



Shell Oil Products US

Martinez Refinery
PO Box 711
Martinez, CA 94553-0071
Tel (925) 313-3000
Fax (925) 313-3065

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

January 27, 2020

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Title V Reports

Subject: Semi-Annual Title V Deviation Summary Report
July 1, 2019 – December 31, 2019

Dear Mr. Gove:

Please find Shell Oil Products US, Martinez Refinery's Semi-Annual Title V Deviation Summary report for the period of July 1, 2019 through December 31, 2019. This report also includes a summary of the inoperable monitors for the second half of 2019.

The refinery's Responsible Official, Jeff Harris, has signed the reports.

Please contact Rick Shih at (925) 313-0586 with any questions regarding this report.

Sincerely yours,

A handwritten signature in blue ink, appearing to read "Gordon Johnson".

Gordon Johnson
Manager, Environmental Affairs Department
Shell Oil Products US, Martinez Refinery

Attachments

RECEIVED
2020 JAN 27 PM 1:22
BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

BAAQMD Title V Permit
6 Month Deviation Summary Report
From 6/1/2019 *to* 12/31/2019

A0011 Shell Oil Products US Martinez Refinery

Facility Address:

3485 Pacheco Blvd

City: Martinez

State: CA

Zip Code: 94553-0071

Mailing Address

PO Box 711

City: Martinez

State: CA

Zip Code: 94553-0071

Contact: Rick Shih

Title: Environmental Engineer

Phone: (925) 313-0586

Title V deviations for the reporting period are summarized below:

Event Started: 7/16/2019 8:00 AM	<input type="checkbox"/> Ongoing Event
Stopped: 7/16/2019 3:30 PM	
Source Number: S602	
Abatement Device : S602	
Emission Point: _____	

Event Description: Flare for Crude String Vapor Recovery System #3 (VRS3) showed an indicated excess of the net heating value of dilution (NHV/dil)

Probable Cause: Limited vapor flow from vent gas blower.

Corrective actions or preventative steps taken:
Adjusted air flow rate from air blower to account for lower vapor flow.

May have resulted in a violation of :
Permit: _____
AQMD: _____
Other: 40 CFR 63.670(f)

Event Started:	7/30/2019	9:00 AM	<input type="checkbox"/> Ongoing Event
Stopped:	7/30/2019	10:00 AM	<input type="checkbox"/>

Event Description: Flare for Interim Gasoline Vapor Recovery System #1 (VRS1) showed an indicated excess of the net heating value of dilution (NHWdil).

Probable Cause: Lower than anticipated vent gas flow.

Corrective actions or preventative steps taken: Adjusted air flow to account for lower vent gas flow.

Event Started:	6/6/2019	8:00 PM	<input type="checkbox"/> Ongoing Event
Stopped:	6/6/2019	9:00 PM	<input type="checkbox"/>

Event Description: COB #3 Opacity analyzer 9AI2533 showed an indicated excess on greater than 1 Ringelmann for 3 minutes in a clock hour during the hour of 2000

Probable Cause: Activities during maintenance.

Corrective actions or preventative steps taken: Notified appropriate staff and investigated condition of unit including performance of ESP.

Event Started:	6/6/2019	2:00 PM	<input type="checkbox"/> Ongoing Event
Stopped:	6/6/2019	3:00 PM	<input type="checkbox"/>

Event Description: COB #2 Opacity analyzer 9AI2531 showed an indicated excess on greater than 1 Ringelmann for 3 minutes in a clock hour during the hour of 1400

Probable Cause: Clearing of plugged hopper.

Corrective actions or preventative steps taken: Stationed observer to monitor and better manage activity level.

Source Number:	<hr/>
Abatement Device :	<hr/>
Emission Point:	<hr/>

May have resulted in a violation of :	<hr/>
Permit:	<hr/>
AQMD:	<hr/>
Other: 40 CFR 63.670(f)	<hr/>

May have resulted in a violation of :	<hr/>
Permit:	<hr/>
AQMD:	Regulation 6 Rule 1 Section 30
Other:	<hr/>

Event Started:	<u>6/12/2019</u>	6:00 PM	<input type="checkbox"/> Ongoing Event
Stopped:	<u>6/12/2019</u>	7:00 PM	<input type="checkbox"/>

Event Description: SRU 4 stack SO₂ analyzer 18AI601 showed an indicated excess of > 250 ppm hourly avg in the 1800 clock hour

Probable Cause: Insufficient oxygen due to abnormal composition of off-gas from SWS7, resulting in H₂S rich tail gas stream

Corrective actions or preventative steps taken:
Removed steam from SWS7 reboiler and then shut down SWS7.

Source Number:	<u>4180</u>
Abatement Device :	<u>A4180</u>
Emission Point:	<u>_____</u>

Event Started:	<u>9/15/2019</u>	3:00 PM	<input type="checkbox"/> Ongoing Event
Stopped:	<u>9/15/2019</u>	4:00 PM	<input type="checkbox"/>

Event Description: COB #3 Opacity analyzer 9AI2533 showed an indicated excess on greater than 1 Ringelmann for 3 minutes in a clock hour during the hour of 1500

Probable Cause: While operating in 2 COB operation, COB#3 ESPs were unable to handle a fluctuation in demand.

Corrective actions or preventative steps taken:
Reduced flue gas that was going into COB#3

May have resulted in a violation of :	
Permit:	<u>_____</u>
AQMD:	<u>Regulation 9 Rule 1</u>
Other:	<u>_____</u>

May have resulted in a violation of :	
Permit:	<u>_____</u>
AQMD:	<u>Regulation 6 Rule 1 Section 30</u>
Other:	<u>_____</u>

Event Started:	<u>8/15/2019</u>	9:17 PM	<input type="checkbox"/> Ongoing Event
Stopped:	<u>8/28/2019</u>	3:30 PM	<input type="checkbox"/>

Event Description: Monitors 10A2680 & 10Z2681 were not online while furnaces (S1500, S1502, S1503, S1504, S1515) were exhausting into Chimney 2.

Probable Cause: Analyzers were not turned on at time of furnace startups.

Corrective actions or preventative steps taken:
Turned on analyzers. Future corrective action to modify startup procedures and update control board display noting startup of furnaces.

May have resulted in a violation of :	
Permit:	<u>18265</u>
AQMD:	<u>9-10-502</u>
Other:	<u>_____</u>

Event Started:	<u>10/9/2019 11:00 AM</u>	<input type="checkbox"/> Ongoing Event
Stopped:	<u>10/16/2019 1:00 PM</u>	<input type="checkbox"/>

Event Description: During an inspection, the secondary seal on the internal floating roof of Tank 129 (S-6062) was found to have wiper sections that were cracked and torn.

Probable Cause: Potential wear and tear.

Corrective actions or preventative steps taken: Tank emptied and taken out of service and secondary seal replaced.

Event Started:	<u>10/14/2019 4:47 PM</u>	<input type="checkbox"/> Ongoing Event
Stopped:	<u>10/14/2019 4:52 PM</u>	<input type="checkbox"/>

Event Description: COB #1 opacity analyzer 9AI2529 showed an indicated excess of greater than 1 Ringelmann for more than 3 minutes in a clock hour during the hour of 16:00.

Probable Cause: Possibly due to insufficient ammonia slip during shut down of unit.

Corrective actions or preventative steps taken: Balance efforts between NOx and opacity control.

Event Started:	<u>10/14/2019 10:59 PM</u>	<input type="checkbox"/> Ongoing Event
Stopped:	<u>10/15/2019 12:03 AM</u>	<input type="checkbox"/>

Event Description: During flaring activities, CF Flare (S4201) meters indicated an excess of the net heating value in the combustion zone (NHW_{CZ}) from 10/14/2019 10:59 pm to 10/15/2019 12:03 am.

Probable Cause: Control of supplemental gas did not sufficiently account for steam flow.

Corrective actions or preventative steps taken: Adjust supplemental gas controls to better account for steam flow.

Source Number:	<u>129</u>
Abatement Device :	<u></u>
Emission Point:	<u></u>

May have resulted in a violation of :	<u></u>
Permit:	<u></u>
AQMD:	<u>Regulation 8, Rule 5, Section 3</u>
Other:	<u></u>

May have resulted in a violation of :	<u></u>
Permit:	<u></u>
AQMD:	<u>Regulation 6, Rule 1, Section 3</u>
Other:	<u></u>

Source Number:	<u>1507</u>
Abatement Device :	<u>A12</u>
Emission Point:	<u></u>

May have resulted in a violation of :	<u></u>
Permit:	<u></u>
AQMD:	<u>Regulation 10</u>
Other:	<u>40 CFR 63.670(d) and EPA-HQ</u>

Event Started:	10/15/2019 9:36 PM	<input type="checkbox"/> Ongoing Event
Stopped:	10/15/2019 9:57 PM	

Event Description: COB#1 opacity analyzer 9AI2529 showed an indicated excess of greater than 1 Ringelman for more than 3 minutes in a clock hour during the 21:00 hour and greater than 1.5 Ringelman over a 6 minute average in that same hour.

Probable Cause: During shut down of unit, condensate may have formed resulting in indicated excess.

Corrective actions or preventative steps taken:
Unit was being shut down.

Source Number:	1507
Abatement Device :	A12
Emission Point:	

May have resulted in a violation of :

Permit: Condition #22165 Part 6
AQMD: Regulation 6, Rule 1 Section 30
Other: _____

Event Started:	10/10/2019 6:15 PM	<input type="checkbox"/> Ongoing Event
Stopped:	10/11/2019 12:05 PM	

Event Description: An analyzer component failed which caused Rosemount 951C Nox Analyzer (AP A1129) to fail offline.

Probable Cause: Component associated with analyzer failed.

Corrective actions or preventative steps taken:
Replaced fuse.

Source Number:	4160
Abatement Device :	
Emission Point:	

May have resulted in a violation of :

Permit: Condition #12271 Part 29
AQMD: _____
Other: _____

Source Number:	1509
Abatement Device :	A13
Emission Point:	

Event Started:	11/22/2019 2:38 PM	<input type="checkbox"/> Ongoing Event
Stopped:	11/22/2019 3:12 PM	

Event Description: COB#2 opacity analyzer 9AI2531 showed an indicated excess of greater than 1 Ringelman for more than 3 minutes as well as greater than 1.5 Ringelman over a 6 minute average during the 14:00 clock hour and again in the 15:00 clock hour.

Probable Cause: During instrument calibration, the controls were set such that the system became fuel rich, resulting in tripping off the ESP for safety reasons.

Corrective actions or preventative steps taken:
Stopped calibration work and restarted ESP. Will be clarifying operating instructions for calibration activities.

Source Number:	1509
Abatement Device :	A13
Emission Point:	

May have resulted in a violation of :

Permit: Condition #22165 Part 6
AQMD: Regulation 6, Rule 1 Section 30
Other: _____

Event Started:	<u>11/26/2019 6:00 PM</u>	<input type="checkbox"/> Ongoing Event
Stopped:	<u>11/26/2019 7:00 PM</u>	
Corrective actions or preventative steps taken: <u>Increased anti-foam usage until stripper operation returned to normal.</u>		

Event Description: SCOT #2 SO2 analyzer 8A1849 showed an indicated excess of greater than 250 ppm hourly average in the 1800 hour
 Probable Cause: Foam levels increased in the SCOT2 stripper. In response, steam to the stripper was reduced to control levels. As a result, sufficient H2S was not removed in the stripper resulting in the exceedance.

Source Number:	<u>1432</u>
Abatement Device :	<u>A1431</u>
Emission Point:	<u>_____</u>
May have resulted in a violation of :	
Permit:	<u>Reg 9 Rule 1 Sec 307</u>
AQMD:	<u>_____</u>
Other:	<u>_____</u>

Event Description: SCOT #2 SO2 analyzer 8A1849 showed an indicated excess of greater than 250 ppm hourly average in the 1800 hour
 Probable Cause: Foam levels increased in the SCOT2 stripper. In response, steam to the stripper was reduced to control levels. As a result, sufficient H2S was not removed in the stripper resulting in the exceedance.

Corrective actions or preventative steps taken: Increased anti-foam usage until stripper operation returned to normal.

Event Started:	<u>11/2/2019 11:59 PM</u>	<input type="checkbox"/> Ongoing Event
Stopped:	<u>11/5/2019 12:00 PM</u>	
Corrective actions or preventative steps taken: <u>Corrected monitoring tool. Added additional level of review.</u>		

Event Description: Discovered on 12/10/2019 late quarterly tank seal inspection on external floating roof Tank-1129 Source#1129.

Probable Cause: Temporary problem with monitoring tool resulting in missed inspection.

Corrective actions or preventative steps taken: Corrected monitoring tool. Added additional level of review.

Event Started:	<u>11/5/2019 11:59 PM</u>	<input type="checkbox"/> Ongoing Event
Stopped:	<u>11/14/2019 12:00 PM</u>	
Corrective actions or preventative steps taken: <u>Corrected monitoring tool. Added additional level of review.</u>		

Event Description: Discovered on 12/10/2019 late quarterly tank seal inspection on external floating roof Tank-17596 Source#6069.

Probable Cause: Temporary problem with monitoring tool resulting in missed inspection.

Corrective actions or preventative steps taken: Corrected monitoring tool. Added additional level of review.

Source Number:	<u>1129</u>
Abatement Device :	<u>_____</u>
Emission Point:	<u>_____</u>
May have resulted in a violation of :	
Permit:	<u>Regulation 8 Rule 5 Sec 401</u>
AQMD:	<u>_____</u>
Other:	<u>_____</u>

Event Started:	11/12/2019 11:59 PM	<input type="checkbox"/> Ongoing Event
Stopped:	11/20/2019 12:00 PM	
Event Description: Discovered on 12/10/2019 late quarterly tank seal inspection on external floating roof Tank-17597 Source#6070.		

Probable Cause: Temporary problem with monitoring tool resulting in missed inspection.

Corrective actions or preventative steps taken: Corrected monitoring tool. Added additional level of review.

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.


x _____
Signature of Responsible Official


Jeff Harris
Print Name

General Manager
Title

Date

May have resulted in a violation of :	
Permit:	
AQMD:	Regulation 8 Rule 5 Sec 401
Other:	

BAAQMD Title V Permit
6 Month Monitoring Report

From 6/1/2019 to 12/31/2019

A0011 Shell Oil Products US Martinez Refinery									
Facility Address:	Mailing Address								
3485 Pacheco Blvd	PO Box 711								
City: Martinez									
State: CA									
Zip Code: 94553-0071									
Contact: Rick Shih	Title: Environmental Engineer Phone: (925) 313-0586								

Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:

Started	Stopped	Source (S#)	Abatement Device (A#)	Emission Point (P#)	Fuel CEM	GLM	Gas Parametric NOx	SO ₂	CO	H ₂ S	TRS	NH ₃	O ₂	CO ₂ H ₂ O	LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Gauge Temp.	VOC	Press.	
6/12/2019 10:40 PM	6/14/2019 5:15 PM				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: Flexigas flare flowmeter 14F4232 has been malfunctioning >24 hours.																									
7/4/2019 6:00 AM	7/5/2019 1:28 PM				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: F-63 O ₂ CEM 6A2277 was malfunctioning >24 hours. Lost communication.																									
7/4/2019 6:00 AM	7/5/2019 1:28 PM				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: F-63 NO _x CEM 6A2276 was malfunctioning >24 hours. Lost communication.																									
7/12/2019 3:40 PM	7/17/2019 12:30 PM				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: VRS 3 Flare flowmeter 1F1271 has been malfunctioning >24hrs. Reading is suspect																									
7/12/2019 3:40 PM	7/15/2019 4:55 PM				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: VRS #3 Flare BTU analyzer 1A1255 has been malfunctioning >24hrs. Analyzer reading is suspect.																									
7/22/2019 7:30 AM	7/23/2019 1:30 PM				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Event Description: HRSG 1 NO _x analyzer (66A1417) has been out of service >24hrs. Analyzer is being replaced.																									
7/22/2019 7:30 AM	7/23/2019 1:30 PM				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: HRSG 1 Stack O ₂ CEM (66A1416) has been out of service >24hrs. Analyzer is being replaced.																									
7/23/2019 7:45 AM	7/24/2019 1:00 PM				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: Cogen 2 O ₂ CEM (66A1616) has been out of service >24hrs. Analyzer is being replaced																									
7/23/2019 7:45 AM	7/24/2019 1:00 PM				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: Cogen 2 NO _x analyzer (66A1617) has been out of service >24hrs. Analyzer is being replaced																									

Started	Stopped	Source (S#)	Abatement Device (A#)	Emission Point (P#)	Fuel CEM GLM Gas Parametric NOx SO ₂ CO H ₂ S TRS NH ₃ O ₂ CO ₂ H ₂ O LTA Lead Steam Flow Wind Dir. Speed pH Temp. VOC_	Gauge Pressure	
7/26/2019 10:30 PM	7/30/2019 1:15 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	CF Flare BTU analyzer (67 A1250) has been malfunctioning >24hrs						
8/17/2019 7:35 AM	8/19/2019 10:05 AM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	CF Flare BTU analyzer (67 A1250) has been malfunctioning >24hrs						
8/18/2019 9:50 AM	8/23/2019 2:25 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	HRSG 2 NOx analyzer (66 A1617) has been malfunctioning >24hrs						
8/18/2019 9:50 AM	8/23/2019 2:25 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	HRSG 2 O ₂ analyzer (66 A1616) has been malfunctioning >24hrs						
8/20/2019 8:40 AM	8/23/2019 7:32 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	Fuel Gas Blend Drum Specific Gravity analyzer (9A413) has been malfunctioning >24hrs						
8/20/2019 8:40 AM	8/23/2019 7:32 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	FGBD BTU analyzer (9A2716) has been malfunctioning >24hrs						
8/29/2019 8:35 AM	8/30/2019 10:55 AM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	Fuel Gas Blend Drum Specific Gravity analyzer (9A413) has been malfunctioning >24hrs						
8/29/2019 8:35 AM	8/30/2019 10:55 AM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	FGBD BTU analyzer (9A2716) has been malfunctioning >24hrs						
9/6/2019 8:05 AM	9/7/2019 12:30 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	Chimney 1 West Breach NO _x analyzer (2A2727) has been malfunctioning >24hrs						
9/21/2019 4:26 AM	9/22/2019 11:59 AM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	COB2 NH ₃ analyzer (9A1022) has been malfunctioning >24hrs						
10/20/2019 2:00 PM	10/21/2019 2:32 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	CWT HC analyzer (40 A 1708) has been inoperative > 24 hours.						
10/25/2019 2:00 PM	10/27/2019 2:45 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	COB #1 / NO _x / A 2561 analyzer has been malfunctioning >24hrs						
11/3/2019 7:46 AM	11/4/2019 5:50 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	RFG to Clean Fuels H ₂ S analyzer (9 A 2831) and TRS analyzer (9 A 2825) has been inoperative > 24 hours.						
11/26/2019 2:55 PM	11/28/2019 12:35 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	Clean Fuels CWT HC analyzer (40A1708) was inoperative >24 hours.						
12/3/2019 9:00 AM	12/4/2019 3:30 PM	✓			□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	
Event Description:	Shell Ave GLM / H ₂ S / 1 A 1469 analyzer has been inoperative >24						

<u>Started</u>	<u>Stopped</u>	<u>Source (S#)</u>	<u>Abatement Device (A#)</u>	<u>Emission Point (P#)</u>	<u>CEM</u>	<u>GLM</u>	<u>Gas Parametric NOx</u>	<u>SO2</u>	<u>CO</u>	<u>H2S</u>	<u>TRS</u>	<u>NH3</u>	<u>O2</u>	<u>CO2</u>	<u>H2O</u>	<u>LTA</u>	<u>Lead Steam Flow</u>	<u>Wind</u>	<u>Dir.</u>	<u>Speed</u>	<u>pH</u>	<u>Temp.</u>	<u>VOC</u>	<u>Gauge</u>	
12/8/2019 10:18 PM	12/10/2019 9:10 AM	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>																				
Event Description:	RFG H2S / 9 A 2831 analyzer has been malfunctioning >24hrs																								
12/11/2019 11:55 AM	12/12/2019 6:00 PM	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>																				
Event Description:	SRU / SCOT 1 & 2 / SCOT #1&2 / 8 A 0830 O2 analyzer has been inoperative >24 hours.																								
12/12/2019 2:00 PM	12/20/2019 12:15 PM	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>																				
Event Description:	Inoperative Monitor report for Air Products (HP3) Site #1 A-0011 and Source S-4160/4161. They had to replace a major part on our CEMS O2 analyzer. The O2 monitor is used in the calculation for their 3-HR RA's at 3% O2.																								
12/16/2019 9:35 AM	12/17/2019 6:00 PM	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>																				
Event Description:	COB #1 / NOx / 9 A 2561 & COB #1 / O2 / 9 A 2610 analyzers have been inoperative >24 hours.																								

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

Jeff Harris General Mgr

Print Name
Signature of Responsible Official

Date

Title

