



July 30, 2012

CERTIFIED: 7009 2820 0004 3568 3854

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

Re: NSPS Excess Emissions & CEM Performance Report – 2nd Quarter 2012
Valero Refining - Meraux LLC, Agency Interest # 1238
2500 East St. Bernard Hwy., St. Bernard Parish, Meraux, LA
Title V Permit Numbers: 2500-00001-V7

Gentlemen,

Valero Refining, Meraux LLC is hereby submitting the 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 Second Quarter 2012.

For the reporting period, excess emissions greater than 1 percent of the total operating time occurred at the #2 FCCU ESP Stack (EPN 2-77, EQT 0032) for Carbon Monoxide, the #2 SRU Incinerator (EPN 1-93, EQT 0019) for Sulfur Dioxide, and the #3 SRU Incinerator (EPN 5-00, EQT 0079) for Sulfur Dioxide. No CEMS had downtime greater than 5 percent of the total operating time. Also enclosed are the Data Assessment Reports for the appropriate CEMs.

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,

A handwritten signature in black ink that reads 'Lauren K. Bird'.

Lauren K. Bird
Vice President & General Manager
Valero Refining – Meraux LLC

Enclosures

cc: Mr. Mike Algero, LDEQ SE Regional Office, New Orleans, LA

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: **Opacity**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: Opacity shall not exceed 30% for more than one 6-minute interval in any 1-hour period

Monitor Manufacturer and Model No.: Monitor Labs Inc., #550

Date of Latest CMS Certification or Audit: Certification (4/11/01)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period¹: 51,499 minutes

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(minutes)</i>
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 Summary¹	
1. CMS downtime in reporting period due to:	<i>(minutes)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	45
e. Unknown causes	0
2. Total CMS Downtime	45
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: **CO**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: CO corrected to 0% O₂ shall not exceed 500 ppm on a 1 hour rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 48i (CO)/Servomex 1155 (O₂)

Date of Latest CMS Certification or Audit: RATA on 6/7/12

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 863 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	25
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	25
3. Total duration of excess emissions x (100) [Total source operating time] ²	2.9 %

CMS Performance Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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	0.3 %

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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: SO₂

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 50 ppm on a 7 day rolling average and 25 ppm on a 365 day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 43i (SO₂)/Servomex 1155 (O₂)

Date of Latest CMS Certification or Audit: RATA on 6/7/12

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 863 hours

Emissions Data Summary¹	
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 Summary¹	
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	0
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: **NO_x**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Murphy Oil USA, Inc., Meraux Refinery

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

Emission Limitation: Not Applicable

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NOx)/Servomex 1155 (O₂)

Date of Latest CMS Certification or Audit: RATA on 6/7/12

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 863 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
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 Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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	0.3 %

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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: **SO₂**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/6/12

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

Total source operating time in reporting period: 2114 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	48
b. Control equipment problems	0
c. Process problems	25
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	73
3. Total duration of excess emissions x (100) [Total source operating time] ²	3.5 %

CMS Performance Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	8
e. Unknown causes	0
2. Total CMS Downtime	8
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: **SO₂**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 991-CEM-X(SO₂)/ Rosemount Oxymitter 4000(O₂)

Date of Latest CMS Certification or Audit: RATA on 6/5/12

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

Total source operating time in reporting period: 2146 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	53
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	53
3. Total duration of excess emissions x (100) [Total source operating time] ²	2.5 %

CMS Performance Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	4
d. Other known causes	2
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: H₂S

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/6/12

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

Total source operating time in reporting period: 2178 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	3
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	3
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.1 %

CMS Performance Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: H₂S

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/5/12

Process Unit(s) Description: Area 2 Fuel Drum for: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033);

ROSE Heater (EPN 1-80, EQT 0014);

Vacuum Heater (EPN 1-76, EQT 0013);

Platformer Charge Heater (EPN 17-72 a,b,c , EQT 0028);

Hydrobon Charge Heater (EPN 14-72, EQT 0023)

Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

Total source operating time in reporting period: 2175 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	7
b. Control equipment problems	0
c. Process problems	4
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	11
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.5 %

CMS Performance Summary¹	
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	7
e. Unknown causes	0
2. Total CMS Downtime	7
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: H₂S

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/6/12

Process Unit(s) Description: Area 4 Fuel Drum for Alky Reboiler (EPN 1-77, EQT 0078)

Total source operating time in reporting period: 983 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
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 Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	9
e. Unknown causes	0
2. Total CMS Downtime	9
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: H₂S

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/4/12

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

Total source operating time in reporting period: 2168 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	10
b. Control equipment problems	0
c. Process problems	4
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	14
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.6 %

CMS Performance Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: H₂S

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/4/12

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

Total source operating time in reporting period: 2178 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	(hours)
a. Startup/shutdown	8
b. Control equipment problems	0
c. Process problems	3
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	11
3. Total duration of excess emissions x (100) [Total source operating time] ²	0.5 %

CMS Performance Summary¹	
1. CMS downtime in reporting period due to:	(hours)
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	24
d. Other known causes	3
e. Unknown causes	0
2. Total CMS Downtime	27
3. Total duration of CMS Downtime x (100) [Total source operating time] ²	1.2 %

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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: NO_x

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 Lumus 11, Serial No. 23042-5-8018413

Date of Latest CMS Certification or Audit: RATA on 6/4/12

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

Total source operating time in reporting period: 2178 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
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 Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: NO_x

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 Lumus 11, Serial No. 23042-5-8018413

Date of Latest CMS Certification or Audit: RATA on 6/4/12

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

Total source operating time in reporting period: 2176 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
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 Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**

(per 40 CFR 60.7(d))

Pollutant: **NO_x**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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

Date of Latest CMS Certification or Audit: RATA on 6/7/12

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

Total source operating time in reporting period: 1265 hours

Emissions Data Summary¹	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
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 Summary¹	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
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.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**
(per 40 CFR 60.7(c))

Pollutant: **CO**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: CO corrected to 0% O₂ shall not exceed 500 ppm on a 1 hour rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 48i (CO)/Servomex 1155 (O₂)

Date of Latest CMS Certification or Audit: RATA on 6/7/12

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 863 hours

EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 1-HRA (ppm)	Cause	Corrective Action
5/30/12	13:14	16:14	3	747	#2 FCC CO >500 ppm, 1-HRA during unit start up on Torch Oil.	The use of Torch Oil with low unit charge causes elevated levels of CO. Valero used the #2 FCC Air Preheater to minimize the time CO was > 500 ppm. Valero completed the unit startup per the SSM Plan.
5/30/12	19:49	20:49	1	506		
5/30/12	21:00		10	>1000		
5/31/12		07:00				
5/31/12	07:20	08:20	1	702		
5/31/12	10:49	12:49	2	>1000		
5/31/12	20:08	23:08	3	>1000		
6/1/12	00:17	04:17	4	>1000		
6/1/12	06:15	07:15	1	546		
TOTAL			25			

CMS PERFORMANCE						
Date	Start	End	Duration (hours)	Cause	Corrective Action	
6/11/12	10:37	11:37	1	Maintenance check.	N/A	
6/18/12	07:57	09:57	2	Maintenance check.	N/A	
TOTAL			3			

**GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**
(per 40 CFR 60.7(c))

Pollutant: SO₂

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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: RATA on 6/6/12

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

Total source operating time in reporting period: 2114 hours

EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 1-HRA (ppm)	Cause	Corrective Action
4/11/12	09:48	21:48	12	>500	#2 SRU Incinerator SO ₂ >250 ppm, 12-HRA, during unit start-up with #2 Tail Gas Treater (TGT) bypassed following total refinery power failure on 4/10/12. Valero determined the root cause to be an offsite equipment failure in the switchgear that provides power to the refinery.	Valero completed the unit startup, per the MACT UUU SSM Plan.
4/12/12	07:23		36	>500		
4/13/12		19:23				
5/17/12	19:22		12	>500	#2 SRU Incinerator SO ₂ >250 ppm, 12-HRA, during start-up with the #2 TGT bypassed following an automatic safety shutdown. Valero determined that the root cause to be operator error. A valve misalignment while draining the #1 Sour Water Stripper (SWS) Off Gas Line caused the automatic safety shutdown.	Valero completed the unit startup, per the MACT UUU SSM Plan.
5/18/12		07:22				

EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 1-HRA (ppm)	Cause	Corrective Action
6/29/12	12:20		13	>500	#2 SRU Incinerator SO ₂ >250 ppm, 12-HRA, due to an upset of the #2 SRU and #2 TGT. The #2 SRU and #2 TGT were overwhelmed by the acid gas production caused by a sudden, unexpected spike in crude charge sulfur content. SO ₂ coming from the #2 SRU exceeded the capacity of the #2 TGT Reactor and passed through to the #2 SRU Incinerator. SO ₂ entering the #2 TGT Quench Tower chemically unbalanced the system and plugged the Quench Water Filter, further reducing the #2 TGT function and delaying recovery. Valero determined the root cause to be operator error. Valero was filling a crude tank with high sulfur crude oil via pipeline and a mechanical mixer that usually mixes the crude was not activated. Heavier, high sulfur crude settled to the bottom of the tank and passed, unmixed, to the crude unit charge.	Valero initiated the Sulfur Shedding Procedure and followed the MACT UUU SSM Plan to recover the #2 SRU and #2 TGT. Valero activated the mixers on the crude tank to reduce the crude charge sulfur content.
6/30/12		01:20				
TOTAL			73			

CMS PERFORMANCE ¹						
Date	Start	End	Duration (hours)	Cause	Corrective Action	
6/6/12	07:37	09:37	2	Maintenance check of SO ₂ analyzer.	N/A	
6/25/12	10:03	12:03	2	Maintenance check of SO ₂ analyzer.	N/A	
6/30/12	17:48	21:48	4	Maintenance check of SO ₂ analyzer.	N/A	
TOTAL			8			

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.

ROOT CASUE ANALYSIS SUMMARY REPORT
(per 40 CFR 60.108a(d)(5))

SUBPART Ja ROOT CAUSE ANALYSIS SUMMARY					
60.108a (c)(6)(i)	Affected Facility:	#2 SRU Incinerator (EPN 1-93, EQT 0019)			
	Description of Discharge:	#2 SRU Incinerator SO ₂ emissions >500 lbs/day during unit start-up with #2 Tail Gas Treater (TGT) bypassed following total refinery power failure on 4/10/12.			
(ii)	Start:	4/11/12 09:38	4/12/12 09:38		
	Stop:	4/12/12 09:38	4/13/12 06:42		
	Duration:	24 hrs	21.1 hrs		
(iii)	SO ₂ Emissions ² :	102 lbs	447 lbs		
	H ₂ S Emissions ² :	1 lbs	2 lbs		
(iv)	Measured Total Sulfur Concentration of Discharge from a Flare	Not applicable to Sulfur Recovery Units.			
(v)	Measured Concentration of H ₂ S in Fuel Gas or SO ₂ of Discharge from a Fuel Gas Combustion Device	Not applicable to Sulfur Recovery Units.			
(vi)	Measured Concentration SO ₂ Discharged from a Sulfur Recovery Plant	>500 ppm ¹			
(vii)	Total SO ₂ Emissions ² :	549 lbs			
	Total H ₂ S Emissions ² :	3 lbs			
(viii)	Steps Taken to Limit Emissions During Discharge:	Valero completed the unit startup, per the MACT UUU SSM Plan.			
(ix)	Root Cause:	Valero determined the root cause to be an offsite equipment failure in the switchgear that provides power to the refinery.			
	Was discharge the result of a Root Cause identified by previous Root Cause Analysis? (Yes/No)	No			
(x)	Corrective Action(s) Completed within 45 days of Discharge ³ :	No corrective action is possible as the fault occurred on offsite equipment outside of the control of Valero.			
	Incomplete Correction Actions (Include scheduled commencement and completion dates)				

This report is based on Subpart Ja language found in the pre-publication version signed by the EPA Administrator on 6/1/12.

¹ Maximum Range of SO₂ CEMS

² If the discharge duration exceeds 24 hours, record the discharge quantity for each 24-hour period.

³ Enter a description of the recommended corrective actions or an explanation of why corrective action is not necessary.

ROOT CAUSE ANALYSIS SUMMARY REPORT
(per 40 CFR 60.108a(d)(5))

SUBPART Ja ROOT CAUSE ANALYSIS SUMMARY					
60.108a (c)(6)(i)	Affected Facility:	#2 SRU Incinerator (EPN 1-93, EQT 0019)			
	Description of Discharge:	SO ₂ emissions at the #2 SRU Incinerator >500 lbs/24 hrs during start-up with the #2 TGT bypassed following an automatic safety shutdown.			
(ii)	Start:	5/17/12 19:21			
	Stop:	5/18/12 02:58			
	Duration:	7.95 hrs			
(iii)	SO ₂ Emissions ² :	870 lbs			
	H ₂ S Emissions ² :	5 lbs			
(iv)	Measured Total Sulfur Concentration of Discharge from a Flare	Not applicable to Sulfur Recovery Units.			
(v)	Measured Concentration of H ₂ S in Fuel Gas or SO ₂ of Discharge from a Fuel Gas Combustion Device	Not applicable to Sulfur Recovery Units.			
(vi)	Measured Concentration SO ₂ Discharged from a Sulfur Recovery Plant	>500 ppm ¹			
(vii)	Total SO ₂ Emissions ² :	870 lbs			
	Total H ₂ S Emissions ² :	5 lbs			
(viii)	Steps Taken to Limit Emissions During Discharge:	Valero cut stripping steam from the #1 Amine Unit and #1 SWS to reduce acid gas generation and reduce the load on the #2 SRU. Valero completed the unit startup, per the MACT UUU SSM Plan.			
(ix)	Root Cause:	Valero determined the root cause to be operator error. A valve misalignment on the Sour Gas Compressor Suction Drum Blowcase while draining the #1 Sour Water Stripper (SWS) Off Gas Line caused a high pressure condition that blew out the burner in the #2 SRU Claus Furnace and initiated an automatic safety shutdown.			
	Was discharge the result of a Root Cause identified by previous Root Cause Analysis? (Yes/No)	No.			
(x)	Corrective Action(s) Completed within 45 days of Discharge ³ :	1. Valero revised the procedure for draining the #1 SWS Off Gas Line.			
	Incomplete Correction Actions (Include scheduled commencement and completion dates)	1. Valero will install a check valve on the line from the #1 SWS Off Gas Line to the Blowcase. Estimated Completion: 9/30/14 2. Valero will install a placard on the blow case with guidelines on its operation and labels on all the block valves. Estimated Completion: 10/23/12			

This report is based on Subpart Ja language found in the pre-publication version signed by the EPA Administrator on 6/1/12.

¹ Maximum Range of SO₂ CEMS

² If the discharge duration exceeds 24 hours, record the discharge quantity for each 24-hour period.

³ Enter a description of the recommended corrective actions or a an explanation of why corrective action is not necessary.

ROOT CAUSE ANALYSIS SUMMARY REPORT
(per 40 CFR 60.108a(d)(5))

SUBPART Ja ROOT CAUSE ANALYSIS SUMMARY					
60.108a (c)(6)(i)	Affected Facility:	#2 SRU Incinerator (EPN 1-93, EQT 0019)			
	Description of Discharge:	#2 SRU Incinerator SO ₂ emissions >500 lbs/day due to an upset of the #2 SRU and #2 TGT. The #2 SRU and #2 TGT were overwhelmed by the acid gas production caused by a sudden, unexpected spike in crude charge sulfur content. SO ₂ coming from the #2 SRU exceeded the capacity of the #2 TGT Reactor and passed through to the #2 SRU Incinerator. SO ₂ entering the #2 TGT Quench Tower chemically unbalanced the system and plugged the Quench Water Filter, further reducing the #2 TGT function and delaying recovery.			
(ii)	Start:	6/29/12 09:20			
	Stop:	6/30/12 15:45			
	Duration:	6.4 hrs			
(iii)	SO ₂ Emissions ² :	2,138 lbs			
	H ₂ S Emissions ² :	11 lbs			
(iv)	Measured Total Sulfur Concentration of Discharge from a Flare	Not applicable to Sulfur Recovery Units.			
(v)	Measured Concentration of H ₂ S in Fuel Gas or SO ₂ of Discharge from a Fuel Gas Combustion Device	Not applicable to Sulfur Recovery Units.			
(vi)	Measured Concentration SO ₂ Discharged from a Sulfur Recovery Plant	>500 ppm ¹			
(vii)	Total SO ₂ Emissions ² :	2,138 lbs			
	Total H ₂ S Emissions ² :	11 lbs			
(viii)	Steps Taken to Limit Emissions During Discharge:	Valero initiated the Sulfur Shedding Procedure and followed the MACT UUU SSM Plan to recover the #2 SRU and #2 TGT. Valero activated the mixers on the crude tank to reduce the crude charge sulfur content.			
(ix)	Root Cause:	Valero determined the root cause to be operator error. Valero was filling a crude tank with high sulfur crude oil via pipeline and a mechanical mixer that usually mixes the crude was not activated. Heavier, high sulfur crude settled to the bottom of the tank and passed, unmixed, to the crude unit charge.			
	Was discharge the result of a Root Cause identified by previous Root Cause Analysis? (Yes/No)	No			
(x)	Corrective Action(s) Completed within 45 days of Discharge ³ :	As of the date of this report, this incident remains under investigation. Valero will submit the status of corrective actions in the 3 rd Quarter 2012 Excess Emissions Report.			
	Incomplete Correction Actions (Include scheduled commencement and completion dates)				

This report is based on Subpart Ja language found in the pre-publication version signed by the EPA Administrator on 6/1/12.

¹ Maximum Range of SO₂ CEMS

² If the discharge duration exceeds 24 hours, record the discharge quantity for each 24-hour period.

³ Enter a description of the recommended corrective actions or a explanation of why corrective action is not necessary.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND
MONITORING SYSTEMS PERFORMANCE**
(per 40 CFR 60.7(c))

Pollutant: **SO₂**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 991-CEM-X(SO₂)/ Rosemount Oxymitter 4000(O₂)

Date of Latest CMS Certification or Audit: RATA on 6/5/12

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

Total source operating time in reporting period: 2146 hours

EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 1-HRA (ppm)	Cause	Corrective Action
4/11/12	01:45	13:45	12	>500	#3 SRU Incinerator SO ₂ >250 ppm, 12-HRA, during unit start-up with #3 Tail Gas Treater (TGT) bypassed following total refinery power failure on 4/10/12. Valero determined the root cause to be an offsite equipment failure in the switchgear that provides power to the refinery.	Once power was restored, Valero completed the unit startup, per the MACT UUU SSM Plan.
4/12/12	09:44		28	>500		
4/13/12		13:44				
5/2/12	15:59	04:59	13	458	#3 SRU Incinerator SO ₂ >250 ppm, 12-HRA, during unit start-up with #3 Tail Gas Treater (TGT) bypassed following a brief power interruption affecting the entire refinery. Valero determined the root cause to be an offsite lightning strike that caused the power interruption to the refinery and much of the surrounding area.	Valero completed the unit startup, per the MACT UUU SSM Plan.
TOTAL			53			

CMS PERFORMANCE ¹					
Date	Start	End	Duration (hours)	Cause	Corrective Action
4/11/12	01:45	05:45	4	The automatic timer failed to initiate the daily O ₂ validation check. The power failure on 4/10/12 disabled the timer. Unit was in operation for only four hours on 4/11/12.	Valero manually validated the O ₂ analyzer and reset the automatic timer on 4/12/12. The automatic timer functioned satisfactorily on 4/13/12.
6/25/12	08:12	09:12	1	Maintenance check of SO ₂ analyzer.	N/A
6/30/12	22:37	23:37	1	Maintenance check of SO ₂ analyzer.	N/A
TOTAL			6		

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.

ROOT CAUSE ANALYSIS SUMMARY REPORT
(per 40 CFR 60.108a(d)(5))

SUBPART Ja ROOT CAUSE ANALYSIS SUMMARY					
60.108a (c)(6)(i)	Affected Facility:	#3 SRU Incinerator (EPN 5-00, EQT 0079)			
	Description of Discharge:	#3 SRU Incinerator SO ₂ emissions >500 lbs/day during unit start-up with #3 Tail Gas Treater (TGT) bypassed following total refinery power failure on 4/10/12.			
(ii)	Start:	4/12/12 08:21			
	Stop:	4/13/12 03:29			
	Duration:	19.1 hrs			
(iii)	SO ₂ Emissions ² :	2,104 lbs			
	H ₂ S Emissions ² :	11 lbs			
(iv)	Measured Total Sulfur Concentration of Discharge from a Flare	Not applicable to Sulfur Recovery Units.			
(v)	Measured Concentration of H ₂ S in Fuel Gas or SO ₂ of Discharge from a Fuel Gas Combustion Device	Not applicable to Sulfur Recovery Units.			
(vi)	Measured Concentration SO ₂ Discharged from a Sulfur Recovery Plant	>500 ppm ¹			
(vii)	Total SO ₂ Emissions ² :	2,104 lbs			
	Total H ₂ S Emissions ² :	11 lbs			
(viii)	Steps Taken to Limit Emissions During Discharge:	Valero initiated the Sulfur Shedding Procedure and followed the MACT UUU SSM Plan to recover the #2 SRU and #2 TGT. Valero activated the mixers on the crude tank to reduce the crude charge sulfur content.			
(ix)	Root Cause:	Valero determined the root cause to be an offsite equipment failure in the switchgear that provides power to the refinery.			
	Was discharge the result of a Root Cause identified by previous Root Cause Analysis? (Yes/No)	No			
(x)	Corrective Action(s) Completed within 45 days of Discharge ³ :	No corrective action is possible as the fault occurred on offsite equipment outside of the control of Valero.			
	Incomplete Correction Actions (Include scheduled commencement and completion dates)				

This report is based on Subpart Ja language found in the pre-publication version signed by the EPA Administrator on 6/1/12.

¹ Maximum Range of SO₂ CEMS

² If the discharge duration exceeds 24 hours, record the discharge quantity for each 24-hour period.

³ Enter a description of the recommended corrective actions or a an explanation of why corrective action is not necessary.

ROOT CAUSE ANALYSIS SUMMARY REPORT
(per 40 CFR 60.108a(d)(5))

SUBPART Ja ROOT CAUSE ANALYSIS SUMMARY					
60.108a (c)(6)(i)	Affected Facility:	#3 SRU Incinerator (EPN 5-00, EQT 0079)			
	Description of Discharge:	#3 SRU Incinerator SO ₂ emissions >500 lbs/day during unit start-up with #3 Tail Gas Treater (TGT) bypassed following a brief total refinery power failure on 5/2/12.			
(ii)	Start:	5/2/12 12:50			
	Stop:	5/2/12 19:30			
	Duration:	5.7 hrs			
(iii)	SO ₂ Emissions ² :	684 lbs			
	H ₂ S Emissions ² :	1 lbs			
(iv)	Measured Total Sulfur Concentration of Discharge from a Flare	Not applicable to Sulfur Recovery Units.			
(v)	Measured Concentration of H ₂ S in Fuel Gas or SO ₂ of Discharge from a Fuel Gas Combustion Device	Not applicable to Sulfur Recovery Units.			
(vi)	Measured Concentration SO ₂ Discharged from a Sulfur Recovery Plant	>500 ppm ¹			
(vii)	Total SO ₂ Emissions ² :	684 lbs			
	Total H ₂ S Emissions ² :	1 lbs			
(viii)	Steps Taken to Limit Emissions During Discharge:	Valero completed the unit startup, per the MACT UUU SSM Plan.			
(ix)	Root Cause:	Valero determined the root cause to be a lightning strike on offsite equipment that cut off power to the refinery and the surrounding area.			
	Was discharge the result of a Root Cause identified by previous Root Cause Analysis? (Yes/No)	No			
(x)	Corrective Action(s) Completed within 45 days of Discharge ³ :	No corrective action is possible as the fault occurred on offsite equipment outside of the control of Valero.			
	Incomplete Correction Actions (Include scheduled commencement and completion dates)				

This report is based on Subpart Ja language found in the pre-publication version signed by the EPA Administrator on 6/1/12.

¹ Maximum Range of SO₂ CEMS

² If the discharge duration exceeds 24 hours, record the discharge quantity for each 24-hour period.

³ Enter a description of the recommended corrective actions or a an explanation of why corrective action is not necessary.

DATA ASSESSMENT REPORT

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

Pollutant: **Opacity**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: Opacity shall not exceed 30% for more than one 6-minute interval in any hourly period.

Monitor Manufacturer and Model No.: Monitor Labs, Model #550

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Opacity 100%

I. ACCURACY ASSESSMENT RESULTS

Not applicable to opacity monitors.

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: **CO**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: CO corrected to 0% O₂ shall not exceed 500 ppm on a 1 hour rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 48i (CO)/Servomex 1155 (O₂)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Carbon Monoxide 1000 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

CO corrected to 0% O ₂	
Date of Audit	6/7/12
Reference Method	EPA Method 10
Average RM Value (ppmv)	4.2
Average CEM Value (ppmv)	2.4
Accuracy	0.5 %
Limit	< 5 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: SO₂

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Valero Refining - Meraux LLC

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

Emission Limitation: SO₂ corrected to 0% O₂ shall not exceed 50 ppm on a 7 day rolling average and 25 ppm on a 365 day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 43i (SO₂)/Servomex 1155 (O₂)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Sulfur Dioxide 500 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

SO ₂ corrected to 0% O ₂	
Date of Audit	6/7/12
Reference Method	EPA Method 10
Average RM Value (ppmv)	41.5
Average CEM Value (ppmv)	46.4
Accuracy	12.7 %
Limit	< 20 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: **NO_x**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

Company: Murphy Oil USA, Inc., Meraux Refinery

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

Emission Limitation: Not Applicable

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NO_x)/Servomex 1155 (O₂)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Nitrogen Oxide 250 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

NO _x corrected to 0% O ₂	
Date of Audit	6/7/12
Reference Method	EPA Method 10
Average RM Value (ppmv)	55.0
Average CEM Value (ppmv)	53.1
Accuracy	4.7 %
Limit	< 10 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: SO₂

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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)

Source unit: #2 SRU Incinerator (EPN I-93, EQT 0019)

CEM Sampling Location: #2 SRU Incinerator (#1-93)

CEM Span Value: Sulfur Dioxide 500 ppm; Oxygen 25%

I. ACCURACY ASSESSMENT RESULTS (RATA):

Date of Audit	6/6/12
Reference Method	EPA Method 6C / EPA Method 3A
Average RM Value (ppmv)	100.8
Average CEM Value (ppmv)	85.6
Accuracy	6.80 %
Limit	< 10 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: SO₂

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 991-CEM-X (SO₂), Rosemount Oxymitter 4000 (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 (RATA):

Date of Audit	6/5/12
Reference Method	EPA Method 6C / EPA Method 3A
Average RM Value (ppmv)	71.4
Average CEM Value (ppmv)	57.7
Accuracy	5.60 %
Limit	< 10%

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: 4/11/12

2. Number of Days 1

B. Corrective Actions: The automatic timer failed to initiate the daily O₂ validation check. The power failure on 4/10/12 disabled the timer. The unit was in operation for only four hours on 4/11/12. Valero manually validated the O₂ analyzer and reset the automatic timer on 4/12/12. The automatic timer functioned satisfactorily on 4/13/12.

DATA ASSESSMENT REPORT

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

Pollutant: **H₂S**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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

Source Unit: Area 1 Fuel Drum for Boiler TB-01 (EPN 1-06, EQT 0010)

CEM Sampling Location: Area 1 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

	<u>Gas #1</u>	<u>Gas #2</u>
Date of Audit	6/6/12	6/6/12
Reference Method	EPA Method 11 (Alternate RATA)	EPA Method 11 (Alternate RATA)
Average RM Value (ppmv)	83.60	175.00
Average CEM Value (ppmv)	83.73	168.83
Accuracy	2.00%	3.52 %
Limit	< 15 %	< 15 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: **H₂S**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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

Source Unit: Area 2 Fuel Drum for: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033);
ROSE Heater (EPN 1-80, EQT 0014); Vacuum Heater (EPN 1-76, EQT 0013);
Platformer Charge Heater (EPN 17-72 a,b,c , EQT 0028);
Hydrobon Charge Heater (EPN 14-72, EQT 0023)
Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

CEM Sampling Location: Area 2 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

	<u>Gas #1</u>	<u>Gas #2</u>
Date of Audit	6/5/12	6/5/12
Reference Method	EPA Method 11 (Alternate RATA)	EPA Method 11 (Alternate RATA)
Average RM Value (ppmv)	85.60	175.00
Average CEM Value (ppmv)	80.19	153.04
Accuracy	4.08 %	12.55 %
Limit	< 15 %	< 15 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: _____

DATA ASSESSMENT REPORT

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

Pollutant: H₂S

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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

Process Unit(s) Description: Area 4 Fuel Drum for Alky Reboiler (EPN 1-77, EQT 0078)

CEM Sampling Location: Area 4 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

	<u>Gas #1</u>	<u>Gas #2</u>
Date of Audit	6/6/12	6/6/12
Reference Method	EPA Method 11 (Alternate RATA)	EPA Method 11 (Alternate RATA)
Average RM Value (ppmv)	83.60	175.00
Average CEM Value (ppmv)	81.97	160.59
Accuracy	1.95 %	8.23 %
Limit	< 15 %	< 15 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

3. Dates: N/A

4. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: **H₂S**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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

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

CEM Sampling Location: Area 6 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

	<u>Gas #1</u>	<u>Gas #2</u>
Date of Audit	6/4/12	6/4/12
Reference Method	EPA Method 11 (Alternate RATA)	EPA Method 11 (Alternate RATA)
Average RM Value (ppmv)	83.60	175.00
Average CEM Value (ppmv)	81.61	156.56
Accuracy	2.39 %	8.14 %
Limit	< 15 %	< 15 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: **H₂S**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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

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

CEM Sampling Location: Area 6 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

I. ACCURACY ASSESSMENT RESULTS (RATA):

	<u>Gas #1</u>	<u>Gas #2</u>
Date of Audit	6/4/11	6/4/11
Reference Method	EPA Method 11 (Alternate RATA)	EPA Method 11 (Alternate RATA)
Average RM Value (ppmv)	83.60	175.00
Average CEM Value (ppmv)	81.86	163.28
Accuracy	2.09 %	6.70 %
Limit	< 15 %	< 15 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: 4/27/12

2. Number of Days 1

B. Corrective Actions: On 4/27/12, the H₂S Analyzer failed its automatic daily validation check on the high span. Operations failed to check the results of the daily validation so a work order was not submitted to check the analyzer and perform another validation check. On 4/28/12, the analyzer completed its automatic daily validation check satisfactorily.

DATA ASSESSMENT REPORT

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

Pollutant: NO_x

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 23042-5-8018413

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

CEM Sampling Location: Boiler B-5

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

I. ACCURACY ASSESSMENT RESULTS (RATA):

Date of Audit	6/4/12
Reference Method	EPA Method 7E / EPA Method 3A
Average RM Value	0.02907 lb/MMBtu
Average CEM Value	0.03025 lb/MMBtu
Accuracy	1.40 %
Limit	< 10 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: **NO_x**

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 23042-5-8018413

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 (RATA):

Date of Audit	6/4/12
Reference Method	EPA Method 7E / EPA Method 3A
Average RM Value	0.03430 lb/MMBtu
Average CEM Value	0.03578 lb/MMBtu
Accuracy	1.70 %
Limit	< 10 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

DATA ASSESSMENT REPORT

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

Pollutant: NO_x

Reporting period dates: From 4/01/12 to 6/30/12

Date submitted: 7/30/12

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 I-06, EQT 0010)

CEM Sampling Location: Boiler TB-01

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

I. ACCURACY ASSESSMENT RESULTS (RATA):

Date of Audit	6/7/12
Reference Method	EPA Method 7E / EPA Method 3A
Average RM Value	0.03192 lb/MMBtu
Average CEM Value	0.02780 lb/MMBtu
Accuracy	4.70 %
Limit	< 10 %

II. CALIBRATION DRIFT ASSESSMENT

A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A
