

October 30, 2020

CERTIFIED: 7016 2710 0001 0589 4621

Department of Environmental Quality Office of Environmental Compliance **Enforcement Division** P.O. Box 4312 Baton Rouge, LA 70821-4312

NSPS Excess Emissions & CEM Performance Report – 3rd Quarter 2020

Valero Refining - Meraux LLC, Agency Interest # 1238 2235 Jacob Drive, St. Bernard Parish, Meraux, LA

Title V Permit Numbers: 2500-00001-V17

Gentlemen,

Valero Refining, Meraux LLC is submitting this Excess Emissions and Monitoring Systems Reports, per LAC 33:III, Chapter 30, 40 CFR 60.7(c), 40 CFR 60.108a(d) and 40 CFR 63.1575 for the Third Quarter 2020.

For this reporting period, no CEMS had excess emissions greater than 1% of the total operating time and no CEMS had downtime greater than 5% of the total operating time.

Enclosed are the Data Assessment Reports for the appropriate CEMs and information required by NSPS Subpart Ja, 40 CFR 60.108a(d). Subpart Ja root cause and corrective action analysis reports are included with this submittal. Updates to previously submitted Subpart Ja root cause and corrective action analysis reports are also included if corrective actions were completed in this reporting period.

Should you have any questions regarding this submission, please contact Mr. Justin Stubbe at (504) 271-4141.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Regards,

Leslie Sullivan

Vice President and General Manager

Meraux Refinery

Enclosures

cc:

Mr. Brian Tusa, LDEQ SE Regional Office, New Orleans, LA

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: SO_2

Applicable NSPS Subpart: ___Ja__

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 250 ppm on a 12-hour rolling average

Monitor Manufacturer and Model No.: Brimstone SGX-231(SO₂)/Rosemount Oxymitter 4000(O₂)

Date of Latest CMS Certification or Audit: CGA on 8/6/20

Process Unit(s) Description: #2 SRU Incinerator (EPN 1-93, EQT 0019)

Emissions Data Summary ¹		
1. Duration of excess emissions in reporting period due to:	(hours)	
a. Startup/shutdown	0	
b. Control equipment problems	0	
c. Process problems	10	
d. Other known causes	0	
e. Unknown causes	0	
2. Total duration of excess emission	10	
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.5 %	

CMS Performance Summary ¹		
1. CMS downtime in reporting period due to:	(hours)	
a. Monitor equipment malfunctions	0	
b. Non-Monitor equipment malfunctions	0	
c. Quality assurance calibration	1	
d. Other known causes	0	
e. Unknown causes	21	
2. Total CMS Downtime	22	
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	1.0 %	

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: SO_2

Applicable NSPS Subpart: ___Ja__

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: ABB AO2000 Uras 26(SO₂)/ Magnos 206 (O₂)

Date of Latest CMS Certification or Audit: CGA on 9/2/20

Process Unit(s) Description: #3 SRU Incinerator (EPN 5-00, EQT 0079)

Emissions Data Summary ¹		
1. Duration of excess emissions in reporting period due to:	(hours)	
a. Startup/shutdown	0	
b. Control equipment problems	0	
c. Process problems	0	
d. Other known causes	0	
e. Unknown causes	0	
2. Total duration of excess emission	0	
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %	

CMS Performance Summary ¹		
1. CMS downtime in reporting period due to:	(hours)	
a. Monitor equipment malfunctions	0	
b. Non-Monitor equipment malfunctions	0	
c. Quality assurance calibration	1	
d. Other known causes	0	
e. Unknown causes	0	
2. Total CMS Downtime	1	
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %	

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d))

Pollutant: H₂S

Applicable NSPS Subpart: __J_

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: <u>Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average</u>

Monitor Manufacturer and Model No.: Ametek, #4661

Date of Latest CMS Certification or Audit: CGA on 7/28/20

Process Unit(s) Description: Area 1 Fuel Drum for Boiler TB-01 (EPN 1-06, EQT 0010); Boiler B-7 (EPN 1-07, EQT 0011); MDH

Product and Fractionator Heaters (EPN 2-92, EQT 0033); DHT Charge Heater (EPN 5-73, EQT 0058)

Total source operating time in reporting period: <u>EQT 0010-2,065 hours</u>, <u>EQT 0011-2,170 hours</u>, <u>EQT 0033-2,208 hours</u>, <u>EQT 0058-566 hours</u>

Emissions Data Summary ¹				
1. Duration of excess emissions in reporting period due to:	EQT 0010 (hours)	EQT 0011 (hours)	EQT 0033 (hours)	EQT 0058 (hours)
a. Startup/shutdown	0	0	0	0
b. Control equipment problems	0	0	0	0
c. Process problems	0	0	0	0
d. Other known causes	0	0	0	0
e. Unknown causes	0	0	0	0
2. Total duration of excess emission	0	0	0	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %	0.0 %	0.0 %	0.0 %

CMS Performance Summary ¹				
1. CMS downtime in reporting period due to:	EQT 0010 (hours)	EQT 0011 (hours)	EQT 0033 (hours)	EQT 0058 (hours)
a. Monitor equipment malfunctions	0	0	0	0
b. Non-Monitor equipment malfunctions	0	0	0	0
c. Quality assurance calibration	0	0	0	0
d. Other known causes	0	0	0	0
e. Unknown causes	0	0	0	0
2. Total CMS Downtime	0	0	0	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %	0.0 %	0.0 %	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted. (Percentage based on the lowest operating time.)

MONITORING SYSTEMS PERFORMANCE

(per 40 CFR 60.7(d))

Po	llutant:	H_2S
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Applicable NSPS Subpart: ___J

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Subpart J: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 7/31/20

Process Unit(s) Description: Area 2 Fuel Drum for: Vacuum Heater (EPN 1-76, EQT 0013); No.1 Crude Heater (EPN 12-72A, EQT 0022); NHT Debut Reboiler (EPN 15-72, EQT 0024); NHT Depent Reboiler (EPN 16-72 EQT 0027); Platformer Charge Heater (EPN 17-72 a,b,c, EQT 0028); Platformer Debut Reboiler (EPN 19-72, EQT 0029); ROSE Heater (EPN 1-80, EQT 0014)

Total source operating time in reporting period: <u>EQT 0013-2,208 hours</u>; <u>EQT 0022-2,208 hours</u>; <u>EQT 0024-2,208 hours</u>; <u>EQT 0024-2,208 hours</u>; <u>EQT 0028-2,208 hours</u>; <u>EQT 0029-2,208 hours</u>; <u>EQT 0014-2,208 hours</u>

Emissions Data Summary ¹		
1. Duration of excess emissions in reporting period due to:	All EQT's (hours)	
a. Startup/shutdown	0	
b. Control equipment problems	0	
c. Process problems	0	
d. Other known causes	0	
e. Unknown causes	0	
2. Total duration of excess emission	0	
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %	

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	All EQT's (hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: H₂S

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Subpart Ja: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average and 60 ppm on a 365 day

rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: <u>CGA on 7/31/20</u>

Process Unit(s) Description: Area 2 Fuel Drum for: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127); NHT Charge Heater

(EPN 1-17, EQT 0159)

Total source operating time in reporting period: <u>EQT 0127-2,156 hours</u>; <u>EQT 0159-2,208 hours</u>

Emissions Data Summary ¹			
1. Duration of excess emissions in reporting period due to:	EQT 0127 (hours)	EQT 0159 (hours	
a. Startup/shutdown	0	0	
b. Control equipment problems	0	0	
c. Process problems	0	0	
d. Other known causes	0	0	
e. Unknown causes	0	0	
2. Total duration of excess emission	0	0	
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %	0.0 %	

CMS Performance Summary ¹				
1. CMS downtime in reporting period due to:	EQT 0127 (hours)	EQT 0159 (hours		
a. Monitor equipment malfunctions	0	0		
b. Non-Monitor equipment malfunctions	0	0		
c. Quality assurance calibration	0	0		
d. Other known causes	0	0		
e. Unknown causes	0	0		
2. Total CMS Downtime	0	0		
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %	0.0 %		

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d))

Pollutant: H2S

Applicable NSPS Subpart: __J__

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 7/30/20

Process Unit(s) Description: Area 4 Fuel Drum for Merox Disulfide Separator to Platformer Charge Heater

Emissions Data Summary ¹		
1. Duration of excess emissions in reporting period due to:	(hours)	
a. Startup/shutdown	0	
b. Control equipment problems	0	
c. Process problems	0	
d. Other known causes	0	
e. Unknown causes	0	
2. Total duration of excess emission	0	
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %	

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d))

Applicable NSPS Subpart: __J_

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: <u>Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.</u>

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 7/28/20

Process Unit(s) Description: Area 6 Fuel Drum for Hydrocracker & Hydrotreater Charge Heaters (EPN 1-00, EQT 0009)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d))

Pollutant: H₂S

Applicable NSPS Subpart: __J_

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 8/6/20

Process Unit(s) Description: Area 6 Fuel Drum for Boiler B-5 (EPN 2-00, EQT 0030) and Boiler B-6 (EPN 3-00, EQT 0048)

Total source operating time in reporting period: <u>EQT 0030-2,208 hours; EQT 0048-0 hours</u>³

Emissions Data Summary ¹		
1. Duration of excess emissions in reporting period due to:	EQT 0030 (hours)	EQT 0048 (hours)
a. Startup/shutdown	0	0
b. Control equipment problems	0	0
c. Process problems	0	0
d. Other known causes	0	0
e. Unknown causes	0	0
2. Total duration of excess emission	0	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %	0.0 %

CMS Performance Summary ¹		
1. CMS downtime in reporting period due to:	EQT 0030 (hours)	EQT 0048 (hours)
a. Monitor equipment malfunctions	0	0
b. Non-Monitor equipment malfunctions	0	0
c. Quality assurance calibration	0	0
d. Other known causes	0	0
e. Unknown causes	0	0
2. Total CMS Downtime	0	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

³ Boiler B-6 ran on purchased natural gas for the entire Quarter.

(per 40 CFR 60.7(d))

Pollutant: NO_x

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB Limas11(NOx), Magnos27 (O2)

Date of Latest CMS Certification or Audit: CGA on 8/11/20

Process Unit(s) Description: Boiler B-5 (EPN 2-00, EQT 0030)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	1
e. Unknown causes	0
2. Total CMS Downtime	1
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d))

Pollutant: NO_x

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB Limas11(NOx), Magnos27 (O2)

Date of Latest CMS Certification or Audit: <u>CGA on 8/11/20</u>

Process Unit(s) Description: Boiler B-6 (EPN 3-00, EQT 0048)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	2
e. Unknown causes	21
2. Total CMS Downtime	23
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	1.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d))

Pollutant: NO_x

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NOx)/(O2)

Date of Latest CMS Certification or Audit: <u>CGA on 8/11/20</u>

Process Unit(s) Description: Boiler TB-01 (EPN 1-06, EQT 0010)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	1
d. Other known causes	5
e. Unknown causes	0
2. Total CMS Downtime	6
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.3 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: NO_x

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O₂ shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NOx)/(O₂)

Date of Latest CMS Certification or Audit: <u>CGA on 7/24/20</u>

Process Unit(s) Description: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	3
d. Other known causes	6
e. Unknown causes	0
2. Total CMS Downtime	9
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.4 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: NO_x

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O₂ shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: ABB Limas11(NOx), Magnos27 (O2)

Date of Latest CMS Certification or Audit: <u>CGA on 8/31/20</u>

Process Unit(s) Description: NHT Charge Heater (EPN 1-17, EQT 0159)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	1
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	1
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: NO_x

Applicable NSPS Subpart: N/A (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 36.a)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: ABB Limas11(NOx), Magnos27 (O2)

Date of Latest CMS Certification or Audit: <u>CGA on 8/7/20</u>

Process Unit(s) Description: No.1 Crude Heater (EPN 12-72A, EQT 0022)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: NO_x

Applicable NSPS Subpart: N/A (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 36.a)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: ABB Limas11(NOx), Magnos27 (O2)

Date of Latest CMS Certification or Audit: <u>CGA on 9/1/20</u>

Process Unit(s) Description: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	1
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	1
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: H₂S

Applicable NSPS Subpart: ____Ja___

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 5100

Date of Latest CMS Certification or Audit: CGA on 8/4/20

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	3
e. Unknown causes	0
2. Total CMS Downtime	3
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.1 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: H_2S

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 5100

Date of Latest CMS Certification or Audit: <u>CGA on 7/31/20</u>

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: H_2S

Applicable NSPS Subpart: ____Ja___

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 5100

Date of Latest CMS Certification or Audit: CGA on 8/4/20

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: Total Sulfur

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: <u>CGA on 7/22/20</u>

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	0
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: Total Sulfur

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: <u>CGA on 7/22/20</u>

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	1
d. Other known causes	19
e. Unknown causes	0
2. Total CMS Downtime	20
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.9 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: Total Sulfur

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: <u>CGA on 7/22/20</u>

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	3
e. Unknown causes	0
2. Total CMS Downtime	3
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.1 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: Flow

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: GE Panametrics GF 868

Date of Latest CMS Certification or Audit: N/A

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	1
d. Other known causes	0
e. Unknown causes	0
2. Total CMS Downtime	1
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: Flow

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: GE Panametrics GF 868

Date of Latest CMS Certification or Audit: N/A

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

Emissions Data Summary ¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %

CMS Performance Summary ¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	1
e. Unknown causes	0
2. Total CMS Downtime	1
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

Pollutant: Flow

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: GE Panametrics GF 868

Date of Latest CMS Certification or Audit: N/A

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

Emissions Data Summary ¹							
1. Duration of excess emissions in reporting period due to:	(hours)						
a. Startup/shutdown	0						
b. Control equipment problems	0						
c. Process problems	0						
d. Other known causes	0						
e. Unknown causes	0						
2. Total duration of excess emission	0						
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.0 %						

CMS Performance Summary ¹								
1. CMS downtime in reporting period due to:	(hours)							
a. Monitor equipment malfunctions	0							
b. Non-Monitor equipment malfunctions	0							
c. Quality assurance calibration	0							
d. Other known causes	1							
e. Unknown causes	0							
2. Total CMS Downtime	1							
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	0.0 %							

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

(per 40 CFR 60.7(d) and 60.108a(d))

For all CMS covered in this report, no changes were made in the 3rd Quarter 2020 to CMS, process, or controls.

I certify that the information contained in this report is true, accurate, and complete.

Signature

Env Engineer

Title

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: SO₂

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 250 ppm on a 12-hour rolling average

Monitor Manufacturer and Model No.: Brimstone SGX-231(SO₂)/Rosemount Oxymitter 4000(O₂)

Date of Latest CMS Certification or Audit: CGA on 8/6/20

Process Unit(s) Description: #2 SRU Incinerator (EPN 1-93, EQT 0019)

Total source operating time in reporting period: 2,208 hours

	Ja EXCESS EMISSIONS									
Date	Start	End	Duration (hours)	Max 12- HRA (ppm)	Cause	Corrective Action				
7/24/20	16:00		10	207	SO ₂ at 0% O ₂ greater than 250 ppm, 12-H emissions from the #2 and #3 SRU less th due to a unit upset caused by a partial loss	an 500 lbs/day above allowable				
7/25/20		02:00		307	failed lightening arrestor. For causes and cause and corrective action analysis for th Appendix B of this report.					
TOTAL			10							

	Ja CMS PERFORMANCE ¹									
Date	Start	End	Duration (hours)	Cause	Corrective Action					
8/1/20	13:00		21	Unknown. Analyzer read 2x high on the span value during the automatic daily calibration check. Valero	Valero rechecked the analyzer the following day, calibrated it, and then returned it to service. After this					
8/2/20		10:00	21	calibrated the analyzer and returned it to service, but shortly after the analyzer reading went to zero.	calibration, it continued to operate normally.					
8/6/20	14:00	15:00	1	SO ₂ and O ₂ Cylinder Gas Audits.	N/A					
TOTAL			22							

¹In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: SO₂

Applicable NSPS Subpart: __Ja_

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: ABB AO2000 Uras 26(SO2)/ Magnos 206 (O2)

Date of Latest CMS Certification or Audit: CGA on 9/2/20

Process Unit(s) Description: #3 SRU Incinerator (EPN 5-00, EQT 0079)

	Ja EXCESS EMISSIONS									
Date	Start	End	Duration (hours)	Max 12- HRA (ppm)	Cause	Corrective Action				
None.										
TOTAL			0							

	Ja CMS PERFORMANCE ¹										
Date	Start	End	Duration (hours)	Cause	Corrective Action						
9/2/10	10:00	11:00	1	SO ₂ and O ₂ Cylinder Gas Audits.	N/A						
TOTAL	-	_	1								

¹In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: H2S

Applicable NSPS Subpart: __Ja__

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average and 60 ppm on a 365 day rolling

average

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: <u>CGA on 7/31/20</u>

Process Unit(s) Description: <u>Area 2 Fuel Drum for: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127); NHT Charge Heater</u> (EPN 1-17, EOT 0159)

Total source operating time in reporting period: <u>EQT 0127-2,156 hours</u>; <u>EQT 0159-2,208 hours</u>

	Ja EXCESS EMISSIONS – Both EQT's									
Date	Start	End	Duration (hours)	Max 3- HRA (ppm)	Cause	Corrective Action				
None										
TOTAL		_	0	-						

Ja CMS PERFORMANCE ¹ – Both EQT's									
Date	Start	End	Duration (hours)	Cause	Corrective Action				
None									
TOTAL			0						

¹In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: NO_x

Applicable NSPS Subpart: __Ja__

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O₂ shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NOx)/(O₂)

Date of Latest CMS Certification or Audit: CGA on 7/24/20

Process Unit(s) Description: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

	Ja EXCESS EMISSIONS										
Date	Start	End	Duration (hours)	Max 30- DRA (ppm)	Cause	Corrective Action					
None.											
TOTAL			0								

	Ja CMS PERFORMANCE ¹										
Date	Start	End	Duration (hours)	Cause	Corrective Action						
7/15/20	13:00	15:00	2	Offline for annual preventative maintenance by manufacturer	Calibrated and returned to service.						
7/16/20	08:00	10:00	2	representative. Sample probe rebuilt.	Cambrated and returned to service.						
7/22/20	13:00	14:00	1	Adjusted for calibration drift.	Calibrated and returned to service.						
7/24/20	10:00	11:00	1	NOx and O ₂ Cylinder Gas Audits.	N/A						
7/29/20	11:00	12:00	1	Adjusted for calibration drift.	Calibrated and returned to service.						
8/4/20	09:00	11:00	2	Offline for manufacturer representative to adjust sample probe due to higher than normal calibration drift after annual preventative maintenance.	Calibrated and returned to service.						
TOTAL			9								

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: NO_x

Applicable NSPS Subpart: __Ja__

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O₂ shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: ABB Limas11(NOx), Magnos27 (O2)

Date of Latest CMS Certification or Audit: CGA on 8/31/20

Process Unit(s) Description: NHT Charge Heater (EPN 1-17, EQT 0159)

	Ja EXCESS EMISSIONS										
Date	Start	End	Duration (hours)	Max 30- DRA (ppm)	Cause	Corrective Action					
None.											
TOTAL			0								

	Ja CMS PERFORMANCE ¹										
Date	Start	End	Duration (hours)	Cause Corrective Action							
8/31/20	14:00	15:00	1	NOx and O ₂ Cylinder Gas Audits.	N/A						
TOTAL			1								

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: H_2S

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 5100

Date of Latest CMS Certification or Audit: CGA on 8/4/20

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

	Ja EXCESS EMISSIONS									
Date	Start	End	Duration (hours)	Max 3- HRA (ppm)	Cause	Corrective Action				
None.										
TOTAL			0							

	Ja CMS PERFORMANCE ²									
Date	Start	End	Duration	Cause	Corrective					
Bute		Liid	(hours)		Action					
7/31/20	11:00	14:00	3	While connecting pressurized gas cylinders to the analyzer to perform a Cylinder Gas Audit, the analyzer malfunctioned.	Troubleshooting determined that the sample system pressure control had been disrupted and forced the analyzer into a fault condition. Valero calibrated the analyzer and returned it to service. The Cylinder Gas Audit was rescheduled.					
TOTAL			3							

¹Due to the physical arrangement of the headers supplying the North Flare Stack (EPN 20-72, EQT 0035), two analyzers are required to measure H₂S concentration of the gas combusted in the North Flare. Conservatively, excess emission on either of these analyzers will be considered excess emissions at the North Flare. However, the CEMS performance will be tracked separately.

²In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: H₂S

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 5100

Date of Latest CMS Certification or Audit: CGA on 7/31/20

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

	Ja EXCESS EMISSIONS									
Date	Corrective Action									
None.										
TOTAL			0							

	Ja CMS PERFORMANCE ²								
Date	Start	End	Duration (hours)	Cause	Corrective Action				
None.									
TOTAL			0						

¹Due to the physical arrangement of the headers supplying the North Flare Stack (EPN 20-72, EQT 0035), two analyzers are required to measure H₂S concentration of the gas combusted in the North Flare. Conservatively, excess emission on either of these analyzers will be considered excess emissions at the North Flare. However, the CEMS performance will be tracked separately.

² In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: H₂S

Applicable NSPS Subpart: <u>Ja</u>

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 5100

Date of Latest CMS Certification or Audit: CGA on 8/4/20

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

	Ja EXCESS EMISSIONS									
Date	Start	End	Duration (hours)	Max 3- HRA (ppm)	Cause	Corrective Action				
None.										
TOTAL			0							

	Ja CMS PERFORMANCE ²								
Date	Start	End	Duration (hours)	Cause	Corrective Action				
None.									
TOTAL			0						

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: Total Sulfur

Applicable NSPS Subpart: <u>Ja</u> (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 7/22/20

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

	Ja CMS PERFORMANCE ¹								
Date	Start	End	Duration (hours)	Cause	Corrective Action				
None.									
TOTAL			0						

In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: Total Sulfur

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 7/22/20

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

Ja CMS PERFORMANCE ¹								
Date	Start	End	Duration (hours)	Cause	Corrective Action			
9/1/20	02:00	21:00	19	Analyzer offline due to a cracked valve actuator on the sample injection valve.	Actuator replaced. Calibrated and returned to service.			
9/21/20	11:00	12:00	1	Adjusted for calibration drift.	N/A			
TOTAL	_		20					

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: Total Sulfur

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 7/22/20

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

	Ja CMS PERFORMANCE ¹					
Date	Start	End	Duration (hours)	Cause	Corrective Action	
8/4/20	14:00	17:00	3	Analyzer offline to troubleshoot failure to perform automatic daily calibration check at the normal time. Cause determined to be plugage in the sample return line.	Sample return line blown clear. Calibrated and returned to service.	
TOTAL			3			

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: Flow

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: GE Panametrics GF 868

Date of Latest CMS Certification or Audit: N/A

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

	Ja CMS PERFORMANCE ¹						
Date	Start	End	Duration (hours)	Cause	Corrective Action		
9/4/20	11:00	12:00	1	Annual preventative maintenance.	N/A		
TOTAL			1				

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: Flow

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: GE Panametrics GF 868

Date of Latest CMS Certification or Audit: N/A

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

	Ja CMS PERFORMANCE ¹						
Date	Start	End	Duration (hours)	Cause	Corrective Action		
9/4/20	11:00	12:00	1	Annual preventative maintenance.	N/A		
TOTAL			1				

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

(per 40 CFR 60.7(c) and 60.108a(d))

Pollutant: Flow

Applicable NSPS Subpart: <u>Ja</u> (Also Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: GE Panametrics GF 868

Date of Latest CMS Certification or Audit: N/A

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

	Ja CMS PERFORMANCE ¹						
Date	Start	End	Duration (hours)	Cause	Corrective Action		
9/2/20	18:00	19:00	1	Annual preventative maintenance.	N/A		
TOTAL			1				

¹ In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

Pollutant: SO ₂				
Applicable NSPS Subpart: <u>Ja</u>				
Reporting period dates: From 7/1/20 to 9	9/30/20			
Date submitted: 10/30/20				
Company: Valero Refining - Meraux LLC	ı •			
Address: 2500 East St. Bernard Highway,	Meraux, LA 70075			
Emission Limitation: SO ₂ corrected to 0%	O ₂ shall not exceed 2	250 ppm on a 12-ho	our rolling average.	<u></u>
Monitor Manufacturer and Model No.: Br	imstone SGX-231(SO	2)/Rosemount Oxy	mitter 4000(O ₂)	
Source unit: #2 SRU Incinerator (EPN 1-	·93, EQT 0019)			
CEM Sampling Location: #2 SRU Incine	erator (#1-93)			
CEM Span Value: Sulfur Dioxide 500 pp.	m; Oxygen 25%			
Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value CEM Response Value Accuracy Standard	SO ₂ #1 (<u>low scale</u>) 8/6/20 SG9150051BAL 5/27/16 EPA Protocol 1 124.9 ppmv 121.7 ppmv 2.6% <15%	SO ₂ #2 (high scale) 8/6/20 CC125741 5/27/16 EPA Protocol 1 274.5 ppmv 248.7 ppmv 9.4% <15%	O ₂ #1 (low scale) 8/6/20 CC483689 5/23/16 EPA Protocol 1 5.99 vol % 6.17 vol % 3.0% <15%	O ₂ #2 (high scale) 8/6/20 SG9152263BAL 5/23/16 EPA Protocol 1 10.05 vol % 9.87 vol % 1.8% <15%
II. CALIBRATION DRIFT ASSESSME A. Out of Control Periods: 1. Dates: N/A 2. Number of Days N/A B. Corrective Actions: N/A	<u>A</u>			

DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: SO ₂	,
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Applicable NSPS Subpart: __Ja_

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: ABB AO2000 Uras 26(SO2)/ Magnos 206 (O2)

Source unit: #3 SRU Incinerator (EPN 5-00, EQT 0079)

CEM Sampling Location: #3 SRU Incinerator (#5-00)
CEM Span Value: Sulfur Dioxide 500 ppm; Oxygen 25%

I. ACCURACY ASSESSMENT RESULTS (CGA):

	SO ₂ #1	SO ₂ #2	O ₂ #1	$O_2 \# 2$
	(low scale)	(high scale)	(low scale)	(high scale)
Date of Audit	9/2/20	9/2/20	9/2/20	9/2/20
Audit Gas Cylinder No.	XC022957B	CC94008	CC483694	EB0063979
Date of Audit Gas Cert.	5/27/16	5/27/16	5/23/16	5/23/16
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	125.3 ppmv	275.3 ppmv	5.99 vol %	9.98 vol %
CEM Response Value	124.2 ppmv	277.3 ppmv	5.95 vol %	9.99 vol %
Accuracy	0.9%	0.7%	0.7%	0.1%
Standard	<15%	<15%	<15%	<15%

II. CALIBRATION DRIFT ASSESSMENT

	_	_			
Λ.	()	~ f	Contro	sl Da	mioda.
A		()1	· OHIT	11 PP	THOUSE.

- 1. Dates: <u>N/A</u>
- 2. Number of Days N/A
- B. Corrective Actions: N/A

Pollutant: H ₂ S						
Applicable NSPS Subpart:J	_					
reporting period dates: From <u>7/1/20</u> to <u>9/30/20</u>						
Pate submitted: 10/30/20_						
Company: Valero Refining - Meraux LLC						
Address: 2500 East St. Bernard Highway, Meraux, LA 70075						
Emission Limitation: <u>Hydrog</u>	Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.					
Monitor Manufacturer and Mo	del No.: Ametek 4661					
Source Unit: Area 1 Fuel Dru	m for Boiler TB-01 (EPN 1-06, EC	QT 0010); Boiler B	8-7 (EPN 1-07, EQT 0011); MDH Product and			
Fractionator Heaters (EPN 2-9	2, EQT 0033); DHT Charge Heate	r (EPN 5-73, EQT	0058)			
CEM Sampling Location: Are	CEM Sampling Location: Area 1 Fuel Drum					
CEM Span Value: <u>Hydrogen</u>	Sulfide, 300 ppm					
I. ACCURACY ASSESSM	Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv) CEM Response Value (ppmv) Accuracy Standard	H ₂ S #1 (<u>low scale</u>) 7/28/20 LL41203 9/24/19 EPA Protocol 1 75.6 72.3 4.4% <15%	H ₂ S #2 (high scale) 7/28/20 BLM001397 9/24/19 EPA Protocol 1 163.7 156.7 4.3% <15%			
II. CALIBRATION DRIFT A	ASSESSMENT					
A. Out of Control Pe	eriods:					
 Dates: Number of E Corrective Action 	N/A					

Pollutant: H ₂ S			
Applicable NSPS Subpart:	J and Ja (Benzene Recovery Un	it Reboiler Subject	t to Ja)
Reporting period dates: Fro	•	v	
Date submitted: 10/30/20			
Company: Valero Refining	g - Meraux LLC		
	rnard Highway, Meraux, LA 70075		
Emission Limitation: Hy	drogen Sulfide shall not exceed 162	ppm on a 3-hour r	rolling average(J and Ja) and 60 ppm on a 365 day
rolling average (Ja only)	-		
Monitor Manufacturer and	Model No.: Ametek 4661		
Heater (EPN 1-76, EQT 00 EQT 0029); NHT Charge H	13); Platformer Charge Heater (EPN 1 Heater (EPN 14-72, EQT 0023); NHT	17-72 a,b,c , EQT (Debut Reboiler (E	ROSE Heater (EPN 1-80, EQT 0014); Vacuum 0028); Platformer Debut Reboiler (EPN 19-72, PA 15-72, EQT 0024); NHT Depent Reboiler NHT Charge Heater (EPN 1-17, EQT 0159)
CEM Sampling Location:_	Area 2 Fuel Drum		
CEM Span Value: Hydrog	gen Sulfide, 300 ppm		
I. ACCURACY ASSESS	Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv) CEM Response Value (ppmv) Accuracy Standard	H ₂ S #1 (<u>low scale</u>) 7/31/20 CC58723 9/18/19 EPA Protocol 1 77.1 79.2 2.7% <15%	H ₂ S #2 (high scale) 7/31/20 APL001013 9/18/19 EPA Protocol 1 177.6 180.1 1.4% <15%
II. CALIBRATION DRIF	T ASSESSMENT		
A. Out of Contro	l Periods:		
1. Dates:	N/A		
2. Number of	of Days N/A		
R Corrective Ac	etions: N/A		

Pollutant: H	$_{2}S$					
Applicable N	Applicable NSPS Subpart:J					
Reporting pe	Reporting period dates: From <u>7/1/20</u> to <u>9/30/20</u>					
Date submitt	Date submitted: 10/30/20					
Company: V	Company: Valero Refining - Meraux LLC					
Address: 25	Address: 2500 East St. Bernard Highway, Meraux, LA 70075					
Emission Lin	nitation: <u>Hydroger</u>	n Sulfide shall not exceed 162 pp	m on a 3-hour roll	ing average.		
Monitor Mar	nufacturer and Mode	el No.: <u>Ametek 4661</u>				
Process Unit	(s) Description: Ar	ea 4 Fuel Drum for Merox Disul	fide Separator to P	latformer Charge Heater		
CEM Sampli	ing Location: Area	4 Fuel Drum				
CEM Span V	alue: <u>Hydrogen Su</u>	ılfide, 300 ppm_				
I. ACCUR	ACY ASSESSMEN	TT RESULTS (CGA):				
		Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv) CEM Response Value (ppmv) Accuracy Standard	H ₂ S #1 (<u>low scale</u>) 7/30/20 XL000609B 9/24/19 EPA Protocol 1 75.6 70.7 6.5% <15%	H ₂ S #2 (high scale) 7/30/20 LL62684 9/24/19 EPA Protocol 1 165.5 159.3 3.7% <15%		
II. CALIBI	RATION DRIFT AS	SESSMENT				
A.	Out of Control Peri	ods:				
	1. Dates:	N/A				
	2. Number of Day	ys <u>N/A</u>				
B.	Corrective Actions:	N/A				

Pollutant: H_2S

Applicable N	ISPS Subpart:J_						
Reporting pe	riod dates: From <u>7</u>	/ <u>1/20_to_9/30/20_</u>					
Date submitte	ed: 10/30/20						
Company: V	Valero Refining - Me	eraux LLC					
Address: 25	500 East St. Bernard	Highway, Meraux, LA 70075					
Emission Lir	nitation: <u>Hydroger</u>	n Sulfide shall not exceed 162 pp	om on a 3-hour roll	ing average.			
Monitor Mar	Ionitor Manufacturer and Model No.: Ametek 4661						
Process Unit	rocess Unit(s) Description: Area 6 Fuel Drum for Hydrocracker & Hydrotreater Charge Heaters (EPN 1-00, EQT 0009)						
CEM Sampli	ing Location: Area	6 Fuel Drum					
CEM Span V	⁷ alue: <u>Hydrogen St</u>	ılfide, 300 ppm					
I. ACCUR	ACY ASSESSMEN	Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv)	H ₂ S #1 (low scale) 7/28/20 BLM001939 9/24/19 EPA Protocol 1 75.3	H ₂ S #2 (high scale) 7/28/20 LL71653 9/24/19 EPA Protocol 1 165.9			
		CEM Response Value (ppmv)	76.0 0.9%	167.3			
		Accuracy Standard	<15%	0.8% <15%			
II. CALIBF	RATION DRIFT AS	SESSMENT					
A.	Out of Control Peri	ods:					
	1. Dates:	N/A					
	2. Number of Day	ys <u>N/A</u>					
B.	Corrective Actions:	N/A					
	-						

Pollutant: H ₂ S					
Applicable NSPS Subpart:J					
Reporting period dates: From	1/20 to 9/30/20				
Date submitted: 10/30/20					
Company: Valero Refining - Mer	aux LLC				
Address: 2500 East St. Bernard H	Highway, Meraux, LA 70075				
Emission Limitation: <u>Hydrogen</u>	Sulfide shall not exceed 162 pp	m on a 3-hour roll	ing average.		
Monitor Manufacturer and Model	No.: Ametek 4661				
Process Unit(s) Description: Are	ea 6 Fuel Drum for Boilers B-5 (EPN 2-00, EQT 00	030) and B-6 (EPN 3-00, EQT 0048)		
CEM Sampling Location: Area 6	Fuel Drum				
CEM Span Value: <u>Hydrogen Sul</u>	lfide, 300 ppm				
	Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv) CEM Response Value (ppmv)	H ₂ S #1 (<u>low scale</u>) 8/6/20 ALM040395 9/18/19 EPA Protocol 1 75.0 70.3 6.3%	H ₂ S #2 (high scale) 8/6/20 ALM040542 9/18/19 EPA Protocol 1 175.7 171.3 2.5%		
	Accuracy Standard	<15%	<15%		
II. CALIBRATION DRIFT ASSESSMENT					
A. Out of Control Periods:					
1. Dates: <u>N/A</u>					
2. Number of Days <u>N/A</u>					
B. Corrective Actions:	N/A				

Pollutant: N	$\mathbf{O}_{\mathbf{x}}$				
Applicable N	ISPS Subpart:				
Reporting pe	eriod dates: From <u>7/1/20</u> to <u>9/30</u>	/20_			
Date submitt	ed: 10/30/20				
Company: V	Valero Refining - Meraux LLC				
Address: 25	00 East St. Bernard Highway, Me	raux, LA 70075			
Emission Lir	mitation: Nitrogen Oxide shall n	ot exceed 0.1 poun	d/MMBtu on a 30-c	day rolling average.	<u></u>
Monitor Mar	nufacturer and Model No.: ABB	Limas11(NO _x), M	$agnos27 (O_2)$		
Process Unit	(s) Description: Boiler B-5 (EPI	N 2-00, EQT 0030)	<u></u>		
CEM Sampli	ing Location: Boiler B-5				
CEM Span V	Value: Nitrogen Oxide 100 ppm,	Oxygen 25 %			
I. ACCUR	ACY ASSESSMENT RESULTS	(CGA):			
	Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value CEM Response Value Accuracy Standard	NO _x #1 (<u>low scale</u>) 8/11/20 LL67453 5/1/19 EPA Protocol 1 25.0 ppmv 27.9 ppmv 11.6% <15%	NO _x #2 (high scale) 8/11/20 LL64747 5/3/16 EPA Protocol 1 54.5 ppmv 55.8 ppmv 2.4% <15%	O ₂ #1 (<u>low scale</u>) 8/11/20 CC483685 5/23/16 EPA Protocol 1 6.00 vol % 6.00 vol % 0.0% <15%	O ₂ #2 (high scale) 8/11/20 LL167062 1/28/14 EPA Protocol 1 10.01 vol % 10.00 vol % 0.1% <15%
II. CALIBI	RATION DRIFT ASSESSMENT				
A.	Out of Control Periods:				
	1. Dates: <u>N/A</u>				
	2. Number of Days <u>N/A</u>				
R	Corrective Actions: N/A				

DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: NO_x

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB Limas11 (NO_x), Magnos27 (O₂)

Process Unit(s) Description: Boiler B-6 (EPN 3-00, EQT 0048)

CEM Sampling Location: Boiler B-6

CEM Span Value: Nitrogen Oxide 100 ppm, Oxygen 25 %

I. ACCURACY ASSESSMENT RESULTS (CGA):

	NO _x #1	NO _x #2	O ₂ #1	$O_2 \# 2$
	(low scale)	(high scale)	(low scale)	(high scale)
Date of Audit	8/11/20	8/11/20	8/11/20	8/11/20
Audit Gas Cylinder No.	LL67453	LL64747	CC483685	LL167062
Date of Audit Gas Cert.	5/1/19	5/3/16	5/23/16	1/28/14
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	25.0 ppmv	54.5 ppmv	6.00 vol %	10.01 vol %
CEM Response Value	27.7 ppmv	55.0 ppmv	6.00 vol %	10.00 vol %
Accuracy	10.8%	0.9%	0.0%	0.1%
Standard	<15%	<15%	<15%	<15%

II. CALIBRATION DRIFT ASSESSMENT

A.	Out of Control Periods:
----	-------------------------

- 1. Dates: <u>N/A</u>
- 2. Number of Days N/A
- B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: Thermo Environmental Model 42i (NO_x)/(O₂)

Process Unit(s) Description: Boiler TB-01 (EPN 1-06, EQT 0010)

CEM Sampling Location: Boiler TB-01

CEM Span Value: Nitrogen Oxide 500 ppm, Oxygen 25 %

I. ACCURACY ASSESSMENT RESULTS (CGA):

	NO _x #1	NO _x #2	O ₂ #1	$O_2 \# 2$
	(low scale)	(high scale)	(low scale)	(high scale)
Date of Audit	8/11/20	8/11/20	8/11/20	8/11/20
Audit Gas Cylinder No.	SG9167966	CC89303	LL269	LL168197
Date of Audit Gas Cert.	5/31/16	5/31/16	4/26/16	4/25/16
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	126.9 ppmv	270.5 ppmv	6.03 vol %	10.10 vol %
CEM Response Value	130.5 ppmv	274.3 ppmv	5.60 vol %	9.57 vol %
Accuracy	2.8%	1.4%	7.1%	5.2%
Standard	<15%	<15%	<15%	<15%

II. CALIBRATION DRIFT ASSESSMENT

	_		~	
Λ	()nnt	at i	Contro	l Periods:
л.	C)ui	()I	COHILO	i i ciious.

- 1. Dates: <u>N/A</u>
- 2. Number of Days N/A
- B. Corrective Actions: N/A

Pollutant: NO_x

Applicable N	Applicable NSPS Subpart: <u>Ja</u>					
Reporting pe	eriod dates: From <u>7/1/20</u> to <u>9/30</u>	0/20_				
Date submitt	ted: 10/30/20_					
Company: <u> </u>	Valero Refining - Meraux LLC					
Address: 25	500 East St. Bernard Highway, Me	eraux, LA 70075				
Emission Lii	mitation: Nitrogen Oxide correc	cted to 0% O ₂ shall	not exceed 40 ppm	on a 30-day rolling	average	
Monitor Ma	nufacturer and Model No.: Theri	mo Environmental 1	Model 42i (NO _x)/(0	O_2)		
	c(s) Description: Benzene Recove		_			
	ing Location: Benzene Recovery	-	,			
_	Value: Nitrogen Oxide 100 ppm,					
CLIVI Spair V	value. Tvialogen Oxide 100 ppin,	Oxygen 25 70				
I ACCIII						
I. ACCUR	RACY ASSESSMENT RESULTS	S (CGA):				
	CGA Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value CEM Response Value Accuracy Standard	NO _x #1 (low scale) 7/24/20 LL67453 5/1/19 EPA Protocol 1 25.2 ppmv 27.0 ppmv 7.1% <15%	NO _x #2 (high scale) 7/24/20 CC307733 6/2/16 EPA Protocol 1 55.8 ppmv 56.0 ppmv 0.4% <15%	O ₂ #1 (low scale) 7/24/20 CC483658 5/23/16 EPA Protocol 1 5.96 vol % 5.70 vol % 4.4% <15%	O ₂ #2 (high scale) 7/24/20 CC87078 5/23/16 EPA Protocol 1 9.94 vol % 9.70 vol % 2.4% <15%	
II. CALIBI	RATION DRIFT ASSESSMENT					
A. Out of Control Periods:						
1. Dates: <u>N/A</u>						
	2. Number of Days N/A	-				
B.	Corrective Actions: N/A					

Pollutant: NO _x				
Applicable NSPS Subpart: <u>Ja</u>				
Reporting period dates: From 7/1/20 to 9/	<u>′30/20</u>			
Date submitted: 10/30/20				
Company: Valero Refining - Meraux LLC				
Address: 2500 East St. Bernard Highway, N				
Emission Limitation: Nitrogen Oxide corr		not exceed 40 ppm	on a 30-day rolling	g average
Monitor Manufacturer and Model No.: AB	_			<u>,</u>
Process Unit(s) Description: NHT Charge I	_			
· · · · · · · · · · · · · · · · · · ·		Q1 U137)		
CEM Sampling Location: NHT Charge Hea				
CEM Span Value: <u>Nitrogen Oxide 100 ppr</u>	n, Oxygen 25 %			
. ACCURACY ASSESSMENT RESULT	ΓS (CGA):			
CGA Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value CEM Response Value Accuracy	NO _x #1 (low scale) 8/31/20 BLM000328 10/4/19 EPA Protocol 1 25.2 ppmv 24.4 ppmv 3.3%	NO _x #2 (high scale) 8/31/20 CC416948 6/2/16 EPA Protocol 1 55.5 ppmv 53.6 ppmv 3.4%	O ₂ #1 (<u>low scale</u>) 8/31/20 CC483649 5/23/16 EPA Protocol 1 6.00 vol % 6.31 vol % 5.2%	O ₂ #2 (high scale) 8/31/20 CC148318 5/23/16 EPA Protocol 1 9.99 vol % 10.30 vol % 3.1%
Standard	<15%	<15%	<15%	<15%
II. CALIBRATION DRIFT ASSESSMEN	ΙΤ			
A. Out of Control Periods:				
1. Dates: N/A	_			
2. Number of Days N/A	_			
P. Corrective Actions: N/A				

DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: NO_x

Applicable NSPS Subpart: N/A (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 36.a)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: ABB Limas11 (NO_x), Magnos27 (O₂)

Process Unit(s) Description: No.1 Crude Heater (EPN 12-72A, EQT 0022)

CEM Sampling Location: No.1 Crude Heater

CEM Span Value: Nitrogen Oxide 100 ppm, Oxygen 25 %

I. ACCURACY ASSESSMENT RESULTS (CGA):

	$NO_x #1$	$NO_x #2$	$O_2 #1$	$O_2 \# 2$
<u>CGA</u>	(low scale)	(high scale)	(low scale)	(high scale)
Date of Audit	8/7/20	8/7/20	8/7/20	8/7/20
Audit Gas Cylinder No.	BLM000328	CC319153	CC483638	CC222165
Date of Audit Gas Cert.	10/4/19	6/2/16	5/23/16	5/23/16
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	25.2 ppmv	55.4 ppmv	5.99 vol %	9.96 vol %
CEM Response Value	26.1 ppmv	58.9 ppmv	6.00 vol %	9.93 vol %
Accuracy	3.6%	6.2%	0.1%	0.3%
Standard	<15%	<15%	<15%	<15%

II. CALIBRATION DRIFT ASSESSMENT

A.	Out of	Control	Periods:

- 1. Dates: <u>N/A</u>
- 2. Number of Days N/A
- B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Applicable NSPS Subpart: N/A (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 36.a)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: ABB Limas11 (NO_x), Magnos27 (O₂)

Process Unit(s) Description: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033)

CEM Sampling Location: MDH Product and Fractionator Heaters

CEM Span Value: Nitrogen Oxide 100 ppm, Oxygen 25 %

I. ACCURACY ASSESSMENT RESULTS (CGA):

	NO _x #1	NO _x #2	O ₂ #1	$O_2 \# 2$
<u>CGA</u>	(low scale)	(high scale)	(low scale)	(high scale)
Date of Audit	9/1/20	9/1/20	9/1/20	9/1/20
Audit Gas Cylinder No.	BLM000328	BLM002251	LL100497	LL67009
Date of Audit Gas Cert.	10/4/19	5/6/19	4/22/19	4/22/19
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	25.2 ppmv	55.0 ppmv	6.02 vol %	10.03 vol %
CEM Response Value	25.1 ppmv	53.0 ppmv	6.09 vol %	10.04 vol %
Accuracy	0.5%	3.7%	1.2%	0.1%
Standard	<15%	<15%	<15%	<15%

II. CALIBRATION DRIFT ASSESSMENT

	0 4		~	I D	
Α.	CHIL	α	OHHTO.	l Period:	٠.

- 1. Dates: <u>N/A</u>
- 2. Number of Days N/A
- B. Corrective Actions: N/A

Pollutant: 1	H_2S				
Applicable	NSPS Subpart: <u>Ja</u>	<u> </u>			
Reporting p	period dates: From <u>7</u>	7/1/20 to 9/30/20			
Date submi	tted: 10/30/20				
Company:_	Valero Refining - M	eraux LLC			
Address: 2	500 East St. Bernard	Highway, Meraux, LA 70075	_		
Emission L	imitation: <u>Hydroge</u>	n Sulfide shall not exceed 162	ppm on a 3-hour roll	ling average.	
Monitor Ma	anufacturer and Mode	el No.: Ametek 5100			
Process Uni	it(s) Description: Not	rth Flare Stack (EPN 20-72, E	QT 0035), North Fla	re Header_	
CEM Samp	oling Location: North	n Flare Stack, North Flare Head	der (Y-AT-801)		
CEM Span	Value: <u>Hydrogen S</u>	ulfide, 300 ppm			
		Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value CEM Response Value Accuracy	H ₂ S #1 (low scale) 8/4/20 CC416499 12/10/19 Certified Gas ¹ 79.5 ppmv 82.0 ppmv 3.1%	H ₂ S #2 (high scale) 8/4/20 XC012872B 12/16/19 Certified Gas ¹ 172.7 ppmv 172.0 ppmv 0.4%	
		Standard	<15%	<15%	
II. CALIB	BRATION DRIFT AS		tified gases for the M	ethane balanced audit gas	required by this analyzer.
A.	Out of Control I Ci				
	1. Dates:	<u>N/A</u>			
	2. Number of Da	ys N/A			
В.	Corrective Actions	:: N/A			
D.		- 1 W 4 4			

Pollutant: H_2S

Applicable N	NSPS Subpart: <u>Ja</u>	_		
Reporting pe	eriod dates: From 7/1	<u>/20</u> to <u>9/30/20</u>		
Date submit	ted: 10/30/20			
Company: V	Valero Refining - Mer	aux LLC_		
Address: 25	600 East St. Bernard H	lighway, Meraux, LA 70075		
Emission Li	mitation: <u>Hydrogen</u>	Sulfide shall not exceed 162 ppn	n on a 3-hour rol	ling average.
Monitor Ma	nufacturer and Model	No.: Ametek 5100		
Process Unit	t(s) Description: North	Flare Stack (EPN 20-72, EQT	0035), Hydrocrae	cker Flare Header
CEM Sampl	ing Location: North I	Flare Stack, Hydrocracker Flare	Header (Y-AT-8	800)
CEM Span V	Value: <u>Hydrogen Sul</u>	fide, 300 ppm		
I. ACCUR	RACY ASSESSMENT	Γ RESULTS (CGA):		
	¹ Valero unable t	Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv) CEM Response Value (ppmv) Accuracy Standard	H ₂ S #1 (low scale) 7/31/20 CC416499 12/10/19 Certified Gas ¹ 79.5 ppmv 77.3 ppmv 2.8% <15% d gases for the M	H ₂ S #2 (high scale) 7/31/20 XC012872B 12/16/19 Certified Gas ¹ 172.7 ppmv 172.3 ppmv 0.2% <15% ethane balanced audit gas required by this analyzer
II. CALIB	RATION DRIFT ASS	ESSMENT		
A.	Out of Control Perio	ds:		
	1. Dates:	<u>N/A</u>		
	2. Number of Days	s N/A		
В.	Corrective Actions:	N/A		

Pollutant: H ₂ S			
Applicable NSPS Subpart:Ja			
Reporting period dates: From 7/1/2	20 to 9/30/20		
Date submitted: 10/30/20			
Company: Valero Refining - Merai	ux LLC		
Address: 2500 East St. Bernard High	ghway, Meraux, LA 70075	_	
Emission Limitation: <u>Hydrogen S</u>	ulfide shall not exceed 162 j	ppm on a 3-hour	rolling average.
Monitor Manufacturer and Model N	Vo.: Ametek 5100		
Process Unit(s) Description: South	Flare Stack (EPN 3-77, EQ	OT 0049)	
CEM Sampling Location: South Fl	are Stack (Y-AT-802)		
CEM Span Value: Hydrogen Sulfi	de, 300 ppm		
I. ACCURACY ASSESSMENT	RESULTS (CGA):		
	,		
		H ₂ S #1 (low scale)	H ₂ S #2 (high scale)
	Date of Audit	8/4/20	8/4/20
	Audit Gas Cylinder No.	CC416499	XC012872B
	Date of Audit Gas Cert.	12/10/19	12/16/19
	Type of Certification	Certified Gas ¹	Certified Gas ¹
	Certified Audit Value	79.5 ppmv	172.7 ppmv
	CEM Response Value	77.0 ppmv	167.7 ppmv
	Accuracy	3.1%	2.9%
	Standard	<15%	<15%
¹ Valero unable to	obtain EPA Protocol 1 certi	ified gases for the	Methane balanced audit gas required by this analyzer.
II. CALIBRATION DRIFT ASSE	ESSMENT		
A. Out of Control Period	s:		
1. Dates:	<u>N/A</u>		
2. Number of Days	N/A		
B. Corrective Actions:	N/A		

Pollutant: Total Sulfur		
Applicable NSPS Subpart:(Required by Consent Decre	ee: 3:10-cv-00563-l	bbc, Paragraph 49.a.ii)
Reporting period dates: From 7/1/20 to 9/30/20		
Date submitted: <u>10/30/20</u>		
Company: Valero Refining - Meraux LLC		
Address: 2500 East St. Bernard Highway, Meraux, LA 70075	_	
Emission Limitation: None		
Monitor Manufacturer and Model No.: Thermo Scientific SOL	A II	
Process Unit(s) Description: North Flare Stack (EPN 20-72, E0	QT 0035), North Fl	are Header_
CEM Sampling Location: North Flare Stack, North Flare Head	ler (Y-AT-303)	
CEM Span Value: Total Sulfur, Dual Range: 0-10,000 ppm, 1	0,000-1,000,000 pr	<u>om</u> _
I. ACCURACY ASSESSMENT RESULTS (CGA):		
Date of Audit Audit Gas Cylinder No. Date of Audit Gas Cert. Type of Certification Certified Audit Value (ppmv) CEM Response Value (ppmv) Accuracy Standard 1 Valero unable to obtain EPA Protocol 1 cert	H ₂ S #1 (low scale) 7/22/20 CC305316 5/27/16 EPA Protocol 1 1013.0 ppmv 1026.0 ppmv 1.3% <15%	H ₂ S #2 (high scale) 7/22/20 CC506391 1/3/20 Primary Standard1 10070.0 ppmv 10054.0 ppmv 0.2% <15% than 1000 ppm.
II. CALIBRATION DRIFT ASSESSMENT		
A. Out of Control Periods:		
1. Dates: <u>N/A</u>		
2. Number of Days <u>N/A</u>		
B. Corrective Actions: N/A		

(per 40 CFR 60, Appendix F, Section 7)

obc, Paragraph 49.a.ii)
acker Flare Header
-302)
<u>om_</u>
H ₂ S #2 (high scale) 7/22/20 CC506391 1/3/20 Primary Standard1 10070.0 ppmv 9985.7 ppmv
0.8% <15%
than 1000 ppm.

Pollutant:	Total Sulfur
------------	---------------------

Applicable NSPS Subpart: <u>Ja</u> (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 7/1/20 to 9/30/20

Date submitted: 10/30/20

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

CEM Sampling Location: South Flare Stack (Y-AT-304)

CEM Span Value: Total Sulfur, Dual Range: 0-10,000 ppm, 10,000-1,000,000 ppm

I. ACCURACY ASSESSMENT RESULTS (CGA):

	H_2S #1	H ₂ S #2
	(low scale)	(high scale)
Date of Audit	7/22/20	7/22/20
Audit Gas Cylinder No.	CC305316	CC506391
Date of Audit Gas Cert.	5/27/16	1/3/20
Type of Certification	EPA Protocol 1	Primary Standard1
Certified Audit Value	1013.0 ppmv	10070.0 ppmv
CEM Response Value	1034.7 ppmv	10241.3 ppmv
Accuracy	2.1%	1.7%
Standard	<15%	<15%

¹ Valero unable to obtain EPA Protocol 1 certified gases greater than 1000 ppm.

II. CALIBRATION DRIFT ASSESSMENT

A. Out of Control Periods:	
----------------------------	--

1. Dates: <u>N/A</u>

2. Number of Days N/A

B. Corrective Actions: N/A

Appendix A Ja Root Cause and Corrective Action Analysis

Subpart Ja Root (Cause / Corrective Action Analysis		Incident Number:	431400
The information conto	ained below satisfies the requirements of the NSPS	Subpart Ja 60.108a(c)(6).		
Report: Refinery: Incident Type: Emissions Source(s):	Update Valero (Meraux) Flaring (Flow) North Flare (EPN 20-72, EQT 0035)	Date	Date of Event: Analysis Completed:	4/9/20 5/18/20
(1.)				(60.108a(c)(6)(i))
	vischarge: pproximately 00:45, the Hydrocracker Unit experienders lero immediately shut down the unit, per written ope		ulting in a vapor relea	se and ignition,
afterwards, a vessel in elevated pressure had	If the root causes. At approximately 11:40 PM on Ap the Hydrocracker Unit began relieving to the North subsided, but the PSV had not fully reseated. A plan proved by Operations management and documented	Flare via a Pressure Safety Von was developed to briefly clo	alve (PSV). It was deten se an inlet valve at the	rmined that the PSV to reseat the
closure of the outlet vo It is not designed for the introduced by using the management was nec would result in it being	erns regarding access and egress at the targeted value of the PSV. The outlet valve is intended to isola the upstream process side of the PSV (high pressure see outlet valve were not identified or discussed. It were sary to authorize this change. A review of the new grexposed to pressure in excess of its design. When the notion of the new of the pressure in excess of its design.	te the PSV from the downstre system). When the decision w as not recognized that addition w plan would have revealed th	ram flare gas header (lo vas made to change the onal review and approv nat the closure of the o	ow pressure system). e plan, the hazards val by Operations outlet valve only
(2.)			(60.108a(c)(6)(ii))	and (60.108a(c)(6)(ix))
	Date and Time the discharge was first identified	4/9/20 23:39		
	Date/Time the discharge had ceased	4/10/20 3:58 4.3 hrs.		
		113.		
•	nit the emissions during the discharge: re Minimization Plan and Operations Procedures to	minimize the volume of this d	lischarge.	(60.108a(c)(6)(viii))
(4.)				(60.108a(c)(6)(xi))
	Determine and state whether a RC/CAA is necess was a result of a planned startup or shutdown, a RC		if the flare manageme	
Did the discharge resu	ult from a planned startup or shutdown?		No	(Yes/No)
Was the flare manage	·		Yes	(Yes/No/N/A)
_	rom a RC/CCA based on the answers above?		No	(Yes/No)
- If yes, skip section	1 5-7.			
(5.)				(60.108a(c)(6)(ix))
	Describe in detail the Root Cause(s) of the Inciden	t. to the extent determinable	e:	(55.1054(5)(6)(18))
-	ult from root causes identified in a previous analys		No No	(Yes/No)
The root cause of this	incident was the closing of the downstream block vo cy depressurization of the Hydrocracker Unit.			- ' ' '

(6.)		(60.108a	a(c)(6)(ix)
Corrective Action Analysis: Include a descrip	tion of the recommer	nded corrective action(s) or an explanation of why corrective action is	s not
Is corrective action required?	Yes	(Yes/No)	
1. Update the PSM "Critical Safety Device Disc	abling Procedure" to er	mphasize the appropriate operation of PSV inlet and outlet valves.	
2. Revise the "PSV Isolation Approval Form" to	o account for any chan	nges made to the procedure and to highlight potential hazards.	
3. Train all affected personnel on the updates	, and incorporate in Ba	asic Operator Training materials.	
(7.)		(60.108	a(c)(6)(x)
Corrective Action Schedule: Include correcti	ve actions already con	mpleted within the first 45 days following the discharge. For those no	ot
completed, provide a schedule for implemen	ntation, including prop	posed commencement and completion dates.	
1) Update the PSM "Critical Safety Device Dis	abling Procedure" to e	emphasize the appropriate operation of PSV inlet and outlet valves.	
Commencement Date: 5/18/20	-		
Estimated Completion Date: 11/30/20			
Due date extended to ensure site procedure is	consistent with new c	corporate procedure.	
2) Revise the "PSV Isolation Approval Form" t	to account for any char	nges made to the procedure and to highlight potential hazards. Timing	of this
may be affected by a company-wide effort to	update the performan	nce standard, which could affect wording on the form.	
Commencement Date: 5/18/20			
Estimated Completion Date: 11/30/20			
Due date extended to ensure site procedure is	consistent with new c	corporate procedure.	

3) Train all affected personnel on the updates, and incorporate in Basic Operator Training materials.

Commencement Date: 5/18/20 Estimated Completion Date: 11/24/20

(8.)
The measured or calculated cumulative quantity of gas discharged over the discharge duration.

Note: Measured sulfur concentrations are shown as flow-weighted averages if multiple measurement devices were used.

		(60.108a(c)(6)(iii))	(60.108a(c)(6)(iv))	(60.108a(c)(6)(vii))	(60.108a(c)(6)(vii))	
First hour of 24-hr Period	Last hour of 24-hr Period	24-hr cumulative volume of flared gas above Baseline	TRS or H2S ppm (24-hr average, flow- weighted)	24-hr cumulative SO2	24-hr cumulative reduced sulfur	
		SCF	ppmv	lbs	lbs as H2S	
4/8/20 23:00	4/9/20 22:00	54,143	15	0.6	0.0	
4/9/20 0:00	4/9/20 23:00	87,240	1864	12.2	0.1	
4/9/20 1:00	4/10/20 0:00	238,978	2588	78.8	0.4	
4/9/20 2:00	4/10/20 1:00					
4/9/20 3:00	4/10/20 2:00					
4/9/20 4:00	4/10/20 3:00					
4/9/20 5:00	4/10/20 4:00	Flore menitoring data les	t due to democre to the Di	istributed Control Custom fro	um the fire Fetimete	
4/9/20 6:00	4/10/20 5:00		•	istributed Control System fro		
4/9/20 7:00	4/10/20 6:00	- Hared gas volume is 1,0	•	SO2 and reduced sulfur emi	issions were 3000 ib:	
4/9/20 8:00	4/10/20 7:00		and 16 lbs, r	espectively.		
4/9/20 9:00	4/10/20 8:00					
4/9/20 10:00	4/10/20 9:00					
4/9/20 11:00	4/10/20 10:00					
	4/10/20 11:00	195,679	265	79.0	0.4	
4/9/20 12:00	7/10/20 11:00				0.4	

Subpart Ja Root	Cause / Corrective Action Analysis		Incident Number:	432409
The information conto	ained below satisfies the requirements of the NSPS	Subpart Ja 60.108a(c)(6).		
Report:	Update			
Refinery:	Valero (Meraux)			
Incident Type:	Flaring (Flow)		Date of Event:	5/13/20
Emissions Source(s):	North Flare (EPN 20-72, EQT 0035)	Date A	Analysis Completed:	6/18/20
	South Flare (EPN 3-77, EQT 0049)			
(1.)				(60.108a(c)(6)(i))
A description of the D	Discharge:			(00.1000(0)(0)(1))
•	pproximately 14:09, during a planned startup of the	Hydrocracker Unit a Pressure	Safety Valve (PSV) on	the Cold Senarator
	flare header. Later, at approximately 14:45, this san			
	ated maintenance activity affecting the South Flare		g te j.e.v. rate te t	e jiwie newwen in oni
	, , , , , , , , , , , , , , , , , , ,	. .		
(2.)			(60.108a(c)(6)(ii)) a	and (60.108a(c)(6)(ix))
	Date and Time the discharge was first identified	5/13/20 13:17		
	Date/Time the discharge had ceased	5/13/20 15:50		
	Duration of Discharge (Calculated)	2.5 hrs.		
/2 \				/CO 100a/a\/C\/\;;;;\\
(3.)	ata ah a anatasian a duning ah a diaghana.			(60.108a(c)(6)(viii))
-	nit the emissions during the discharge:			
Valero followed its Fla	re Minimization Plan and Operations Procedures to	minimize the volume of this di	scharge.	
(4.)				(60.108a(c)(6)(xi))
				(00.1088(C)(0)(XI))
	Determine and state whether a RC/CAA is necessary			
	was a result of a planned startup or shutdown, a RC	CAA analysis is not requirea i	j tne jiare managemei	it pian
was followed.				
Did the discharge res	ult from a planned startup or shutdown?		No	(Yes/No)
Was the flare manage			Yes	(Yes/No/N/A)
	rom a RC/CCA based on the answers above?		No	(Yes/No)
- If yes, skip section				(1.05).10)
, , . ,				
(5.)				(60.108a(c)(6)(ix))
Root Cause Analysis:	Describe in detail the Root Cause(s) of the Inciden	t, to the extent determinable	:	
	ult from root causes identified in a previous analys		No	(Yes/No)
Valero investigated th	is incident and concluded that the PSV (HC-PSV-006)	A) relieved prematurely. At the	e time of the release, t	he Cold Separator
was operating at 95%	of the PSV's Final Test Pressure (FTP). The PSV was	designed and configured to co	emply with an ASME co	de allowing a unit to
operate up to 97% of	FTP.			
(6.)				(60.108a(c)(6)(ix))
	alysis: Include a description of the recommended o		anation of why correc	tive action is not
Is corrective action re		es/No)		
1) Operate the Cold Se	eparator at a lower pressure, in the short term.			
2) Remove the PSV fro	om service and send it to a specialty shop for assessn	nent and to adjust it hack to its	s original FTP	
_,	service and serialic to a specially shop for assessin	and to dayabl it buck to it.	o o. rgiiidi i i i i	

(60.108a(c)(6)(x))

Corrective Action Schedule: Include corrective actions already completed within the first 45 days following the discharge. For those not completed, provide a schedule for implementation, including proposed commencement and completion dates.

1) Operate the Cold Separator at a lower pressure, in the short term.

Commencement Date: 6/18/20 Completed Date: 7/30/20

2) Remove the PSV from service and send it to a specialty shop for assessment and to adjust it back to its original FTP.

Commencement Date: 6/18/20
Estimated Completion Date: 10/31/21

(8.)

The measured or calculated cumulative quantity of gas discharged over the discharge duration.

Note: Measured sulfur concentrations are shown as flow-weighted averages if multiple measurement devices were used.

		(60.108a(c)(6)(iii))	(60.108a(c)(6)(iv))	(60.108a(c)(6)(vii))	(60.108a(c)(6)(vii))
First hour of 24-hr Period	Last hour of 24-hr Period	24-hr cumulative volume of flared gas above Baseline	TRS or H2S ppm (24-hr average, flow- weighted)	24-hr cumulative SO2	24-hr cumulative reduced sulfur
		SCF	ppmv	lbs	lbs as H2S
5/12/20 13:00	5/13/20 12:00	245,690	26	115.3	0.6
5/12/20 14:00	5/13/20 13:00	176,567	533	52.3	0.3
5/12/20 15:00	5/13/20 14:00	294,558	8591	269.3	1.4
5/12/20 16:00	5/13/20 15:00	561,776	9036	689.5	3.7
5/12/20 17:00	5/13/20 16:00	545,071	178	686.1	3.7
5/12/20 18:00	5/13/20 17:00	528,313	115	685.0	3.7
5/12/20 19:00	5/13/20 18:00	505,978	110	683.9	3.7
5/12/20 20:00	5/13/20 19:00	490,799	110	683.2	3.7
5/12/20 21:00	5/13/20 20:00	490,799	108	683.2	3.7
5/12/20 22:00	5/13/20 21:00	490,804	105	683.3	3.7
5/12/20 23:00	5/13/20 22:00	490,811	103	683.3	3.7
5/13/20 0:00	5/13/20 23:00	490,825	97	683.3	3.7
5/13/20 1:00	5/14/20 0:00	490,848	93	683.4	3.7
5/13/20 2:00	5/14/20 1:00	490,873	84	683.4	3.7
5/13/20 3:00	5/14/20 2:00	490,885	74	683.4	3.7
5/13/20 4:00	5/14/20 3:00	490,890	62	683.4	3.7
5/13/20 5:00	5/14/20 4:00	490,890	52	683.4	3.7
5/13/20 6:00	5/14/20 5:00	487,263	43	683.3	3.7
5/13/20 7:00	5/14/20 6:00	487,273	37	683.3	3.7
5/13/20 8:00	5/14/20 7:00	487,273	33	683.3	3.7
5/13/20 9:00	5/14/20 8:00	487,273	33	683.3	3.7
5/13/20 10:00	5/14/20 9:00	487,273	32	683.3	3.7
5/13/20 11:00	5/14/20 10:00	487,273	30	683.3	3.7
5/13/20 12:00	5/14/20 11:00	487,273	25	683.3	3.7
5/13/20 13:00	5/14/20 12:00	483,071	23	683.2	3.7
5/13/20 14:00	5/14/20 13:00	455,962	23	680.5	3.7
5/13/20 15:00	5/14/20 14:00	284,080	20	430.7	2.3

Subpart Ja Root (Cause / Corrective Action Analysis	Incident Number:	434898
The information conto	nined below satisfies the requirements of the NSF	PS Subpart Ja 60.108a(c)(6).	
Report: Refinery: Incident Type: Emissions Source(s):	Initial Valero (Meraux) Flaring (Flow and SO2) North Flare (EPN 20-72, EQT 0035) South Flare (EPN 3-77, EQT 0049)	Date of Event: Date Analysis Completed:	7/24/20 9/4/20
(1.) A description of the D	iccharge:		(60.108a(c)(6)(i))
During inclement weat of power to several ele Sulfur Recovery Unit (S	ther on 7/24/20 at approximately 13:40, a lighten ectrical loads in the refinery. The resulting unit up.	ing arrestor on an electrical power transformer failed sets led to excess emissions of SO2 from the refinery fl vas greater than 500 lbs in a 24 hour period, but the So priod.	lares and the #2
(2.)		(60.108a(c)(6)(ii))	and (60.108a(c)(6)(ix))
	Date and Time the discharge was first identified Date/Time the discharge had ceased Duration of Discharge (Calculated)	7/24/20 13:40 7/24/20 23:00 9.3 hrs.	
(3.)			(60.108a(c)(6)(viii))
•	nit the emissions during the discharge: re Minimization Plan and Operations Procedures t	to minimize the volume and SO2 emissions of this discl	harge.
(4.)			(60.108a(c)(6)(xi))
	Determine and state whether a RC/CAA is necesswas a result of a planned startup or shutdown, a R	ssary: RC/CAA analysis is not required if the flare manageme	nt plan
Did the discharge resu	ult from a planned startup or shutdown?	No	(Yes/No)
Was the flare manage	ment plan followed?	Yes	(Yes/No/N/A)
Is the event exempt fr - If yes, skip section	rom a RC/CCA based on the answers above? n 5-7.	No	(Yes/No)
(5.)			(60.108a(c)(6)(ix))
Did this discharge rest Valero investigated thi maintenance program	. Valero also determined that the lighting arresto		led by Valero policy.
Is corrective action red 1) Complete a site-wid	quired? Yes le survey of lightning arrestors and develop a plan	d corrective action(s) or an explanation of why correctives/No) to remove unnecessary lightning arrestors during the n, develop a plan to replace them with the recommend	next planned
2) Review and revise a	s necessary the preventative maintenance policy r	requirements for lighting arrestors.	

(60.108a(c)(6)(x))

Corrective Action Schedule: Include corrective actions already completed within the first 45 days following the discharge. For those not completed, provide a schedule for implementation, including proposed commencement and completion dates.

1) Complete a site-wide survey of lightning arrestors and develop a plan to remove unnecessary lightning arrestors during the next planned electrical outage. If lightening arrestors are found to be the older design, develop a plan to replace them with the recommended type.

Commencement Date: 9/4/20
Estimated Completion Date: 12/15/20

2) Review and revise as necessary the preventative maintenance policy requirements for lighting arrestors.

Commencement Date: 9/4/20
Estimated Completion Date: 12/29/20

(8.) The measured or calculated cumulative quantity of gas discharged over the discharge duration.

Note: Measured sulfur concentrations are shown as flow-weighted averages if multiple measurement devices were used.

		(60.108a(c)(6)(iii))	(60.108a(c)(6)(iv))	(60.108a(c)(6)(vii))	(60.108a(c)(6)(vii))
		24-hr cumulative	TRS or H2S ppm		24-hr cumulative
First hour of 24-hr	Last hour of 24-hr	volume of flared gas	(24-hr average, flow-	24-hr cumulative SO2	
Period	Period	above Baseline	weighted)		reduced sulfur
		SCF	ppmv	lbs	lbs as H2S
7/23/20 13:00	7/24/20 12:00	106,032	8	0.6	0.0
7/23/20 14:00	7/24/20 13:00	162,075	2566	26.3	0.1
7/23/20 15:00	7/24/20 14:00	841,585	2068	259.3	1.4
7/23/20 16:00	7/24/20 15:00	1,160,999	4302	489.1	2.6
7/23/20 17:00	7/24/20 16:00	1,663,465	2255	677.6	3.6
7/23/20 18:00	7/24/20 17:00	2,359,815	738	762.8	4.1
7/23/20 19:00	7/24/20 18:00	2,920,585	1027	858.5	4.6
7/23/20 20:00	7/24/20 19:00	3,527,117	54	863.9	4.6
7/23/20 21:00	7/24/20 20:00	3,629,483	51	864.8	4.6
7/23/20 22:00	7/24/20 21:00	3,629,756	124	864.8	4.6
7/23/20 23:00	7/24/20 22:00	3,646,241	381	866.2	4.7
7/24/20 0:00	7/24/20 23:00	3,646,016	150	866.3	4.7
7/24/20 1:00	7/25/20 0:00	3,645,788	154	866.4	4.7
7/24/20 2:00	7/25/20 1:00	3,645,556	171	866.5	4.7
7/24/20 3:00	7/25/20 2:00	3,645,346	142	866.6	4.7
7/24/20 4:00	7/25/20 3:00	3,645,115	139	866.6	4.7
7/24/20 5:00	7/25/20 4:00	3,644,886	140	866.7	4.7
7/24/20 6:00	7/25/20 5:00	3,644,663	154	866.8	4.7
7/24/20 7:00	7/25/20 6:00	3,644,158	172	866.9	4.7
7/24/20 8:00	7/25/20 7:00	3,642,564	170	867.0	4.7
7/24/20 9:00	7/25/20 8:00	3,634,926	158	867.1	4.7
7/24/20 10:00	7/25/20 9:00	3,611,767	155	867.2	4.7
7/24/20 11:00	7/25/20 10:00	3,588,730	172	867.3	4.7
7/24/20 12:00	7/25/20 11:00	3,565,651	167	867.3	4.7
7/24/20 13:00	7/25/20 12:00	3,542,447	151	867.4	4.7
7/24/20 14:00	7/25/20 13:00	3,486,196	132	841.8	4.5
7/24/20 15:00	7/25/20 14:00	2,806,461	105	608.8	3.3
7/24/20 16:00	7/25/20 15:00	2,486,821	96	379.0	2.0
7/24/20 17:00	7/25/20 16:00	1,984,116	84	190.6	1.0
7/24/20 18:00	7/25/20 17:00	1,287,530	73	105.5	0.6
7/24/20 19:00	7/25/20 18:00	726,519	64	9.8	0.1
7/24/20 20:00	7/25/20 19:00	119,761	61	4.4	0.0

Report: Refinery: Incident Type:	ned below satisfies the requirements of the NSPS S Final Valero (Meraux) Flaring (Flow) North Flare (EPN 20-72, EQT 0035)	Subpart Ja 60.108a(c)(6).		
Refinery: Incident Type:	Valero (Meraux) Flaring (Flow)			
Refinery: Incident Type:	Valero (Meraux) Flaring (Flow)			
Incident Type:	Flaring (Flow)			
			Date of Event:	8/27/20
Emissions Source(s):	1401th Flare (EF 14 20 72, EQ 1 0033)	Date	Analysis Completed:	9/17/20
	South Flare (EPN 3-77, EQT 0049)	Dute	7 mary 515 completed.	3/1//20
-	304.11 Hate (2114 3 77, 2Q1 0043)			
(1.) A description of the Dis				(60.108a(c)(6)(i))
in the PSA tail gas being from a combination of a Valero has been running	nately 19:27, the running PSA tailgas compressor in I flared off in the North Flare. The restart of the color In isolated injection/lube oil pressure indication and I higher than normal supplemental natural gas to to I ined volume of gas flared at both flares exceeded 5	mpressor was delayed by not d operators not correctly folk he South Flare to compensat	meeting the compressowing the start-up proc e for a broken valve on	or start permissives redure. Additionally,
(2.)			(60.109a(a)(6)(ii))	and (60.108a(c)(6)(ix))
	Date and Time the discharge was first identified	8/27/20 19:29	(00.108a(c)(0)(11))	
L	Date/Time the discharge had ceased	8/27/20 22:37		
	Duration of Discharge (Calculated)	3.1 hrs.		
		3.1 III 3.		
•	t the emissions during the discharge: e Minimization Plan and Operations Procedures to r	minimize the volume emission	ns of this discharge.	(60.108a(c)(6)(viii))
(4.)				(60.108a(c)(6)(xi))
	Determine and state whether a RC/CAA is necessa as a result of a planned startup or shutdown, a RC/	-	if the flare manageme	nt plan
Did the discharge resul	t from a planned startup or shutdown?		No	(Yes/No)
Was the flare managen			Yes	(Yes/No/N/A)
	om a RC/CCA based on the answers above?		No	(Yes/No)
- If yes, skip section				
(5.)				(60.108a(c)(6)(ix))
Root Cause Analysis: D	escribe in detail the Root Cause(s) of the Incident	, to the extent determinable	e:	
-	t from root causes identified in a previous analysi		No	(Yes/No)
The root causes of this o	discharge were :			
 An internal seal oil le A non functioning lov 	ak on the non-running compressor, which was rece w seal oil level alarm.	ently re-installed after being i	rebuilt.	
3. A leaking valve requi	ring the isolation of the injection/lube oil from the atty following the start-up procedure.	non-running compressor tha	t must be re-open prior	to restart.

(6.)		(60.108a(c)(6)(ix))
Corrective Action Analysis: Include a desc	ription of the recomme	ended corrective action(s) or an explanation of why corrective action is not
Is corrective action required?	Yes	(Yes/No)
 Develop a seal testing procedure for the PSA compressors and update seal drawing with a step on how to field test the internal seal. Create a work order to repair the non functioning level switch that provides the low seal oil level alarm. Create a work order to repair the leaking valve that requires the injection/lube oil be isolated from non-running compressors. Retrain operators on the compressor start up procedure. (60.108a(c)(6)(x) Corrective Action Schedule: Include corrective actions already completed within the first 45 days following the discharge. For those not completed, provide a schedule for implementation, including proposed commencement and completion dates. Develop a seal testing procedure for the PSA compressors and update seal drawing with a step on how to field test the internal seal. Commencement Date: 9/17/20 		
2) Create a work order to repair the non fu	nctioning level switch th	hat provides the low seal oil level alarm.
3) Create a work order to repair the leaking	g valve that requires the	e injection/lube oil be isolated from non-running compressors.
4) Retrain operators on the compressor sto	art up procedure.	
(7.)		(60.108a(c)(6)(x))
	ctive actions already co	ompleted within the first 45 days following the discharge. For those not
completed, provide a schedule for implen	nentation, including pro	oposed commencement and completion dates.
1) Develop a seal testing procedure for the	PSA compressors and u	update seal drawing with a step on how to field test the internal seal.
Commencement Date: 9/17/20		
Completed Date: 10/12/20		
2) Write work orders to repair the level sw	itch and leaking valve.	
Commencement Date: 9/17/20		
Completed Date: 9/17/20		
3) Retrain operators on the compressor sto	art up procedure.	
Commencement Date: 9/17/20		
Completed Date: 9/17/20		

(8.)
The measured or calculated cumulative quantity of gas discharged over the discharge duration.

Note: Measured sulfur concentrations are shown as flow-weighted averages if multiple measurement devices were used.

		(60.108a(c)(6)(iii))	(60.108a(c)(6)(iv))	(60.108a(c)(6)(vii))	(60.108a(c)(6)(vii))
First hour of 24-hr Period	Last hour of 24-hr Period	24-hr cumulative volume of flared gas above Baseline	TRS or H2S ppm (24-hr average, flow- weighted)	24-hr cumulative SO2	24-hr cumulative reduced sulfur
		SCF	ppmv	lbs	lbs as H2S
8/26/20 19:00	8/27/20 18:00	106,790	8	0.3	0.0
8/26/20 20:00	8/27/20 19:00	190,449	18	0.6	0.0
8/26/20 21:00	8/27/20 20:00	396,904	9	0.8	0.0
8/26/20 22:00	8/27/20 21:00	602,672	8	1.1	0.0
8/26/20 23:00	8/27/20 22:00	653,823	11	1.2	0.0
8/27/20 0:00	8/27/20 23:00	653,721	9	1.2	0.0
8/27/20 1:00	8/28/20 0:00	653,716	8	1.2	0.0
8/27/20 2:00	8/28/20 1:00	653,713	10	1.2	0.0
8/27/20 3:00	8/28/20 2:00	653,722	10	1.2	0.0
8/27/20 4:00	8/28/20 3:00	653,728	12	1.2	0.0
8/27/20 5:00	8/28/20 4:00	653,724	10	1.2	0.0
8/27/20 6:00	8/28/20 5:00	653,727	10	1.2	0.0
8/27/20 7:00	8/28/20 6:00	653,722	11	1.2	0.0
8/27/20 8:00	8/28/20 7:00	653,726	10	1.2	0.0
8/27/20 9:00	8/28/20 8:00	653,732	10	1.2	0.0
8/27/20 10:00	8/28/20 9:00	653,746	9	1.2	0.0
8/27/20 11:00	8/28/20 10:00	653,738	7	1.2	0.0
8/27/20 12:00	8/28/20 11:00	653,756	10	1.2	0.0
8/27/20 13:00	8/28/20 12:00	653,749	13	1.2	0.0
8/27/20 14:00	8/28/20 13:00	653,743	10	1.2	0.0
8/27/20 15:00	8/28/20 14:00	653,757	5	1.2	0.0
8/27/20 16:00	8/28/20 15:00	653,740	3	1.2	0.0
8/27/20 17:00	8/28/20 16:00	653,756	2	1.2	0.0
8/27/20 18:00	8/28/20 17:00	653,746	3	1.2	0.0
8/27/20 19:00	8/28/20 18:00	653,766	4	1.2	0.0
8/27/20 20:00	8/28/20 19:00	570,113	7	0.9	0.0
8/27/20 21:00	8/28/20 20:00	363,650	8	0.6	0.0