3.65	18.10	3.45	9.49

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/19/19 2:00	3.72	18.23	3.45	9.53
11/19/19 3:00	3.80	18.40	3.51	9.62
11/19/19 4:00	3.88	18.53	3.58	9.73
11/19/19 5:00	3.95	18.81	3.61	9.86
11/19/19 6:00	4.00	19.13	3.40	9.98
11/19/19 7:00	4.05	19.24	3.30	10.01
11/19/19 8:00	4.10	19.42	3.15	9.86
11/19/19 9:00	4.14	19.63	3.24	9.85
11/19/19 10:00	4.19	19.83	3.41	9.89
11/19/19 11:00	4.25	20.08	3.60	10.34
11/19/19 12:00	4.31	20.28	3.99	11.92
11/19/19 13:00	4.36	20.27	3.92	11.88
11/19/19 14:00	4.38	20.25	3.85	11.84
11/19/19 15:00	4.38	20.24	3.78	11.81
11/19/19 16:00	4.38	20.23	3.68	10.77
11/19/19 17:00	4.38	20.22	3.58	9.49
11/19/19 18:00	4.39	20.11	3.47	9.07
11/19/19 19:00	4.39	19.80	3.35	8.74
11/19/19 20:00	4.39	19.48	3.25	8.59
11/19/19 21:00	4.39	19.35	3.15	8.53
11/19/19 22:00	4.36	19.18	3.05	8.48
11/19/19 23:00	4.31	18.98	2.92	8.42
11/20/19 0:00	4.26	18.84	2.69	8.32
11/20/19 1:00	4.22	18.69	2.71	8.16
11/20/19 2:00	4.17	18.54	2.80	8.19
11/20/19 3:00	4.13	18.35	3.01	8.23
11/20/19 4:00	4.10	18.19	3.02	8.27
11/20/19 5:00	4.06	17.97	2.93	8.31
11/20/19 6:00	4.02	17.74	2.81	8.35
11/20/19 7:00	3.98	17.59	2.56	8.40
11/20/19 8:00	3.95	17.47	2.48	8.53
11/20/19 9:00	3.91	17.43	2.65	8.68
11/20/19 10:00	3.87	17.41	2.93	8.82
11/20/19 11:00	3.83	17.39	3.32	8.89
11/20/19 12:00	3.80	17.36	3.55	8.91
11/20/19 13:00	3.76	17.09	4.46	10.26
11/20/19 14:00	3.74	16.86	4.46	10.26
11/20/19 15:00	3.73	16.86	5.36	11.61
11/20/19 16:00	3.72	17.00	4.26	11.74
11/20/19 17:00	3.71	17.31	3.82	11.07
11/20/19 18:00	3.69	17.37	3.43	10.45
11/20/19 19:00	3.68	17.48	3.04	9.64
11/20/19 20:00	3.67	17.60	2.72	9.11
11/20/19 21:00	3.66	17.71	2.76	8.95
11/20/19 22:00	3.65	17.82	2.69	8.87
11/20/19 23:00	3.65	17.92	3.00	8.80
11/21/19 0:00	3.65	18.01	2.97	8.73
11/21/19 1:00	3.65	18.13	2.89	8.67
11/21/19 2:00	3.65	18.28	2.81	8.62
11/21/19 3:00	3.65	18.46	2.75	8.56
11/21/19 4:00	3.65	18.59	2.69	8.50
11/21/19 5:00	3.65	18.73	2.63	8.28
11/21/19 6:00	3.68	18.79	2.65	8.13
11/21/19 7:00	3.71	18.82	2.78	7.98
11/21/19 8:00	3.75	18.84	2.66	7.80
11/21/19 9:00	3.78	18.87	2.65	7.84
11/21/19 10:00	3.82	18.90	2.78	7.94
11/21/19 11:00	3.85	18.93	3.08	8.22
11/21/19 12:00	3.89	18.96	3.51	8.96

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/21/19 13:00	3.91	19.05	3.70	9.60
11/21/19 14:00	3.93	19.15	3.80	9.96
11/21/19 15:00	3.94	19.16	3.75	10.10
11/21/19 16:00	3.96	19.14	3.70	10.02
11/21/19 17:00	3.98	19.12	3.66	9.81
11/21/19 18:00	4.00	19.09	3.61	9.56
11/21/19 19:00	4.01	19.07	3.57	9.28
11/21/19 20:00	4.03	19.05	3.53	9.20
11/21/19 21:00	4.07	19.03	3.50	9.15
11/21/19 22:00	4.11	19.01	3.47	9.10
11/21/19 23:00	4.15	18.99	3.43	9.04
11/22/19 0:00	4.19	18.96	3.40	8.65
11/22/19 1:00	4.23	18.94	3.37	8.30
11/22/19 2:00	4.26	18.92	3.28	8.30
11/22/19 3:00	4.27	18.90	3.06	8.34
11/22/19 4:00	4.27	18.88	2.89	8.38
11/22/19 5:00	4.26	18.86	2.93	8.42
11/22/19 6:00	4.26	18.84	2.97	8.45
11/22/19 7:00	4.26	18.84	3.01	8.49
11/22/19 8:00	4.26	18.85	3.19	8.56
11/22/19 9:00	4.26	18.86	3.46	8.63
11/22/19 10:00	4.25	18.86	3.58	8.71
11/22/19 11:00	4.27	18.87	3.65	8.92
11/22/19 12:00	4.28	18.88	3.72	9.32
11/22/19 13:00	4.30	18.89	3.78	9.68
11/22/19 14:00	4.31	18.90	3.76	10.04
11/22/19 15:00	4.33	18.96	3.72	10.37
11/22/19 16:00	4.34	19.04	3.69	10.75
11/22/19 17:00	4.36	19.12	3.65	10.66
11/22/19 18:00	4.37	19.26	3.61	10.23
11/22/19 19:00	4.37	19.29	3.56	9.34
11/22/19 20:00	4.36	19.27	3.34	8.74
11/22/19 21:00	4.35	19.26	3.15	8.45
11/22/19 22:00	4.34	19.24	2.64	8.30
11/22/19 23:00	4.34	19.23	2.44	8.19
11/23/19 0:00	4.33	19.21	2.50	8.14
11/23/19 1:00	4.32	19.20	2.91	8.09
11/23/19 2:00	4.31	19.18	3.32	8.03
11/23/19 3:00	4.32	19.13	3.40	7.98
11/23/19 4:00	4.34	19.08	3.30	7.79
11/23/19 5:00	4.35	19.03	3.17	7.56
11/23/19 6:00	4.36	18.97	2.92	7.45
11/23/19 7:00	4.37	18.91	2.69	7.52
11/23/19 8:00	4.38	18.89	2.27	7.60
11/23/19 9:00	4.40	18.89	2.33	7.77
11/23/19 10:00	4.41	18.90	2.41	8.46
11/23/19 11:00	4.40	18.90	2.70	9.49
11/23/19 12:00	4.40	18.90	3.14	10.51
11/23/19 13:00	4.39	18.90	3.67	11.25
11/23/19 14:00	4.38	18.91	4.10	11.52
11/23/19 15:00	4.37	18.91	4.07	11.45
11/23/19 16:00	4.37	18.90	4.00	11.37
11/23/19 17:00	4.36	18.90	3.93	11.18
11/23/19 18:00	4.35	18.90	3.86	10.65
11/23/19 19:00	4.36	18.89	3.80	10.15
11/23/19 20:00	4.36	18.89	3.74	9.77
11/23/19 21:00	4.37	18.88	3.67	9.28
11/23/19 22:00	4.38	18.88	3.42	8.81
11/23/19 23:00	4.38	18.88	3.16	8.36

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRS	Gas Turbine	HRS
11/24/19 0:00	4.39	18.90	2.89	8.18
11/24/19 1:00	4.40	18.92	2.64	8.05
11/24/19 2:00	4.40	18.95	2.70	7.97
11/24/19 3:00	4.40	18.97	2.78	7.90
11/24/19 4:00	4.39	19.00	3.13	7.82
11/24/19 5:00	4.39	19.02	3.24	7.73
11/24/19 6:00	4.38	19.05	3.15	7.65
11/24/19 7:00	4.38	19.07	2.71	7.53
11/24/19 8:00	4.38	19.04	2.33	7.38
11/24/19 9:00	4.37	19.01	2.39	7.49
11/24/19 10:00	4.37	18.97	2.84	7.77
11/24/19 11:00	4.36	18.94	3.08	8.42
11/24/19 12:00	4.35	18.90	3.18	9.07
11/24/19 13:00	4.35	18.87	3.46	9.54
11/24/19 14:00	4.34	18.83	3.74	10.04
11/24/19 15:00	4.34	18.86	3.73	10.67
11/24/19 16:00	4.33	18.89	3.69	11.25
11/24/19 17:00	4.33	18.93	3.65	11.29
11/24/19 18:00	4.33	18.97	3.61	10.80
11/24/19 19:00	4.35	19.01	3.57	10.43
11/24/19 20:00	4.38	19.05	3.54	9.92
11/24/19 21:00	4.41	19.09	3.57	9.50
11/24/19 22:00	4.44	19.13	3.63	9.13
11/24/19 23:00	4.47	19.18	3.70	8.99
11/25/19 0:00	4.50	19.22	3.75	8.92
11/25/19 1:00	4.53	19.32	3.67	8.84
11/25/19 2:00	4.56	19.44	3.56	8.64
11/25/19 3:00	4.57	19.51	3.42	8.26
11/25/19 4:00	4.59	19.57	3.28	8.05
11/25/19 5:00	4.60	19.63	3.17	7.99
11/25/19 6:00	4.61	19.67	3.08	7.93
11/25/19 7:00	4.62	19.71	3.24	7.87
11/25/19 8:00	4.63	19.74	3.42	7.94
11/25/19 9:00	4.65	19.78	3.32	8.18
11/25/19 10:00	4.66	19.89	3.49	8.92
11/25/19 11:00	4.68	20.01	3.63	9.92
11/25/19 12:00	4.69	20.18	3.77	10.71
11/25/19 13:00	4.71	20.35	3.89	11.15
11/25/19 14:00	4.73	20.42	4.01	11.34
11/25/19 15:00	4.75	20.45	4.10	11.52
11/25/19 16:00	4.76	20.49	4.18	11.72
11/25/19 17:00	4.78	20.53	4.07	11.72
11/25/19 18:00	4.80	20.57	3.89	11.60
11/25/19 19:00	4.79	20.63	3.76	11.26
11/25/19 20:00	4.79	20.70	3.83	10.83
11/25/19 21:00	4.79	20.76	3.91	10.41
11/25/19 22:00	4.78	20.77	3.95	9.96
11/25/19 23:00	4.78	20.76	3.88	9.44
11/26/19 0:00	4.77	20.75	3.79	9.33
11/26/19 1:00	4.77	20.74	3.68	9.28
11/26/19 2:00	4.77	20.73	3.51	9.22
11/26/19 3:00	4.78	20.71	3.33	9.17
11/26/19 4:00	4.79	20.70	3.16	9.11
11/26/19 5:00	4.81	20.69	2.98	9.03
11/26/19 6:00	4.82	20.68	3.02	8.95
11/26/19 7:00	4.83	20.66	3.27	9.02
11/26/19 8:00	4.85	20.64	3.49	9.39
11/26/19 9:00	4.86	20.62	3.37	9.79
11/26/19 10:00	4.87	20.61	3.44	9.88

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
11/26/19 11:00	4.85	20.59	3.53	9.94
11/26/19 12:00	4.84	20.56	3.73	10.00
11/26/19 13:00	4.82	20.39	3.74	10.10
11/26/19 14:00	4.80	20.22	3.67	10.25
11/26/19 15:00	4.78	20.09	3.60	10.10
11/26/19 16:00	4.76	19.88	3.53	9.56
11/26/19 17:00	4.75	19.52	3.46	8.91
11/26/19 18:00	4.73	19.11	3.40	8.82
11/26/19 19:00	4.72	18.87	3.37	8.89
11/26/19 20:00	4.72	18.79	3.47	8.96
11/26/19 21:00	4.71	18.61	3.57	9.34
11/26/19 22:00	4.70	18.61	3.69	10.06
11/26/19 23:00	4.70	18.67	3.81	10.98
11/27/19 0:00	4.69	18.72	3.98	12.02
11/27/19 1:00	4.68	18.87	4.04	12.20
11/27/19 2:00	4.68	19.11	3.99	11.98
11/27/19 3:00	4.70	19.19	3.94	11.22
11/27/19 4:00	4.71	19.27	3.89	10.64
11/27/19 5:00	4.73	19.33	3.67	10.30
11/27/19 6:00	4.74	19.38	3.45	10.31
11/27/19 7:00	4.76	19.43	3.48	10.40
11/27/19 8:00	4.78	19.48	3.75	10.48
11/27/19 9:00	4.79	19.53	3.64	10.56
11/27/19 10:00	4.80	19.58	3.65	10.64
11/27/19 11:00	4.80	19.64	3.79	10.80
11/27/19 12:00	4.80	19.73	3.78	11.32
11/27/19 13:00	4.80	19.83	3.73	11.88
11/27/19 14:00	4.80	19.91	3.69	12.23
11/27/19 15:00	4.79	19.98	3.64	12.16
11/27/19 16:00	4.79	20.09	3.60	11.74
11/27/19 17:00	4.79	20.23	3.56	11.35
11/27/19 18:00	4.78	20.38	3.54	11.10
11/27/19 19:00	4.76	20.42	3.51	10.82
11/27/19 20:00	4.73	20.41	3.48	10.51
11/27/19 21:00	4.70	20.41	3.46	10.35
11/27/19 22:00	4.67	20.40	3.43	10.27
11/27/19 23:00	4.65	20.40	3.40	10.18
11/28/19 0:00	4.62	20.27	3.38	9.99
11/28/19 1:00	4.59	19.91	3.53	9.79
11/28/19 2:00	4.56	19.62	3.50	9.78
11/28/19 3:00	4.54	19.54	3.42	9.84
11/28/19 4:00	4.51	19.49	3.36	9.89
11/28/19 5:00	4.49	19.44	3.38	9.94
11/28/19 6:00	4.46	19.39	3.42	9.95
11/28/19 7:00	4.44	19.34	3.46	9.85
11/28/19 8:00	4.41	19.29	3.50	9.74
11/28/19 9:00	4.38	19.19	3.55	9.61
11/28/19 10:00	4.36	19.07	3.81	9.52
11/28/19 11:00	4.35	18.92	3.73	9.59
11/28/19 12:00	4.34	18.80	3.64	9.67
11/28/19 13:00	4.32	18.68	3.59	9.77
11/28/19 14:00	4.31	18.57	3.56	9.94
11/28/19 15:00	4.30	18.45	3.53	10.13
11/28/19 16:00	4.29	18.38	3.50	10.33
11/28/19 17:00	4.28	18.32	3.47	10.53
11/28/19 18:00	4.27	18.26	3.44	10.70
11/28/19 19:00	4.28	18.21	3.41	10.44
11/28/19 20:00	4.29	18.16	3.39	9.92
11/28/19 21:00	4.30	18.11	3.44	9.48

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRS	Gas Turbine	HRS
11/28/19 22:00	4.31	18.06	3.54	9.22
11/28/19 23:00	4.32	17.96	3.60	9.04
11/29/19 0:00	4.33	17.84	3.53	8.92
11/29/19 1:00	4.34	17.77	3.45	8.82
11/29/19 2:00	4.35	17.71	3.23	8.60
11/29/19 3:00	4.34	17.59	3.06	8.26
11/29/19 4:00	4.32	17.46	2.97	8.11
11/29/19 5:00	4.31	17.30	2.96	8.24
11/29/19 6:00	4.29	17.19	3.03	8.46
11/29/19 7:00	4.28	17.11	3.10	8.63
11/29/19 8:00	4.27	17.04	3.27	8.83
11/29/19 9:00	4.25	17.04	3.55	9.67
11/29/19 10:00	4.24	17.07	3.80	10.19
11/29/19 11:00	4.25	17.10	4.02	10.39
11/29/19 12:00	4.26	17.12	4.01	10.32
11/29/19 13:00	4.26	17.15	3.95	10.43
11/29/19 14:00	4.27	17.18	3.89	10.50
11/29/19 15:00	4.28	17.20	3.83	10.42
11/29/19 16:00	4.28	17.22	3.73	10.33
11/29/19 17:00	4.29	17.19	3.63	10.15
11/29/19 18:00	4.29	17.14	3.50	9.73
11/29/19 19:00	4.26	17.10	3.33	9.13
11/29/19 20:00	4.23	17.05	3.18	8.81
11/29/19 21:00	4.21	17.01	2.99	8.73
11/29/19 22:00	4.18	17.01	2.41	8.68
11/29/19 23:00	4.15	17.03	2.24	8.64
11/30/19 0:00	4.12	17.05	2.33	8.59
11/30/19 1:00	4.09	17.07	2.90	8.55
11/30/19 2:00	4.07	17.09	3.22	8.42
11/30/19 3:00	4.06	17.11	3.28	8.26
11/30/19 4:00	4.06	17.12	3.34	8.19
11/30/19 5:00	4.05	17.13	3.34	8.12
11/30/19 6:00	4.05	17.06	3.27	8.04
11/30/19 7:00	4.04	16.96	3.20	7.79
11/30/19 8:00	4.03	16.86	3.09	7.74
11/30/19 9:00	4.03	16.65	2.95	7.75
11/30/19 10:00	4.00	16.28	2.71	7.75
11/30/19 11:00	3.93	15.96	2.51	7.76
11/30/19 12:00	3.85	15.76	2.64	7.77
11/30/19 13:00	3.76	15.46	2.53	7.77
11/30/19 14:00	3.66	15.18	2.55	7.78
11/30/19 15:00	3.59	14.91	2.51	7.79
11/30/19 16:00	3.54	14.63	2.61	7.84
11/30/19 17:00	3.48	14.38	2.52	7.90
11/30/19 18:00	3.42	14.28	2.37	7.97
11/30/19 19:00	3.40	14.08	2.29	8.06
11/30/19 20:00	3.38	13.87	2.60	8.40
11/30/19 21:00	3.36	13.77	3.26	8.78
11/30/19 22:00	3.34	13.70	3.44	9.03
11/30/19 23:00	3.32	13.63	3.37	8.73
12/1/19 0:00	3.30	13.49	3.31	8.67
12/1/19 1:00	3.28	13.37	3.13	8.72
12/1/19 2:00	3.26	13.26	2.86	8.78
12/1/19 3:00	3.26	13.23	3.04	8.84
12/1/19 4:00	3.26	13.21	3.28	9.03
12/1/19 5:00	3.26	13.19	3.45	9.30
12/1/19 6:00	3.26	13.18	3.42	9.22
12/1/19 7:00	3.26	13.16	3.36	8.90
12/1/19 8:00	3.26	13.14	3.29	8.56

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/1/19 9:00	3.26	13.12	3.05	8.31
12/1/19 10:00	3.26	13.11	2.82	8.39
12/1/19 11:00	3.27	13.19	2.36	8.60
12/1/19 12:00	3.29	13.28	2.57	8.67
12/1/19 13:00	3.30	13.36	2.61	8.56
12/1/19 14:00	3.32	13.44	2.96	8.55
12/1/19 15:00	3.34	13.52	3.09	8.63
12/1/19 16:00	3.35	13.62	3.16	8.75
12/1/19 17:00	3.37	13.72	3.06	8.91
12/1/19 18:00	3.38	13.80	2.89	8.79
12/1/19 19:00	3.39	13.87	2.78	8.76
12/1/19 20:00	3.39	13.90	2.89	8.88
12/1/19 21:00	3.39	13.92	3.19	8.94
12/1/19 22:00	3.39	13.93	3.46	8.86
12/1/19 23:00	3.40	13.95	3.36	8.78
12/2/19 0:00	3.40	13.96	3.13	8.63
12/2/19 1:00	3.40	13.98	2.80	8.26
12/2/19 2:00	3.40	14.00	2.62	7.83
12/2/19 3:00	3.37	14.01	2.48	7.54
12/2/19 4:00	3.33	13.97	2.30	7.42
12/2/19 5:00	3.29	13.91	2.11	7.34
12/2/19 6:00	3.25	13.79	2.23	7.27
12/2/19 7:00	3.21	13.67	2.43	7.33
12/2/19 8:00	3.18	13.56	2.33	7.46
12/2/19 9:00	3.16	13.49	2.15	7.55
12/2/19 10:00	3.15	13.43	1.93	7.64
12/2/19 11:00	3.14	13.37	2.37	7.73
12/2/19 12:00	3.12	13.26	2.87	7.78
12/2/19 13:00	3.11	13.15	3.14	7.82
12/2/19 14:00	3.10	13.06	3.00	7.86
12/2/19 15:00	3.09	12.98	2.92	7.90
12/2/19 16:00	3.08	12.91	2.86	7.94
12/2/19 17:00	3.05	12.83	2.80	7.99
12/2/19 18:00	3.02	12.76	2.57	8.05
12/2/19 19:00	2.99	12.68	2.31	8.11
12/2/19 20:00	2.96	12.60	2.40	8.18
12/2/19 21:00	2.94	12.52	2.65	8.20
12/2/19 22:00	2.91	12.44	2.87	8.12
12/2/19 23:00	2.88	12.38	2.58	8.02
12/3/19 0:00	2.85	12.32	2.10	7.75
12/3/19 1:00	2.84	12.25	1.85	7.49
12/3/19 2:00	2.84	12.17	1.75	7.42
12/3/19 3:00	2.83	12.09	2.03	7.36
12/3/19 4:00	2.82	12.06	2.53	7.30
12/3/19 5:00	2.82	12.05	2.61	7.26
12/3/19 6:00	2.81	12.04	2.46	7.29
12/3/19 7:00	2.81	12.02	2.31	7.33
12/3/19 8:00	2.80	12.01	2.18	7.37
12/3/19 9:00	2.80	12.00	2.05	7.40
12/3/19 10:00	2.79	11.99	1.91	7.44
12/3/19 11:00	2.79	11.97	1.63	7.48
12/3/19 12:00	2.79	11.94	1.42	7.52
12/3/19 13:00	2.79	11.90	1.62	7.59
12/3/19 14:00	2.79	11.86	2.67	7.66
12/3/19 15:00	2.78	11.82	2.73	7.72
12/3/19 16:00	2.78	11.78	2.62	7.67
12/3/19 17:00	2.75	11.74	2.49	7.56
12/3/19 18:00	2.72	11.68	2.26	7.35
12/3/19 19:00	2.69	11.61	1.63	6.99

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/3/19 20:00	2.66	11.48	1.30	6.85
12/3/19 21:00	2.63	11.32	0.00	6.78
12/3/19 22:00	2.54	11.21	0.00	6.71
12/3/19 23:00	2.50	11.14	0.00	6.51
12/4/19 0:00	2.48	11.09	1.24	6.39
12/4/19 1:00	2.45	11.04	1.79	6.33
12/4/19 2:00	2.43	10.99	2.17	6.28
12/4/19 3:00	2.41	10.95	2.41	6.22
12/4/19 4:00	2.38	10.90	2.51	6.02
12/4/19 5:00	2.36	10.86	2.46	6.02
12/4/19 6:00	2.34	10.82	2.40	6.17
12/4/19 7:00	2.32	10.77	2.30	6.33
12/4/19 8:00	2.30	10.72	1.97	6.47
12/4/19 9:00	2.28	10.66	1.97	6.55
12/4/19 10:00	2.26	10.61	2.04	6.60
12/4/19 11:00	2.24	10.62	2.09	6.65
12/4/19 12:00	2.22	10.65	1.95	6.70
12/4/19 13:00	2.20	10.68	2.03	6.77
12/4/19 14:00	2.19	10.71	2.18	6.88
12/4/19 15:00	2.20	10.74	2.68	7.09
12/4/19 16:00	2.23	10.77	2.97	7.58
12/4/19 17:00	2.25	10.81	3.07	8.58
12/4/19 18:00	2.27	11.24	3.35	15.35
12/4/19 19:00	2.41	12.72	4.01	20.00
12/4/19 20:00	2.71	14.78	4.53	21.96
12/4/19 21:00	2.84	15.76	4.51	16.80
12/4/19 22:00	3.06	16.37	4.79	16.03
12/4/19 23:00	3.46	17.17	9.42	21.51
12/5/19 0:00	4.23	18.63	11.10	25.32
12/5/19 1:00	4.90	19.92	10.79	23.17
12/5/19 2:00	4.98	20.46	6.05	15.21
12/5/19 3:00	5.05	20.58	4.11	10.19
12/5/19 4:00	5.11	20.78	3.78	8.63
12/5/19 5:00	5.17	20.98	3.59	8.56
12/5/19 6:00	5.23	21.22	3.42	8.48
12/5/19 7:00	5.26	21.54	3.22	8.14
12/5/19 8:00	5.28	21.81	2.91	7.73
12/5/19 9:00	5.31	21.87	2.74	7.56
12/5/19 10:00	5.33	21.94	2.62	7.67
12/5/19 11:00	5.36	22.08	2.48	7.60
12/5/19 12:00	5.38	22.18	2.20	7.51
12/5/19 13:00	5.41	22.26	1.79	7.37
12/5/19 14:00	5.42	22.34	1.69	7.30
12/5/19 15:00	5.39	22.37	1.67	7.44
12/5/19 16:00	5.33	22.39	1.84	7.37
12/5/19 17:00	5.28	22.40	1.97	7.28
12/5/19 18:00	5.23	22.18	1.95	7.19
12/5/19 19:00	5.05	20.91	1.98	7.10
12/5/19 20:00	4.77	19.04	2.09	7.01
12/5/19 21:00	4.69	18.24	2.14	6.90
12/5/19 22:00	4.55	17.83	2.20	6.77
12/5/19 23:00	4.21	17.21	2.25	6.79
12/6/19 0:00	3.51	15.86	2.56	6.88
12/6/19 1:00	2.85	14.71	2.76	6.95
12/6/19 2:00	2.79	14.32	2.62	6.84
12/6/19 3:00	2.72	14.28	2.03	6.69
12/6/19 4:00	2.64	14.25	1.65	6.55
12/6/19 5:00	2.56	14.22	1.65	6.45
12/6/19 6:00	2.48	14.19	1.84	6.42

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/6/19 7:00	2.47	14.20	2.14	6.39
12/6/19 8:00	2.48	14.22	2.29	6.37
12/6/19 9:00	2.48	14.25	2.35	6.34
12/6/19 10:00	2.49	14.27	2.40	6.32
12/6/19 11:00	2.50	14.29	2.46	6.29
12/6/19 12:00	2.51	14.31	2.47	6.27
12/6/19 13:00	2.51	14.34	2.38	6.34
12/6/19 14:00	2.52	14.35	2.47	6.54
12/6/19 15:00	2.53	14.37	2.39	6.69
12/6/19 16:00	2.54	14.39	2.32	6.98
12/6/19 17:00	2.54	14.40	2.36	7.18
12/6/19 18:00	2.55	14.42	2.45	7.16
12/6/19 19:00	2.56	14.43	2.22	7.09
12/6/19 20:00	2.56	14.45	2.03	7.00
12/6/19 21:00	2.57	14.46	1.84	6.69
12/6/19 22:00	2.58	14.39	2.35	6.44
12/6/19 23:00	2.59	14.29	2.60	6.20
12/7/19 0:00	2.60	14.19	2.51	6.20
12/7/19 1:00	2.61	14.08	2.10	6.28
12/7/19 2:00	2.62	13.96	1.77	6.39
12/7/19 3:00	2.63	13.89	1.81	6.59
12/7/19 4:00	2.64	13.85	1.98	6.70
12/7/19 5:00	2.65	13.81	2.19	6.79
12/7/19 6:00	2.66	13.77	2.26	6.89
12/7/19 7:00	2.66	13.73	1.87	7.12
12/7/19 8:00	2.67	13.69	1.84	7.54
12/7/19 9:00	2.67	13.69	1.62	7.80
12/7/19 10:00	2.67	13.69	2.33	7.97
12/7/19 11:00	2.67	13.70	2.69	8.15
12/7/19 12:00	2.68	13.70	3.10	8.50
12/7/19 13:00	2.68	13.70	3.05	8.66
12/7/19 14:00	2.68	13.71	2.91	8.37
12/7/19 15:00	2.70	13.71	2.64	7.76
12/7/19 16:00	2.72	13.72	2.18	6.97
12/7/19 17:00	2.75	13.74	2.21	6.40
12/7/19 18:00	2.77	13.79	2.30	6.21
12/7/19 19:00	2.79	14.09	2.20	6.30
12/7/19 20:00	2.81	14.64	1.77	6.43
12/7/19 21:00	2.83	15.32	1.77	6.70
12/7/19 22:00	2.86	16.22	2.10	6.85
12/7/19 23:00	2.90	17.33	2.37	6.77
12/8/19 0:00	2.94	18.21	2.36	6.69
12/8/19 1:00	2.98	19.04	2.00	6.51
12/8/19 2:00	3.03	19.94	2.12	6.43
12/8/19 3:00	3.06	20.74	2.31	6.47
12/8/19 4:00	3.09	21.42	1.98	6.52
12/8/19 5:00	3.12	21.94	1.61	6.56
12/8/19 6:00	3.15	22.31	1.56	6.61
12/8/19 7:00	3.18	22.60	1.92	6.62
12/8/19 8:00	3.20	22.72	2.07	6.50
12/8/19 9:00	3.19	22.84	1.52	6.44
12/8/19 10:00	3.18	22.88	1.12	6.51
12/8/19 11:00	3.16	22.90	1.11	6.59
12/8/19 12:00	3.14	22.92	1.34	6.76
12/8/19 13:00	3.13	22.94	1.78	7.15
12/8/19 14:00	3.11	22.96	2.04	7.48
12/8/19 15:00	3.09	22.98	2.35	7.63
12/8/19 16:00	3.08	23.00	2.67	7.50
12/8/19 17:00	3.04	23.01	2.43	7.19

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/8/19 18:00	3.00	22.73	2.22	6.63
12/8/19 19:00	2.96	22.22	1.50	6.12
12/8/19 20:00	2.92	21.53	0.00	5.73
12/8/19 21:00	2.88	20.65	0.00	5.49
12/8/19 22:00	2.77	19.58	0.00	5.33
12/8/19 23:00	2.61	18.32	0.00	5.30
12/9/19 0:00	2.54	17.31	1.97	5.29
12/9/19 1:00	2.50	16.38	2.44	5.27
12/9/19 2:00	2.46	15.39	2.17	5.26
12/9/19 3:00	2.42	14.45	1.27	5.25
12/9/19 4:00	2.47	13.58	2.09	5.23
12/9/19 5:00	2.53	12.88	3.56	5.22
12/9/19 6:00	2.59	12.36	4.43	5.22
12/9/19 7:00	2.66	11.95	4.65	5.28
12/9/19 8:00	2.80	11.63	4.89	5.35
12/9/19 9:00	2.95	11.33	4.96	5.41
12/9/19 10:00	3.26	11.02	5.03	5.54
12/9/19 11:00	3.57	10.93	5.09	5.84
12/9/19 12:00	3.68	10.77	5.15	6.04
12/9/19 13:00	3.88	10.56	5.18	6.17
12/9/19 14:00	4.11	10.35	5.21	6.31
12/9/19 15:00	4.33	10.23	5.24	6.44
12/9/19 16:00	4.51	10.14	5.27	6.57
12/9/19 17:00	4.81	10.15	5.30	6.64
12/9/19 18:00	5.13	10.20	5.34	6.59
12/9/19 19:00	5.40	10.25	5.37	6.54
12/9/19 20:00	5.77	10.38	5.35	6.49
12/9/19 21:00	6.21	10.65	5.27	6.44
12/9/19 22:00	6.56	10.94	5.20	6.39
12/9/19 23:00	6.91	11.27	5.03	6.34
12/10/19 0:00	7.21	11.59	4.95	6.28
12/10/19 1:00	7.29	11.87	5.00	6.23
12/10/19 2:00	7.56	11.98	5.05	6.18
12/10/19 3:00	7.96	12.28	5.11	6.21
12/10/19 4:00	8.28	12.62	5.15	6.28
12/10/19 5:00	8.52	12.93	5.18	6.34
12/10/19 6:00	8.59	13.25	5.20	6.41
12/10/19 7:00	8.65	13.52	5.23	6.45
12/10/19 8:00	8.72	13.63	5.25	6.48
12/10/19 9:00	8.78	13.90	5.27	6.52
12/10/19 10:00	8.84	14.16	5.30	6.56
12/10/19 11:00	8.92	14.22	5.32	6.59
12/10/19 12:00	9.00	14.28	5.36	6.63
12/10/19 13:00	9.08	14.37	5.50	6.69
12/10/19 14:00	9.16	14.48	5.62	6.84
12/10/19 15:00	9.24	14.60	5.72	7.10
12/10/19 16:00	9.32	14.74	5.80	7.33
12/10/19 17:00	9.40	14.90	5.79	7.34
12/10/19 18:00	9.48	15.16	5.73	7.26
12/10/19 19:00	9.56	15.41	5.66	7.17
12/10/19 20:00	9.63	15.45	5.60	6.90
12/10/19 21:00	9.71	15.50	5.51	6.66
12/10/19 22:00	9.81	15.64	5.42	6.71
12/10/19 23:00	9.91	15.84	5.41	6.80
12/11/19 0:00	10.08	16.14	5.54	6.96
12/11/19 1:00	10.28	16.53	5.67	7.49
12/11/19 2:00	10.46	17.09	5.75	8.04
12/11/19 3:00	10.67	17.80	5.78	8.25
12/11/19 4:00	10.90	18.35	5.81	8.14

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/11/19 5:00	11.07	18.84	5.75	7.97
12/11/19 6:00	11.22	19.26	5.61	7.78
12/11/19 7:00	11.38	19.59	5.67	7.64
12/11/19 8:00	11.52	19.81	5.74	7.44
12/11/19 9:00	11.66	20.14	5.82	7.42
12/11/19 10:00	11.82	20.44	5.96	7.50
12/11/19 11:00	11.98	20.72	6.05	7.58
12/11/19 12:00	12.14	21.04	5.98	7.55
12/11/19 13:00	12.29	21.34	5.92	7.49
12/11/19 14:00	12.41	21.45	5.85	7.42
12/11/19 15:00	12.53	21.54	5.86	7.37
12/11/19 16:00	12.61	21.62	5.90	7.37
12/11/19 17:00	12.69	21.70	5.95	7.38
12/11/19 18:00	12.81	21.79	6.00	7.40
12/11/19 19:00	12.93	21.89	6.05	7.41
12/11/19 20:00	12.99	21.95	6.10	7.42
12/11/19 21:00	13.04	22.00	6.16	7.44
12/11/19 22:00	13.10	22.04	6.22	7.45
12/11/19 23:00	13.21	22.09	6.27	7.46
12/12/19 0:00	13.33	22.11	6.30	7.48
12/12/19 1:00	13.41	22.12	6.27	7.49
12/12/19 2:00	13.48	22.02	6.25	7.50
12/12/19 3:00	13.56	21.75	6.22	7.51
12/12/19 4:00	13.64	21.67	6.20	7.52
12/12/19 5:00	13.71	21.47	6.18	7.54
12/12/19 6:00	13.79	21.18	6.15	7.55
12/12/19 7:00	13.89	20.96	6.13	7.56
12/12/19 8:00	14.01	20.96	6.14	7.56
12/12/19 9:00	14.19	20.97	6.21	7.56
12/12/19 10:00	14.28	20.97	6.27	7.56
12/12/19 11:00	14.33	20.97	6.33	7.56
12/12/19 12:00	14.37	20.97	6.29	7.64
12/12/19 13:00	14.43	20.98	6.19	7.75
12/12/19 14:00	14.53	20.99	6.15	7.91
12/12/19 15:00	14.66	21.11	6.23	8.22
12/12/19 16:00	14.81	21.40	6.32	8.69
12/12/19 17:00	14.93	21.71	6.51	8.75
12/12/19 18:00	15.03	21.76	6.53	8.59
12/12/19 19:00	15.05	21.81	6.42	8.10
12/12/19 20:00	15.05	21.86	6.28	7.92
12/12/19 21:00	15.05	21.91	6.14	7.97
12/12/19 22:00	15.05	21.90	6.06	8.03
12/12/19 23:00	15.04	21.87	6.02	8.09
12/13/19 0:00	15.04	21.83	5.97	8.12
12/13/19 1:00	15.04	21.80	5.92	8.05
12/13/19 2:00	15.03	21.76	5.88	7.96
12/13/19 3:00	14.94	21.46	5.64	7.72
12/13/19 4:00	14.79	21.07	5.48	7.44
12/13/19 5:00	14.63	20.96	5.36	7.33
12/13/19 6:00	14.47	20.88	5.29	7.24
12/13/19 7:00	14.35	20.71	5.23	7.18
12/13/19 8:00	14.17	20.41	5.17	7.24
12/13/19 9:00	13.97	20.30	5.37	7.31
12/13/19 10:00	13.96	20.31	5.57	7.38
12/13/19 11:00	13.95	20.36	5.66	7.33
12/13/19 12:00	13.93	20.41	5.70	7.22
12/13/19 13:00	13.92	20.45	5.75	7.25
12/13/19 14:00	13.91	20.51	5.79	7.46
12/13/19 15:00	13.90	20.70	5.84	7.83

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/13/19 16:00	13.88	20.74	5.90	7.95
12/13/19 17:00	13.85	20.72	5.99	7.96
12/13/19 18:00	13.82	20.71	6.08	7.97
12/13/19 19:00	13.78	20.69	6.06	7.99
12/13/19 20:00	13.75	20.68	5.95	8.00
12/13/19 21:00	13.71	20.66	5.85	8.02
12/13/19 22:00	13.68	20.65	5.77	8.03
12/13/19 23:00	13.62	20.63	5.35	8.05
12/14/19 0:00	13.38	20.55	3.57	8.14
12/14/19 1:00	12.84	20.46	1.58	8.24
12/14/19 2:00	12.26	20.31	0.00	8.37
12/14/19 3:00	11.72	20.29	0.00	8.51
12/14/19 4:00	11.20	20.33	0.00	8.73
12/14/19 5:00	10.69	20.36	0.00	8.67
12/14/19 6:00	10.18	20.40	0.00	8.57
12/14/19 7:00	9.71	20.43	0.00	8.32
12/14/19 8:00	9.23	20.47	0.00	8.00
12/14/19 9:00	8.74	20.45	0.00	7.78
12/14/19 10:00	8.19	20.42	0.00	7.85
12/14/19 11:00	7.56	20.40	0.00	7.92
12/14/19 12:00	7.02	20.37	0.00	8.00
12/14/19 13:00	6.46	20.34	0.00	8.50
12/14/19 14:00	5.89	20.31	0.00	9.12
12/14/19 15:00	5.28	20.28	0.00	9.22
12/14/19 16:00	4.69	20.25	0.00	9.08
12/14/19 17:00	4.14	20.19	0.00	8.42
12/14/19 18:00	3.60	20.11	0.00	7.67
12/14/19 19:00	3.06	20.03	0.00	6.94
12/14/19 20:00	2.50	19.86	0.00	6.34
12/14/19 21:00	1.95	19.65	0.00	6.04
12/14/19 22:00	1.43	19.57	0.00	6.11
12/14/19 23:00	0.89	19.53	0.00	6.18
12/15/19 0:00	0.54	19.72	0.00	6.23
12/15/19 1:00	0.54	20.44	0.00	6.17
12/15/19 2:00	0.53	21.29	0.00	6.09
12/15/19 3:00	0.53	22.12	0.00	5.99
12/15/19 4:00	0.53	22.75	0.00	5.77
12/15/19 5:00	0.53	23.10	0.00	5.69
12/15/19 6:00	0.53	23.45	0.00	5.62
12/15/19 7:00	0.53	23.84	0.00	5.56
12/15/19 8:00	0.53	23.93	0.00	5.55
12/15/19 9:00	0.53	24.05	0.00	5.63
12/15/19 10:00	0.53	24.17	0.00	5.72
12/15/19 11:00	0.53	24.19	0.00	6.15
12/15/19 12:00	0.53	24.19	0.00	7.00
12/15/19 13:00	0.53	24.19	0.00	7.64
12/15/19 14:00	0.53	24.08	0.00	7.92
12/15/19 15:00	0.53	23.79	0.00	7.79
12/15/19 16:00	0.52	23.67	0.00	7.54
12/15/19 17:00	0.51	23.55	0.00	7.06
12/15/19 18:00	0.51	23.43	0.00	6.62
12/15/19 19:00	0.50	23.38	0.00	6.39
12/15/19 20:00	0.49	23.35	0.00	6.20
12/15/19 21:00	0.48	23.31	0.00	6.28
12/15/19 22:00	0.47	23.28	0.00	6.44
12/15/19 23:00	0.46	23.25	0.00	6.69
12/16/19 0:00	0.46	22.96	0.00	6.79
12/16/19 1:00	0.45	22.10	0.00	6.39
12/16/19 2:00	0.45	21.11	0.00	6.12

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/16/19 3:00	0.44	20.10	0.00	5.68
12/16/19 4:00	0.44	19.25	0.00	5.43
12/16/19 5:00	0.43	18.57	0.00	5.33
12/16/19 6:00	0.43	17.91	0.00	5.25
12/16/19 7:00	0.43	17.23	0.00	5.18
12/16/19 8:00	0.42	16.82	0.00	5.09
12/16/19 9:00	0.41	16.47	0.00	4.96
12/16/19 10:00	0.41	16.18	0.00	4.78
12/16/19 11:00	0.40	16.06	0.00	6.68
12/16/19 12:00	0.40	15.88	0.00	11.78
12/16/19 13:00	0.39	15.67	0.00	11.87
12/16/19 14:00	0.39	15.60	0.00	11.95
12/16/19 15:00	0.38	15.58	0.00	11.88
12/16/19 16:00	0.39	15.56	0.00	11.67
12/16/19 17:00	0.40	15.53	0.00	11.26
12/16/19 18:00	0.41	15.51	0.00	10.98
12/16/19 19:00	0.43	15.49	0.00	10.89
12/16/19 20:00	0.44	15.46	0.00	10.79
12/16/19 21:00	0.45	15.44	1.01	10.58
12/16/19 22:00	0.47	15.38	2.18	10.38
12/16/19 23:00	0.62	15.32	2.71	10.29
12/17/19 0:00	0.73	15.32	2.39	10.31
12/17/19 1:00	0.82	15.34	1.98	10.33
12/17/19 2:00	0.90	15.36	2.19	10.35
12/17/19 3:00	0.98	15.38	2.25	10.37
12/17/19 4:00	1.03	15.39	1.62	10.39
12/17/19 5:00	1.07	15.41	0.00	10.41
12/17/19 6:00	1.11	15.43	0.00	10.43
12/17/19 7:00	1.15	15.45	0.00	10.48
12/17/19 8:00	1.19	15.46	1.85	10.55
12/17/19 9:00	1.23	15.47	2.03	10.62
12/17/19 10:00	1.28	15.48	2.43	10.70
12/17/19 11:00	1.33	15.49	2.07	10.83
12/17/19 12:00	1.38	15.50	1.78	11.04
12/17/19 13:00	1.44	15.51	1.72	11.42
12/17/19 14:00	1.51	15.52	1.79	11.64
12/17/19 15:00	1.59	15.53	2.60	11.61
12/17/19 16:00	1.66	15.56	2.10	11.54
12/17/19 17:00	1.70	15.58	1.87	11.48
12/17/19 18:00	1.72	15.61	1.82	11.40
12/17/19 19:00	1.76	15.64	2.95	11.31
12/17/19 20:00	1.90	15.66	3.17	11.21
12/17/19 21:00	1.94	15.69	3.29	11.05
12/17/19 22:00	1.94	15.72	2.07	10.85
12/17/19 23:00	1.95	15.79	2.20	10.82
12/18/19 0:00	1.95	15.87	2.38	10.91
12/18/19 1:00	1.95	15.95	2.27	10.99
12/18/19 2:00	1.95	16.04	1.44	10.89
12/18/19 3:00	1.95	16.13	1.53	10.74
12/18/19 4:00	1.96	16.17	2.17	10.55
12/18/19 5:00	2.05	16.19	2.98	10.40
12/18/19 6:00	2.17	16.21	2.05	10.29
12/18/19 7:00	2.19	16.23	2.07	10.37
12/18/19 8:00	2.18	16.25	1.05	10.49
12/18/19 9:00	2.18	16.28	1.16	10.70
12/18/19 10:00	2.17	16.30	0.00	11.03
12/18/19 11:00	2.16	16.32	1.63	11.35
12/18/19 12:00	2.16	16.35	2.14	11.66
12/18/19 13:00	2.15	16.38	2.26	11.82

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRS	Gas Turbine	HRS
12/18/19 14:00	2.14	16.42	2.19	11.76
12/18/19 15:00	2.18	16.45	2.07	11.70
12/18/19 16:00	2.22	16.49	2.74	11.65
12/18/19 17:00	2.27	16.52	3.48	11.57
12/18/19 18:00	2.31	16.55	3.04	11.47
12/18/19 19:00	2.31	16.55	2.47	11.37
12/18/19 20:00	2.29	16.55	1.71	11.25
12/18/19 21:00	2.28	16.54	1.70	11.12
12/18/19 22:00	2.26	16.54	1.89	10.99
12/18/19 23:00	2.25	16.53	1.95	10.86
12/19/19 0:00	2.23	16.53	2.72	10.81
12/19/19 1:00	2.22	16.52	2.88	10.88
12/19/19 2:00	2.20	16.52	2.48	10.97
12/19/19 3:00	2.22	16.55	1.72	11.05
12/19/19 4:00	2.24	16.59	1.43	11.13
12/19/19 5:00	2.26	16.63	1.76	11.21
12/19/19 6:00	2.28	16.67	2.41	11.30
12/19/19 7:00	2.30	16.71	2.80	11.38
12/19/19 8:00	2.33	16.74	2.23	11.45
12/19/19 9:00	2.35	16.77	1.42	11.51
12/19/19 10:00	2.37	16.81	0.00	11.58
12/19/19 11:00	2.36	16.84	1.15	11.69
12/19/19 12:00	2.34	16.87	1.37	12.12
12/19/19 13:00	2.32	16.91	1.60	12.59
12/19/19 14:00	2.30	16.97	2.09	12.94
12/19/19 15:00	2.28	17.04	2.01	13.20
12/19/19 16:00	2.27	17.11	2.12	13.42
12/19/19 17:00	2.25	17.15	1.90	13.31
12/19/19 18:00	2.23	17.19	1.23	12.96
12/19/19 19:00	2.20	17.23	1.35	12.40
12/19/19 20:00	2.17	17.26	1.60	12.01
12/19/19 21:00	2.13	17.30	1.95	11.93
12/19/19 22:00	2.10	17.34	1.81	11.86
12/19/19 23:00	2.07	17.37	0.00	11.78
12/20/19 0:00	2.03	17.40	0.00	11.74
12/20/19 1:00	1.93	17.42	0.00	11.69
12/20/19 2:00	1.90	17.45	0.00	11.65
12/20/19 3:00	1.88	17.48	1.77	11.60
12/20/19 4:00	1.87	17.51	3.09	11.56
12/20/19 5:00	1.86	17.54	2.74	11.50
12/20/19 6:00	1.85	17.56	2.13	11.42
12/20/19 7:00	1.74	17.54	0.00	11.34
12/20/19 8:00	1.53	17.51	0.00	11.31
12/20/19 9:00	1.52	17.48	1.06	11.36
12/20/19 10:00	1.52	17.45	1.74	11.41
12/20/19 11:00	1.51	17.42	1.86	11.47
12/20/19 12:00	1.51	17.39	1.81	11.56
12/20/19 13:00	1.51	17.36	1.54	11.80
12/20/19 14:00	1.50	17.34	1.66	11.98
12/20/19 15:00	1.51	17.36	3.44	12.68
12/20/19 16:00	1.71	17.39	5.52	13.86
12/20/19 17:00	2.02	17.42	7.79	15.03
12/20/19 18:00	2.32	17.46	8.38	15.15
12/20/19 19:00	2.74	17.49	8.69	14.55
12/20/19 20:00	3.12	17.52	8.75	13.51
12/20/19 21:00	3.35	17.55	8.74	12.73
12/20/19 22:00	3.73	17.58	8.73	12.70
12/20/19 23:00	4.12	17.62	8.72	13.10
12/21/19 0:00	4.54	17.75	8.70	13.38

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/21/19 1:00	4.95	17.92	8.69	13.18
12/21/19 2:00	5.31	18.04	8.68	12.83
12/21/19 3:00	5.66	18.13	8.67	12.68
12/21/19 4:00	5.97	18.23	8.63	12.63
12/21/19 5:00	6.18	18.33	8.57	12.59
12/21/19 6:00	6.54	18.41	8.50	12.54
12/21/19 7:00	6.92	18.48	8.44	12.50
12/21/19 8:00	7.28	18.55	8.16	12.49
12/21/19 9:00	7.63	18.63	8.18	12.64
12/21/19 10:00	7.94	18.72	8.27	12.90
12/21/19 11:00	8.22	18.83	8.35	13.18
12/21/19 12:00	8.52	19.01	8.40	13.30
12/21/19 13:00	8.89	19.20	8.46	13.41
12/21/19 14:00	9.21	19.33	8.52	13.62
12/21/19 15:00	9.52	19.43	8.56	13.61
12/21/19 16:00	9.61	19.45	8.52	13.52
12/21/19 17:00	9.61	19.44	8.45	13.39
12/21/19 18:00	9.58	19.43	8.38	13.17
12/21/19 19:00	9.56	19.43	8.30	13.03
12/21/19 20:00	9.53	19.42	8.20	12.93
12/21/19 21:00	9.50	19.41	8.12	12.86
12/21/19 22:00	9.47	19.40	8.10	12.79
12/21/19 23:00	9.44	19.38	8.12	12.72
12/22/19 0:00	9.41	19.26	8.14	12.65
12/22/19 1:00	9.38	19.21	8.16	12.59
12/22/19 2:00	9.36	19.19	8.17	12.53
12/22/19 3:00	9.33	19.17	8.19	12.32
12/22/19 4:00	9.31	19.14	8.21	12.13
12/22/19 5:00	9.28	19.12	8.23	12.03
12/22/19 6:00	9.26	19.10	8.27	12.11
12/22/19 7:00	9.23	19.08	8.33	12.22
12/22/19 8:00	9.21	19.06	8.39	12.96
12/22/19 9:00	9.17	19.14	8.44	13.96
12/22/19 10:00	9.14	19.29	8.45	14.57
12/22/19 11:00	9.10	19.46	8.38	15.15
12/22/19 12:00	9.06	19.57	7.93	15.22
12/22/19 13:00	9.03	19.66	5.82	15.09
12/22/19 14:00	8.87	19.75	3.43	15.02
12/22/19 15:00	8.51	19.83	1.78	14.95
12/22/19 16:00	8.19	19.91	2.16	14.89
12/22/19 17:00	7.91	20.03	2.51	14.82
12/22/19 18:00	7.63	20.14	3.06	14.70
12/22/19 19:00	7.36	20.23	2.59	14.56
12/22/19 20:00	7.14	20.32	2.22	14.29
12/22/19 21:00	6.77	20.40	0.00	13.76
12/22/19 22:00	6.39	20.49	1.13	13.34
12/22/19 23:00	6.07	20.59	1.65	13.06
12/23/19 0:00	5.87	20.68	1.97	12.91
12/23/19 1:00	5.55	20.76	1.40	12.79
12/23/19 2:00	5.17	20.78	1.10	12.66
12/23/19 3:00	4.84	20.78	1.25	12.57
12/23/19 4:00	4.59	20.78	1.69	12.62
12/23/19 5:00	4.23	20.78	2.41	12.68
12/23/19 6:00	4.10	20.78	3.08	12.75
12/23/19 7:00	3.93	20.78	3.35	12.87
12/23/19 8:00	3.70	20.79	1.90	12.99
12/23/19 9:00	3.34	20.78	0.00	12.88
12/23/19 10:00	3.58	20.48	1.71	8.86
12/23/19 11:00	4.28	19.76	1.62	2.47

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/23/19 12:00	3.97	19.04	1.10	1.81
12/23/19 13:00	3.66	18.35	0.00	1.92
12/23/19 14:00	3.59	17.69	0.00	2.12
12/23/19 15:00	3.51	17.06	0.00	2.14
12/23/19 16:00	3.41	16.44	0.00	2.08
12/23/19 17:00	3.30	15.83	0.00	2.03
12/23/19 18:00	3.20	15.25	0.00	1.97
12/23/19 19:00	3.11	14.63	0.00	1.79
12/23/19 20:00	3.05	13.92	0.00	1.60
12/23/19 21:00	3.00	13.28	0.00	1.47
12/23/19 22:00	2.95	12.68	0.00	1.42
12/23/19 23:00	2.91	12.05	0.00	1.40
12/24/19 0:00	2.85	11.40	0.00	1.38
12/24/19 1:00	2.79	10.76	0.00	1.36
12/24/19 2:00	2.73	10.15	0.00	1.33
12/24/19 3:00	2.66	9.60	0.00	1.31
12/24/19 4:00	2.59	9.07	0.00	1.29
12/24/19 5:00	2.51	8.56	0.00	1.27
12/24/19 6:00	2.37	7.96	0.00	1.28
12/24/19 7:00	2.10	7.29	0.00	1.30
12/24/19 8:00	1.83	6.59	0.00	1.33
12/24/19 9:00	1.81	6.13	0.00	1.35
12/24/19 10:00	1.27	6.06	0.00	1.37
12/24/19 11:00	0.24	5.99	0.00	1.40
12/24/19 12:00	0.23	5.93	0.00	1.42
12/24/19 13:00	0.21	5.86	0.00	1.44
12/24/19 14:00	0.20	5.80	0.00	1.48
12/24/19 15:00	0.18	5.72	0.00	1.53
12/24/19 16:00	0.16	5.63	0.00	1.58
12/24/19 17:00	0.15	5.55	0.00	1.57
12/24/19 18:00	0.13	5.49	0.00	1.41
12/24/19 19:00	0.13	5.43	0.00	1.37
12/24/19 20:00	0.12	5.37	0.00	1.38
12/24/19 21:00	0.12	5.31	0.00	1.39
12/24/19 22:00	0.11	5.27	0.00	1.39
12/24/19 23:00	0.10	5.24	0.00	1.40
12/25/19 0:00	0.10	5.21	0.00	1.41
12/25/19 1:00	0.09	5.18	0.00	1.41
12/25/19 2:00	0.09	5.15	0.00	1.41
12/25/19 3:00	0.09	5.12	0.00	1.33
12/25/19 4:00	0.09	5.10	0.00	1.23
12/25/19 5:00	0.09	5.07	0.00	1.18
12/25/19 6:00	0.09	5.06	0.00	1.21
12/25/19 7:00	0.09	5.07	0.00	1.25
12/25/19 8:00	0.09	5.07	0.00	1.28
12/25/19 9:00	0.09	5.08	0.00	1.31
12/25/19 10:00	0.09	5.08	0.00	1.34
12/25/19 11:00	0.09	5.08	0.00	1.37
12/25/19 12:00	0.09	5.09	0.00	1.40
12/25/19 13:00	0.09	5.09	0.00	1.51
12/25/19 14:00	0.09	5.11	0.00	1.65
12/25/19 15:00	0.08	5.12	0.00	1.62
12/25/19 16:00	0.08	5.14	0.00	1.58
12/25/19 17:00	0.08	5.15	0.00	1.55
12/25/19 18:00	0.08	5.17	0.00	1.51
12/25/19 19:00	0.08	5.18	0.00	1.48
12/25/19 20:00	0.08	5.20	0.00	1.44
12/25/19 21:00	0.08	5.21	0.00	1.42
12/25/19 22:00	0.08	5.22	0.00	1.41

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/25/19 23:00	0.08	5.21	0.00	1.41
12/26/19 0:00	0.08	5.21	0.00	1.42
12/26/19 1:00	0.08	5.21	0.00	1.42
12/26/19 2:00	0.08	5.21	0.00	1.42
12/26/19 3:00	0.08	5.21	0.00	1.42
12/26/19 4:00	0.08	5.21	0.00	1.42
12/26/19 5:00	0.08	5.20	0.00	1.43
12/26/19 6:00	0.08	5.21	0.00	1.46
12/26/19 7:00	0.08	5.22	0.00	1.49
12/26/19 8:00	0.08	5.23	0.00	1.52
12/26/19 9:00	0.08	5.24	0.00	1.56
12/26/19 10:00	0.08	5.25	0.00	1.59
12/26/19 11:00	0.08	5.26	0.00	1.62
12/26/19 12:00	0.09	5.27	0.00	1.66
12/26/19 13:00	0.09	5.28	0.00	1.91
12/26/19 14:00	0.09	5.28	0.00	2.30
12/26/19 15:00	0.09	5.28	0.00	2.36
12/26/19 16:00	0.09	5.29	0.00	2.28
12/26/19 17:00	0.10	5.29	0.00	2.21
12/26/19 18:00	0.10	5.29	0.00	2.05
12/26/19 19:00	0.10	5.29	0.00	1.82
12/26/19 20:00	0.10	5.29	0.00	1.66
12/26/19 21:00	0.10	5.30	0.00	1.62
12/26/19 22:00	0.10	5.32	0.00	1.58
12/26/19 23:00	0.10	5.35	0.00	1.55
12/27/19 0:00	0.10	5.38	0.00	1.52
12/27/19 1:00	0.10	5.41	0.00	1.48
12/27/19 2:00	0.10	5.43	0.00	1.45
12/27/19 3:00	0.10	5.46	0.00	1.42
12/27/19 4:00	0.10	5.49	0.00	1.42
12/27/19 5:00	0.09	5.52	0.00	1.46
12/27/19 6:00	0.09	5.55	0.00	1.49
12/27/19 7:00	0.09	5.58	0.00	1.52
12/27/19 8:00	0.09	5.62	0.00	1.55
12/27/19 9:00	0.09	5.65	0.00	1.59
12/27/19 10:00	0.08	5.68	0.00	1.62
12/27/19 11:00	0.08	5.71	0.00	1.78
12/27/19 12:00	0.08	5.75	0.00	2.14
12/27/19 13:00	0.08	5.81	0.00	2.48
12/27/19 14:00	0.08	5.87	0.00	2.78
12/27/19 15:00	0.07	5.94	0.00	3.06
12/27/19 16:00	0.07	6.02	0.00	3.11
12/27/19 17:00	0.07	6.09	0.00	3.00
12/27/19 18:00	0.07	6.17	0.00	2.76
12/27/19 19:00	0.07	6.23	0.00	2.40
12/27/19 20:00	0.06	6.30	0.00	2.23
12/27/19 21:00	0.06	6.36	0.00	2.09
12/27/19 22:00	0.06	6.38	0.00	1.99
12/27/19 23:00	0.06	6.39	0.00	1.88
12/28/19 0:00	0.06	6.41	0.00	1.79
12/28/19 1:00	0.06	6.42	0.00	1.70
12/28/19 2:00	0.06	6.43	0.00	1.64
12/28/19 3:00	0.06	6.45	0.00	1.60
12/28/19 4:00	0.06	6.46	0.00	1.57
12/28/19 5:00	0.06	6.47	0.00	1.53
12/28/19 6:00	0.07	6.45	0.00	1.50
12/28/19 7:00	0.07	6.42	0.00	1.46
12/28/19 8:00	0.07	6.39	0.00	1.43
12/28/19 9:00	0.07	6.36	0.00	1.44

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/28/19 10:00	0.07	6.33	0.00	1.50
12/28/19 11:00	0.08	6.30	0.00	1.57
12/28/19 12:00	0.08	6.27	0.00	1.63
12/28/19 13:00	0.08	6.16	0.00	1.80
12/28/19 14:00	0.08	6.02	0.00	2.03
12/28/19 15:00	0.08	5.90	0.00	2.20
12/28/19 16:00	0.08	5.79	0.00	2.20
12/28/19 17:00	0.09	5.70	0.00	2.12
12/28/19 18:00	0.09	5.61	0.00	2.04
12/28/19 19:00	0.09	5.50	0.00	1.78
12/28/19 20:00	0.10	5.38	0.00	1.48
12/28/19 21:00	0.10	5.25	0.00	1.31
12/28/19 22:00	0.10	5.11	0.00	1.27
12/28/19 23:00	0.11	4.99	0.00	1.26
12/29/19 0:00	0.11	4.88	0.00	1.25
12/29/19 1:00	0.11	4.81	0.00	1.23
12/29/19 2:00	0.11	4.75	0.00	1.22
12/29/19 3:00	0.11	4.69	0.00	1.21
12/29/19 4:00	0.11	4.63	0.00	1.20
12/29/19 5:00	0.11	4.56	0.00	1.20
12/29/19 6:00	0.11	4.50	0.00	1.23
12/29/19 7:00	0.11	4.44	0.00	1.27
12/29/19 8:00	0.11	4.41	0.00	1.32
12/29/19 9:00	0.11	4.39	0.00	1.36
12/29/19 10:00	0.11	4.37	0.00	1.40
12/29/19 11:00	0.12	4.34	0.00	1.47
12/29/19 12:00	0.12	4.32	0.00	1.63
12/29/19 13:00	0.12	4.30	0.00	1.63
12/29/19 14:00	0.12	4.28	0.00	1.55
12/29/19 15:00	0.13	4.25	0.00	1.47
12/29/19 16:00	0.13	4.15	0.00	1.36
12/29/19 17:00	0.13	4.04	0.00	1.23
12/29/19 18:00	0.14	4.00	0.00	1.19
12/29/19 19:00	0.14	3.99	0.00	1.18
12/29/19 20:00	0.13	3.97	0.00	1.17
12/29/19 21:00	0.13	3.96	0.00	1.16
12/29/19 22:00	0.13	3.95	0.00	1.15
12/29/19 23:00	0.13	3.94	0.00	1.14
12/30/19 0:00	0.13	3.92	0.00	1.13
12/30/19 1:00	0.13	3.91	0.00	1.12
12/30/19 2:00	0.13	3.92	0.00	1.14
12/30/19 3:00	0.13	3.93	0.00	1.15
12/30/19 4:00	0.13	3.94	0.00	1.17
12/30/19 5:00	0.13	3.95	0.00	1.19
12/30/19 6:00	0.13	3.96	0.00	1.20
12/30/19 7:00	0.13	3.97	0.00	1.22
12/30/19 8:00	0.13	3.98	0.00	1.24
12/30/19 9:00	0.13	3.99	0.00	1.26
12/30/19 10:00	0.13	3.98	0.00	1.32
12/30/19 11:00	0.13	3.98	0.00	1.40
12/30/19 12:00	0.12	3.97	0.00	1.47
12/30/19 13:00	0.12	3.96	0.00	1.64
12/30/19 14:00	0.11	3.95	0.00	1.85
12/30/19 15:00	0.11	3.95	0.00	2.04
12/30/19 16:00	0.10	3.94	0.00	2.26
12/30/19 17:00	0.10	3.93	0.00	2.22
12/30/19 18:00	0.10	3.93	0.00	2.02
12/30/19 19:00	0.09	3.92	0.00	1.67
12/30/19 20:00	0.09	3.91	0.00	1.44

24-Hour Rolling Average TRS and 3-Hour Rolling Average H ₂ S for 4Q19				
	24-Hour Rolling Average TRS (ppm)		3-Hour Rolling Average H ₂ S (ppm)	
Time	Gas Turbine	HRSG	Gas Turbine	HRSG
12/30/19 21:00	0.08	3.90	0.00	1.39
12/30/19 22:00	0.08	3.89	0.00	1.37
12/30/19 23:00	0.08	3.88	0.00	1.35
12/31/19 0:00	0.07	3.87	0.00	1.33
12/31/19 1:00	0.07	3.86	0.00	1.31
12/31/19 2:00	0.07	3.84	0.00	1.29
12/31/19 3:00	0.07	3.81	0.00	1.26
12/31/19 4:00	0.06	3.78	0.00	1.25
12/31/19 5:00	0.06	3.76	0.00	1.28
12/31/19 6:00	0.06	3.73	0.00	1.32
12/31/19 7:00	0.06	3.70	0.00	1.36
12/31/19 8:00	0.06	3.68	0.00	1.39
12/31/19 9:00	0.06	3.66	0.00	1.43
12/31/19 10:00	0.06	3.69	0.00	1.47
12/31/19 11:00	0.06	3.74	0.00	1.57
12/31/19 12:00	0.06	3.79	0.00	1.80
12/31/19 13:00	0.06	3.84	0.00	1.96
12/31/19 14:00	0.06	3.88	0.00	1.92
12/31/19 15:00	0.05	3.90	0.00	1.88
12/31/19 16:00	0.05	3.90	0.00	1.83
12/31/19 17:00	0.05	3.91	0.00	1.79
12/31/19 18:00	0.05	3.91	0.00	1.74
12/31/19 19:00	0.05	3.92	0.00	1.66
12/31/19 20:00	0.06	3.92	0.00	1.58
12/31/19 21:00	0.06	3.93	0.00	1.49
12/31/19 22:00	0.06	3.93	0.00	1.42
12/31/19 23:00	0.06	3.93	0.00	1.36