BOBBY JINDAL
GOVERNOR

HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Agency Interest No. 26003
Activity No.: PER20080005

Mr. Ralph Phillip
14902 River Road
Norco, Louisiana 70079

RE: Part 70 operating permit modification, St. Charles Refinery, Valero Refining – New Orleans, LLC, New Sarpy, St. Charles Parish, Louisiana

Dear Mr. Phillip:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 8th of February, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2008.

Permit No.: 2520-00027-V6

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN/DCN
cc: EPA Region 6

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ST. CHARLES REFINERY
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VALERO REFINING – NEW ORLEANS, LLC
NEW SARPY, ST. CHARLES PARISH, LOUISIANA

I. Background

Valero Refining - New Orleans, LLC, owns and operates the St. Charles Refinery, a petroleum refinery located in New Sarpy, St. Charles Parish, Louisiana. The refinery has been under control and management of Houston Oil and Mineral Company (- 1971), Good Hope Refineries, Inc. (1971 – 1980), GHR Energy Corporation (1980 – 1983), TransAmerican Natural Gas Corporation and TransAmerican Refining Corporation (1983 - 1998), Orion Refining Corporation (1998 - 2003) and Valero Refining – New Orleans, LLC since 2003. The refinery currently operates under Permit No. 2520-00027-V5 and PSD-LA-619(M3), dated July 17, 2007.

St. Charles Refinery (Orion Refining Corporation) signed a Settlement Agreement with the Louisiana Department of Environmental Quality (LDEQ) on December 19, 2002. By this agreement, St. Charles Refinery agreed to implement the Benzene Waste Operations NESHAP (BWON) Enhancement Program, Leak Detection and Repair (LDAR) Program, Flaring Enhancement Program, Additional Program Enhancements, and Beneficial Environmental Projects (BEPs). The limitation and monitoring requirements for NO_X and SO_2 emissions from heaters, boilers, and the FCCU which are specified in the Additional Program Enhancements Section of the Settlement Agreement are incorporated in this permit.

On November 23, 2005, Valero also entered into a Consent Decree with the US-EPA and other states, including Louisiana. According to the Consent Decree, Valero will implement several projects to reduce emissions from the St. Charles Refinery.

Certain of the reporting requirements from the Valero Consent Decree were put in the facility-wide section (UNF001) of the permit. It requires the permittee to submit a report by March 31st of each year during the effective term of the Valero Consent Decree lodged June 16, 2005. For each heater equipped with a CEMS and either ULNB or SCR to achieve compliance with the Valero Consent Decree, the report shall include the following information: (1) EQT Number and source description, (2) Permitted NOx lb/MMBtu, (3) Permitted NOx tons per year, (4) Actual performance NOx lb/MMBtu for the previous calendar year, and (5) Actual emissions NOx, tons per year, for the previous calendar year.

II. Origin

A permit application dated March 20, 2008 as well as additional information dated May 16, June 16, and July 15, 2008 were received requesting a Part 70 operating permit modification.

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III. Description

St. Charles Refinery refines heavy, sour crude oil to produce gasoline, distillates (kerosene, naphtha, diesel, etc.), petrochemicals, sulfur, and petroleum coke. The crude feed stock is typically brought in via ship and the products are moved via barge or pipeline.

The refinery is divided into the West Plant, East Plant, and Tank Farm. The West Plant consists of the following units: Crude Unit No. 2, Vacuum Unit, Diesel Hydrotreater, Kerosene Hydrotreater, Light Straight Run Hydrotreater, Naphtha Hydrotreater, Heavy Cat Naphtha Hydrotreater, Continuous Catalytic Reformer, and Delayed Coker.

The East Plant consists of the following units: Fluid Catalytic Cracking Unit, Alkylation Unit, Utilities Unit (boilers, cooling towers, wastewater treatment unit, reverse osmosis unit, and river water clarification unit), Sulfur Recovery Units, Ultra Low Sulfur Diesel (ULSD) Unit, Liquefied Petroleum Gas (LPG) Storage and Processing, Steam Methane Reformer (SMR), and a gasoline desulfurization unit (GDU).

The Tank Farm includes the East Plant Tank Farm, West Plant Tank Farm, New Sarpy Tank Farm, Section I Tank Farm, Section II Tank Farm, Section III Tank Farm, Product Loading and Unloading Docks.

On February 8, 2007, Permit PSD-LA-619(M2) and 2520-00027-V4 were issued authorizing Valero Refining – New Orleans, LLC (Valero) to implement the Refinery Expansion Project to increase the St. Charles Refinery production capacity from 220,000 bbls/day to 380,000 bbls/day by installing new processing units and modifying existing production units. The permits were then amended and modified.

Valero proposes to significantly revise the scope of the Refinery Expansion Project. The revised project is known as the Revised Scope Refinery Expansion Project. Valero has revised the planned refinery expansion in conjunction with Valero's business plan for compliance with 40 CFR 80.1220, the federal Mobil Source Air Toxics (MSAT) II regulations, which requires Valero to significantly reduce benzene concentration in gasoline by December 31, 2010. Reducing benzene from gasoline will increase the aromatic production. Valero proposes to increase the size of the permitted Aromatic Recovery Unit (ARU). The ARU will consist of a Sulfolane extraction Unit, a Tatoray Process Unit and two Paraxylene Units.

Other changes include modification to the existing continuous reformer area (CCR) and installation of a new CRU, which will be collocated with the new ARU, and supporting facilities. While the CRU/CCR is traditional refinery process unit, the ARU is a SOCMI unit, thus the two units will be treated as distinct for regulatory applicability purposes. Firing rate of Heater 94-GDU and capacities of cooling towers will also be increased. New process drains will be added. Instead of constructing six heaters at the Hydrocracker

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Unit (HCU) as permitted, Valero will install only three units under a cap. Several sources previously permitted will not be constructed.

Valero also proposes to convert the existing MilliSecond Catalytic Cracking Unit (MSCCU) to a conventional Fluidized Catalytic Cracking Unit (FCCU) under the MSCCU Revamp Project. The conversion is expected to improve the reliability of the unit, thereby reducing unplanned outages with an anticipated corresponding increase in run time of approximately 516 hours/year. The conversion also reduces catalyst losses; therefore, it reduces particulate emissions. There is no increase in feed rate or increase in capacity. However, the revamp project is expected to allow a shift in yield, resulting in a potential increase gasoline yield from the cat cracker by 3000 barrels per day. The MSCCU Revamp Project is implemented along with but is independent from the Revised Scope Expansion Project. The PSD applicability analyses were conducted separately.

Other unrelated changes include revising the tank farm and its cap, consolidating emissions from wastewater into a single emission point (WWTU), and installing an additional thermal oxidizer for the SRU service. Permitted emissions from the refinery in tons per year are as follows:

Pollutant	Permitted	Proposed	Change
PM_{10}	1061.64	976.03	- 85.61
SO_2	3449.39	3041.65	- 407.74
NO_X	3451.09	2414.70	- 1036.39
CO	5595.01	5504.59	- 90.42
VOC	3648.33	3254.24	- 394.09
H_2S	79.65	69.60	- 10.05
H_2SO_4	23.10	23.09	- 0.01
Ammonia	21.23	139.90	+ 118.67
HCl	1.08	0.36	- 0.72
Chlorine	5.77	5.57	- 0.20
Metals	1.938	0.801	- 1.137

To minimize impact on the environment, Valero commits to reduce emissions from the refinery beyond requirements of MACT, BACT, and other state or federal standards. The selected control options include selective catalytic reduction (SCR) systems on large boilers and heaters, thermal oxidizers for vent streams from internal floating roof tanks, "leakless"/bellows valves for fugitive components, and flares for the ARU and other vent streams. However, the operations of the SCR systems will cause ammonia emissions to increase.

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IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. The refinery is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. On May 14, 2007, EPA proposed NSPS Subpart Ja and revisions to NSPS Subpart J. Parts of St. Charles Refinery are potentially subject to these newly proposed regulations. Valero will comply with all applicable provisions of these regulations upon promulgation.

Valero submitted a PSD analysis for the original Refinery Expansion Project in 2005. PSD Permit PSD-LA-619(M2) was issued on February 8, 2007 and was modified on July 17, 2007, for the expansion project. To implement the Revised Scope Refinery Expansion Project, Valero submitted a revised PSD analysis, date March 20, 2008, to incorporate 1) modified existing equipment, 2) modified permitted (but not constructed) equipment, 3) and newly proposed equipment. To perform the actual-to-projected-actual applicability test, Valero used actual emissions from the affected equipment during the 2003 and 2004 calendar years as baseline. The test indicated that the project will cause significant PM/PM_{10}, SO_2, NO_X, CO, VOC, H_2S, and H_2SO_4 emissions increases. Netting analyses are required for these pollutants. The contemporaneous period will be from the first quarter of 2002 (five years prior to the commencement of construction of first quarter of 2007) to the initial startup which is expected to be the first quarter of 2010. The netting analyses show that the project will cause significant net PM/PM_{10}, SO_2, NO_X, CO, VOC, H_2S, and H_2SO_4 emissions increases. According to LAC 33:III.509A.4.b, PSD analyses are required for these pollutants. The following table lists emissions from the Revised Scope Refinery Expansion Project in tons per year:

Pollutant	Baseline Emissions	Proposed Emissions	Actual-to Projected Actual	Contempo-raneous Changes	Net Emissions Changes	PSD Analysis Required?
PM/PM_{10}	19.87	899.89	880.02	+ 46.03	+ 926.05	Yes
SO_2	475.29	2274.59	1799.30	+ 225.41	+ 2024.71	Yes
NO_X	209.81	1883.99	1674.18	+ 255.31	+ 1929.48	Yes
CO	205.90	4657.46	4451.56	+ 685.37	+ 5136.93	Yes
VOC	324.08	2248.82	1924.74	+ 14.12	+ 1938.86	Yes
H_2S	57.12	82.14	25.02	0	+ 25.02	Yes
H_2SO_4	11.55	23.10	11.52	0	+ 11.52	Yes

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BACT analysis is required for all new and affected modified equipment. However, BACT determinations for emissions from affected equipment which was included in PSD Permit PSD-LA-619(M2) and will not be changed due to the Revised Scope Refinery Expansion Project are still valid. There are no H_2S or H_2SO_4 emissions increases from the newly proposed or modified equipment (due to the revised project); therefore, PSD analyses are not required for H_2S and H_2SO_4. PSD analyses, including BACT analysis, air quality analysis, and additional analysis were performed and are documented in Permit PSD-LA-619(M4).

Valero proposes to convert the MSCCU to a conventional FCCU. Emissions from the existing MSCCU and other affected equipment were reviewed under PSD regulations and documented in Permit PSD-LA-619(M2). The MSCCU Revamp Project is considered independent from the Refinery Expansion Project.

The MSCCU Revamp Project will cause PM/PM_{10}, SO_2, NO_X, CO, VOC and H_2SO_4 emissions to increase. Valero performed the actual-to-projected-actual applicability test for emissions from the MSCCU Revamp Project, which include emissions changes from the conversion of the MSCCU to the FCCU and any downstream effects of the 3000 barrel per day in gasoline yield increase. Average emissions from the 2005 and 2006 calendar years were used as baseline. The test showed that the MSCCU Revamp Project will not cause any significant emissions increases. Neither netting analysis nor PSD analysis is required for the MSCCU Revamp Project. However, PM_{10} and SO_2 emissions increases are more than 50 % of their respective significance levels, then there is a reasonable possibility that the project may result in significant emissions increases. Pre-project and post-project monitoring, record keeping, and reporting are required.

PSD limits of PM/PM_{10}, SO_2, NO_X, CO, VOC and H_2SO_4 emissions from the affected equipment will be updated and bring forward into Permit PSD-LA-619(M4). The following table lists emissions from the MSCCU Revamp Project in tons per year:

Pollutant	Baseline Emissions	Proposed Emissions	Actual-to-Projected-Actual	Demand Growth Exclusion	Net Emissions Changes	PSD Analysis Required?
PM/PM_{10}	230.39	289.34	+ 58.95	48.51	+ 10.44	No
SO_2	236.03	1571.84	+ 1335.81	1314.40	+ 21.41	No
NO_X	339.82	427.58	+ 87.76	119.92	- 32.16	No
CO	491.30	675.00	+ 183.70	175.11	+ 8.59	No
VOC	304.24	1229.68	+ 925.44	907.51	+ 17.93	No
H_2SO_4	3.10	11.54	+ 8.44	7.76	+ 0.68	No

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V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the proposed permit was published in *The Advocate*, Baton Rouge, Louisiana and in the *St. Charles Herald Guide*, Boutte, Louisiana, on XXXX, 2008. The notice was also mailed to individuals and organizations on the mailing list of the facility and published in the Office of Environmental Services Public Notice Mailing List. The permit application, the proposed permit, and the Statement of Basis were submitted to the Norco Branch – St. Charles Parish Library on XXXX, 2008. The proposed permit and the Statement of Basis were submitted to United States Environmental Protection Agency (US EPA) Region 6. All comments will be considered prior to a permit decision.

VII. Effects on Ambient Air

The refinery is a major source of all criteria pollutants. Emissions of criteria pollutants from the Revised Scope Refinery Expansion Project will be significantly less than the permitted original Refinery Expansion Project. Screening dispersion modeling for criteria pollutants emissions from the Revised Refinery Expansion Project indicated that the maximum off-site ground level concentrations of PM_{10}, SO_2, and NO_2 are higher than the modeling significance impact levels, refined modeling are required. However, both the area of impact (AOI) and the maximum offsite ground level concentrations of criteria pollutants emitted from the Revised Scope Refinery Expansion Project are less than those of criteria pollutants emitted from the original Refinery Expansion Project, except concentration of NO_2. Therefore, Valero uses the existing refined model (ISCST3) for PM_{10}, SO_2, and NO_2 to fulfill the modeling requirements. The refined dispersion modeling indicated that criteria emissions from the refinery will not cause or contribute to any National Ambient Air Quality Standards (NAAQS) exceedances.

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Pollutant	Averaging Period	Calculated Maximum Ground Level Concentration ($\mu g/m^3$)	NAAQS/AAS ($\mu g/m^3$)
PM_{10}	24-hour	54	150
	Annual	31	50
SO_2	3-hour	947	1300
	24-hour	362	365
	Annual	62	80
NO_2	Annual	71	100
CO	1-hour	(Screen) 694	40,000
	8-hour	(Screen) 175	10,000

VIII. General Condition XVII Activities

	Emission Rates – tons/year				
Description	PM_{10}	SO_2	NO_X	CO	VOC
Carbon Changeouts	1.70				0.02
Catalyst Changeouts	0.16				4.00
Compressor D.T.					5.00
Decoking	0.01	0.17	0.03	0.01	0.01
Equipment Cleaning/Preparation					3.30
Filter Changeouts					0.33
Sampling Procedures					0.09
Sludge Removal					1.10
Small Storage Containers					3.20
Tank Degassing – 2400 hrs/yr	0.60		2.07	4.83	0.60

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IX. Insignificant Activities - LAC 33:III.501.B.5

ID No.:	Description	Capacity	Citation
IA-30	Slop Oil Tank	< 10,000 gallons	A.3
IA-31	Firewater Pump Diesel Storage Tanks (6)	< 10,000 gallons	A.3
IA-32	Diesel Day Tanks	< 10,000 gallons	A.3
IA-33	Natural Gas Boiler	1 – 10 MM Btu/hr	A.1
IA-34	Caustic Tanks	N/A	B.40
IA-35	Natural Gas Heaters	< 1 MM Btu/hr each	A.5
IA-36	Natural Gas Space Heaters	< 2 MM Btu/hr each	A.5
IA-37	Diesel Portable Space Heaters	< 1 MM Btu/hr each	A.5
IA-38	Laboratory Equipment		A.6
IA-39	Drum Washing	≤ 55 gal; < 3% full	A.7
IA-40	Fresh Caustic Storage Tanks	N/A	B.40
IA-41	Painting		B.2
IA-42	Blasting		B.3

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.											LAC 33:III.Chapter									
		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5[A]	9	11	13	15	17	29	51*	56	59
EQT004	10-81 - Vacuum No. 2 Heater F-52-1A														1	1	1					
EQT005	11-81 - Vacuum No. 2 Heater F-52-1B														1	1	1					
EQT006	11-89 - Tank 37-1	1	3																	1		
EQT007	12-81 - Flare No. 2	1							3						1	1	1			1		
EQT008	12-89 - Tank 55-1	1	3																	1		
EQT010	13-81 - Cooling Tower 403																			1		
EQT012	14-81 - Coker No. 1 Heater No. 1 F-53-1A	1													1	1	1					
EQT013	15-77 - Flare No. 1	1							3						1	1	1			1		
EQT014	15-81 - Coker No. 1 Heater No. 2 F-53-1B	1													1	1	1					
EQT016	16-77 - FCCU No. 2 Regenerator	1													1	1	1			1		
EQT017	16-81 - Coker No. 1 Heater No. 3 F-53-1C	1													1	1	1					
EQT018	16-89 - Tank 55-8	1	3																	1		
EQT019	18-81 - Tank 625-1	1	1																	1		
EQT022	19-81 - Tank 625-2	1	1																	1		
EQT026	20-81 - Tank 625-3	1	1																	1		
EQT028	2004-1 - Hydro Treater Heater No. 1 H-60-1	1													1	1	1					
EQT029	2004-10 - Boiler 401-E	1													1	1	1					
EQT031	2004-2 - Hydro Treater Heater No. 2 H-60-2	1													1	1	1					
EQT032	2004-3 - Hydro Treater Heater No. 3 H-60-3	1													1	1	1					
EQT033	2004-4 - Hydro Treater Heater No. 4 H-60-4	1													1	1	1					
EQT034	2004-5A - Flare No. 3	1							3						1	1	1			1		
EQT035	2004-6 - Cooling Tower CT-600	1																		1		
EQT036	2004-7 – SMR 1 Heater No. 1	1													1	1	1			1		
EQT037	2004-8 - SMR 1 Heater No. 2	1													1	1	1			1		
EQT041	22-81 - Tank 425-1	1	1																	1		
EQT042	23-81 - Tank 425-2	1	1																	1		

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		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5[A]	9	11	13	15	17	29	51*	56	59
EQT043	24-81 - Tank 425-3	1	3																	1		
EQT044	25-81 - Tank 425-4	1	3																	1		
EQT045	26-81 - Tank 625-5	1	1																	1		
EQT046	27-81 - Tank 625-6	1	1																	1		
EQT047	28-81 - Tank 425-5	1	3																	1		
EQT048	29-81 - Tank 325-5	1	1																	1		
EQT049	30-81 - Tank 325-6	1	1																	1		
EQT050	31-81 - Tank 180-9	1	1																	1		
EQT051	32-81 - Tank 425-9	1	1																	1		
EQT052	36-81 - Coker No. 1 Heater No. 4 F-53-1D	1													1	1	1					
EQT054	4-81 – DHT Heater H-15-01A	1													1	1	1					
EQT055	5-76 - Cooling Tower 402																			1		
EQT056	5-81 – DHT Heater H-15-01B	1													1	1	1					
EQT057	5-83 - Coke Handling	1														1				1		
EQT058	6-76 - Cooling Tower 401																			1		
EQT059	6-77 - Heater F-33-01														1	1	1					
EQT060	6-81 - HDS No. 1 Heater H-15-05	1													1	1	1					
EQT066	94-10 - Tank 45-1	1	1																	1		
EQT067	94-11 - Tank 45-2	1	1																	1		
EQT068	94-12 - Tank 150-24	1	1																	1		
EQT069	94-13 - Tank 150-25	1	1																	1		
EQT074	94-18 - Tank 118-1	1	1																	1		
EQT075	94-2 - Cooling Tower 800																			1		
EQT076	94-21 – Heater F-33-05	1													1	1						
EQT077	94-28 – Heater H-39-03	1													1	1	1					
EQT078	94-29 – Heater H-39-01	1													1	1	1					

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		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5▲	9	11	13	15	17	29	51*	56	59
EQT079	94-30 - Heater H-39-02	1													1	1	1					
EQT080	94-43 - Boiler B-401C	1													1	1	1					
EQT081	94-45 - Boiler B-401D	1													1	1	1					
EQT082	94-47 - Cooling Tower CT-405																			1		
EQT083	94-48 - Cooling Tower																			1		
EQT084	94-49 - Cooling Tower																			1		
EQT085	94-50 - Tank 150-26	1	1																	1		
EQT086	94-51 - Tank 150-27	1	1																	1		
EQT087	94-52 - Tank 150-22	1	3																	1		
EQT088	94-53 - Tank 150-23	1	3																	1		
EQT089	94-57 – Fleet Diesel Storage	1	3																	1		
EQT090	94-58 – Fleet Gasoline Storage	1	3																	1		
EQT091	94-59 - Tank 67-1	1	1																	1		
EQT092	94-9 - Petroleum Product Loading Docks	1			1															1		
EQT093	94-CCR - CCR Heater														1	1	1					
EQT094	94-GDU - Low Sulfur Gasoline Unit Heater														1	1	1					
EQT095	96-2 - Sulfuric Acid Tank	1																		1		
EQT097	96-4 - Sulfuric Acid Tank T-1403	1																		1		
EQT099	96-6 - Tank T-04-32	1	1																	1		
EQT103	98-113 - Tank V-28-4	1	3																	1		
EQT104	98-114 - Sulfuric Acid Storage	1																		1		
EQT105	98-115 - Sulfuric Acid Loading	1																		1		
EQT134	98-40 - Tank 41	1	3																	1		
EQT135	98-41 - Tank 50-1	1																		1		
EQT136	98-42 - Tank 50-2	1																		1		
EQT137	98-43 - Tank 50-3	1																		1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ST. CHARLES REFINERY
AGENCY INTEREST NO. 26003
VALERO REFINING – NEW ORLEANS, LLC
NEW SARPY, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.											LAC 33:III.Chapter									
		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5[A]	9	11	13	15	17	29	51*	56	59
EQT142	98-48 - Tank 55-5	1	3																	1		
EQT143	98-49 - Tank 55-6	1	3																	1		
EQT146	98-52 - Tank 57	1	3																	1		
EQT148	98-54 - Tank 75	1	3																	1		
EQT149	98-55 - Tank 76	1	3																	1		
EQT150	98-56 - Tank 77	1	3																	1		
EQT151	98-57 - Tank 78	1	3																	1		
EQT154	98-60 - Tank 80-1	1	3																	1		
EQT155	98-61 - Tank 80-3	1	3																	1		
EQT156	98-62 - Tank 80-4	1	3																	1		
EQT157	98-63 - Tank 81	1	3																	1		
EQT160	98-66 - Tank 130-1	1	1																	1		
EQT161	98-67 - Tank 130-2	1	1																	1		
EQT162	98-68 - Tank 130-3	1	1																	1		
EQT164	98-70 - Tank 130-5	1	1																	1		
EQT165	98-71 - Tank 130-6	1	1																	1		
EQT166	98-72 - Tank 130-7	1	3																	1		
EQT167	98-73 - Tank 130-8	1	3																	1		
EQT168	98-74 - Tank 130-9	1	3																	1		
EQT169	98-75 - Tank 150-1	1	1																	1		
EQT170	98-76 - Tank 150-2	1	1																	1		
EQT171	98-77 - Tank 150-3	1	3																	1		
EQT172	98-78 - Tank 150-4	1	3																	1		
EQT173	98-79 - Tank 150-5	1	3																	1		
EQT174	98-80 - Tank 150-6	1	3																	1		
EQT175	98-81 - Tank 150-7	1	3																	1		

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		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5▲	9	11	13	15	17	29	51*	56	59
EQT176	98-82 - Tank 150-8	1	3																	1		
EQT178	98-84 - Tank 150-17	1	3																	1		
EQT179	98-85 - Tank 150-18	1	1																	1		
EQT180	98-86 - Tank 150-19	1	1																	1		
EQT181	98-87 - Tank 150-20	1	3																	1		
EQT182	98-88 - Tank 150-21	1	3																	1		
EQT183	98-89 - Tank 175-1	1	3																	1		
EQT184	98-9 - Tank Truck/Rail Car Loading	1		1							1									1		
EQT186	98-91 - Tank 325-1	1	1																	1		
EQT187	98-92 - Tank 325-2	1	1																	1		
EQT188	98-93 - Tank 325-3	1	1																	1		
EQT189	98-94 - Tank 325-4	1	1																	1		
EQT195	99-3 - Thermal Oxidizer No. 2	1													1	1	1			1		
EQT196	99-4 - Thermal Oxidizer No. 3	1													1	1	1			1		
EQT198	99-6 - Tank V-10-13	1	1																	1		
EQT199	99-7 - Tank V-10-14	1	1																	1		
EQT200	99-8 - CCR Vent Gas Wash Tower	1																				
EQT203	2005-1 - Crude 2 Heater B	1													1	1	1					
EQT204	2005-2 - VAC 2 Charge Heater	1													1	1	1					
EQT205	2005-3 - COKER 2 Charge Heater	1													1	1	1					
EQT210	2005-8 – H001 1st Stage Charge Heater	1													1	1	1					
EQT211	2005-9 – H002 2nd Stage Charge Heater	1													1	1	1					
EQT212	2005-10 – H003 Fractionator Charge Heater	1													1	1	1					
EQT224	2005-22 - GDU 2 Heater	1													1	1	1					
EQT225	2005-23 - HCU 2 1st Stage Charge Heater	1													1	1	1					
EQT226	2005-24 - HCU 2 2nd Stage Charge Heater	1													1	1	1					

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		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5[A]	9	11	13	15	17	29	51*	56	59
EQT227	2005-25 - HCU 2 Absorber/Dec 2 Reboiler	1													1	1	1					
EQT228	2005-26 - HCU 2 Naphtha Splitter Reboiler	1													1	1	1					
EQT229	2005-27 - HCU 2 Recycle Splitter Reboiler	1													1	1	1					
EQT230	2005-28 - LEU 2 Dec 4 Reboiler	1													1	1	1					
EQT237	2005-35 - PENEX Rx Feed Heater	1													1	1	1					
EQT238	2005-36 - PENEX Dryer Regenerator Heater	1													1	1	1					
EQT239	2005-37 - PENEX Mole Sieve Regenerator Heater	1													1	1	1					
EQT240	2005-38 - Flare No. 5	1							3						1	1	1			1		
EQT241	2005-39 - Thermal Oxidizer No. 1	1													1	1	1			1		
EQT242	2005-40 - FCCU 3 Regenerator	1													1	1	1			1		
EQT243	2005-42 - HCU Cooling Tower	1																		1		
EQT244	2005-43 - New West Plant Cooling Tower	1																		1		
EQT245	2005-53 - Light Materials Tank	1	1																	1		
EQT246	2005-54 - Sour Water Tank	1	1																	1		
EQT249	2005-57 - Sulfur Loading	1																				
EQT250	2005-58 - Coker No. 1 Steam Vent	1																				
EQT251	2005-59 - Coker No. 2 Steam Vent	1																				
EQT252	01-02 - Diesel Engines														1	1	1					
EQT254	PV – Process Vents	1																		1		
EQT255	WW – Wastewater Collection and Conveyance	1																		1		
EQT312	Fuel Gas – Refinery Fuel Gas System																					
EQT313	2007-4 - Thermal Oxidizer No. 4	1													1	1	1			1		
EQT314	2008-1 - CRU H1	1													1	1	3					
EQT315	2008-2 - CRU H2, H4, and H5	1													1	1	1			1		
EQT316	2008-3 - CRU H3	1													1	1	1			1		
EQT317	2008-4 - TPU H1	1													1	1	3					

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		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5▲	9	11	13	15	17	29	51*	56	59
EQT318	2008-5 - TPU H2	1													1	1	3					
EQT319	2008-6 - PEU No. 1 H1	1													1	1	1			1		
EQT320	2008-7 - PEU No. 1 H2	1													1	1	3					
EQT321	2008-8 - PEU No. 2 H1	1													1	1	1			1		
EQT322	2008-9 - PEU No. 2 H2	1													1	1	3					
EQT323	2008-10 - Boiler 401-F	1													1	1	1			1		
EQT324	2008-11 - Boiler 401-G	1													1	1	1			1		
EQT325	2008-12 - Hydrocracked Naphtha Import Tank, EFR	1	1																	1		
EQT326	2008-13 - Hydrocracked Naphtha Import Tank, EFR	1	1																	1		
EQT327	2008-14 - Benzene Concentrate Import Tank, IFR	1	1																	1		
EQT328	2008-15 - Benzene Concentrate Import Tank, IFR	1	1																	1		
EQT329	2008-16 - Heavy Reformate / Off-Spec Product Tank	1	1																	1		
EQT330	2008-17 - Rotating Spare Intermediate Tank, IFR	1	3																	1		
EQT331	2008-18 - Sulfolane Solvent Tank, IFR	1	3																	1		
EQT332	2008-19 - Sulfolane Plant Inventory Tank, IFR	1	1																	1		
EQT333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR	1	1																	1		
EQT334	2008-21 - Parex Desorbent Tank, IFR	1	3																	1		
EQT335	2008-22 - Parex Plant Inventory Tank, IFR	1	3																	1		
EQT336	2008-23 - Benzene Day Tank, IFR	1	1																	1		
EQT337	2008-24 - Benzene Day Tank, IFR	1	1																	1		
EQT338	2008-25 - Para-Xylene Day Tank, IFR	1	3																	1		
EQT339	2008-26 - Para-Xylene Day Tank, IFR	1	3																	1		
EQT340	2008-27 - Benzene Product Tank, IFR	1	1																	1		
EQT341	2008-28 - Benzene Product Tank, IFR	1	1																	1		
EQT342	2008-29 - Para-Xylene Product Tank, IFR	1	3																	1		
EQT343	2008-30 - Para-Xylene Product Tank, IFR	1	3																	1		

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ID No.:	Description	LAC 33:III.											LAC 33:III.Chapter									
		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5[A]	9	11	13	15	17	29	51*	56	59
EQT344	2008-31 - Raffinate Tank, EFR	1	1																	1		
EQT345	2008-32 - Thermal Oxidizer No. 5	1													1	1	3			1		
EQT346	2008-33 - Thermal Oxidizer No. 6	1													1	1	3			1		
EQT347	2008-34 - Thermal Oxidizer No. 7	1													1	1	3			1		
EQT348	2008-35 - ARU Cooling Tower	1																		1		
EQT350	94-8 - MVR Thermal Oxidizer No. 1	1			1										1	1	3			1		
EQT351	2008-38 - MVR Thermal Oxidizer No. 2	1			1										1	1	3			1		
EQT352	2008-40 - Boiler 401-H	1													1	1	1			1		
EQT353	2008-41 - Thermal Oxidizer No. 8	1													1	1	3			1		
EQT354	2008-43 - Heavy Reformate Tank, IFR	1	1																	1		
EQT355	2008-44 – Tank T-13-15, EFR	1	1																	1		
EQT356	2008-45 – Tank T-04-33, EFR	1	1																	1		
EQT357	2008-46 – ARU Railcar Loading Rack	1		1																1		
EQT358	SRU SU/SD - SRUs Startups and Shutdowns	1																				
EQT359	WWTU - Wastewater Treatment Unit	1																		1		
EQT360	2004-5B - Flare No. 4	1							3						1	1	1			1		
EQT361	API-S – API Separator	1																		1		
EQT362	DGF – Dissolved Gas Flotation	1																		1		
EQT363	ARUML – ARU Marine Loading	1			1															1		
EQT364	2008-47 – CCR Chlorosorb Vent	1																		1		
EQT365	2008-48 – CCR Dust Collector Vent	1																		1		
EQT369	CRUIDS - New CRU Individual Drain System	1																		1		
EQT370	CCG1 - Subpart CC Group 1 Miscellaneous Process Vents	1																		1		
EQT371	CCG2 - Subpart CC Group 2 Miscellaneous Process Vents	1																		1		
EQT372	2008-36 - ARU Flare	1													1	1	3			1		
FUG025	Road Dust 05 - Road Dust Emissions	1														1						

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.											LAC 33:III.Chapter									
		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5▲	9	11	13	15	17	29	51*	56	59
FUG026	91-0 – Refinery Fugitive Emissions	1					1			1										1		
FUG027	2008-39 - ARU - Fugitive Emissions	1					1			1										1		
FUG029	2008-37 -ARU Marine Loading Dock Fugitive Emissions	1					1													1		
TRT001	17-77 - SRU No. 1	1																		1		
TRT002	94-3 - SRU No. 2	1																		1		
TRT003	94-4 - SRU No. 3	1																		1		
TRT006	2005-60 - SRU No. 4	1																		1		
CRG001	CCG1 – Tanks Common Requirements	1	1																	1		
CRG002	CCG2 – Group 2 Tanks Common Requirements	1	3																	1		
CRG003	KBG1 – EFR Tanks Common Requirements	1	1																	1		
CRG004	HEATER4 – Heaters Common Requirements	1													1	1	1					
CRG005	HEATER5 – Heaters Common Requirements	1													1	1	1					
CRG007	HONG2 –Tanks Common Requirements	1																		1		
CRG008	HONG1 – Tanks Common Requirements	1																		1		
CRG009	NEWCCG1 - Tanks Common Requirements	1	1																	1		
CRG010	CRG010 – Small Heaters Common Requirements	1													1	1	3					
CRG011	BOILERS – Boilers Common Requirements	1													1	1	1					
CRG012	CRG012 – IFR Tanks Common Requirements	1																		1		
CRG013	CWT – Cooling Towers Common Requirements	1																		1		
CRG014	MSCCRVP – MSCC Revamp Project																					
GRP005	COKERCAP - Coker Heater Cap and Common Requirements	1													1	1	1					
GRP006	FLARECAP – Flare Emissions Cap and Common Requirements	1													1	1	1					
GRP007	SRU/TOCAP - SRU/TO Cap and Common Requirements	1													1	1	1					
GRP008	TANKCAP - Tank Summary																					
GRP012	ULSDCAP - ULSD Heater Cap and Common Requirements	1													1	1	1					
GRP013	DHTCAP – DHT Heater Cap and Common Requirements	1													1	1	1					

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		509	2103	2107	2108	2109	2111	2113	2115	2121	2135	2141	5▲	9	11	13	15	17	29	51*	56	59
GRP015	HCU1CAP – HCU1 Heater Cap and Common Requirements	1													1	1	1					
GRP016	HCU2/LEU3CAP - HCU2/LEU3 Heater Cap & CR	1													1	1	1					
GRP018	TANKTOCAP – TANKTO Cap and Common Requirements	1													1	1	1			1		
SCN002	VACCAP-SCN2 – Vacuum Heater Cap & CR														1	1	1			1		
SCN003	7-81-SCN3 - Heater F-72-703	1													1	1	1					
SCN004	3-81-SCN4 - Boiler 804														1	1	1					
SCN005	2004-7-SCN5 – SMR 1 Heater No. 1																					
SCN006	2004-8-SCN6 - SMR 1 Heater No. 2																					
UNF001	St. Charles Refinery	1						1				1	1	1					1	1	1	1

KEY TO MATRIX

1 - The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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ID No.:	Description	40 CFR 60															40 CFR 61							40 CFR 63											40CFR	
		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT004	10-81 - Vacuum No. 2 Heater F-52-1A																																			
EQT005	11-81 - Vacuum No. 2 Heater F-52-1B																																			
EQT006	11-89 - Tank 37-1						2																	1							1					
EQT007	12-81 - Flare No. 2	1																						1							1				2	
EQT008	12-89 - Tank 55-1						3																	1							1					
EQT010	13-81 - Cooling Tower 403																											3								
EQT012	14-81 - Coker No. 1 Heater No. 1 F-53-1A																																			
EQT013	15-77 - Flare No. 1	1																						1							1				2	
EQT014	15-81 - Coker No. 1 Heater No. 2 F-53-1B																																			
EQT016	16-77 - FCCU No. 2 Regenerator	1			1																			1								1				
EQT017	16-81 - Coker No. 1 Heater No. 3 F-53-1C																																			
EQT018	16-89 - Tank 55-8								3															1							1					
EQT019	18-81 - Tank 625-1							2																1							1					
EQT022	19-81 - Tank 625-2	1							1															1							1					
EQT026	20-81 - Tank 625-3	1							1															1							1					
EQT028	2004-1 - Hydro Treater Heater No. 1 H-60-1																																			
EQT029	2004-10 - Boiler 401-E	1		1																																
EQT031	2004-2 - Hydro Treater Heater No. 2 H-60-2																																			
EQT032	2004-3 - Hydro Treater Heater No. 3 H-60-3																																			
EQT033	2004-4 - Hydro Treater Heater No. 4 H-60-4																																			
EQT034	2004-5A - Flare No. 3	1																						1							1					
EQT035	2004-6 - Cooling Tower CT-600																											3								
EQT036	2004-7 – SMR 1 Heater No. 1	1			1																														1	
EQT037	2004-8 - SMR 1 Heater No. 2	1			1																														1	
EQT041	22-81 - Tank 425-1							2																1							1					
EQT042	23-81 - Tank 425-2							2																1							1					

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		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT043	24-81 - Tank 425-3							2																1							1					
EQT044	25-81 - Tank 425-4							2																1							1					
EQT045	26-81 - Tank 625-5	1							1															1							1					
EQT046	27-81 - Tank 625-6	1							1															1							1					
EQT047	28-81 - Tank 425-5								3															1							1					
EQT048	29-81 - Tank 425-6	1							1															1							1					
EQT049	30-81 - Tank 425-7	1							1															1							1					
EQT050	31-81 – Tank 180-9	1							1															1							1					
EQT051	32-81 - Tank 425-9	1							1															1							1					
EQT052	36-81 - Coker No. 1 Heater No. 4 F-53-1D																																			
EQT054	4-81 - H-15-01A																																			
EQT055	5-76 - Cooling Tower 402																											3								
EQT056	5-81 - H-15-01B																																			
EQT057	5-83 - Coke Handling																																			
EQT058	6-76 - Cooling Tower 401																											3								
EQT059	6-77 - Heater F-33-01																																			
EQT060	6-81 - HDS No. 1 Heater H-15-05																																			
EQT066	94-10 - Tank 45-1	1							1															1							1					
EQT067	94-11 - Tank 45-2	1							1															1							1					
EQT068	94-12 - Tank 150-24	1							1															1							1					
EQT069	94-13 - Tank 150-25	1							1															1							1					
EQT074	94-18 - Tank 118-1	1							1					2										1							1					
EQT075	94-2 - Cooling Tower 800																											3								
EQT076	94-21 – Heater F-33-05																																			
EQT077	94-28 – Heater H-39-03																																			
EQT078	94-29 – Heater H-39-01																																			

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EQT079	94-30 - Heater H-39-02																																		
EQT080	94-43 - Boiler B-401C	1	1																																
EQT081	94-45 - Boiler B-401D	1	1																																
EQT082	94-47 - Cooling Tower CT-405																										3								
EQT083	94-48 - Cooling Tower																										3								
EQT084	94-49 - Cooling Tower																										3								
EQT085	94-50 - Tank 150-26	1							1														1							1					
EQT086	94-51 - Tank 150-27	1							1														1							1					
EQT087	94-52 - Tank 150-22								3														1							1					
EQT088	94-53 - Tank 150-23								3														1							1					
EQT089	94-57 - Fleet Diesel Storage								3														1							1					
EQT090	94-58 - Fleet Diesel Storage								3														1							1					
EQT091	94-59 - Tank 67-1	1							1														1							1					
EQT092	94-9 - Petroleum Product Loading Docks																						1							1					
EQT093	94-CCR - CCR Heater																																		
EQT094	94-GDU - Low Sulfur Gasoline Unit Heater																																		
EQT095	96-2 - Sulfuric Acid Tank																																		
EQT097	96-4 - Sulfuric Acid Tank T-1403																																		
EQT099	96-6 - Tank 04-32	1							1														1							1					
EQT103	98-113 - Tank V-28-4						3																1							1					
EQT104	98-114 - Sulfuric Acid Storage																																		
EQT105	98-115 - Sulfuric Acid Loading																																		
EQT134	98-40 - Tank 41						3																1							1					
EQT135	98-41 - Tank 50-1																																		
EQT136	98-42 - Tank 50-2																						1							1					
EQT137	98-43 - Tank 50-3																						1							1					

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NEW SARPY, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60															40 CFR 61							40 CFR 63											40CFR	
		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT142	98-48 - Tank 55-5						3																	1							1					
EQT143	98-49 - Tank 55-6						3																	1							1					
EQT146	98-52 - Tank 57						3																	1							1					
EQT148	98-54 - Tank 75						3																	1							1					
EQT149	98-55 - Tank 76						3																	1							1					
EQT150	98-56 - Tank 77						3																	1							1					
EQT151	98-57 - Tank 78						3																	1							1					
EQT154	98-60 - Tank 80-1						3																	1							1					
EQT155	98-61 - Tank 80-3						3																	1							1					
EQT156	98-62 - Tank 80-4						3																	1							1					
EQT157	98-63 - Tank 81						3																	1							1					
EQT160	98-66 - Tank 130-1						3																	1		1					1					
EQT161	98-67 - Tank 130-2						3																	1		1					1					
EQT162	98-68 - Tank 130-3						3																	1		1					1					
EQT164	98-70 - Tank 130-5						3																	1		1					1					
EQT165	98-71 - Tank 130-6						3																	1		1					1					
EQT166	98-72 - Tank 130-7						3																	1							1					
EQT167	98-73 - Tank 130-8						3																	1							1					
EQT168	98-74 - Tank 130-9						3																	1							1					
EQT169	98-75 - Tank 150-1						3		1															1							1					
EQT170	98-76 - Tank 150-2								1															1							1					
EQT171	98-77 - Tank 150-3						3		1															1							1					
EQT172	98-78 - Tank 150-4						2																	1							1					
EQT173	98-79 - Tank 150-5						2																	1							1					
EQT174	98-80 - Tank 150-6						2																	1							1					
EQT175	98-81 - Tank 150-7						2																	1							1					

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60															40 CFR 61							40 CFR 63											40CFR	
		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT176	98-82 - Tank 150-8						2																	1							1					
EQT178	98-84 - Tank 150-17							2																1							1					
EQT179	98-85 - Tank 150-18							2																1		1					1					
EQT180	98-86 - Tank 150-19							2																1		1					1					
EQT181	98-87 - Tank 150-20								1															1							1					
EQT182	98-88 - Tank 150-21						2																	1							1					
EQT183	98-89 - Tank 175-1							2																1							1					
EQT184	98-9 - Tank Truck/Rail Car Loading										3													1					1		1					
EQT186	98-91 - Tank 325-1							2																1		1					1					
EQT187	98-92 - Tank 325-2							2																1		1					1					
EQT188	98-93 - Tank 325-3							2																1		1					1					
EQT189	98-94 - Tank 325-4	1							1															1							1					
EQT195	99-3 - Thermal Oxidizer No. 2	1			1																			1								1				
EQT196	99-4 - Thermal Oxidizer No. 3	1			1																			1								1				
EQT198	99-6 - Tank V-10-13						3																								3					
EQT199	99-7 - Tank V-10-14						3																								3					
EQT200	99-8 - CCR Vent Gas Wash Tower																							1								1				
EQT203	2005-1 - Crude 2 Heater B																																			
EQT204	2005-2 - VAC 2 Charge Heater																																			
EQT205	2005-3 - COKER 2 Charge Heater																																			
EQT210	2005-8 – H001 1st Stage Charge Heater																																			
EQT211	2005-9 – H002 2nd Stage Charge Heater																																			
EQT212	2005-10 – H003 Fractionator Charge Heater																																			
EQT224	2005-22 - GDU 2 Heater																																			
EQT225	2005-23 - HCU 2 1st Stage Charge Heater																																			
EQT226	2005-24 - HCU 2 2nd Stage Charge Heater																																			

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60															40 CFR 61							40 CFR 63											40CFR	
		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT227	2005-25 - HCU 2 Absorber/Dec 2 Reboiler																																				
EQT228	2005-26 - HCU 2 Naphtha Splitter Reboiler																																				
EQT229	2005-27 - HCU 2 Recycle Splitter Reboiler																																				
EQT230	2005-28 - LEU 2 Dec 4 Reboiler																																				
EQT237	2005-35 - PENEX Rx Feed Heater																																				
EQT238	2005-36 - PENEX Dryer Regenerator Heater																																				
EQT239	2005-37- PENEX Mole Sieve Regenerator Heater																																				
EQT240	2005-38 - Flare No. 5	1			1																			1							1				2	
EQT241	2005-39 - Thermal Oxidizer No. 3	1			1																			1								1				
EQT242	2005-40 - FCCU 3 Regenerator	1			1																			1								1				
EQT243	2005-42 - HCU Cooling Tower																											3								
EQT244	2005-43 - New West Plant Cooling Tower																											3								
EQT245	2005-53 - Light Materials Tank								2															1							1					
EQT246	2005-54 - Sour Water Tank								2															1							1					
EQT249	2005-57 - Sulfur Loading																																				
EQT250	2005-58 - Coker No. 1 Steam Vent																																				
EQT251	2005-59 - Coker No. 2 Steam Vent																																				
EQT252	01-02 - Diesel Engines																																	1			
EQT254	PV – Process Vents																																				
EQT255	WW – Wastewater Collection and Conveyance																																				
EQT312	Fuel Gas – Refinery Fuel Gas System	1			1																																
EQT313	2007-4 - Thermal Oxidizer No. 4	1			1																			1								1				
EQT314	2008-1 - CRU H1																																				
EQT315	2008-2 - CRU H2, H4, and H5																																		1		
EQT316	2008-3 - CRU H3																																		1		
EQT317	2008-4 - TPU H1																																				

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		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR	A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT318	2008-5 - TPU H2																																	1	
EQT319	2008-6 - PEU No. 1 H1																																		
EQT320	2008-7 - PEU No. 1 H2																																	1	
EQT321	2008-8 - PEU No. 2 H1																																		
EQT322	2008-9 - PEU No. 2 H2																																	1	
EQT323	2008-10 - Boiler 401-F	1		1																														1	
EQT324	2008-11 - Boiler 401-G	1		1																															
EQT325	2008-12 - Hydrocracked Naphtha Import Tank, EFR								2														1							1					
EQT326	2008-13 - Hydrocracked Naphtha Import Tank, EFR								2														1							1					
EQT327	2008-14 - Benzene Concentrate Import Tank, IFR								2											2			1		1										
EQT328	2008-15 - Benzene Concentrate Import Tank, IFR								2											2			1		1										
EQT329	2008-16 - Heavy Reformate/Off-Spec Product Tank								2														1							1					
EQT330	2008-17 - Rotating Spare Intermediate Tank, IFR								2														1		1										
EQT331	2008-18 - Sulfolane Solvent Tank, IFR								2														1		1										
EQT332	2008-19 - Sulfolane Plant Inventory Tank, IFR								2											2			1		1										
EQT333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR								2											2			1		1										
EQT334	2008-21 - Parex Desorbent Tank, IFR								3														1		1										
EQT335	2008-22 - Parex Plant Inventory Tank, IFR								2														1		1										
EQT336	2008-23 - Benzene Day Tank, IFR								2											2			1		1										
EQT337	2008-24 - Benzene Day Tank, IFR								2											2			1		1										
EQT338	2008-25 - Para-Xylene Day Tank, IFR								3														1		1										
EQT339	2008-26 - Para-Xylene Day Tank, IFR								3														1		1										
EQT340	2008-27 - Benzene Product Tank, IFR								2											2			1		1										
EQT341	2008-28 - Benzene Product Tank, IFR								2											2			1		1										
EQT342	2008-29 - Para-Xylene Product Tank, IFR								3														1		1										
EQT343	2008-30 - Para-Xylene Product Tank, IFR								3														1		1										

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X. Applicable Louisiana and Federal Air Quality Requirements

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		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
EQT344	2008-31 - Raffinate Tank, EFR								2												2			1		1										
EQT345	2008-32 - Thermal Oxidizer No. 5																							1		1									3	
EQT346	2008-33 - Thermal Oxidizer No. 6																							1		1									3	
EQT347	2008-34 - Thermal Oxidizer No. 7																							1		1									3	
EQT348	2008-35 - ARU Cooling Tower																							1	1			3								
EQT350	94-8 - MVR Thermal Oxidizer No. 1																							1							1					
EQT351	2008-38 - MVR Thermal Oxidizer No. 2																1					1								2			3		1	
EQT352	2008-40 - Boiler 401-H	1		1																															1	
EQT353	2008-41 - Thermal Oxidizer No. 8																1						1													
EQT354	2008-43 - Heavy Reformate Tank, IFR								2															1							1					
EQT355	2008-44 – Tank T-13-15, EFR								2					2										1							1					
EQT356	2008-45 – Tank T-04-33, EFR								2															1							1					
EQT357	2008-46 – ARU Railcar Loading Rack																							1		1										
EQT358	SRU SU/SD - SRUs Startups and Shutdowns																																			
EQT359	WWTU - Wastewater Treatment Unit																1						1													
EQT360	2004-5B - Flare No. 4	1																						1							1					
EQT361	API-S – API Separator																1						1													
EQT362	DGF – Dissolved Gas Flotation																1						1													
EQT363	ARUML – ARU Marine Loading																1					1								3						
EQT364	2008-47 – CCR Chlorosorb Vent																															1				
EQT365	2008-48 – CCR Dust Collector Vent																															1				
EQT369	CRUIDS - New CRU Individual Drain System	1												1			1						1													
EQT370	CCG1 - Subpart CC Group 2 Miscellaneous Process Vents																							1							1					
EQT371	CCG2 - Subpart CC Group 2 Miscellaneous Process Vents																							1							1					
EQT372	2008-36 - ARU Flare	1																																		
FUG025	Road Dust 05 - Road Dust Emissions																																			

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X. Applicable Louisiana and Federal Air Quality Requirements

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		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
FUG026	91-0 - Refinery Fugitive Emissions											1																			1					
FUG027	2008-39 – ARU Fugitive Emissions									1		2						3		2				1			1				1					
FUG029	2008-37 - ARU Marine Loading Dock Fugitives																	1		1	1	1		1			2									
TRT001	17-77 - SRU No. 1	1			1																			1								1				
TRT002	94-3 - SRU No. 2	1			1																			1								1				
TRT003	94-4 - SRU No. 3	1			1																			1								1				
TRT006	2005-60 - SRU No. 4	1			1																			1								1				
CRG001	CCG1 – Tanks Common Requirements							2																1								1				
CRG002	CCG2 – Group 2 Tanks Common Requirements						2																	1								1				
CRG003	KBG1 – EFR Tanks Common Requirements	1							1															1								1				
CRG004	HEATER4 – Heaters Common Requirements																																			
CRG005	HEATER5 – Heaters Common Requirements																																		1	
CRG007	HONG2 –Tanks Common Requirements																							1		1										
CRG008	HONG1 – Tanks Common Requirements																							1		1										
CRG009	NEWCCG1 - Tanks Common Requirements																							1								1				
CRG010	CRG010 – Small Heaters Common Requirements																																			
CRG011	BOILERS – Boilers Common Requirements	1		1																															1	
CRG012	CRG012 – IFR Tanks Common Requirements																							1		1										
CRG013	CWT – Cooling Towers Common Requirements																																			
CRG014	MSCCRVP – MSCC Revamp Project																																			
GRP005	COKERCAP - Coker Heater Cap & CR																																			
GRP006	FLARECAP – Flare Emissions Cap & CR	1																						1							1					
GRP007	SRU/TOCAP - SRU/TO Cap & CR	1			1																			1								1				
GRP008	TANKCAP - Tank Summary																																			
GRP012	ULSDCAP - ULSD Heater Cap and Common Requirements																																			
GRP013	DHTCAP – DHT Heater Cap and Common Requirements																																			

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X. Applicable Louisiana and Federal Air Quality Requirements

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		A	D	Db	J	Ja	K	Ka	Kb	VV	XX	GGG	NNN	QQQ	RRR		A	J	M	V	Y	BB	FF	A	F	G	H	Q	R	Y	CC	UUU	4E	4Z	64	68
GRP015	HCU1CAP – HCU1 Heater Cap & CR																																			
GRP016	HCU2/LEU3CAP - HCU2/LEU3 Heater Cap & CR																																			
GRP018	TANKTOCAP – TANKTO Cap and Common Requirements																							1		1										
SCN002	VACCAP-SCN2 – Vacuum Heater Cap & CR																																			
SCN003	7-81-SCN3 - Heater F-72-703																																			
SCN004	3-81-SCN4 - Boiler 804		3																																	
SCN005	2004-7-SCN5 – SMR 1 Heater No. 1																																			
SCN006	2004-8-SCN6 - SMR 1 Heater No. 2																																			
UNF001	St. Charles Refinery	1																		1	1		1	1								1		1		1

KEY TO MATRIX

1 - The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
CRG001	40 CFR 60 Subpart Ka or Ka	Exempt	40 CFR 63.640(n)(5)	Subject to 40 CFR 63 Subpart CC or Do not meet criteria (construction date, vapor pressure, or volume)
CRG002, CRG012	LAC 33:III.2103. Storage of VOC	Does not apply	LAC 33:III.2103.A	Vapor Pressure < 1.5 psia
	40 CFR 60 Subpart K or Ka or Kb	Does not apply	40 CFR 63.640(n)(7)	Subject to 40 CFR 63 Subparts CC or G or do not meet criteria
CRG004, CRG005, CRG011 GRP005, GRP010, GRP012	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO_2 emissions < 250 tons/year
GRP013, GRP015, GRP016	LAC 33:III.1511 CEM for SO_2	Exempt	LAC 33:III.1511.A	SO_2 emissions < 100 tons/year
CRG007	40 CFR 60 Subpart Kb	Exempt	40 CFR 63.110(b)(1)	Subject to 40 CFR 63 Subpart G or Vapor pressure < 0.51 psia
CRG008	40 CFR 60 Subpart Kb	Exempt	40 CFR 63.110(b)(1)	Subject to 40 CFR 63 Subpart G
	40 CFR 61 Subpart Y	Exempt	40 CFR 63.110(b)(2)	Subject to 40 CFR 63 Subpart G
CRG009	40 CFR 60 Subpart Kb	Exempt	40 CFR 63.640(n)(2)	Subject to 40 CFR 63 Subpart CC
CRG010	LAC 33:III. Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO_2 emissions < 5 tons/year
CRG0013, EQT348	40 CFR 63 Subpart Q for Cooling Towers	Does not apply	40 CFR 63.400	No chromium based water treatment chemicals are used
EQT029, EQT036, EQT037, EQT059, EQT063, EQT076 – EQT081	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO_2 emissions < 250 tons/year
EQT093,EQT094, EQT252	LAC 33:III.1511 CEM for SO_2	Exempt	LAC 33:III.1511.A	SO_2 emissions < 100 tons/year
EQT074	40 CFR 60 Subpart Kb	Does not apply	40 CFR 60.110b(b)	Volume < 20,000 gallons
	40 CFR 60 Subpart QQQ	Exempt	40 CFR 63.640(o)(1)	Comply with 40 CFR 63 Subpart CC (Group 1)
EQT075, EQT102	40 CFR 60 Subpart Kb	Does not apply	40 CFR 60.110b(b)	Volume < 20,000 gallons
EQT092 - Loading	40 CFR 63 Subpart Y	Does not apply	40 CFR 63.560(d)(3)	Part of the refinery, but comply with 40 CFR 63.560 through 63.567 per 40 CFR 63.651(a)
EQT095, EQT097, EQT104, EQT135, EQT136, EQT137, EQT195, EQT196	LAC 33:III.5109 – MACT Requirements	Does not apply	LAC 33:III.5109.A	Emits Class III TAP only MACT is not required
EQT184	40 CFR 60 Subpart XX for bulk gasoline terminal	Does not apply	40 CFR 63.640(r)	Subject to 40 CFR 63 Subpart CC
	40 CFR 63 Subpart R	Does not apply	40 CFR 63.420(i)	Part of the refinery, but comply to Subpart R per 40 CFR 63.650(a)

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT198, EQT199	LAC 33:III.2103. Storage of VOC	Does not apply	LAC 33:III.2103.A	Vapor Pressure < 1.5 psia
	40 CFR 60 Subpart K	Does not apply	40 CFR 60.110(b)	Vapor Pressure < 0.51 psia or volume < 20,000 gallons
	40 CFR 63 Subpart CC	Does not apply	40 CFR 63.640	Tank volume < 10,000 gallons
EQT314, EQT350, EQT 372	LAC 33:III. Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO_2 emissions < 5 tons/year
EQT351	LAC 33:III. Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO_2 emissions < 5 tons/year
	40 CFR 61 Subpart Y	Exempt	40 CFR 63.560(a) 40 CFR 63.560(d)(4)	HAP emissions <10/25 tons/year Subject to 40 CFR 61 Subpart BB
	40 CFR 63 Subpart EEEE	Exempt	40 CFR 63.2330	Subject to 40 CFR 61 Subpart BB
EQT355	40 CFR 60 Subpart QQQ	Exempt	40 CFR 63.640(o)(1)	Comply with 40 CFR 63 Subpart CC (Group 1)
FUG027	40 CFR 61 Subparts J and V	Exempt	40 CFR 63.160(b)(2)	Subject to 40 CFR 63 Subpart H
	40 CFR 60 Subpart GGG	Exempt	40 CFR 63.160(b)(1)	Subject to 40 CFR 63 Subpart H
FUG029	40 CFR 63 Subpart H	Does not apply	40 CFR 63.160	Does not meet definition of a transfer rack or CMPU
GRP006 Flares	LAC 33:III.1511 CEM for SO_2	Does not apply	LAC 33:III.1511.A	Does not apply to flares
	LAC 33:III.2115 Waste Gas Disposal	Does not apply	LAC 33:III.2115	Subjected to 40 CFR 63 Subpart A
	40 CFR 64 – CAM	Exempt	40 CFR 64(b)(1)(i)	Subjected to 40 CFR 63 Subpart A
GRP018	LAC 33:III. Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO_2 emissions < 5 tons/year
	40 CFR Part 64 – CAM Rules	Does not apply	40 CFR 64.2(b)(1)(i)	Subject to 40 CFR 63 Subpart G standards
SCN004 Boiler 804	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO_2 emissions < 250 tons/year
	LAC 33:III.1511 CEM for SO_2	Exempt	LAC 33:III.1511.A	SO_2 emissions < 100 tons/year
	40 CFR 60 Subpart D	Does not apply	40 CFR 60.40(a)(2)	Heat input < 250 MM BTU/hr

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

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XII. Specific Conditions

Permittee shall comply with all limitations of Permit PSD-LA-619(M4) as listed in the following table:

MAXIMUM ALLOWABLE EMISSION RATES

EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
EQT004	10-81 - Vacuum No. 2 Heater F-52-1A	430	lbs/hr	3.21	11.02	17.21	35.43	2.32		
EQT005	11-81 - Vacuum No. 2 Heater F-52-1B	430	lbs/hr	3.21	11.02	17.20	35.43	2.32		
EQT007	12-81 - Flare No. 2	144	lbs/hr	1.00	50.00	31.00	168.30	28.50		
EQT010	13-81 - Cooling Tower 403	61,000 gpm	lbs/hr tons/yr	1.20 4.20				2.57 9.01	< 0.01 < 0.01	
EQT012	14-81 - Coker No. 1 Heater No. 1 F-53-1A	243	lbs/hr	1.81	6.22	9.72	20.01	1.31		
EQT013	15-77 - Flare No. 1	144	lbs/hr	1.00	50.00	31.00	168.30	28.50		
EQT014	15-81 - Coker No. 1 Heater No. 2 F-53-1B	243	lbs/hr	1.81	6.22	9.72	20.01	1.31		
EQT016	16-77 - FCCU No. 2 Regenerator	110,000 bbl/day	lbs/hr tons/yr	74.60 236.89	79.60 295.00	144.89 191.78	696.80 95.00	15.50 13.60	0.90 1.68	3.68 11.52
EQT017	16-81 - Coker No. 1 Heater No. 3 F-53-1C	243	lbs/hr	1.81	6.22	9.72	20.01	1.31		
EQT028	2004-1 - Hydro Treater Heater No. 1 H-60-1	86	lbs/hr	0.64	2.21	3.46	7.12	0.47		
EQT029	2004-10 - Boiler 401-E	525	lbs/hr tons/yr				43.24 126.25			
EQT031	2004-2 - Hydro Treater Heater No. 2 H-60-2	24	lbs/hr	0.18	0.61	0.96	1.98	0.13		
EQT032	2004-3 - Hydro Treater Heater No. 3 H-60-3	52	lbs/hr	0.38	1.32	2.06	4.25	0.28		
EQT033	2004-4 - Hydro Treater Heater No. 4 H-60-4	86	lbs/hr	0.64	2.21	3.46	7.12	0.47		
EQT034	2004-5 - Flare No. 3	120	lbs/hr	0.17	25.00	12.95	28.05	4.74		
EQT035	2004-6 - Cooling Tower CT-600	42,000 gpm	lbs/hr tons/yr	0.09 0.30				1.89 6.62	< 0.01 < 0.01	
EQT036	2004-7 – SMR 1 Heater No. 1	885	lbs/hr tons/yr	6.59 19.25	22.67 66.18	35.40 38.76	72.88 212.82	4.77 13.93		

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MAXIMUM ALLOWABLE EMISSION RATES

EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
EQT037	2004-8 - SMR 1 Heater No. 2	885	lbs/hr	6.59	22.67	35.40	72.88	4.77		
			tons/yr	19.25	66.18	103.37	212.82	13.93		
EQT052	36-81 - Coker No. 1 Heater No. 4 F-53-1D	243	lbs/hr	1.81	6.22	9.72	20.01	1.31		
EQT054	4-81 - H-15-01A	70	lbs/hr	0.52	1.79	5.60	5.76	0.38		
EQT055	5-76 - Cooling Tower 402	50,700 gpm		0.12				2.52	< 0.01	
				0.41				8.83	< 0.01	
EQT056	5-81 - H-15-01B	70	lbs/hr	0.52	1.79	5.60	5.76	0.38		
EQT057	5-83 - Coke Handling	12207 tpd	tons/yr	2.47						
EQT060	6-81 - HDS No. 1 Heater H-15-05	135	lbs/hr	1.01	3.46	5.40	11.12	0.73		
			tons/yr	2.94	10.10	15.77	32.46	2.13		
EQT076	94-21 – Heater F-33-05	48	lbs/hr	0.36	1.23	3.84	3.95	0.26		
			tons/yr	1.31	4.49	14.02	14.43	0.94		
EQT077	94-28 – Heater H-39-03	68	lbs/hr	0.50	1.73	3.31	5.56	0.36		
			tons/yr	1.47	5.05	9.66	16.23	1.06		
EQT078	94-29 – Heater H-39-01	75	lbs/hr	0.56	1.92	3.68	6.18	0.40		
			tons/yr	1.63	5.61	10.74	18.04	1.18		
EQT079	94-30 - Heater H-39-02	90	lbs/hr	0.67	2.30	4.41	7.41	0.49		
			tons/yr	1.96	6.73	12.88	21.64	1.42		
EQT080	94-43 - Boiler B-401C	354	lbs/hr	3.43	11.79	46.37	37.92	2.48		
			tons/yr	10.02	34.44	107.57	110.74	7.25		
EQT081	94-45 - Boiler B-401D	354	lbs/hr	3.43	11.79	46.37	37.92	2.48		
			tons/yr	10.02	34.44	107.57	110.74	7.25		
EQT089	94-57 - Tank T-04-24	400 bbl	lbs/hr					< 0.01		
			tons/yr					0.01		
EQT090	94-58 - Tank T-04-23	400 bbl	lbs/hr					< 0.01		
			tons/yr					0.01		

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MAXIMUM ALLOWABLE EMISSION RATES

EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
EQT092	94-9 - Petroleum Product Loading Docks	352.8 MM g/d	lbs/hr tons/yr					687.00 160.25		
EQT093	94-CCR – CCR Heater	388	lbs/hr tons/yr	2.89 10.54	9.94 36.23	15.52 56.59	31.95 116.51	2.09 7.63		
EQT094	94-GDU – Low Sulfur Gasoline Unit Heater	200	lbs/hr tons/yr	1.49 5.71	5.12 19.63	8.00 30.66	16.47 63.12	1.08 4.13		
EQT095	96-2 - Sulfuric Acid Tank	17 bbl	lbs/hr tons/yr							< 0.01 0.01
EQT097	96-4 - Sulfuric Acid Tank T-1403	1933 bbl	lbs/hr tons/yr							< 0.01 0.01
EQT104	98-114 - Sulfuric Acid Storage		tons/yr		5.00			5.00		
EQT105	98-115 - Sulfuric Acid Loading		tons/yr		5.00			5.00		
EQT135	98-41 - Tank 50-1	50,000 bbl	lbs/hr tons/yr							< 0.01 0.01
EQT136	98-42 - Tank 50-2	50,000 bbl	lbs/hr tons/yr							< 0.01 0.01
EQT137	98-43 - Tank 50-3	50,000 bbl	lbs/hr tons/yr							< 0.01 0.01
EQT184	98-9 - Tank Truck/Rail Car Loading	3840 gal/hr	lbs/hr tons/yr					261.00 6.10	0.01 0.04	
EQT195	99-3 - Thermal Oxidizer No. 1	60	lbs/hr	1.40	114.00	9.40	6.10	0.30	0.50	
EQT196	99-4 - Thermal Oxidizer No. 2	60	lbs/hr	1.40	114.00	9.40	6.10	0.30	0.50	
EQT200	99-8 - CCR Vent Gas Wash Tower	42000 bbl/day	lbs/hr tons/yr					0.02 0.07		
EQT203	2005-1 - Crude 2 Heater B	1274	lbs/hr tons/yr	9.49 27.71	32.61 95.23	50.94 148.74	104.88 306.24	6.87 20.05		

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EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
EQT204	2005-2 - VAC 2 Charge Heater	744	lbs/hr	5.54	19.05	29.76	61.27	4.01		
			tons/yr	16.19	55.64	86.90	178.91	11.71		
EQT205	2005-3 - COKER 2 Charge Heater	555	lbs/hr	4.14	14.21	22.20	45.71	2.99		
			tons/yr	12.08	41.50	64.82	133.46	8.74		
EQT210	2005-8 - HCU 1st Stage Charge Heater	100	lbs/hr	0.75	2.65	4.02	8.27	0.54		
EQT211	2005-9 - HCU 2nd Stage Charge Heater	83	lbs/hr	0.61	2.17	3.30	6.79	0.44		
EQT212	2005-10 - HCU 1 Absorber/Dec 2 Reboiler	336	lbs/hr	2.50	8.84	13.42	27.63	1.81		
EQT224	2005-22 - GDU 2 Heater	261	lbs/hr	1.94	6.68	10.44	21.49	1.41		
			tons/yr	5.68	19.52	30.48	62.76	4.11		
EQT225	2005-23 - HCU 2 1st Stage Charge Heater	95	lbs/hr	0.93	3.19	4.98	10.25	0.67		
EQT226	2005-24 - HCU 2 2nd Stage Charge Heater	42	lbs/hr	0.31	1.08	1.68	3.46	0.23		
EQT227	2005-25 - HCU 2 Absorber/Dec 2 Reboiler	308	lbs/hr	2.29	7.88	12.30	25.32	1.66		
EQT228	2005-26 - HCU 2 Naphtha Splitter Reboiler	393	lbs/hr	2.93	10.06	15.72	32.36	2.12		
EQT229	2005-27 - HCU 2 Recycle Splitter Reboiler	95	lbs/hr	0.98	3.38	5.28	10.87	0.71		
EQT230	2005-28 - LEU 2 Dec 4 Reboiler	255	lbs/hr	1.90	6.53	10.20	21.00	1.38		
EQT237	2005-35 - PENEX Rx Feed Heater	38	lbs/hr	0.28	0.96	1.50	3.09	0.20		
			tons/yr	0.82	2.80	4.38	9.02	0.59		
EQT238	2005-36 - PENEX Dryer Regenerator Heater	15	lbs/hr	0.11	0.38	0.60	1.24	0.08		
			tons/yr	0.33	1.12	1.75	3.61	0.24		
EQT239	2005-37 - PENEX Mole Sieve Regenerator Heater	173	lbs/hr	1.29	4.42	6.90	14.21	0.93		
			tons/yr	3.75	12.90	20.15	41.48	2.72		
EQT240	2005-38 - Flare No. 5	144	lbs/hr	0.33	50.00	25.90	56.10	9.50	1.00	
EQT241	2005-39 - Thermal Oxidizer No. 3	50	lbs/hr	0.38	115.31	3.25	4.20	0.28	1.73	
EQT242	2005-40 - FCCU 3 Regenerator	130,000	lbs/hr	74.60	179.99	144.89	787.46	23.83	0.90	3.68
		bbl/day	tons/yr	276.00	333.54	191.78	583.69	88.33	1.68	11.52
EQT243	2005-42 – HCU Cooling Tower	40,000 gpm	lbs/hr	0.10				2.10	< 0.01	
			tons/yr	0.34				7.36	< 0.01	

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MAXIMUM ALLOWABLE EMISSION RATES

EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
EQT244	2005-43 - New West Cooling Tower	32,000 gpm	lbs/hr	0.08				1.68	< 0.01	
			tons/yr	0.27				5.89	< 0.01	
EQT249	2005-57 - Sulfur Loading	1656 long tons/day	lbs/hr						2.90	
			tons/yr						10.27	
EQT250	2005-58 - Coker No. 1 Steam Vent	77.5 MM scf/yr	lbs/hr					14.43		
			tons/yr					4.52		
EQT251	2005-59 - Coker No. 2 Steam Vent	77.5 MM scf/yr	lbs/hr					14.43		
			tons/yr					4.52		
EQT252	01-02 - Diesel Engines	10,000 hp	lbs/hr	11.00	10.25	155.00	33.40	14.56		
			tons/yr	7.92	7.38	111.60	24.05	10.48		
EQT313	2007-4 - Thermal Oxidizer No. 4	50	lbs/hr	0.38	115.31	3.25	4.20	0.28	1.73	
EQT314	2008-1 - CRU H1	36	lbs/hr	0.27	0.06	1.45	2.99	0.20		
			tons/yr	1.08	0.24	5.78	11.90	0.78		
EQT315	2008-2 - CRU H2, H4, and H5	880	lbs/hr	6.56	1.43	35.20	72.47	4.75		
			tons/yr	26.11	5.71	52.56	288.56	18.89		
EQT316	2008-3 - CRU H3	641	lbs/hr	4.78	1.05	25.65	52.81	3.46		
			tons/yr	19.03	4.16	38.30	210.29	13.77		
EQT317	2008-4 - TPU H1	108	lbs/hr	0.80	0.18	4.31	8.88	0.58		
			tons/yr	3.20	0.70	17.17	35.35	2.31		
EQT318	2008-5 - TPU H2	123	lbs/hr	0.92	0.20	4.93	10.15	0.66		
			tons/yr	3.66	0.80	19.62	40.40	2.65		
EQT319	2008-6 - PEU No. 1 H1	803	lbs/hr	5.98	1.31	32.12	66.13	4.33		
			tons/yr	23.82	5.21	47.96	263.32	17.24		
EQT320	2008-7 - PEU No. 1 H2	122	lbs/hr	0.91	0.20	4.88	10.06	0.66		
			tons/yr	3.62	0.79	19.45	40.04	2.62		
EQT321	2008-8 - PEU No. 2 H1	803	lbs/hr	5.98	1.31	32.12	66.13	4.33		
			tons/yr	23.82	5.21	47.96	263.32	17.24		

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MAXIMUM ALLOWABLE EMISSION RATES

EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
EQT322	2008-9 - PEU No. 2 H2	122	lbs/hr	0.91	0.20	4.88	10.06	0.66		
			tons/yr	3.62	0.79	19.45	40.04	2.62		
EQT323	2008-10 - Boiler 401-F	715	lbs/hr	5.33	18.85	28.60	58.88	3.86		
			tons/yr	21.21	75.06	42.71	234.46	15.35		
EQT324	2008-11 - Boiler 401-G	715	lbs/hr	5.33	18.85	28.60	58.88	3.86		
			tons/yr	21.21	75.06	42.71	234.46	15.35		
EQT345	2008-32 - Thermal Oxidizer No. 5	15	lbs/hr	0.11	0.02	1.47	1.24	0.20		-
EQT346	2008-33 - Thermal Oxidizer No. 6	15	lbs/hr	0.11	0.02	1.47	1.24	0.20		
EQT347	2008-34 - Thermal Oxidizer No. 7	15	lbs/hr	0.11	0.02	1.47	1.24	0.20		
EQT348	2008-35 - ARU Cooling Tower	50,000 gpm	lbs/hr	0.12				2.63		
			tons/yr	0.43				9.20		
EQT350	94-8 - MVR Thermal Oxidizer No. 1	240	lbs/hr	1.80	3.30	23.50	19.80	313.00	0.95	
			tons/yr	6.50	4.90	86.00	72.10	198.04	0.96	
EQT351	2008-38 - MVR Thermal Oxidizer No. 2	240	lbs/hr	2.23	0.45	29.41	24.71	5.40		
			tons/yr	4.05	0.82	53.25	44.73	0.82		
EQT352	2008-40 - Boiler 401-H	715	lbs/hr	5.33	18.85	28.60	58.88	3.86		
			tons/yr	21.21	75.06	42.71	234.46	15.35		
EQT353	2008-41 - Thermal Oxidizer No. 8	10	lbs/hr	0.08	0.26	0.98	0.82	0.06		
			tons/yr	0.33	1.12	4.29	3.61	0.24		
EQT357	2008-46 - ARU Railcar Loading Rack	8000 bbl/day	lbs/hr					0.47		
EQT358	SRU SU/SD - SRUs Startups and Shutdowns		lbs/hr		258.50					
			tons/yr		69.80					
EQT359	WWTU - Wastewater Treatment Unit		lbs/hr					68.10	6.76	
EQT360	2004-5B - Flare No. 4	6	lbs/hr	0.17	25.00	12.95	28.05	4.74		
EQT372	2008-36 - ARU Flare	25	tons/yr	0.25	0.17	7.73	42.04	11.42		
FUG025	Road Dust 05 - Road Dust Emissions		tons/yr	22.97						
FUG026	91-0 - Refinery Fugitive Emissions		tons/yr					1384.5	33.51	

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MAXIMUM ALLOWABLE EMISSION RATES

EQT	Description	Capacity MM BTU/hr	Maximum Permitted Emission Rates							
				PM/PM_{10}	SO_2	NO_X	CO	VOC	H_2S	H_2SO_4
FUG027	2008-39 – ARU Fugitive Emissions		tons/yr					42.54		
FUG029	2008-37 - ARU Marine Loading Dock Fugitive Emissions		tons/yr					1.36		
GRP005	COKERCAP - 3,224,000 MM BTU/yr		tons/yr	12.01	41.28	64.47	132.74	8.69		
GRP006	FLARECAP – 1000 MM BTU/hr		tons/yr	1.20	175.00	90.50	197.00	33.50	0.88	
GRP007	SRU/TOCAP - 490,000 long tons/yr		tons/yr	4.99	1122.4	41.62	55.19	3.61	12.91	
GRP008	TANKCAP		tons/yr					1108.0	13.40	
GRP012	ULSDCAP - 1,813,300 MM BTU/yr		tons/yr	6.76	23.22	36.27	74.67	4.89		
GRP013	DHTCAP - 805,900 MM BTU/yr		tons/yr	3.00	10.32	33.24	33.18	2.17		
GRP015	HCU1CAP - 6,552,500 MM BTU/yr		tons/yr	13.53	47.89	72.66	149.58	9.79		
GRP016	HCU2/LEU3CAP - 6,552,500 MM BTU/yr		tons/yr	24.41	83.91	131.05	269.81	17.67		
GRP018	TANKTOCAP		tons/yr	0.98	0.20	12.88	10.82	2.36		
SCN002	VACCAP-SCN2 - 3,557,000 MM BTU/yr		tons/yr	13.25	45.54	71.13	146.45	9.59		
SCN003	7-81-SCN3 - Heater F-72-703	633.6	lbs/hr tons/yr	5.90 17.23	20.28 59.23	50.04 183.00	25.32 92.50	0.89 3.30		

40 CFR PART 70 GENERAL CONDITIONS

A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]

B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]

C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]

D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]

E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]

F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]

G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:

1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];

3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]

I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.

[Reference 40 CFR 70.6(a)(3)(ii)(B)]

J. Records of required monitoring shall include the following:

1. the date, place as defined in the permit, and time of sampling or measurements;
2. the date(s) analyses were performed;
3. the company or entity that performed the analyses;
4. the analytical techniques or methods used;
5. the results of such analyses; and
6. the operating conditions as existing at the time of sampling or measurement.

[Reference 40 CFR 70.6(a)(3)(ii)(A)]

K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

40 CFR PART 70 GENERAL CONDITIONS

N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]

P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]

Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:

1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
5. changes in emissions would not qualify as a significant modification; and
6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).

1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

   a. Report by June 30 to cover January through March
   b. Report by September 30 to cover April through June
   c. Report by December 31 to cover July through September
   d. Report by March 31 to cover October through December

4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;

2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;

40 CFR PART 70 GENERAL CONDITIONS

3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;

4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);

5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and

6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.

II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.

III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application dated March 20, 2008, as well as additional information dated May 16, June 16, and July 15, 2008.

IV. This permit shall become invalid, for the sources not constructed, if:

A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;

B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.

X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.

XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.

A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;

B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;

C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and

D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 26003 Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

Also Known As:

ID	Name	User Group	Start Date
2520-00027	Valero Refining - New Orleans LLC - St Charles Refinery	CDS Number	03-07-1973
76-0229632	Federal Tax ID	Federal Tax ID	11-21-1999
gd089-0821	Tax Exempt No	Fiscal Services Division	11-20-1999
LAD000225862	Valero - St Charles Refinery	Hazardous Waste Notification	08-08-2003
CA	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
00360	Creosote Tank Area	Inactive & Abandoned Sites	07-01-1981
00375	Transamerican Refining Corp	Inactive & Abandoned Sites	10-01-1980
LAD000225862	Good Hope Refinery	Inactive & Abandoned Sites	10-01-1980
LAD062644778	GATX Terminals Corp	Inactive & Abandoned Sites	07-01-1981
LA0052051	LPDES #	LPDES Permit #	11-21-1999
LAR10A918	LPDES #	LPDES Permit #	05-22-2003
LAR10B081	LPDES #	LPDES Permit #	05-22-2003
WP0050	LWDPS #	LWDPS Permit #	06-25-2003
WP1538	LWDPS #	LWDPS Permit #	06-25-2003
	Valero St Charles Refinery	Multimedia	07-01-2003
	Priority 1 Emergency Site	Priority 1 Emergency Site	07-19-2006
LA-2870-L01	Radioactive Material License	Radiation License Number	10-01-2003
11308	X-Ray Registration Number	Radiation X-ray Registration Number	10-03-2005
0821	Transamerican Refining Corp	Solid Waste	01-08-2002
D-089-3274	GATX Terminals Corp	Solid Waste Facility No.	01-08-2002
GD-089-0821	Site ID #	Solid Waste Facility No.	04-30-2001
103748	Transamerican Catofins Production Unit	TEMPO Merge	07-01-2003
115977	Valero - St Charles Refinery	TEMPO Merge	11-05-2003
126592	Orion Refinery	TEMPO Merge	02-02-2005
131234	Valero St Charles Refinery	TEMPO Merge	11-22-2005
2619	Orion Refining Corp - GATX Terminals	TEMPO Merge	12-27-2000
33781	Orion Refining Corp	TEMPO Merge	12-27-2000
43592	Transamerican Refining Corp	TEMPO Merge	12-27-2000
44888	Transamerican Refining Corp	TEMPO Merge	12-27-2000
50377	Transamerican - Good Hope Refinery	TEMPO Merge	12-27-2000
70047TRNSM14902	TRI #	Toxic Release Inventory	07-29-2004
49017734	UST Facility ID (from UST legacy data)	UST FID #	10-12-2002
0821	Waste Tires	Waste Tire Facility ID Number	05-27-2005

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General Information

AI ID: 26003 Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

Also Known As:

ID	Name	User Group	Start Date
WQC WW 080117-01	Water Quality Certification #	Water Certification	01-17-2008
PTS 1442	Transamerican Refinery - GATX Terminals	Water Permitting	11-21-1999

Physical Location: 14902 River Rd
Norco, LA 70079

Main FAX: 9857648673
Main Phone: 9857648611

Mailing Address: PO Box 518
Norco, LA 700790518

Location of Front Gate: 29° 59' 7" latitude, 90° 23' 34" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Pascha Dillon	PO Box 518 Norco, LA 700790518	pascha.dillon@valer	Emission Inventory Contact for
Pascha Dillon	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Emission Inventory Contact for
Laura Durst	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Water Permit Contact For
Robert Gross	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Hazardous Waste Permit Contact For
Robert Gross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Hazardous Waste Permit Contact For
Robert Gross	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Accident Prevention Contact for
Robert Gross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Accident Prevention Contact for
Robert Gross	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Accident Prevention Billing Party for
Robert Gross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Accident Prevention Billing Party for
Robert Martin	PO Box 518 Norco, LA 700790518	robert.j.martin@valer	Air Permit Contact For
Robert Martin	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Emission Inventory Contact for
Robert Martin	PO Box 518 Norco, LA 700790518	robert.j.martin@valer	Emission Inventory Contact for
Robert Martin	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Air Permit Contact For
Durrell Morris	PO Box 537 Norco, LA 700790537	9857648611 (WP)	Asbestos Contact for
Ralph Phillip	PO Box 518 Norco, LA 700790518		Responsible Official for
Dennis Ross	PO Box 518 Norco, LA 700790518	dennis.ross@valero.	Radiation Safety Officer for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857644660 (WF)	Radiation License Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Radiation License Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857031827 (CP)	Radiation License Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	dennis.ross@valero.	Radiation License Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857644660 (WF)	Radiation Registration Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Radiation Registration Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857031827 (CP)	Radiation Registration Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	dennis.ross@valero.	Radiation Registration Billing Party for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857644660 (WF)	Radiation Contact For
Dennis Ross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Radiation Contact For
Dennis Ross	PO Box 518 Norco, LA 700790518	9857031827 (CP)	Radiation Safety Officer for

General Information

AI ID: 26003 Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Dennis Ross	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Radiation Safety Officer for
Dennis Ross	PO Box 518 Norco, LA 700790518	9857031827 (CP)	Radiation Contact For
Dennis Ross	PO Box 518 Norco, LA 700790518	dennis.ross@valero.	Radiation Contact For
Dennis Ross	PO Box 518 Norco, LA 700790518	9857644660 (WF)	Radiation Safety Officer for
Jonathan Stuart	PO Box 518 Norco, LA 700790518	9857645605 (WP)	Katrina Response Contact for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Solid Waste Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Solid Waste Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Water Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Water Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Air Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Air Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	UST Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	UST Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Owns
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Owns
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Haz. Waste Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Haz. Waste Billing Party for
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Operates
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Operates
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648673 (WF)	Emission Inventory Billing Party
Valero Refining Co - New Orleans LLC	PO Box 518 Norco, LA 700790518	9857648611 (WP)	Emission Inventory Billing Party

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AI26003 - St. Charles Refinery						
EQT0004	10-81 - Vacuum No. 2 Heater F-52-1A		430 MM BTU/hr	239 MM BTU/hr		8760 hr/yr (All Year)
EQT0005	11-81 - Vacuum No. 2 Heater F-52-1B		430 MM BTU/hr	239 MM BTU/hr		8760 hr/yr (All Year)
EQT0006	11-89 - Tank 37-1	37000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0007	12-81 - Flare No. 2			120 MM BTU/hr		8760 hr/yr (All Year)
EQT0008	12-89 - Tank 55-1	55000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0010	13-81 - Cooling Tower 403		61000 gallons/min	49000 gallons/min		8760 hr/yr (All Year)
EQT0012	14-81 - Coker No. 1 Heater No. 1 F-53-1A		243 MM BTU/hr	162 MM BTU/hr		8760 hr/yr (All Year)
EQT0013	15-77 - Flare No. 1			120 MM BTU/hr		8760 hr/yr (All Year)
EQT0014	15-81 - Coker No. 1 Heater No. 2 F-53-1B		243 MM BTU/hr	162 MM BTU/hr		8760 hr/yr (All Year)
EQT0016	16-77 - FCCU No. 2 Regenerator		130000 bbl/day	110000 bbl/day		8760 hr/yr (All Year)
EQT0017	16-81 - Coker No. 1 Heater No. 3 F-53-1C		243 MM BTU/hr	162 MM BTU/hr		8760 hr/yr (All Year)
EQT0018	16-89 - Tank 55-8	55000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0019	18-81 - Tank 625-1	625000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0022	19-81 - Tank 625-2	625000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0026	20-81 - Tank 625-3	625000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0028	2004-1 - Hydro Treater Heater No. 1 H-60-1		86 MM BTU/hr	72 MM BTU/hr		8760 hr/yr (All Year)
EQT0029	2004-10 - Boiler 401-E		525 MM BTU/hr	350 MM BTU/hr		8760 hr/yr (All Year)
EQT0031	2004-2 - Hydro Treater Heater No. 2 H-60-2		24 MM BTU/hr	20 MM BTU/hr		8760 hr/yr (All Year)
EQT0032	2004-3 - Hydro Treater Heater No. 3 H-60-3		52 MM BTU/hr	43 MM BTU/hr		8760 hr/yr (All Year)
EQT0033	2004-4 - Hydro Treater Heater No. 4 H-60-4		86 MM BTU/hr	72 MM BTU/hr		8760 hr/yr (All Year)
EQT0034	2004-5A - Flare No. 3			6 MM BTU/hr		8760 hr/yr (All Year)
EQT0035	2004-6 - Cooling Tower CT-600		43200 gallons/min	36000 gallons/min		8760 hr/yr (All Year)
EQT0036	2004-7 - SMR1 Heater No. 1		885 MM BTU/hr	590 MM BTU/hr		8760 hr/yr (All Year)
EQT0037	2004-8 - SMR1 Heater No. 2		885 MM BTU/hr	590 MM BTU/hr		8760 hr/yr (All Year)
EQT0041	22-81 - Tank 425-1	425000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0042	23-81 - Tank 425-2	425000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0043	24-81 - Tank 425-3	425000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0044	25-81 - Tank 425-4	425000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0045	26-81 - Tank 625-5	625000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0046	27-81 - Tank 625-6	625000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0047	28-81 - Tank 425-5	425000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0048	29-81 - Tank 325-5	325000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0049	30-81 - Tank 325-6	325000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0050	31-81 - Tank 180-9	180000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0051	32-81 - Tank 425-9	425000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0052	36-81 - Coker No. 1 Heater No. 4 F-53-1D		243 MM BTU/hr	162 MM BTU/hr		8760 hr/yr (All Year)
EQT0054	4-81 - DHT Heater H-15-01A		70 MM BTU/hr	46 MM BTU/hr		8760 hr/yr (All Year)
EQT0055	5-76 - Cooling Tower 402		50700 gallons/min	42000 gallons/min		8760 hr/yr (All Year)
EQT0056	5-81 - DHT Heater H-15-01B		70 MM BTU/hr	46 MM BTU/hr		8760 hr/yr (All Year)
EQT0057	5-83 - Coke Handling		12207 tons/day	12207 tons/day		8760 hr/yr (All Year)

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INVENTORIES

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AI26003 - St. Charles Refinery						
EQT0058	6-76 - Cooling Tower 401		42000 gallons/min	35000 gallons/min		8760 hr/yr (All Year)
EQT0059	6-77 - Heater F-33-01		94.8 MM BTU/hr	79 MM BTU/hr		8760 hr/yr (All Year)
EQT0060	6-81 - HDS No. 1 Heater H-15-05		135 MM BTU/hr	90 MM BTU/hr		8760 hr/yr (All Year)
EQT0063	7-81 - Heater F-72-703		633.6 MM BTU/hr	528 MM BTU/hr		8760 hr/yr (All Year)
EQT0066	94-10 - Tank 45-1	45000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0067	94-11 - Tank 45-2	45000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0068	94-12 - Tank 150-24	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0069	94-13 - Tank 150-25	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0074	94-18 - Tank 118-1	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0075	94-2 - Cooling Tower 800		42400 gallons/min	35500 gallons/min		8760 hr/yr (All Year)
EQT0076	94-21 - Heater F-33-05		48 MM BTU/hr	40 MM BTU/hr		8760 hr/yr (All Year)
EQT0077	94-28 - Heater H-39-03		68 MM BTU/hr	45 MM BTU/hr		8760 hr/yr (All Year)
EQT0078	94-29 - Heater H-39-01		75 MM BTU/hr	50 MM BTU/hr		8760 hr/yr (All Year)
EQT0079	94-30 - Heater H-39-02		90 MM BTU/hr	60 MM BTU/hr		8760 hr/yr (All Year)
EQT0080	94-43 - Boiler B-401C		354 MM BTU/hr	187 MM BTU/hr		8760 hr/yr (All Year)
EQT0081	94-45 - Boiler B-401D		354 MM BTU/hr	236 MM BTU/hr		8760 hr/yr (All Year)
EQT0082	94-47 - Cooling Tower CT-405		12000 gallons/min	10000 gallons/min		8760 hr/yr (All Year)
EQT0083	94-48 - Cooling Tower		12000 gallons/min	10000 gallons/min		8760 hr/yr (All Year)
EQT0084	94-49 - Cooling Tower		25200 gallons/min	21000 gallons/min		8760 hr/yr (All Year)
EQT0085	94-50 - Tank 150-26	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0086	94-51 - Tank 150-27	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0087	94-52 - Tank 150-22	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0088	94-53 - Tank 150-23	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0089	94-57 - Fleet Diesel Storage	300 bbl			Diesel	8760 hr/yr (All Year)
EQT0090	94-58 - Fleet Gasoline Storage	300 bbl			Gasoline	8760 hr/yr (All Year)
EQT0091	94-59 - Tank 67-1	67000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0092	94-9 - Petroleum Product Loading Docks		352.8 million gallons/day	34.39 million gallons/day		8760 hr/yr (All Year)
EQT0093	94-CCR - CCR Heater		388 MM BTU/hr	323 MM BTU/hr		8760 hr/yr (All Year)
EQT0094	94-GDU - Low Sulfur Gasoline Unit Heater		200 MM BTU/hr	175 MM BTU/hr		8760 hr/yr (All Year)
EQT0095	96-2 - Sulfuric Acid Tank	24 bbl			Sulfuric Acid	8760 hr/yr (All Year)
EQT0097	96-4 - Sulfuric Acid Tank T-1403	1933 bbl			Sulfuric Acid	8760 hr/yr (All Year)
EQT0099	96-6 - Tank T-04-32	62900 bbl			Sour Water	8760 hr/yr (All Year)
EQT0103	98-113 - Tank V-28-4	724 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0104	98-114 - Sulfuric Acid Storage				Sulfuric Acid	8760 hr/yr (All Year)
EQT0105	98-115 - Sulfuric Acid Loading					8760 hr/yr (All Year)
EQT0134	98-40 - Tank 41	37500 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0135	98-41 - Tank 50-1	50000 bbl			Fresh Sulfuric Acid	8760 hr/yr (All Year)
EQT0136	98-42 - Tank 50-2	50000 bbl			Spent Sulfuric Acid	8760 hr/yr (All Year)
EQT0137	98-43 - Tank 50-3	50000 bbl			Sulfuric Acid	8760 hr/yr (All Year)
EQT0142	98-48 - Tank 55-5	55000 bbl			Heavy Materials	8760 hr/yr (All Year)

INVENTORIES

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Activity Number: PER20080005
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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AI26003 - St. Charles Refinery						
EQT0143	98-49 - Tank 55-6	55000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0146	98-52 - Tank 57	11000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0148	98-54 - Tank 75	15000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0149	98-55 - Tank 76	16000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0150	98-56 - Tank 77	15000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0151	98-57 - Tank 78	16000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0154	98-60 - Tank 80-1	80000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0155	98-61 - Tank 80-3	80000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0156	98-62 - Tank 80-4	80000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0157	98-63 - Tank 81	25000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0160	98-66 - Tank 130-1	130000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0161	98-67 - Tank 130-2	130000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0162	98-68 - Tank 130-3	130000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0164	98-70 - Tank 130-5	130000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0165	98-71 - Tank 130-6	130000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0166	98-72 - Tank 130-7	130000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0167	98-73 - Tank 130-8	130000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0168	98-74 - Tank 130-9	130000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0169	98-75 - Tank 150-1	180000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0170	98-76 - Tank 150-2	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0171	98-77 - Tank 150-3	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0172	98-78 - Tank 150-4	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0173	98-79 - Tank 150-5	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0174	98-80 - Tank 150-6	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0175	98-81 - Tank 150-7	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0176	98-82 - Tank 150-8	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0178	98-84 - Tank 150-17	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0179	98-85 - Tank 150-18	126000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0180	98-86 - Tank 150-19	126000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0181	98-87 - Tank 150-20	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0182	98-88 - Tank 150-21	150000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0183	98-89 - Tank 175-1	175000 bbl			Heavy Materials	8760 hr/yr (All Year)
EQT0184	98-9 - Tank Truck/Rail Car Loading		3840 gallons/hr	3200 gallons/hr		8760 hr/yr (All Year)
EQT0186	98-91 - Tank 325-1	279000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0187	98-92 - Tank 325-2	279000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0188	98-93 - Tank 325-3	279000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0189	98-94 - Tank 325-4	279000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0195	99-3 - Thermal Oxidizer No. 2		60 MM BTU/hr	50 MM BTU/hr		8760 hr/yr (All Year)
EQT0196	99-4 - Thermal Oxidizer No. 3		60 MM BTU/hr	50 MM BTU/hr		8760 hr/yr (All Year)
EQT0198	99-6 - Tank V-10-13	185 bbl				8760 hr/yr (All Year)

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INVENTORIES

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AI26003 - St. Charles Refinery						
EQT0199	99-7 - Tank V-10-14	185 bbl				8760 hr/yr (All Year)
EQT0200	99-8 - CCR Vent Gas Wash Tower		42000 bbl/day	35000 bbl/day		8760 hr/yr (All Year)
EQT0203	2005-1 - Crude 2 Heater B		1274 MM BTU/hr	849 MM BTU/hr		8760 hr/yr (All Year)
EQT0204	2005-2 - VAC 2 Charge Heater		744 MM BTU/hr	496 MM BTU/hr		8760 hr/yr (All Year)
EQT0205	2005-3 - COKER 2 Charge Heater		555 MM BTU/hr	370 MM BTU/hr		8760 hr/yr (All Year)
EQT0210	2005-8 - H001 1st Stage Charge Heater		100 MM BTU/hr	80 MM BTU/hr		8760 hr/yr (All Year)
EQT0211	2005-9 - H002 2nd Stage Charge Heater		83 MM BTU/hr	66 MM BTU/hr		8760 hr/yr (All Year)
EQT0212	2005-10 - H003 Fractionator Charge Heater		336 MM BTU/hr	268 MM BTU/hr		8760 hr/yr (All Year)
EQT0224	2005-22 - GDU 2 Heater		261 MM BTU/hr	174 MM BTU/hr		8760 hr/yr (All Year)
EQT0225	2005-23 - HCU 2 1st Stage Charge Heater		95 MM BTU/hr	83 MM BTU/hr		8760 hr/yr (All Year)
EQT0226	2005-24 - HCU 2 2nd Stage Charge Heater		42 MM BTU/hr	28 MM BTU/hr		8760 hr/yr (All Year)
EQT0227	2005-25 - HCU 2 Absorber/Dec 2 Reboiler		308 MM BTU/hr	205 MM BTU/hr		8760 hr/yr (All Year)
EQT0228	2005-26 - HCU 2 Naphtha Splitter Reboiler		393 MM BTU/hr	262 MM BTU/hr		8760 hr/yr (All Year)
EQT0229	2005-27 - HCU 2 Recycle Splitter Reboiler		95 MM BTU/hr	88 MM BTU/hr		8760 hr/yr (All Year)
EQT0230	2005-28 - LEU 2 Dec 4 Reboiler		255 MM BTU/hr	170 MM BTU/hr		8760 hr/yr (All Year)
EQT0237	2005-35 - PENEX Rx Feed Heater		38 MM BTU/hr	25 MM BTU/hr		8760 hr/yr (All Year)
EQT0238	2005-36 - PENEX Dryer Regenerator Heater		15 MM BTU/hr	10 MM BTU/hr		8760 hr/yr (All Year)
EQT0239	2005-37 - PENEX Mole Sieve Regenerator Heater		173 MM BTU/hr	115 MM BTU/hr		8760 hr/yr (All Year)
EQT0240	2005-38 - Flare No. 5			120 MM BTU/hr		8760 hr/yr (All Year)
EQT0241	2005-39 - Thermal Oxidizer No. 1		50 MM BTU/hr	50 MM BTU/hr		8760 hr/yr (All Year)
EQT0242	2005-40 - FCCU No. 3 Regenerator		130000 bbl/day	110000 bbl/day		8760 hr/yr (All Year)
EQT0243	2005-42 - HCU Cooling Tower		40000 gallons/min			8760 hr/yr (All Year)
EQT0244	2005-43 - New West Plant Cooling Tower		32000 gallons/min	32000 gallons/min		8760 hr/yr (All Year)
EQT0245	2005-53 - Light Materials Tank	150000 bbl			Light Materials	8760 hr/yr (All Year)
EQT0246	2005-54 - Sour Water Tank	7200 bbl			Sour Water	8760 hr/yr (All Year)
EQT0249	2005-57 - Sulfur Loading		1656 long tons/day	1340 long tons/day		8760 hr/yr (All Year)
EQT0250	2005-58 - Coker No. 1 Steam Vent		77.5 MM scf/yr	77.5 MM scf/yr		8760 hr/yr (All Year)
EQT0251	2005-59 - Coker No. 2 Steam Vent		77.5 MM scf/yr	77.5 MM scf/yr		8760 hr/yr (All Year)
EQT0252	01-02 - Diesel Engines		10000 horsepower	10000 horsepower		8760 hr/yr (All Year)
EQT0254	RPV - Refinery Process Vent Streams					8760 hr/yr (All Year)
EQT0255	WW - Wastewater Collection and Conveyance					8760 hr/yr (All Year)
EQT0312	Fuel Gas - Refinery Fuel Gas System					8760 hr/yr (All Year)
EQT0313	2007-4 - Thermal Oxidizer No. 4		50 MM BTU/hr			8760 hr/yr (All Year)
EQT0314	2008-1 - CRU H1		36 MM BTU/hr	33 MM BTU/hr		8760 hr/yr (All Year)
EQT0315	2008-2 - CRU H2, H4, and H5		880 MM BTU/hr	800 MM BTU/hr		8760 hr/yr (All Year)
EQT0316	2008-3 - CRU H3		641 MM BTU/hr	583 MM BTU/hr		8760 hr/yr (All Year)
EQT0317	2008-4 - TPU H1		108 MM BTU/hr	98 MM BTU/hr		8760 hr/yr (All Year)
EQT0318	2008-5 - TPU H2		123 MM BTU/hr	112 MM BTU/hr		8760 hr/yr (All Year)
EQT0319	2008-6 - PEU No. 1 H1		803 MM BTU/hr	730 MM BTU/hr		8760 hr/yr (All Year)
EQT0320	2008-7 - PEU No. 1 H2		122 MM BTU/hr	111 MM BTU/hr		8760 hr/yr (All Year)

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INVENTORIES

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Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AI26003 - St. Charles Refinery						
EQT0321	2008-8 - PEU No. 2 H1		803 MM BTU/hr	730 MM BTU/hr		8760 hr/yr (All Year)
EQT0322	2008-9 - PEU No. 2 H2		122 MM BTU/hr	111 MM BTU/hr		8760 hr/yr (All Year)
EQT0323	2008-10 - Boiler 401-F		715 MM BTU/hr	650 MM BTU/hr		8760 hr/yr (All Year)
EQT0324	2008-11 - Boiler 401-G		715 MM BTU/hr	650 MM BTU/hr		8760 hr/yr (All Year)
EQT0325	2008-12 - Hydrocracked Naphtha Import Tank, EFR	200000 bbl				8760 hr/yr (All Year)
EQT0326	2008-13 - Hydrocracked Naphtha Import Tank, EFR	200000 bbl				8760 hr/yr (All Year)
EQT0327	2008-14 - Benzene Concentrate Import Tank, IFR	150000 bbl				8760 hr/yr (All Year)
EQT0328	2008-15 - Benzene Concentrate Import Tank, IFR	150000 bbl				8760 hr/yr (All Year)
EQT0329	2008-16 - Heavy Reformate / Off-Spec Product Tank, IFR	150000 bbl				8760 hr/yr (All Year)
EQT0330	2008-17 - Rotating Spare Intermediate Tank, IFR	150000 bbl				8760 hr/yr (All Year)
EQT0331	2008-18 - Sulfolane Solvent Tank, IFR	15000 bbl				8760 hr/yr (All Year)
EQT0332	2008-19 - Sulfolane Plant Inventory Tank, IFR	15000 bbl				8760 hr/yr (All Year)
EQT0333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR	15000 bbl				8760 hr/yr (All Year)
EQT0334	2008-21 - Parex Desorbent Tank, IFR	30000 bbl				8760 hr/yr (All Year)
EQT0335	2008-22 - Parex Plant Inventory Tank, IFR	30000 bbl				8760 hr/yr (All Year)
EQT0336	2008-23 - Benzene Day Tank, IFR	20000 bbl				8760 hr/yr (All Year)
EQT0337	2008-24 - Benzene Day Tank, IFR	20000 bbl				8760 hr/yr (All Year)
EQT0338	2008-25 - Para-Xylene Day Tank, IFR	30000 bbl				8760 hr/yr (All Year)
EQT0339	2008-26 - Para-Xylene Day Tank, IFR	30000 bbl				8760 hr/yr (All Year)
EQT0340	2008-27 - Benzene Product Tank, IFR	150000 bbl				8760 hr/yr (All Year)
EQT0341	2008-28 - Benzene Product Tank, IFR	150000 bbl				8760 hr/yr (All Year)
EQT0342	2008-29 - Para-Xylene Product Tank, IFR	300000 bbl				8760 hr/yr (All Year)
EQT0343	2008-30 - Para-Xylene Product Tank, IFR	300000 bbl				8760 hr/yr (All Year)
EQT0344	2008-31 - Raffinate Tank, EFR	250000 bbl				8760 hr/yr (All Year)
EQT0345	2008-32 - Thermal Oxidizer No. 5		15 MM BTU/hr			8760 hr/yr (All Year)
EQT0346	2008-33 - Thermal Oxidizer No. 6		15 MM BTU/hr			8760 hr/yr (All Year)
EQT0347	2008-34 - Thermal Oxidizer No. 7		15 MM BTU/hr			8760 hr/yr (All Year)
EQT0348	2008-35 - ARU Cooling Tower		50000 gallons/min			8760 hr/yr (All Year)
EQT0350	94-8 - MVR Thermal Oxidizer No. 1		240 MM BTU/hr	200 MM BTU/hr		8760 hr/yr (All Year)
EQT0351	2008-38 - MVR Thermal Oxidizer No. 2			200 MM BTU/hr		8760 hr/yr (All Year)
EQT0352	2008-40 - Boiler 401-H		715 MM BTU/hr	650 MM BTU/hr		8760 hr/yr (All Year)
EQT0353	2008-41 - Thermal Oxidizer No. 8		10 MM BTU/hr	10 MM BTU/hr		8760 hr/yr (All Year)
EQT0354	2008-43 - Heavy Reformate Tank, IFR	200000 bbl				8760 hr/yr (All Year)
EQT0355	2008-44 - Tank T-13-15, EFR	150000 bbl				8760 hr/yr (All Year)
EQT0356	2008-45 - Tank T-04-33, EFR	150000 bbl				8760 hr/yr (All Year)
EQT0357	2008-46 - Railcar Loading Rack		8000 bbl/day			8760 hr/yr (All Year)
EQT0358	SRU SU/SD - SRUs Startups and Shutdowns					(None Specified)
EQT0359	WWTU - Wastewater Treatment Unit					8760 hr/yr (All Year)
EQT0360	2004-5B - Flare No. 4			6 MM BTU/hr		8760 hr/yr (All Year)
EQT0361	API-S - API Separator					8760 hr/yr (All Year)

INVENTORIES

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AI26003 - St. Charles Refinery						
EQT0362	DGF - Dissolved Gas Flotation					8760 hr/yr (All Year)
EQT0363	ARUML - ARU Marine Loading					8760 hr/yr (All Year)
EQT0364	2008-47 - CCR Chlorosorb Vent					8760 hr/yr (All Year)
EQT0365	2008-48 - CCR Dust Collector Vent					8760 hr/yr (All Year)
EQT0366	Process Fuel Gas - ARU Process Fuel Gas System					8760 hr/yr (All Year)
EQT0369	CRUIDS - New CRU Individual Drain System					8760 hr/yr (All Year)
EQT0370	CCG1 - Subpart CC Group 1 Miscellaneous Process Vents					8760 hr/yr (All Year)
EQT0371	CCG2 - Subpart CC Group 2 Miscellaneous Process Vents					8760 hr/yr (All Year)
EQT0372	2008-36 - ARU Flare			25 MM BTU/hr		8760 hr/yr (All Year)
FUG0025	Road Dust 05 - Road Dust Emissions					8760 hr/yr (All Year)
FUG0026	91-0 - Refinery Fugitive Emissions					8760 hr/yr (All Year)
FUG0027	2008-39 - ARU Fugitive Emissions					8760 hr/yr (All Year)
FUG0029	2008-37 - ARU Marine Loading Dock Fugitive Emissions					8760 hr/yr (All Year)
TRT0001	17-77 - SRU No. 1		528 long tons/day	440 long tons/day		8760 hr/yr (All Year)
TRT0002	94-3 - SRU No. 2		528 long tons/day	440 long tons/day		8760 hr/yr (All Year)
TRT0003	94-4 - SRU No. 3		528 long tons/day	440 long tons/day		8760 hr/yr (All Year)
TRT0006	2005-60 - SRU No. 4		528 long tons/day	440 long tons/day		8760 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
AI26003 - St. Charles Refinery							
EQT0004	10-81 - Vacuum No. 2 Heater F-52-1A	12.3	70195	11		163	364
EQT0005	11-81 - Vacuum No. 2 Heater F-52-1B	13.3	76076	11		163	433
EQT0007	12-81 - Flare No. 2			3		200	1831
EQT0010	13-81 - Cooling Tower 403	150	1130	24		65.3	
EQT0012	14-81 - Coker No. 1 Heater No. 1 F-53-1A			10		150	400
EQT0013	15-77 - Flare No. 1			3		200	1831
EQT0014	15-81 - Coker No. 1 Heater No. 2 F-53-1B			10		150	400
EQT0016	16-77 - FCCU No. 2 Regenerator	57.4	475000	13.25		200	160
EQT0017	16-81 - Coker No. 1 Heater No. 3 F-53-1C			10		150	400
EQT0028	2004-1 - Hydro Treater Heater No. 1 H-60-1	60		1.3		240	532
EQT0029	2004-10 - Boiler 401-E	57.7		5		150	377
EQT0031	2004-2 - Hydro Treater Heater No. 2 H-60-2	60		1.3		240	532
EQT0032	2004-3 - Hydro Treater Heater No. 3 H-60-3	60		1.3		240	532
EQT0033	2004-4 - Hydro Treater Heater No. 4 H-60-4	60		1.3		240	532
EQT0034	2004-5A - Flare No. 3	65.6		4.5		381	1834

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Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
AI26003 - St. Charles Refinery							
EQT0035	2004-6 - Cooling Tower CT-600	38.5		22		44	
EQT0036	2004-7 - SMR1 Heater No. 1	18		13		100	377
EQT0037	2004-8 - SMR1 Heater No. 2	18		13		100	377
EQT0052	36-81 - Coker No. 1 Heater No. 4 F-53-1D			10		150	400
EQT0054	4-81 - DHT Heater H-15-01A	25.6	91253	8.7		141	500
EQT0055	5-76 - Cooling Tower 402	139	880000	22		44	
EQT0056	5-81 - DHT Heater H-15-01B	25.6	91253	8.7		141	500
EQT0058	6-76 - Cooling Tower 401	139	880000	22		44	
EQT0059	6-77 - Heater F-33-01	14.7	62400	9.5		136.5	550
EQT0060	6-81 - HDS No. 1 Heater H-15-05	25.6	91253	8.7		141	500
EQT0063	7-81 - Heater F-72-703	22.2	176500	13		203	350
EQT0075	94-2 - Cooling Tower 800			22		52	
EQT0076	94-21 - Heater F-33-05	36	24425	3.8		66	1200
EQT0077	94-28 - Heater H-39-03	27.4	44952	5.9		132	550
EQT0078	94-29 - Heater H-39-01	27.4	44952	5.9		132	550
EQT0079	94-30 - Heater H-39-02	14.5	20600	5.9		132	550
EQT0080	94-43 - Boiler B-401C	56.9	96500	6		150	375
EQT0081	94-45 - Boiler B-401D	56.9	96500	6		150	375
EQT0082	94-47 - Cooling Tower CT-405			3.3		44	
EQT0083	94-48 - Cooling Tower			3.3		44	
EQT0084	94-49 - Cooling Tower	139	880	22		44	
EQT0093	94-CCR - CCR Heater	30.8	61400	6.5		75	810
EQT0094	94-GDU - Low Sulfur Gasoline Unit Heater	34	70000	4.7		200	810
EQT0104	98-114 - Sulfuric Acid Storage	16	2444	1.8		50	110
EQT0105	98-115 - Sulfuric Acid Loading	16	2444	1.8		50	110
EQT0195	99-3 - Thermal Oxidizer No. 2	70	161620	7		175	1200
EQT0196	99-4 - Thermal Oxidizer No. 3	51.3	118520	7		200	1200
EQT0200	99-8 - CCR Vent Gas Wash Tower	10.6	500	1		50	100
EQT0203	2005-1 - Crude 2 Heater B	40.8		13		203	352
EQT0204	2005-2 - VAC 2 Charge Heater	17.8		13		203	352
EQT0205	2005-3 - COKER 2 Charge Heater	17.8		13		203	352
EQT0210	2005-8 - H001 1st Stage Charge Heater	92.4		3		150	542
EQT0211	2005-9 - H002 2nd Stage Charge Heater	33		3		120	592
EQT0212	2005-10 - H003 Fractionator Charge Heater	20.8		9.8		200	513

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Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
AI26003 - St. Charles Refinery							
EQT0224	2005-22 - GDU 2 Heater	65.9		5		167	487
EQT0225	2005-23 - HCU 2 1st Stage Charge Heater	92.4		3		150	542
EQT0226	2005-24 - HCU 2 2nd Stage Charge Heater	33		3		120	592
EQT0227	2005-25 - HCU 2 Absorber/Dec 2 Reboiler	20.8		9.8		200	513
EQT0228	2005-26 - HCU 2 Naphtha Splitter Reboiler	60.9		6		200	377
EQT0229	2005-27 - HCU 2 Recycle Splitter Reboiler	97.9		3		150	542
EQT0230	2005-28 - LEU 2 Dec 4 Reboiler	17.2		9.8		200	513
EQT0237	2005-35 - PENEX Rx Feed Heater	47		2.3		150	532
EQT0238	2005-36 - PENEX Dryer Regenerator Heater	45.5		1.5		150	532
EQT0239	2005-37 - PENEX Mole Sieve Regenerator Heater	47.1		4.9		150	532
EQT0240	2005-38 - Flare No. 5	65.6		11.5		213	1834
EQT0241	2005-39 - Thermal Oxidizer No. 1	51.3		7		200	1152
EQT0242	2005-40 - FCCU No. 3 Regenerator	57.4		13.3		225	162
EQT0243	2005-42 - HCU Cooling Tower	31.5		31.2		65	
EQT0244	2005-43 - New West Plant Cooling Tower	31.5		31.2		65	
EQT0250	2005-58 - Coker No. 1 Steam Vent						
EQT0251	2005-59 - Coker No. 2 Steam Vent						
EQT0252	01-02 - Diesel Engines	65.6	333	.33		10	600
EQT0254	RPV - Refinery Process Vent Streams						
EQT0255	WW - Wastewater Collection and Conveyance						
EQT0312	Fuel Gas - Refinery Fuel Gas System						
EQT0313	2007-4 - Thermal Oxidizer No. 4	51.3		7		200	1152
EQT0314	2008-1 - CRU H1	45.5		2.5		200	532
EQT0315	2008-2 - CRU H2, H4, and H5	36.1		12		250	402
EQT0316	2008-3 - CRU H3	36.1		12		250	402
EQT0317	2008-4 - TPU H1	60		2.5		200	530
EQT0318	2008-5 - TPU H2	60		2.5		200	530
EQT0319	2008-6 - PEU No. 1 H1	29.2		12		250	377
EQT0320	2008-7 - PEU No. 1 H2	60		2.5		200	530
EQT0321	2008-8 - PEU No. 2 H1	29.2		12		250	377
EQT0322	2008-9 - PEU No. 2 H2	60		2.5		200	532
EQT0323	2008-10 - Boiler 401-F	57.7		8		200	377
EQT0324	2008-11 - Boiler 401-G	27.5		8		200	352
EQT0345	2008-32 - Thermal Oxidizer No. 5	51.3		7		100	1152

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Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
AI26003 - St. Charles Refinery							
EQT0346	2008-33 - Thermal Oxidizer No. 6	51.3		7		100	1152
EQT0347	2008-34 - Thermal Oxidizer No. 7	51.3		7		100	1152
EQT0348	2008-35 - ARU Cooling Tower	38.5		22		44	
EQT0350	94-8 - MVR Thermal Oxidizer No. 1	21.3	144597	12		70	890
EQT0351	2008-38 - MVR Thermal Oxidizer No. 2	21.3		12		70	892
EQT0352	2008-40 - Boiler 401-H	27.5		8		200	352
EQT0353	2008-41 - Thermal Oxidizer No. 8	51.3		7		100	1152
EQT0358	SRU SU/SD - SRUs Startups and Shutdowns						
EQT0360	2004-5B - Flare No. 4	65.6		2		381	1834
EQT0366	Process Fuel Gas - ARU Process Fuel Gas System						
EQT0370	CCG1 - Subpart CC Group 1 Miscellaneous Process Vents						
EQT0371	CCG2 - Subpart CC Group 2 Miscellaneous Process Vents						
EQT0372	2008-36 - ARU Flare	65.6		11.5		213	1834

Relationships:

ID	Description	Relationship	ID	Description
EQT0092	94-9 - Petroleum Product Loading Docks	Controlled by	EQT0350	94-8 - MVR Thermal Oxidizer No. 1
EQT0254.	RPV - Refinery Process Vent Streams	Controlled by	EQT0360	2004-5B - Flare No. 4
EQT0254	RPV - Refinery Process Vent Streams	Controlled by	EQT0007	12-81 - Flare No. 2
EQT0254	RPV - Refinery Process Vent Streams	Controlled by	EQT0013	15-77 - Flare No. 1
EQT0254	RPV - Refinery Process Vent Streams	Controlled by	EQT0034	2004-5A - Flare No. 3
EQT0254	RPV - Refinery Process Vent Streams	Controlled by	EQT0240	2005-38 - Flare No. 5
EQT0327	2008-14 - Benzene Concentrate Import Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0327	2008-14 - Benzene Concentrate Import Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0327	2008-14 - Benzene Concentrate Import Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0328	2008-15 - Benzene Concentrate Import Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0328	2008-15 - Benzene Concentrate Import Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0328	2008-15 - Benzene Concentrate Import Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0330	2008-17 - Rotating Spare Intermediate Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0330	2008-17 - Rotating Spare Intermediate Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0330	2008-17 - Rotating Spare Intermediate Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0331	2008-18 - Sulfolane Solvent Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0331	2008-18 - Sulfolane Solvent Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0331	2008-18 - Sulfolane Solvent Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0332	2008-19 - Sulfolane Plant Inventory Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5

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Relationships:

ID	Description	Relationship	ID	Description
EQT0332	2008-19 - Sulfolane Plant Inventory Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0332	2008-19 - Sulfolane Plant Inventory Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0334	2008-21 - Parex Desorbent Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0334	2008-21 - Parex Desorbent Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0334	2008-21 - Parex Desorbent Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0335	2008-22 - Parex Plant Inventory Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0335	2008-22 - Parex Plant Inventory Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0335	2008-22 - Parex Plant Inventory Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0336	2008-23 - Benzene Day Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0336	2008-23 - Benzene Day Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0336	2008-23 - Benzene Day Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0337	2008-24 - Benzene Day Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0337	2008-24 - Benzene Day Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0337	2008-24 - Benzene Day Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0338	2008-25 - Para-Xylene Day Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0338	2008-25 - Para-Xylene Day Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0338	2008-25 - Para-Xylene Day Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0339	2008-26 - Para-Xylene Day Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0339	2008-26 - Para-Xylene Day Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0339	2008-26 - Para-Xylene Day Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0340	2008-27 - Benzene Product Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0340	2008-27 - Benzene Product Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0340	2008-27 - Benzene Product Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0341	2008-28 - Benzene Product Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0341	2008-28 - Benzene Product Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0341	2008-28 - Benzene Product Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0342	2008-29 - Para-Xylene Product Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0342	2008-29 - Para-Xylene Product Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0342	2008-29 - Para-Xylene Product Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0343	2008-30 - Para-Xylene Product Tank, IFR	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0343	2008-30 - Para-Xylene Product Tank, IFR	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6
EQT0343	2008-30 - Para-Xylene Product Tank, IFR	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0357	2008-46 - Railcar Loading Rack	Controlled by	EQT0345	2008-32 - Thermal Oxidizer No. 5
EQT0357	2008-46 - Railcar Loading Rack	Controlled by	EQT0346	2008-33 - Thermal Oxidizer No. 6

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Relationships:

ID	Description	Relationship	ID	Description
EQT0357	2008-46 - Railcar Loading Rack	Controlled by	EQT0347	2008-34 - Thermal Oxidizer No. 7
EQT0361	API-S - API Separator	Internal	EQT0359	WWTU - Wastewater Treatment Unit
EQT0361	API-S - API Separator	Controlled by	EQT0353	2008-41 - Thermal Oxidizer No. 8
EQT0362	DGF - Dissolved Gas Flotation	Internal	EQT0359	WWTU - Wastewater Treatment Unit
EQT0362	DGF - Dissolved Gas Flotation	Controlled by	EQT0353	2008-41 - Thermal Oxidizer No. 8
EQT0363	ARUML - ARU Marine Loading	Controlled by	EQT0351	2008-38 - MVR Thermal Oxidizer No. 2
EQT0365	2008-48 - CCR Dust Collector Vent	Controlled by	GRP0006	FLARECAP - Flare Cap and Common Requirements
EQT0369	CRUIDS - New CRU Individual Drain System	Internal	EQT0359	WWTU - Wastewater Treatment Unit
TRT0001	17-77 - SRU No. 1	Controlled by	EQT0241	2005-39 - Thermal Oxidizer No. 1
TRT0002	94-3 - SRU No. 2	Controlled by	EQT0195	99-3 - Thermal Oxidizer No. 2
TRT0003	94-4 - SRU No. 3.	Controlled by	EQT0196	99-4 - Thermal Oxidizer No. 3
TRT0006	2005-60 - SRU No. 4	Controlled by	EQT0313	2007-4 - Thermal Oxidizer No. 4

Subject Item Groups:

ID	Group Type	Group Description
CRG0001	Common Requirements Group	CCG1 - Tanks Common Requirements
CRG0002	Common Requirements Group	CCG2 - Group 2 Tanks Common Requirements
CRG0003	Common Requirements Group	KBG1 - EFR Tanks Common Requirements
CRG0004	Common Requirements Group	HEATER4 - Heaters Common Requirements
CRG0005	Common Requirements Group	HEATER5 - Heaters Common Requirements
CRG0007	Common Requirements Group	HONG2 - Tanks Common Requirements
CRG0008	Common Requirements Group	HONG1 - Tanks Common Requirements
CRG0009	Common Requirements Group	NEWCCG1 - Tanks Common Requirements
CRG0010	Common Requirements Group	CRG010 - Small Heaters Common Requirements
CRG0011	Common Requirements Group	BOILERS - Boilers Common Requirements
CRG0012	Common Requirements Group	CRG012 - IFR Tanks Common Requirements
CRG0013	Common Requirements Group	CWT - Cooling Towers Common Requirements
CRG0014	Common Requirements Group	MSCCRVP - MSCC Revamp Project
GRP0005	Equipment Group	COKERCAP - Coker Heater Cap and Common Requirements
GRP0006	Equipment Group	FLARECAP - Flare Cap and Common Requirements
GRP0007	Equipment Group	SRU/TOCAP - SRU/TO Cap and Common Requirements
GRP0008	Equipment Group	TANK CAP - Tank Summary
GRP0012	Equipment Group	ULSDCAP - ULSD Heater Cap and Common Requirements
GRP0013	Equipment Group	DHTCAP - DHT Heater Cap and Common Requirements
GRP0015	Equipment Group	HCU1CAP - HCU1 Heater Cap and Common Requirements
GRP0016	Equipment Group	HCU2/LEU3CAP - HCU2/LEU3 Heater Cap and Common Requirements
GRP0018	Equipment Group	TANKTOCAP - TANKTO Cap and Common Requirements

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Subject Item Groups:

ID	Group Type	Group Description
SCN0002	Alternate Operating Scenario	VACCAP-SCN2 - Vacuum Heater Cap and Common Requirements
UNF0001	Unit or Facility Wide	AI26003 - St. Charles Refinery

Group Membership:

ID	Description	Member of Groups
EQT0004	10-81 - Vacuum No. 2 Heater F-52-1A	SCN0000000002
EQT0005	11-81 - Vacuum No. 2 Heater F-52-1B	SCN0000000002
EQT0006	11-89 - Tank 37-1	CRG0000000002, GRP0000000008
EQT0007	12-81 - Flare No. 2	GRP0000000006
EQT0008	12-89 - Tank 55-1	CRG0000000002, GRP0000000008
EQT0010	13-81 - Cooling Tower 403	CRG0000000013
EQT0012	14-81 - Coker No. 1 Heater No. 1 F-53-1A	GRP0000000005
EQT0013	15-77 - Flare No. 1	GRP0000000006
EQT0014	15-81 - Coker No. 1 Heater No. 2 F-53-1B	GRP0000000005
EQT0016	16-77 - FCCU No. 2 Regenerator	CRG0000000014
EQT0017	16-81 - Coker No. 1 Heater No. 3 F-53-1C	GRP0000000005
EQT0018	16-89 - Tank 55-8	CRG0000000002, GRP0000000008
EQT0019	18-81 - Tank 625-1	CRG0000000001, GRP0000000008
EQT0022	19-81 - Tank 625-2	CRG0000000003, GRP0000000008
EQT0026	20-81 - Tank 625-3	CRG0000000003, GRP0000000008
EQT0028	2004-1 - Hydro Treater Heater No. 1 H-60-1	GRP0000000012
EQT0031	2004-2 - Hydro Treater Heater No. 2 H-60-2	GRP0000000012
EQT0032	2004-3 - Hydro Treater Heater No. 3 H-60-3	GRP0000000012
EQT0033	2004-4 - Hydro Treater Heater No. 4 H-60-4	GRP0000000012
EQT0034	2004-5A - Flare No. 3	GRP0000000006
EQT0035	2004-6 - Cooling Tower CT-600	CRG0000000013
EQT0036	2004-7 - SMR1 Heater No. 1	CRG0000000014
EQT0037	2004-8 - SMR1 Heater No. 2	CRG0000000014
EQT0041	22-81 - Tank 425-1	CRG0000000001, GRP0000000008
EQT0042	23-81 - Tank 425-2	CRG0000000001, GRP0000000008
EQT0043	24-81 - Tank 425-3	CRG0000000002, GRP0000000008
EQT0044	25-81 - Tank 425-4	CRG0000000002, GRP0000000008
EQT0045	26-81 - Tank 625-5	CRG0000000003, GRP0000000008
EQT0046	27-81 - Tank 625-6	CRG0000000003, GRP0000000008
EQT0047	28-81 - Tank 425-5	CRG0000000002, GRP0000000008
EQT0048	29-81 - Tank 325-5	CRG0000000003, GRP0000000008
EQT0049	30-81 - Tank 325-6	CRG0000000003, GRP0000000008
EQT0050	31-81 - Tank 180-9	CRG0000000003, GRP0000000008
EQT0051	32-81 - Tank 425-9	CRG0000000003, GRP0000000008
EQT0052	36-81 - Coker No. 1 Heater No. 4 F-53-1D	GRP0000000005
EQT0054	4-81 - DHT Heater H-15-01A	GRP0000000013
EQT0055	5-76 - Cooling Tower 402	CRG0000000013

INVENTORIES

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Group Membership:

ID	Description	Member of Groups
EQT0056	5-81 - DHT Heater H-15-01B	GRP0000000013
EQT0058	6-76 - Cooling Tower 401	CRG0000000013
EQT0060	6-81 - HDS No. 1 Heater H-15-05	CRG0000000004
EQT0066	94-10 - Tank 45-1	CRG0000000003, GRP0000000008
EQT0067	94-11 - Tank 45-2	CRG0000000003, GRP0000000008
EQT0068	94-12 - Tank 150-24	CRG0000000003, GRP0000000008
EQT0069	94-13 - Tank 150-25	CRG0000000003, GRP0000000008
EQT0074	94-18 - Tank 118-1	GRP0000000008
EQT0075	94-2 - Cooling Tower 800	CRG0000000013
EQT0082	94-47 - Cooling Tower CT-405	CRG0000000013
EQT0083	94-48 - Cooling Tower	CRG0000000013
EQT0084	94-49 - Cooling Tower	CRG0000000013
EQT0085	94-50 - Tank 150-26	GRP0000000008
EQT0086	94-51 - Tank 150-27	GRP0000000008
EQT0087	94-52 - Tank 150-22	CRG0000000002, GRP0000000008
EQT0088	94-53 - Tank 150-23	CRG0000000002, GRP0000000008
EQT0089	94-57 - Fleet Diesel Storage	CRG0000000002, GRP0000000008
EQT0090	94-58 - Fleet Gasoline Storage	CRG0000000002, GRP0000000008
EQT0091	94-59 - Tank 67-1	CRG0000000003, GRP0000000008
EQT0092	94-9 - Petroleum Product Loading Docks	CRG0000000014
EQT0094	94-GDU - Low Sulfur Gasoline Unit Heater	CRG0000000014
EQT0097	96-4 - Sulfuric Acid Tank T-1403	GRP0000000008
EQT0099	96-6 - Tank T-04-32	CRG0000000003, GRP0000000008
EQT0103	98-113 - Tank V-28-4	CRG0000000002, GRP0000000008
EQT0134	98-40 - Tank 41	CRG0000000002, GRP0000000008
EQT0142	98-48 - Tank 55-5	CRG0000000002, GRP0000000008
EQT0143	98-49 - Tank 55-6	CRG0000000002, GRP0000000008
EQT0146	98-52 - Tank 57	CRG0000000002, GRP0000000008
EQT0148	98-54 - Tank 75	CRG0000000002, GRP0000000008
EQT0149	98-55 - Tank 76	CRG0000000002, GRP0000000008
EQT0150	98-56 - Tank 77	CRG0000000002, GRP0000000008
EQT0151	98-57 - Tank 78	CRG0000000002, GRP0000000008
EQT0154	98-60 - Tank 80-1	CRG0000000002, GRP0000000008
EQT0155	98-61 - Tank 80-3	CRG0000000002, GRP0000000008
EQT0156	98-62 - Tank 80-4	CRG0000000002, GRP0000000008
EQT0157	98-63 - Tank 81	CRG0000000002, GRP0000000008
EQT0160	98-66 - Tank 130-1	CRG0000000001, GRP0000000008
EQT0161	98-67 - Tank 130-2	CRG0000000001, GRP0000000008
EQT0162	98-68 - Tank 130-3	CRG0000000001, GRP0000000008
EQT0164	98-70 - Tank 130-5	CRG0000000001, GRP0000000008
EQT0165	98-71 - Tank 130-6	CRG0000000001, GRP0000000008
EQT0166	98-72 - Tank 130-7	CRG0000000002, GRP0000000008
EQT0167	98-73 - Tank 130-8	CRG0000000002, GRP0000000008

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Group Membership:

ID	Description	Member of Groups
EQT0168	98-74 - Tank 130-9	CRG0000000002, GRP0000000008
EQT0169	98-75 - Tank 150-1	CRG0000000002, CRG0000000003, GRP0000000008
EQT0170	98-76 - Tank 150-2	CRG0000000003, GRP0000000008
EQT0171	98-77 - Tank 150-3	CRG0000000002, CRG0000000003, GRP0000000008
EQT0172	98-78 - Tank 150-4	CRG0000000002, GRP0000000008
EQT0173	98-79 - Tank 150-5	CRG0000000002, GRP0000000008
EQT0174	98-80 - Tank 150-6	CRG0000000002, GRP0000000008
EQT0175	98-81 - Tank 150-7	CRG0000000002, GRP0000000008
EQT0176	98-82 - Tank 150-8	CRG0000000002, GRP0000000008
EQT0178	98-84 - Tank 150-17	CRG0000000002, GRP0000000008
EQT0179	98-85 - Tank 150-18	CRG0000000001, GRP0000000008
EQT0180	98-86 - Tank 150-19	CRG0000000001, GRP0000000008
EQT0181	98-87 - Tank 150-20	CRG0000000003, GRP0000000008
EQT0182	98-88 - Tank 150-21	CRG0000000002, GRP0000000008
EQT0183	98-89 - Tank 175-1	CRG0000000002, GRP0000000008
EQT0186	98-91 - Tank 325-1	CRG0000000001, GRP0000000008
EQT0187	98-92 - Tank 325-2	CRG0000000001, GRP0000000008
EQT0188	98-93 - Tank 325-3	CRG0000000001, GRP0000000008
EQT0189	98-94 - Tank 325-4	CRG0000000003, GRP0000000008
EQT0195	99-3 - Thermal Oxidizer No. 2	GRP0000000007
EQT0196	99-4 - Thermal Oxidizer No. 3	GRP0000000007
EQT0198	99-6 - Tank V-10-13	GRP0000000008
EQT0199	99-7 - Tank V-10-14	GRP0000000008
EQT0203	2005-1 - Crude 2 Heater B	CRG0000000004
EQT0204	2005-2 - VAC 2 Charge Heater	CRG0000000004
EQT0205	2005-3 - COKER 2 Charge Heater	CRG0000000004
EQT0210	2005-8 - H001 1st Stage Charge Heater	GRP0000000015
EQT0211	2005-9 - H002 2nd Stage Charge Heater	GRP0000000015
EQT0212	2005-10 - H003 Fractionator Charge Heater	GRP0000000015
EQT0224	2005-22 - GDU 2 Heater	CRG0000000004
EQT0225	2005-23 - HCU 2 1st Stage Charge Heater	GRP0000000016
EQT0226	2005-24 - HCU 2 2nd Stage Charge Heater	GRP0000000016
EQT0227	2005-25 - HCU 2 Absorber/Dec 2 Reboiler	GRP0000000016
EQT0228	2005-26 - HCU 2 Naphtha Splitter Reboiler	GRP0000000016
EQT0229	2005-27 - HCU 2 Recycle Splitter Reboiler	GRP0000000016
EQT0230	2005-28 - LEU 2 Dec 4 Reboiler	GRP0000000016
EQT0237	2005-35 - PENEX Rx Feed Heater	CRG0000000004
EQT0238	2005-36 - PENEX Dryer Regenerator Heater	CRG0000000004
EQT0239	2005-37 - PENEX Mole Sieve Regenerator Heater	CRG0000000004
EQT0240	2005-38 - Flare No. 5	GRP0000000006
EQT0241	2005-39 - Thermal Oxidizer No. 1	GRP0000000007
EQT0243	2005-42 - HCU Cooling Tower	CRG0000000013
EQT0244	2005-43 - New West Plant Cooling Tower	CRG0000000013

INVENTORIES

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Group Membership:

ID	Description	Member of Groups
EQT0245	2005-53 - Light Materials Tank	CRG0000000009, GRP0000000008
EQT0246	2005-54 - Sour Water Tank	CRG0000000009, GRP0000000008
EQT0313	2007-4 - Thermal Oxidizer No. 4	GRP0000000007
EQT0315	2008-2 - CRU H2, H4, and H5	CRG0000000005
EQT0316	2008-3 - CRU H3	CRG0000000005
EQT0317	2008-4 - TPU H1	CRG0000000010
EQT0318	2008-5 - TPU H2	CRG0000000010
EQT0319	2008-6 - PEU No. 1 H1	CRG0000000005
EQT0320	2008-7 - PEU No. 1 H2	CRG0000000010
EQT0321	2008-8 - PEU No. 2 H1	CRG0000000005
EQT0322	2008-9 - PEU No. 2 H2	CRG0000000010
EQT0323	2008-10 - Boiler 401-F	CRG0000000011
EQT0324	2008-11 - Boiler 401-G	CRG0000000011
EQT0325	2008-12 - Hydrocracked Naphtha Import Tank, EFR	CRG0000000009, GRP0000000008
EQT0326	2008-13 - Hydrocracked Naphtha Import Tank, EFR	CRG0000000009, GRP0000000008
EQT0327	2008-14 - Benzene Concentrate Import Tank, IFR	CRG0000000008
EQT0328	2008-15 - Benzene Concentrate Import Tank, IFR	CRG0000000008
EQT0329	2008-16 - Heavy Reformate / Off-Spec Product Tank, IFR	CRG0000000009
EQT0330	2008-17 - Rotating Spare Intermediate Tank, IFR	CRG0000000007
EQT0331	2008-18 - Sulfolane Solvent Tank, IFR	CRG0000000007
EQT0332	2008-19 - Sulfolane Plant Inventory Tank, IFR	CRG0000000008
EQT0333	2008-20 - Sulfolane Clay Treater Charge Tank, IFR	CRG0000000008
EQT0334	2008-21 - Parex Desorbent Tank, IFR	CRG0000000007
EQT0335	2008-22 - Parex Plant Inventory Tank, IFR	CRG0000000007
EQT0336	2008-23 - Benzene Day Tank, IFR	CRG0000000008
EQT0337	2008-24 - Benzene Day Tank, IFR	CRG0000000008
EQT0338	2008-25 - Para-Xylene Day Tank, IFR	CRG0000000012
EQT0339	2008-26 - Para-Xylene Day Tank, IFR	CRG0000000012
EQT0340	2008-27 - Benzene Product Tank, IFR	CRG0000000008
EQT0341	2008-28 - Benzene Product Tank, IFR	CRG0000000008
EQT0342	2008-29 - Para-Xylene Product Tank, IFR	CRG0000000012
EQT0343	2008-30 - Para-Xylene Product Tank, IFR	CRG0000000012
EQT0344	2008-31 - Raffinate Tank, EFR	CRG0000000008, GRP0000000008
EQT0345	2008-32 - Thermal Oxidizer No. 5	GRP0000000018
EQT0346	2008-33 - Thermal Oxidizer No. 6	GRP0000000018
EQT0347	2008-34 - Thermal Oxidizer No. 7	GRP0000000018
EQT0350	94-8 - MVR Thermal Oxidizer No. 1	CRG0000000014
EQT0352	2008-40 - Boiler 401-H	CRG0000000011
EQT0354	2008-43 - Heavy Reformate Tank, IFR	CRG0000000009, GRP0000000008
EQT0355	2008-44 - Tank T-13-15, EFR	CRG0000000009, GRP0000000008
EQT0356	2008-45 - Tank T-04-33, EFR	CRG0000000009, GRP0000000008
EQT0360	2004-5B - Flare No. 4	GRP0000000006
FUG0026	91-0 - Refinery Fugitive Emissions	CRG0000000014

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INVENTORIES

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Group Membership:

ID	Description	Member of Groups
GRP0007	SRU/TOCAP - SRU/TO Cap and Common Requirements	CRG0000000014
GRP0008	TANK CAP - Tank Summary	CRG0000000014
TRT0001	17-77 - SRU No. 1	GRP0000000007
TRT0002	94-3 - SRU No. 2	GRP0000000007
TRT0003	94-4 - SRU No. 3	GRP0000000007
TRT0006	2005-60 - SRU No. 4	GRP0000000007

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

SIC Codes:

2911	Petroleum refining	AI26003

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
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	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
AI26003 - St. Charles Refinery															
EQT 0004 10-81		35.43			17.21			3.21			11.02			2.32	
EQT 0005 11-81		35.43			17.20			3.21			11.02			2.32	
EQT 0007 12-81		168.30			31.00			1.00			50.00			28.50	
EQT 0010 13-81							0.96	1.20	4.20				2.06	2.57	9.01
EQT 0012 14-81		20.01			9.72			1.81			6.22			1.31	
EQT 0013 15-77		168.30			31.00			1.00			50.00			28.50	
EQT 0014 15-81		20.01			9.72			1.81			6.22			1.31	
EQT 0016 16-77	21.70	696.80	95.00	43.79	144.89	191.78	54.08	74.60	236.89	67.40	79.60	295.00	3.10	15.50	13.60
EQT 0017 16-81		20.01			9.72			1.81			6.22			1.31	
EQT 0028 2004-1		7.12			3.46			0.64			2.21			0.47	
EQT 0029 2004-10	28.82	43.24	126.25	14.00	21.00	61.32	2.61	3.91	11.42	8.96	13.45	39.26	1.89	2.83	8.27
EQT 0031 2004-2		1.98			0.96			0.18			0.61			0.13	
EQT 0032 2004-3		4.25			2.06			0.38			1.32			0.28	
EQT 0033 2004-4		7.12			3.46			0.64			2.21			0.47	
EQT 0034 2004-5A		28.05			12.95			0.17			25.00			4.74	
EQT 0035 2004-6							0.07	0.09	0.31				1.51	1.89	6.62
EQT 0036 2004-7	48.59	72.88	212.82	8.85	35.40	38.76	4.40	6.59	19.25	15.11	22.67	66.18	3.18	4.77	13.93
EQT 0037 2004-8	48.59	72.88	212.82	8.85	35.40	38.76	4.40	6.59	19.25	15.11	22.67	66.18	3.18	4.77	13.93
EQT 0052 36-81		20.01			9.72			1.81			6.22			1.31	
EQT 0054 4-81		5.76			5.60			0.52			1.79			0.38	
EQT 0055 5-76							0.09	0.12	0.41				2.02	2.52	8.83
EQT 0056 5-81		5.76			5.60			0.52			1.79			0.38	
EQT 0057 5-83							0.56		2.47						

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Activity Number: PER20080005
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Air - Title V Regular Permit Major Mod

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
AI26003 - St. Charles Refinery															
EQT 0058 6-76							0.69	0.86	3.00				1.47	1.84	6.44
EQT 0059 6-77	6.51	7.81	28.50	6.32	7.58	27.68	0.59	0.71	2.58	2.02	2.43	8.86	0.43	0.51	1.87
EQT 0060 6-81	7.41	11.12	32.46	3.60	5.40	15.77	0.67	1.01	2.94	2.30	3.46	10.10	0.49	0.73	2.13
EQT 0075 94-2							0.70	0.87	3.04				1.49	1.87	6.53
EQT 0076 94-21	3.29	3.95	14.43	3.20	3.84	14.02	0.30	0.36	1.31	1.02	1.23	4.49	0.22	0.26	0.94
EQT 0077 94-28	3.71	5.56	16.23	2.21	3.31	9.66	0.34	0.50	1.47	1.15	1.73	5.05	0.24	0.36	1.06
EQT 0078 94-29	4.12	6.18	18.04	2.45	3.68	10.74	0.37	0.56	1.63	1.28	1.92	5.61	0.27	0.40	1.18
EQT 0079 94-30	4.94	7.41	21.64	2.94	4.41	12.88	0.45	0.67	1.96	1.54	2.30	6.73	0.32	0.49	1.42
EQT 0080 94-43	25.28	37.92	110.74	24.56	46.37	107.57	2.29	3.43	10.02	7.86	11.79	34.44	1.66	2.48	7.25
EQT 0081 94-45	25.28	37.92	110.74	24.56	46.37	107.57	2.29	3.43	10.02	7.86	11.79	34.44	1.66	2.48	7.25
EQT 0082 94-47							0.20	0.24	0.86				0.42	0.53	1.84
EQT 0083 94-48							0.20	0.24	0.86				0.42	0.53	1.84
EQT 0084 94-49							0.41	0.51	1.80				0.88	1.10	3.86
EQT 0092 94-9													36.60	687.00	160.25
EQT 0093 94-CCR	26.60	31.95	116.51	12.92	15.52	56.59	2.41	2.89	10.54	8.27	9.94	36.23	1.74	2.09	7.63
EQT 0094 94-GDU	14.41	16.47	63.12	7.00	8.00	30.66	1.30	1.49	5.71	4.48	5.12	19.63	0.94	1.08	4.13
EQT 0104 98-114										1.10		5.00	1.10		5.00
EQT 0105 98-115										1.10		5.00	1.10		5.00
EQT 0184 98-9													1.40	261.00	6.10
EQT 0195 99-3		6.10			9.40			1.40			114.00			0.30	
EQT 0196 99-4		6.10			9.40			1.40			114.00			0.30	
EQT 0200 99-8													0.02	0.02	0.07
EQT 0203 2005-1	69.92	104.88	[1]306.24	33.96	50.94	148.74	6.33	9.49	27.71	21.74	32.61	95.23	4.58	6.87	20.05

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AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
AI26003 - St. Charles Refinery															
EQT 0204 2005-2	40.85	61.27	178.91	19.84	29.76	86.90	3.70	5.54	16.19	12.70	19.05	55.64	2.67	4.01	11.71
EQT 0205 2005-3	30.47	45.71	133.46	14.80	22.20	64.82	2.76	4.14	12.08	9.48	14.21	41.50	2.00	2.99	8.74
EQT 0210 2005-8		8.27			4.02			0.75			2.65			0.54	
EQT 0211 2005-9		6.79			3.30			0.61			2.17			0.44	
EQT 0212 2005-10		27.63			13.42			2.50			8.84			1.81	
EQT 0224 2005-22	14.33	21.49	62.76	6.96	10.44	30.48	1.30	1.94	5.68	4.46	6.68	19.52	0.94	1.41	4.11
EQT 0225 2005-23		10.25			4.98			0.93			3.19			0.67	
EQT 0226 2005-24		3.46			1.68			0.31			1.08			0.23	
EQT 0227 2005-25		25.32			12.30			2.29			7.88			1.66	
EQT 0228 2005-26		32.36			15.72			2.93			10.06			2.12	
EQT 0229 2005-27		10.87			5.28			0.98			3.38			0.71	
EQT 0230 2005-28		21.00			10.20			1.90			6.53			1.38	
EQT 0237 2005-35	2.06	3.09	9.02	1.00	1.50	4.38	0.19	0.28	0.82	0.64	0.96	2.80	0.13	0.20	0.59
EQT 0238 2005-36	0.82	1.24	3.61	0.40	0.60	1.75	0.07	0.11	0.33	0.26	0.38	1.12	0.05	0.08	0.24
EQT 0239 2005-37	9.47	14.21	41.48	4.60	6.90	20.15	0.86	1.29	3.75	2.95	4.42	12.90	0.62	0.93	2.72
EQT 0240 2005-38		56.10			25.90			0.33			50.00			9.50	
EQT 0241 2005-39		4.20			3.25			0.38			115.31			0.28	
EQT 0242 2005-40	133.26	787.46	583.69	43.79	144.89	191.78	63.10	74.60	276.00	76.15	179.99	333.54	20.17	23.83	88.33
EQT 0243 2005-42							0.08	0.10	0.34				1.68	2.10	7.36
EQT 0244 2005-43							0.06	0.08	0.27				1.34	1.68	5.89
EQT 0250 2005-58													1.03	14.43	4.52
EQT 0251 2005-59													1.03	14.43	4.52
EQT 0252 01-02	5.49	33.40	24.05	25.48	155.00	111.60	1.81	11.00	7.92	1.69	10.25	7.38	2.39	14.56	10.48

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AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
AI26003 - St. Charles Refinery															
EQT 0313 2007-4		4.20			3.25			0.38			115.31			0.28	
EQT 0314 2008-1	2.72	2.99	11.90	1.32	1.45	5.78	0.25	0.27	1.08	0.05	0.06	0.24	0.18	0.20	0.78
EQT 0315 2008-2	65.88	72.47	288.56	12.00	35.20	52.56	5.96	6.56	26.11	1.30	1.43	5.71	4.31	4.75	18.89
EQT 0316 2008-3	48.01	52.81	210.29	8.75	25.65	38.30	4.34	4.78	19.03	0.95	1.05	4.16	3.14	3.46	13.77
EQT 0317 2008-4	8.07	8.88	35.35	3.92	4.31	17.17	0.73	0.80	3.20	0.16	0.18	0.70	0.53	0.58	2.31
EQT 0318 2008-5	9.22	10.15	40.40	4.48	4.93	19.62	0.83	0.92	3.66	0.18	0.20	0.80	0.60	0.66	2.65
EQT 0319 2008-6	60.12	66.13	263.32	10.95	32.12	47.96	5.44	5.98	23.82	1.19	1.31	5.21	3.94	4.33	17.24
EQT 0320 2008-7	9.14	10.06	40.04	4.44	4.88	19.45	0.83	0.91	3.62	0.18	0.20	0.79	0.60	0.66	2.62
EQT 0321 2008-8	60.12	66.13	263.32	10.95	32.12	47.96	5.44	5.98	23.82	1.19	1.31	5.21	3.94	4.33	17.24
EQT 0322 2008-9	9.14	10.06	40.04	4.44	4.88	19.45	0.83	0.91	3.62	0.18	0.20	0.79	0.60	0.66	2.62
EQT 0323 2008-10	53.53	58.88	234.46	9.75	28.60	42.71	4.84	5.33	21.21	17.14	18.85	75.06	3.50	3.86	15.35
EQT 0324 2008-11	53.53	58.88	234.46	9.75	28.60	42.71	4.84	5.33	21.21	17.14	18.85	75.06	3.50	3.86	15.35
EQT 0345 2008-32		1.24			1.47			0.11			0.02			0.20	
EQT 0346 2008-33		1.24			1.47			0.11			0.02			0.20	
EQT 0347 2008-34		1.24			1.47			0.11			0.02			0.20	
EQT 0348 2008-35							0.10	0.12	0.43				2.10	2.63	9.20
EQT 0350 94-8	16.50	19.80	72.10	19.60	23.50	86.00	1.50	1.80	6.50	1.10	3.30	4.90	45.20	313.00	198.04
EQT 0351 2008-38	16.47	24.71	44.73	19.61	29.41	53.25	1.49	2.23	4.05	0.30	0.45	0.82	3.60	5.40	0.82
EQT 0352 2008-40	53.53	58.88	234.46	9.75	28.60	42.71	4.84	5.33	21.21	17.14	18.85	75.06	3.50	3.86	15.35
EQT 0353 2008-41	0.82	0.82	3.61	0.98	0.98	4.29	0.08	0.08	0.33	0.26	0.26	1.12	0.06	0.06	0.24
EQT 0357 2008-46														0.47	
EQT 0358 SRU SU/SD										215.42	258.50	69.80			
EQT 0359 WWTU													15.55		68.10

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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Air - Title V Regular Permit Major Mod

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
AI26003 - St. Charles Refinery															
EQT 0360 2004-5B		28.05			12.95			0.17			25.00			4.74	
EQT 0372 2008-36	9.60		42.04	1.76		7.73	0.06		0.25	0.04		0.17	2.61		11.42
FUG 0025 Road Dust 05							5.24		22.97						
FUG 0026 91-0													264.52		1158.97
FUG 0027 2008-39													9.71		42.54
FUG 0029 2008-37													0.31		1.36
GRP 0005 COKERCAP	30.31		132.74	14.72		64.47	2.74		12.01	9.42		41.28	1.98		8.69
GRP 0006 FLARECAP	44.90		197.00	20.70		90.50	0.26		1.20	40.00		175.00	7.60		33.50
GRP 0007 SRUTOCAP	12.60		55.19	9.50		41.62	1.14		4.99	256.25		1122.40	0.83		3.61
GRP 0008 TANK CAP													246.91		1081.46
GRP 0012 ULSDCAP	17.05		74.67	8.28		36.27	1.54		6.76	5.30		23.22	1.12		4.89
GRP 0013 DHTCAP	7.58		33.18	7.36		33.24	0.69		3.00	2.36		10.32	0.50		2.17
GRP 0015 HCU1CAP	34.15		149.58	16.59		72.66	3.09		13.53	10.93		47.89	2.24		9.79
GRP 0016 HCU2/LEU3CAP	61.60		269.81	29.92		131.05	5.57		24.41	19.16		83.91	4.03		17.67
GRP 0018 TANKTOCAP	2.47		10.82	2.94		12.88	0.23		0.98	0.05		0.20	0.54		2.36
SCN 0001 FCCU2-SCN1	**21.70**	**696.80**	**95.00**	**326.00**	**385.00**	**1427.00**	**63.10**	**74.60**	**276.00**	**67.40**	**79.60**	**295.00**	**3.10**	**15.50**	**13.60**
SCN 0002 VACCAP-SCN2	**33.44**		**146.45**	**16.24**		**71.13**	**3.03**		**13.25**	**10.40**		**45.54**	**2.19**		**9.59**
SCN 0003 7-81-SCN3	**21.10**	**25.32**	**92.50**	**41.70**	**50.04**	**183.00**	**3.93**	**5.90**	**17.23**	**13.52**	**20.28**	**59.23**	**0.74**	**0.89**	**3.30**
SCN 0004 3-81-SCN4	**5.25**	**7.78**	**22.98**	**35.03**	**52.55**	**153.45**	**0.47**	**0.71**	**2.08**	**1.63**	**2.45**	**7.15**	**0.34**	**0.52**	**1.50**
SCN 0005 2004-7-SCN5	**48.59**	**72.88**	**212.82**	**23.60**	**35.40**	**103.37**	**4.40**	**6.59**	**19.25**	**15.11**	**22.67**	**66.18**	**3.18**	**4.77**	**13.92**
SCN 0006 2004-8-SCN6	**48.59**	**72.88**	**212.82**	**23.60**	**35.40**	**103.37**	**4.40**	**6.59**	**19.25**	**15.11**	**22.67**	**66.18**	**3.18**	**4.77**	**13.92**

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

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EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0007 12-81	Benzene		0.10	
	n-Hexane		0.10	
EQT 0010 13-81	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.03
	Benzene	0.01	0.01	0.05
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.13	0.17	0.59
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	0.01	0.01	0.02
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.02	0.06
	Naphthalene	< 0.01	< 0.01	0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.03	0.04	0.14
	Xylene (mixed isomers)	0.04	0.05	0.16
	n-Hexane	0.02	0.02	0.07
EQT 0013 15-77	Benzene		0.10	
	n-Hexane		0.10	
EQT 0016 16-77	1,3-Butadiene	0.015	0.018	0.067
	Acetaldehyde	0.07	0.09	0.32
	Acrolein	0.006	0.007	0.026
	Ammonia	2.39	2.87	10.46
	Antimony (and compounds)	0.002	0.003	0.009
	Arsenic (and compounds)	0.002	0.002	0.009
	Barium (and compounds)	0.008	0.009	0.033
	Benzene	0.03	0.03	0.12
	Beryllium (Table 51.1)	0.001	0.001	0.004
	Cadmium (and compounds)	0.001	0.001	0.004
	Carbon disulfide	0.26	0.31	1.14
	Chlorine	0.08	0.09	0.34
	Chromium VI (and compounds)	0.004	0.005	0.019
	Cobalt compounds	0.01	0.01	0.02

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0016 16-77	Copper (and compounds)	0.006	0.007	0.027
	Cyanide compounds	0.29	0.34	1.26
	Ethyl benzene	0.04	0.04	0.16
	Formaldehyde	0.16	0.18	0.68
	Hydrochloric acid	0.04	0.04	0.16
	Hydrogen cyanide	0.04	0.04	0.16
	Hydrogen sulfide	0.38	0.90	1.68
	Lead compounds	0.02	0.02	0.08
	Manganese (and compounds)	0.01	0.01	0.04
	Mercury (and compounds)	0.001	0.001	0.005
	Naphthalene	0.01	0.01	0.02
	Nickel (and compounds)	0.030	0.035	0.129
	Phenol	0.01	0.01	0.02
	Polynuclear Aromatic Hydrocarbons	0.046	0.055	0.204
	Selenium (and compounds)	0.009	0.011	0.041
	Sulfuric acid	2.63	3.68	11.52
	Toluene	0.01	0.01	0.04
	Xylene (mixed isomers)	0.07	0.08	0.28
EQT 0035 2004-6	1,3-Butadiene	< 0.001	< 0.001	0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.02
	Benzene	0.01	0.01	0.04
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.14	0.14	0.61
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	0.01	0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.01	0.04
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.02	0.03	0.10
	Xylene (mixed isomers)	0.03	0.03	0.12
	n-Hexane	0.01	0.02	0.05

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0036 2004-7	Ammonia	2.65	3.97	11.60
EQT 0037 2004-8	Ammonia	2.65	3.97	11.60
EQT 0055 5-76	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.03
	Benzene	0.01	0.01	0.05
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.17	0.17	0.74
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	0.01	0.01	0.02
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.02	0.06
	Naphthalene	< 0.01	< 0.01	0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.03	0.04	0.14
	Xylene (mixed isomers)	0.04	0.04	0.16
	n-Hexane	0.02	0.02	0.07
EQT 0057 5-83	Nickel (and compounds)	< 0.001		0.001
	Polynuclear Aromatic Hydrocarbons	0.100		0.310
EQT 0058 6-76	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.02
	Benzene	0.01	0.01	0.04
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.14	0.14	0.61
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	0.01	0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.01	0.04
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.02	0.03	0.10

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0058 6-76	Xylene (mixed isomers)	0.03	0.03	0.11
	n-Hexane	0.01	0.01	0.05
EQT 0075 94-2	1,3-Butadiene	< 0.001	< 0.001	0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.03
	Benzene	0.01	0.01	0.04
	Biphenyl	< 0.01	< 0.01	0.01
	Chlorine	0.11	0.11	0.60
	Cresol	< 0.01	< 0.01	0.01
	Cumene	< 0.01	< 0.01	0.01
	Ethyl benzene	< 0.01	< 0.01	0.01
	Hydrogen sulfide	< 0.01	< 0.01	0.01
	Methanol	0.01	0.01	0.04
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	0.01
	Styrene	< 0.01	< 0.01	0.01
	Toluene	0.02	0.03	0.10
	Xylene (mixed isomers)	0.03	0.03	0.12
	n-Hexane	0.01	0.01	0.05
EQT 0082 94-47	1,3-Butadiene	< 0.001	< 0.001	0.001
	2,2,4-Trimethylpentane	< 0.01	< 0.01	0.01
	Benzene	< 0.01	< 0.01	0.01
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.04	0.04	0.17
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	< 0.01	< 0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	< 0.01	0.01	0.01
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.01	0.01	0.03
	Xylene (mixed isomers)	0.01	0.01	0.03
	n-Hexane	< 0.01	0.01	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0083 94-48	1,3-Butadiene	< 0.001	< 0.001	0.001
	2,2,4-Trimethylpentane	< 0.01	< 0.01	< 0.01
	Benzene	< 0.01	< 0.01	0.01
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.04	0.04	0.17
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	< 0.01	< 0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	< 0.01	0.01	0.01
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.01	0.01	0.03
	Xylene (mixed isomers)	0.01	0.01	0.03
	n-Hexane	< 0.01	0.01	0.01
EQT 0084 94-49	1,3-Butadiene	< 0.001	< 0.001	0.001
	2,2,4-Trimethylpentane	< 0.01	0.01	0.01
	Benzene	0.01	0.01	0.02
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.08	0.08	0.36
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	< 0.01	0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.01	0.03
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.02	0.02	0.06
	Xylene (mixed isomers)	0.02	0.02	0.07
	n-Hexane	0.01	0.01	0.03
EQT 0092 94-9	Benzene	0.16	44.10	0.72
	Biphenyl	0.03	0.25	0.15

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0092 94-9	Cresol	0.01	0.11	0.03
	Naphthalene	0.09	1.20	0.40
	Polynuclear Aromatic Hydrocarbons	< 0.001	0.005	0.002
	Toluene	0.88	8.40	3.90
	Xylene (mixed isomers)	2.80	31.40	12.30
	n-Hexane	0.53	142.00	2.30
EQT 0095 96-2	Sulfuric acid	< 0.01	< 0.01	0.01
EQT 0097 96-4	Sulfuric acid	< 0.01	< 0.01	0.01
EQT 0135 98-41	Sulfuric acid	< 0.01	< 0.01	0.01
EQT 0136 98-42	Sulfuric acid	< 0.01	< 0.01	0.01
EQT 0137 98-43	Sulfuric acid	< 0.01	< 0.01	0.01
EQT 0184 98-9	Benzene	0.20	42.40	0.83
	Hydrogen sulfide	0.01	0.01	0.04
	n-Hexane	0.64	136.00	2.70
EQT 0195 99-3	Hydrogen sulfide		0.50	
EQT 0196 99-4	Hydrogen sulfide		0.50	
EQT 0200 99-8	Hydrochloric acid	0.01	0.01	0.04
EQT 0240 2005-38	Benzene		0.10	
	Hydrogen sulfide		1.00	
	n-Hexane		0.10	
EQT 0241 2005-39	Carbon disulfide		0.40	
	Carbonyl sulfide		0.13	
	Hydrogen sulfide		1.73	
EQT 0242 2005-40	1,3-Butadiene	0.015	0.018	0.067
	Acetaldehyde	0.07	0.09	0.32
	Acrolein	0.006	0.007	0.026
	Ammonia	2.39	2.87	10.46
	Antimony (and compounds)	0.002	0.003	0.009
	Arsenic (and compounds)	0.002	0.002	0.009
	Barium (and compounds)	0.008	0.009	0.033
	Benzene	0.03	0.03	0.12
	Beryllium (Table 51.1)	0.001	0.001	0.004
	Cadmium (and compounds)	0.001	0.001	0.004
	Carbon disulfide	0.26	0.31	1.14

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0242 2005-40	Chlorine	0.08	0.09	0.34
	Chromium VI (and compounds)	0.004	0.005	0.019
	Cobalt compounds	0.01	0.01	0.02
	Copper (and compounds)	0.006	0.007	0.027
	Cyanide compounds	0.29	0.34	1.26
	Ethyl benzene	0.04	0.04	0.16
	Formaldehyde	0.16	0.18	0.68
	Hydrochloric acid	0.04	0.04	0.16
	Hydrogen cyanide	0.04	0.04	0.16
	Hydrogen sulfide	0.38	0.90	1.68
	Lead compounds	0.02	0.02	0.08
	Manganese (and compounds)	0.01	0.01	0.04
	Mercury (and compounds)	0.001	0.001	0.005
	Naphthalene	0.01	0.01	0.02
	Nickel (and compounds)	0.030	0.035	0.129
	Phenol	0.01	0.01	0.02
	Polynuclear Aromatic Hydrocarbons	0.046	0.055	0.204
	Selenium (and compounds)	0.009	0.011	0.041
	Sulfuric acid	2.63	3.68	11.52
	Toluene	0.01	0.01	0.04
	Xylene (mixed isomers)	0.07	0.08	0.28
EQT 0243 2005-42	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.02
	Benzene	0.01	0.01	0.04
	Biphenyl	< 0.01	< 0.01	< 0.01
	Chlorine	0.14	0.14	0.58
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	0.01	0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.01	0.05
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0243 2005-42	Toluene	0.03	0.03	0.11
	Xylene (mixed isomers)	0.03	0.04	0.13
	n-Hexane	0.01	0.02	0.06
EQT 0244 2005-43	1,3-Butadiene	< 0.001	< 0.001	0.001
	2,2,4-Trimethylpentane	0.01	0.01	0.02
	Benzene	0.01	0.01	0.03
	Biphenyl	< 0.01	< 0.01	0.01
	Chlorine	0.11	0.11	0.46
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	< 0.01	< 0.01	< 0.01
	Ethyl benzene	< 0.01	< 0.01	0.01
	Hydrogen sulfide	< 0.01	< 0.01	< 0.01
	Methanol	0.01	0.01	0.04
	Naphthalene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Styrene	< 0.01	< 0.01	< 0.01
	Toluene	0.02	0.03	0.09
	Xylene (mixed isomers)	0.02	0.03	0.10
	n-Hexane	0.01	0.01	0.05
EQT 0249 2005-57	Hydrogen sulfide	2.35	2.90	10.27
EQT 0313 2007-4	Hydrogen sulfide		1.73	
EQT 0315 2008-2	Ammonia	3.59	3.95	15.72
EQT 0316 2008-3	Ammonia	2.62	2.88	11.46
EQT 0319 2008-6	Ammonia	3.28	3.60	14.35
EQT 0321 2008-8	Ammonia	3.28	3.60	14.35
EQT 0323 2008-10	Ammonia	2.92	3.21	12.77
EQT 0324 2008-11	Ammonia	2.92	3.21	12.77
EQT 0345 2008-32	Benzene		0.03	
	Ethyl benzene		0.01	
	Toluene		< 0.01	
	Xylene (mixed isomers)		0.02	
	n-Hexane		0.02	
EQT 0346 2008-33	Benzene		0.03	
	Ethyl benzene		0.01	

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0346 2008-33	Toluene		< 0.01	
	Xylene (mixed isomers)		0.02	
	n-Hexane		0.02	
EQT 0347 2008-34	Benzene		0.03	
	Ethyl benzene		0.01	
	Toluene		< 0.01	
	Xylene (mixed isomers)		0.02	
	n-Hexane		0.02	
EQT 0348 2008-35	Benzene	0.11	0.14	0.49
	Ethyl benzene	0.04	0.05	0.19
	Toluene	0.23	0.29	1.02
	Xylene (mixed isomers)	1.32	1.65	5.79
	n-Hexane	< 0.01	< 0.01	< 0.01
EQT 0350 94-8	Benzene	0.14	1.10	0.63
	Biphenyl	< 0.01	< 0.01	< 0.01
	Cresol	< 0.01	< 0.01	< 0.01
	Cumene	0.02	0.20	0.08
	Ethyl benzene	0.07	0.69	0.29
	Hydrogen sulfide	0.22	0.95	0.96
	Naphthalene	< 0.01	< 0.01	< 0.01
	Toluene	0.24	1.50	1.00
	Xylene (mixed isomers)	0.08	0.60	0.35
	n-Hexane	1.10	7.70	4.70
EQT 0351 2008-38	Benzene	0.31	0.46	0.07
	Toluene	< 0.01	< 0.01	< 0.01
	Xylene (mixed isomers)	0.08	0.11	0.02
EQT 0352 2008-40	Ammonia	2.92	3.21	12.77
EQT 0353 2008-41	2,2,4-Trimethylpentane	< 0.01	< 0.01	< 0.01
	Benzene	< 0.01	< 0.01	< 0.01
	Phenol	< 0.01	< 0.01	< 0.01
	Toluene	< 0.01	< 0.01	< 0.01
	Xylene (mixed isomers)	< 0.01	< 0.01	< 0.01
	n-Hexane	< 0.01	< 0.01	< 0.01
EQT 0357 2008-46	Benzene		0.47	

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0359 WWTU	2,2,4-Trimethylpentane	0.89		3.89
	Benzene	0.17		0.74
	Biphenyl	0.08		0.33
	Cresol	0.04		0.16
	Cumene	0.03		0.11
	Ethyl benzene	0.11		0.49
	Hydrogen sulfide	1.54		6.76
	Methanol	0.14		0.62
	Naphthalene	0.33		1.43
	Phenol	0.06		0.28
	Polynuclear Aromatic Hydrocarbons	0.023		0.100
	Styrene	0.01		0.02
	Toluene	0.28		1.22
	Xylene (mixed isomers)	2.15		9.43
	n-Hexane	3.97		17.37
EQT 0372 2008-36	Benzene	0.12		0.52
	Cumene	< 0.01		< 0.01
	Ethyl benzene	0.02		0.09
	Toluene	0.26		1.15
	Xylene (mixed isomers)	0.26		1.12
FUG 0026 91-0	1,3-Butadiene	0.001		0.002
	2,2,4-Trimethylpentane	0.21		0.93
	Benzene	1.44		6.26
	Biphenyl	0.73		3.24
	Cresol	0.02		0.07
	Cumene	0.05		0.20
	Ethyl benzene	0.20		0.58
	Hydrogen sulfide	7.60		33.51
	Naphthalene	0.11		0.51
	Phenol	0.01		0.06
	Polynuclear Aromatic Hydrocarbons	0.010		0.040
	Styrene	0.02		0.09
	Toluene	2.69		11.90
	Xylene (mixed isomers)	3.99		17.70

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0026 91-0	n-Hexane	6.09		26.56
FUG 0027 2008-39	Ammonia	0.29		1.28
	Benzene	1.42		6.23
	Cumene	0.01		0.03
	Ethyl benzene	0.16		0.69
	Toluene	2.53		11.08
	Xylene (mixed isomers)	2.90		12.69
FUG 0029 2008-37	Benzene	0.15		0.65
	Xylene (mixed isomers)	0.16		0.71
GRP 0006 FLARECAP	Benzene	0.05		0.23
	Hydrogen sulfide	0.20		0.88
	n-Hexane	0.06		0.25
GRP 0007 SRU/TOCAP	Carbon disulfide	1.10		4.70
	Carbonyl sulfide	0.09		0.40
	Hydrogen sulfide	2.95		12.91
GRP 0008 TANK CAP	1,3-Butadiene	< 0.088		0.386
	2,2,4-Trimethylpentane	1.61		7.05
	Benzene	2.80		12.58
	Biphenyl	0.01		0.04
	Cresol	0.01		0.06
	Cumene	0.30		1.32
	Ethyl benzene	0.82		3.60
	Hydrogen sulfide	0.21		0.90
	Methanol	< 0.01		< 0.01
	Methyl ethyl ketone	0.06		0.25
	Methyl isobutyl ketone	0.08		0.34
	Naphthalene	0.10		0.42
	Phenol	< 0.01		0.01
	Styrene	0.01		0.02
	Sulfuric acid	< 0.01		< 0.01
	Toluene	2.65		11.61
	Xylene (mixed isomers)	3.19		13.97
	n-Hexane	9.19		40.25
GRP 0018 TANKTOCAP	Benzene	0.32		1.39

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0018 TANKTOCAP	Ethyl benzene	< 0.01		0.02
	Toluene	< 0.01		< 0.01
	Xylene (mixed isomers)	0.01		0.05
	n-Hexane	0.01		0.06
UNF 0001 AI26003	1,3-Butadiene			0.528
	2,2,4-Trimethylpentane			12.06
	Acetaldehyde			0.64
	Acrolein			0.052
	Ammonia			139.90
	Antimony (and compounds)			0.018
	Arsenic (and compounds)			0.018
	Barium (and compounds)			0.066
	Benzene			31.91
	Beryllium (Table 51.1)			0.008
	Biphenyl			3.78
	Cadmium (and compounds)			0.008
	Carbon disulfide			6.98
	Carbonyl sulfide			0.40
	Chlorine			5.57
	Chromium VI (and compounds)			0.038
	Cobalt compounds			0.04
	Copper (and compounds)			0.054
	Cresol			0.33
	Cumene			1.75
	Cyanide compounds			2.52
	Ethyl benzene			6.37
	Formaldehyde			1.36
	Hydrochloric acid			0.36
	Hydrogen cyanide			0.32
	Hydrogen sulfide			69.60
	Lead compounds			0.16
	Manganese (and compounds)			0.08
	Mercury (and compounds)			0.010
	Methanol			1.00

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 AI26003	Naphthalene			2.82
	Nickel (and compounds)			0.259
	Phenol			0.40
	Polynuclear Aromatic Hydrocarbons			0.860
	Selenium (and compounds)			0.082
	Styrene			0.14
	Sulfuric acid			23.09
	Toluene			43.86
	Xylene (mixed isomers)			75.72
	n-Hexane			94.64

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

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SPECIFIC REQUIREMENTS

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CRG0001 CCG1 - Tanks Common Requirements

Group Members: EQT0019 EQT0041 EQT0042 EQT0160 EQT0161 EQT0162 EQT0164 EQT0165 EQT0179 EQT0180 EQT0186 EQT0187 EQT0188

1	[40 CFR 63.646(a)]	Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]
2	[40 CFR 63.646(f)(1)]	If a cover or lid is installed on an opening on a floating roof, keep the cover or lid closed except when it must be open for access. Subpart CC. [40 CFR 63.646(f)(1)]
3	[40 CFR 63.646(f)(2)]	Set rim space vents to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Subpart CC. [40 CFR 63.646(f)(2)]
4	[40 CFR 63.646(f)(3)]	Keep automatic bleeder vents closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Subpart CC. [40 CFR 63.646(f)(3)]
5	[40 CFR 63.654(h)(2)(i)]	Notify DEQ of the refilling of each Group 1 storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
6	[40 CFR 63.654(h)(2)(ii)]	Notify DEQ in writing of any seal gap measurements at least 30 calendar days in advance of any gap measurements required by 40 CFR 63.120(b)(1) or (b)(2). Subpart CC. [40 CFR 63.654(h)(2)(ii)]
7	[40 CFR 63.654(i)(1)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]
8	[LAC 33:III.2103]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 63 Subpart CC.
9	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
10	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC, which meets both design requirements of NSPS Supart Kb (LA Refinery MACT A.2) and inspection, recordkeeping and reporting schedules of LAC 33:III.2103 (LA Refinery MACT A.5). The combined emissions from guide poles/sample wells and stilling well systems must be controlled to an average efficiency of 90% or greater.

CRG0002 CCG2 - Tanks Common Requirements

Group Members: EQT0006 EQT0008 EQT0018 EQT0043 EQT0044 EQT0047 EQT0087 EQT0088 EQT0089 EQT0090 EQT0103 EQT0134 EQT0142 EQT0143 EQT0146 EQT0148 EQT0149 EQT0150 EQT0151 EQT0154 EQT0155 EQT0156 EQT0157 EQT0166 EQT0167 EQT0168 EQT0169 EQT0171 EQT0172 EQT0173 EQT0174 EQT0175 EQT0176 EQT0178 EQT0182 EQT0183

11	[40 CFR 63.654(i)(1)iv]	Shall maintain records as specified by 40 CFR 63.654(i)(1)iv to ensure Group 2 status. 40 CFR 63 Subpart CC. [40 CFR 63.654(i)(1)iv]
12	[LAC 33:III.501.C.6]	Tank T-150-1 (EQT169) and T-150-3 (EQT171) shall comply with requirements of CRG0002. When the external floating roof is installed, instead of comply with CRG0002 requirements, the tank shall comply with requirements of CRG0003.
13	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
14	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC - Determined as MACT.

CRG0003 KBG1 - EFR Tanks Common Requirements

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CRG0003 KBG1 - EFR Tanks Common Requirements

Group Members: EQT0022 EQT0026 EQT0045 EQT0046 EQT0048 EQT0049 EQT0050 EQT0051 EQT0066 EQT0067 EQT0068 EQT0069 EQT0091 EQT0099 EQT0169 EQT0170 EQT0171 EQT0181 EQT0189

15	[40 CFR 60.112b(a)(2)(ii)]	Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
16	[40 CFR 60.112b(a)(2)]	Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
17	[40 CFR 60.113b(b)(1)(i)]	Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
18	[40 CFR 60.113b(b)(1)(ii)]	Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] Which Months: All Year Statistical Basis: None specified
19	[40 CFR 60.113b(b)(3)]	Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
20	[40 CFR 60.113b(b)(4)(i)(A)]	One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
21	[40 CFR 60.113b(b)(4)(i)(B)]	There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
22	[40 CFR 60.113b(b)(4)(i)]	Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] Which Months: All Year Statistical Basis: None specified
23	[40 CFR 60.113b(b)(4)(i)]	Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] Which Months: All Year Statistical Basis: None specified

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24	[40 CFR 60.113b(b)(4)(ii)(A)]	Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
25	[40 CFR 60.113b(b)(4)(ii)(B)]	Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
26	[40 CFR 60.113b(b)(4)(ii)(B)]	Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
27	[40 CFR 60.113b(b)(4)(ii)(C)]	There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
28	[40 CFR 60.113b(b)(6)(i)]	If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
29	[40 CFR 60.113b(b)(6)(ii)]	Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
30	[40 CFR 60.113b(b)(6)]	Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
31	[40 CFR 60.115b(b)(1)]	Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
32	[40 CFR 60.115b(b)(2)]	Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
33	[40 CFR 60.115b(b)(3)]	Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
34	[40 CFR 60.116b(b)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
35	[40 CFR 60.116b(c)]	VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

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CRG0003 KBG1 - EFR Tanks Common Requirements

36	[40 CFR 63.640(n)(1)]	Shall comply with 40 CFR 63 Subpart CC by complying with all applicable provisions of 40 CFR 60 Subpart Kb. [40 CFR 63.640(n)(1)]
37	[40 CFR 63.640(n)(8)iii]	Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). If repairs of any seal deficiency cannot be made within 45-days of identification, two 30-day extensions may be used. Extension request is not required. Subpart Kb. [40 CFR 63.640(n)(8)iii, 40 CFR 60.113b(b)(4)]
38	[40 CFR 63.640(n)(8)iv]	Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. If an extension is used, identify the vessel, provide the information in 60.113b(a)(2) or 60.113b(b)(4)(iii), describe the nature of the repair, or provide that the vessel was emptied in the next periodic report. [40 CFR 63.640(n)(8)iv, 40 CFR 60.113b(b)(5)]
39	[40 CFR 63.640(n)(8)v]	Submit the inspection reports required by 60.115b(a)(3), (a)(4), and (b)(4) of Subpart Kb as part of the periodic report required by Subpart CC. 40 CFR 63 Subpart CC. [40 CFR 63.640(n)(8)v]
40	[LAC 33:III.2103]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 60 Subpart Kb.
41	[LAC 33:III.501.C.6]	Tank T-150-1 (EQT169) and T-150-3 (EQT171) shall comply with requirements of CRG0002. When the external floating roof is installed, instead of comply with CRG0002 requirements, the tank shall comply with requirements of CRG0003.
42	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 60 Subpart Kb - Determined as BACT for VOC - PSD-LA-619(M4).
43	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC, which meets both design requirements of NSPS Supart Kb (LA Refinery MACT A.2) and inspection, recordkeeping and reporting schedules of LAC 33:III.2103 (LA Refinery MACT A.5). The combined emissions from guide poles/sample wells and stilling well systems must be controlled to an average efficiency of 90% or greater.

CRG0004 HEATER4 - Heaters Common Requirements

Group Members: EQT0060 EQT0203 EQT0204 EQT0205 EQT0224 EQT0237 EQT0238 EQT0239

44	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
45	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
46	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
47	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average

SPECIFIC REQUIREMENTS

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CRG0004 HEATER4 - Heaters Common Requirements

48	[LAC 33:III.509]	Conduct a performance/emissions test for particulates, nitrogen oxides, and carbon monoxide: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources (for heaters with normal operating rates greater than 400.0 MM BTU/hr), Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
49	[LAC 33:III.509]	Nitrogen oxides <= 0.04 lb/MMBTU - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
50	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
51	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

CRG0005 HEATER5 - Heaters Common Requirements

Group Members: EQT0315 EQT0316 EQT0319 EQT0321

52	[40 CFR 64.]	Permittee shall continuously monitor NOX emissions from the heaters as specified by 40 CFR Part 64.
53	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
54	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
55	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
56	[LAC 33:III.501.C.6]	To assure compliance with the emission limits of this permit, permittee shall install a selective catalytic reduction (SCR) sytem on each heater. The SCR systems shall be operated to the extent required to assure that the annual NOX emission limits of the permit are met. Permittee shall keep records of any time the heaters are operated without the SCR systems.
57	[LAC 33:III.509]	Carbon monoxide <= 0.08 lbs/MM BTU - 365 day rolling average based on daily average - by complying with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for CO - PSD-LA-619(M4).

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CRG0005 HEATER5 - Heaters Common Requirements

58	[LAC 33:III.509]	Conduct a performance/emissions test for particulates: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
59	[LAC 33:III.509]	NOX <= 0.04 lb/MMBTU (365 day rolling average based on daily average) with air preheat or <= 0.03 lb/MMBTU (365 day rolling average based on daily average) without air preheat - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4).
60	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or fuel gases with H2S <= 10 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
61	[LAC 33:III.509]	Shall comply with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

CRG0007 HONG2 - Tanks Common Requirements

Group Members: EQT0330 EQT0331 EQT0334 EQT0335

62	[40 CFR 63.123(a)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
63	[LAC 33:III.509]	Shall be equipped with an IFR - Determined as BACT for VOC - Subsumed by routing to the thermal oxidizers - PSD-LA-619(M4).
64	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from the tanks shall be controlled by closed vent systems followed by thermal oxidizers.

CRG0008 HONG1 - Tanks Common Requirements

Group Members: EQT0327 EQT0328 EQT0332 EQT0333 EQT0336 EQT0337 EQT0340 EQT0341 EQT0344

65	[40 CFR 63.119(a)(1)]	Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
66	[40 CFR 63.122(a)(1)]	Submit an Initial Notification as required by 40 CFR 63.151(b). Subpart G. [40 CFR 63.122(a)(1)]
67	[40 CFR 63.122(a)(3)]	Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
68	[40 CFR 63.122(a)(4)]	Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Reporting schedules may be aligned with reports required by 40 CFR 63 Subpart CC. Subpart G. [40 CFR 63.122(a)(4)]
69	[40 CFR 63.122(a)(5)]	Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]

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CRG0008 HONG1 - Tanks Common Requirements

70	[40 CFR 63.123]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
71	[LAC 33:III.2103]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 63 Subpart G.
72	[LAC 33:III.509]	Emissions from the tanks shall be controlled as required by 40 CFR 63 Subpart G (IFR) - Subsumed by routing to the thermal oxidizers - Determined as BACT for VOC - PSD-LA-619(M4).
73	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart G - Determined as MACT.

CRG0009 NEWCCG1 - Tanks Common Requirements

Group Members: EQT0245 EQT0246 EQT0325 EQT0326 EQT0329 EQT0354 EQT0355 EQT0356

74	[40 CFR 63.646(a)]	Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]
75	[40 CFR 63.654(h)(2)(i)]	Notify DEQ of the refilling of each Group 1 storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
76	[40 CFR 63.654(h)(2)(ii)]	If equipped with an EFR, notify DEQ in writing of any seal gap measurements at least 30 calendar days in advance of any gap measurements required by 40 CFR 63.120(b)(1) or (b)(2) of 40 CFR 63 Subpart G. Subpart CC. [40 CFR 63.654(h)(2)(ii)]
77	[40 CFR 63.654(i)(1)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]
78	[LAC 33:III.2103]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 63 Subpart CC.
79	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
80	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC, which meets design requirements of LA Refinery MACT A.2 and inspection, recordkeeping and reporting schedules of LAC 33:III.2103 (LA Refinery MACT A.5). The combined emissions from guide poles/sample wells and stilling well systems must be controlled to an average efficiency of 90% or greater.

CRG0010 CRG010 - Small Heaters Common Requirements

Group Members: EQT0317 EQT0318 EQT0320 EQT0322

81	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
82	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified

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CRG0010 CRG010 - Small Heaters Common Requirements

83	[LAC 33:III.509]	Carbon monoxide <= 0.08 lbs/MM BTU - 365 day rolling average based on daily average - by complying with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for CO - PSD-LA-619(M4).
84	[LAC 33:III.509]	Nitrogen oxides <=0.04 lb/MMBTU with air preheat or <= 0.03 lb/MMBTU without air preheat (365 day rolling average based on daily average) - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4).
85	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or fuel gases with H2S <= 10 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
86	[LAC 33:III.509]	Shall comply with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

CRG0011 BOILER - Boilers Common Requirements

Group Members: EQT0323 EQT0324 EQT0352

87	[40 CFR 60.44b]	Nitrogen oxides <= 0.20 lb/MMBTU heat input (expressed as NO2), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. Which Months: All Year Statistical Basis: Thirty-day rolling average
88	[40 CFR 60.46b(c)]	Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
89	[40 CFR 60.48b(b)(1)]	Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)] Which Months: All Year Statistical Basis: One-hour average
90	[40 CFR 60.48b(b)(1)]	Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
91	[40 CFR 60.48b(b)(1)]	Oxygen or Carbon dioxide monitored by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)] Which Months: All Year Statistical Basis: One-hour average
92	[40 CFR 60.48b(b)(1)]	Oxygen or Carbon dioxide recordkeeping by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
93	[40 CFR 60.48b(c)]	Operate NOx continuous monitoring systems and record data during all periods of operation except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
94	[40 CFR 60.48b(e)]	Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NOx continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
95	[40 CFR 60.48b(f)]	When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
96	[40 CFR 60.49b(a)]	Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]

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AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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CRG0011 BOILER - Boilers Common Requirements

97	[40 CFR 60.49b(d)]	Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
98	[40 CFR 60.49b(g)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
99	[40 CFR 60.49b(h)]	Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
100	[40 CFR 60.49b(i)]	Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
101	[40 CFR 60.49b(o)]	Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
102	[40 CFR 60.49b(p)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
103	[40 CFR 64.]	Permittee shall continuously monitor NOX emissions from the boilers as specified by 40 CFR Part 64.
104	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
105	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
106	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
107	[LAC 33:III.501.C.6]	To assure compliance with the emission limits of this permit, permittee shall install a selective catalytic reduction (SCR) sytem on each boiler. The SCR systems shall be operated to the extent required to assure that the annual NOX emission limits of the permit are met. Permittee shall keep records of any time the boilers are operated without the SCR systems.
108	[LAC 33:III.509]	Carbon monoxide <= 0.08 lbs/MM BTU - thirty day rolling average based on daily average - by complying with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for CO - PSD-LA-619(M4).
109	[LAC 33:III.509]	Conduct a performance/emissions test for particulates: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
110	[LAC 33:III.509]	NOX <= 0.04 lb/MMBTU (30 day rolling average based on daily average) with air preheat or <= 0.03 lb/MMBTU (30 day rolling average based on daily average) without air preheat - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4).

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CRG0011 BOILER - Boilers Common Requirements

111	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or process fuel gases with H2S <= 10 ppmv on an annual average and or refinery fuel gas with H2S <=100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
112	[LAC 33:III.509]	Shall comply with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

CRG0012 CRG012 - IFR Tanks Common Requirements

Group Members: EQT0338 EQT0339 EQT0342 EQT0343

113	[40 CFR 63.119(a)(1)]	Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
114	[40 CFR 63.122(a)(1)]	Submit an Initial Notification as required by 40 CFR 63.151(b). Subpart G. [40 CFR 63.122(a)(1)]
115	[40 CFR 63.122(a)(3)]	Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
116	[40 CFR 63.122(a)(4)]	Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Reporting schedules may be aligned with reports required by 40 CFR 63 Subpart CC. Subpart G. [40 CFR 63.122(a)(4)]
117	[40 CFR 63.122(a)(5)]	Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]
118	[40 CFR 63.123]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
119	[LAC 33:III.509]	Shall be equipped with IFRs - Determined as BACT for VOC - Subsumed by routing to the thermal oxidizers - PSD-LA-619(M4).
120	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart G - Determined as MACT.

CRG0013 CWT - Cooling Towers Common Requirements

Group Members: EQT0010 EQT0035 EQT0055 EQT0058 EQT0075 EQT0082 EQT0083 EQT0084 EQT0243 EQT0244

121	[LAC 33:III.509]	EQT010, EQT035, EQT243, EQT244: Shall be equipped with drift eliminators - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
122	[LAC 33:III.509]	EQT010, EQT035, EQT243, EQT244: Shall conduct a monitoring program to minimize VOC emissions from the cooling towers - Determined as BACT for VOC - PSD-LA-619(M4).
123	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall conduct a monitoring program to minimize TAP emissions from the cooling towers - Determined as MACT.

CRG0014 MSCCRVP - MSCC Revamp Project

Group Members: EQT0016 EQT0036 EQT0037 EQT0092 EQT0094 EQT0350 FUG0026 GRP0007 GRP0008

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

CRG0014 MSCCRVP - MSCC Revamp Project

124	[LAC 33:III.509.R.6]	Before beginning actual construction of the MSCC Revamp Project as described, permittee shall document and maintain a record of the following information: 1) a description of the project; 2) the emissions units whose emissions of a regulated pollutant could be affected by the project; and 3) a description of the applicability test used to determine that the project is not a major modification for any regulated pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded from the projected actual emissions (the demand growth exclusion) and an explanation for why such amount was excluded, and any netting calculations, if applicable.
125	[LAC 33:III.509.R.6]	Permittee shall monitor the PM10 and SO2 emissions from the affected equipment of the MSCC Revamp Project and calculate and maintain a record of the annual emissions, in TPY on a calendar year basis, for a period of 10 years following resumption of regular operations.
126	[LAC 33:III.509.R.6]	Permittee shall submit a report to LDEQ within 60 days after the end of the year if annual PM10 and SO2 emissions, in TPY, from the MSCC Revamp Project exceed the baseline actual emissions by a "significant" (as defined in LAC 33:III.509.B) amount, and if such emissions differ from the preconstruction projection. This report shall contain the following: 1) the name, address, and telephone number of the major stationary source; 2) the annual emissions; and 3) any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

EQT0016 16-77 - FCCU No. 2 Regenerator

127	[40 CFR 60.102(a)(1)]	Total suspended particulate <= 1 kg/Mg (2.0 lb/ton) of coke burn-off, except as specified in 40 CFR 60.102(b). Subpart J. [40 CFR 60.102(a)(1)] Which Months: All Year Statistical Basis: None specified
128	[40 CFR 60.102(a)(2)]	Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Compliance with this standard shall be demonstrated using methods specified in this subpart or approved by the permitting authority. Subpart J. [40 CFR 60.102(a)(2)] Which Months: All Year Statistical Basis: Six-minute average
129	[40 CFR 60.103(a)]	Carbon monoxide <= 500 ppmv (dry basis). Subpart J. [40 CFR 60.103(a)] Which Months: All Year Statistical Basis: Hourly average
130	[40 CFR 60.104(b)(1)]	Sulfur dioxide >= 90 % reduction; or Sulfur dioxide <= 50 ppmv, whichever is less stringent. Subpart J. [40 CFR 60.104(b)(1)] Which Months: All Year Statistical Basis: Seven-day rolling average
131	[40 CFR 60.105(a)(10)]	Oxygen monitored by continuous emission monitor (CEM) continuously at both the inlet and outlet of the sulfur dioxide control device (or the outlet only if specifically complying with the 50 ppmv standard). Subpart J. [40 CFR 60.105(a)(10)] Which Months: All Year Statistical Basis: None specified
132	[40 CFR 60.105(a)(12)]	Use the procedures in 40 CFR 60.105(a)(12)(i) and (ii) to evaluate the continuous monitoring systems under 40 CFR 60.105(a)(8), (a)(9), and (a)(10). Subpart J. [40 CFR 60.105(a)(12)]
133	[40 CFR 60.105(a)(1)]	Upon the approval of the AMP for the FCCU, permittee shall continuously monitor opacity (COM) as required by NSPS Subpart J or monitor opacity as specified in the approved AMP. [40 CFR 60.105(a)(1), 40 CFR 64, 40 CFR 63.1564(b)(1)]
134	[40 CFR 60.105(a)(2)]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(ii). Subpart J. [40 CFR 60.105(a)(2)] Which Months: All Year Statistical Basis: None specified
135	[40 CFR 60.105(a)(8)]	Sulfur dioxide monitored by continuous emission monitor (CEM) continuously at the outlet of the SO2 control device. Subpart J. [40 CFR 60.105(a)(8), 40 CFR 64] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0016 16-77 - FCCU No. 2 Regenerator

136	[40 CFR 60.105(a)(9)]	Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)] Which Months: All Year Statistical Basis: None specified
137	[40 CFR 60.105(c)]	Rc & operating hours recordkeeping by electronic or hard copy daily. Record the average coke burn-off rate (Rc) (Mg tons per hour) and hours of operation. Subpart J. [40 CFR 60.105(c)]
138	[40 CFR 60.106(a)]	Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
139	[40 CFR 60.106]	Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
140	[40 CFR 60.107(b)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 60.107(b)(1) through (b)(4), as applicable. Subpart J. [40 CFR 60.107(b)]
141	[40 CFR 60.107(c)]	Submit exceedance report: Due semiannually, except as specified in 40 CFR 60.107(d). Include the information specified in 40 CFR 60.107(c)(1) through (c)(6). Subpart J. [40 CFR 60.107(c)]
142	[40 CFR 63.1564(a)(1)]	Opacity <= 30 percent, except for one 6-minute average opacity reading in any 1-hour period, if the discharged gases pass through an incinerator or waste heat boiler in which you burn auxiliary or in supplemental liquid or solid fossil fuel. Compliance with this standard shall be demonstrated using methods specified in this subpart or approved by the permitting authority. Subpart UUU. [40 CFR 63.1564(a)(1)] Which Months: All Year Statistical Basis: Six-minute average
143	[40 CFR 63.1564(a)(1)]	Total suspended particulate <= 1 lb /1000 lb of coke burned (1 kg/1000 kg) in the catalyst regenerator. Subpart UUU. [40 CFR 63.1564(a)(1)] Which Months: All Year Statistical Basis: None specified
144	[40 CFR 63.1564(a)(3)]	Shall prepare an operation, maintenance, and monitoring plan according to the requirements of 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1564(a)(3)]
145	[40 CFR 63.1564(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 1 and 2 according to the methods specified in 40 CFR 63 Subpart UUU Tables 6 and 7, and in 40 CFR 63.1564(c)(3) and (c)(4), as applicable. Subpart UUU. [40 CFR 63.1564(c)(1)]
146	[40 CFR 63.1564(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1564(a)(3) by maintaining records to document conformance with the procedures in the operation, maintenance, and monitoring plan. Subpart UUU. [40 CFR 63.1564(c)(2)]
147	[40 CFR 63.1565(a)(1)]	Carbon monoxide <= 500 ppmv (dry basis). Subpart UUU. [40 CFR 63.1565(a)(1)] Which Months: All Year Statistical Basis: None specified
148	[40 CFR 63.1565(b)(1)]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as specified in 40 CFR 63.1565(b)(1)(i) through (b)(1)(iii). Subpart UUU. [40 CFR 63.1565(b)(1)] Which Months: All Year Statistical Basis: None specified
149	[40 CFR 63.1565(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 8 and 9 according to the methods specified in 40 CFR 63 Subpart UUU Tables 13 and 14. Subpart UUU. [40 CFR 63.1565(c)(1)]
150	[40 CFR 63.1565(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1565(a)(3) by complying with the procedures in the operation, maintenance, and monitoring plan. Subpart UUU. [40 CFR 63.1565(c)(2)]
151	[LAC 33:III.1311.D]	Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Compliance with this standard shall be demonstrated using methods specified in this subpart or approved by the permitting authority. Which Months: All Year Statistical Basis: Six-minute average
152	[LAC 33:III.501.C.6]	Carbon monoxide: <= 100 ppmdv @ 0% excess air - Which Months: All Year Statistical Basis: 365 day rolling average.

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0016 16-77 - FCCU No. 2 Regenerator

153	[LAC 33:III.501.C.6]	Permittee shall maintain nitrogen oxides <= 20 ppmdv @ 0% excess air by the completion of the FCCU No. 2 Consent Decree Project or December 31, 2010, whichever occurs first - Which Months: All Year Statistical Basis: 365 day rolling average.
154	[LAC 33:III.501.C.6]	Permittee shall maintain nitrogen oxides <= 40 ppmdv @ 0% excess air by the completion of the FCCU No. 2 Consent Decree Project or December 31, 2010, whichever occurs first - Which Months: All Year Statistical Basis: 3-hour rolling average.
155	[LAC 33:III.501.C.6]	Prior to the completion of the FCCU No. 2 Consent Decree Project or December 31, 2010, whichever occurs first, instead of complying with criteria pollutant emission limits set for EQT016, the FCCU Unit 2 shall comply with criteria pollutant emission limits set for SCN001.
156	[LAC 33:III.501.C.6]	Sulfur dioxide: <= 25 ppmdv @ 0% excess air - Which Months: All Year Statistical Basis: 365 day rolling average.
157	[LAC 33:III.501.C.6]	Sulfur dioxide: <= 50 ppmdv @ 0% excess air - Which Months: All Year Statistical Basis: 7 days rolling average.
158	[LAC 33:III.509]	Nitrogen oxides monitored by continuous emission monitor (CEM) continuously - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Instantaneous determination
159	[LAC 33:III.509]	Shall be equipped with a wet scrubber with SO2 removal efficiency of => 90% or to reduce flue gas to <= 50 ppmv of SO2 (7 day rolling average) as required by NSPS Subpart J - Determined as BACT for PM/PM10, and SO2 - PSD-LA-619(M4).
160	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for VOC - PSD-LA-619(M4).
161	[LAC 33:III.509]	Shall utilize the full burn technology for CO control - Determined as BACT for NOX and CO - PSD-LA-619(M4).
162	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP Subpart UUU contstitutes MACT.

EQT0029 2004-10 - Boiler 401-E

163	[40 CFR 60.44b]	Nitrogen oxides <= 0.1 lb/MMBTU (43 ng/J) heat input (expressed as NO2). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. Which Months: All Year Statistical Basis: Thirty-day rolling average
164	[40 CFR 60.46b(c)]	Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
165	[40 CFR 60.48b(b)(1)]	Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)] Which Months: All Year Statistical Basis: One-hour average
166	[40 CFR 60.48b(b)(1)]	Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
167	[40 CFR 60.48b(c)]	Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
168	[40 CFR 60.48b(e)]	Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(2) for installation, evaluation, and operation of the NOx CEMS - Subpart Db. [40 CFR 60.48b(e)]
169	[40 CFR 60.48b(f)]	When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0029 2004-10 - Boiler 401-E

170	[40 CFR 60.49b(d)]	Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
171	[40 CFR 60.49b(g)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
172	[40 CFR 60.49b(h)]	Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period as specified in 40 CFR 60.7(c). Subpart Db. [40 CFR 60.49b(h)]
173	[40 CFR 60.49b(i)]	Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
174	[40 CFR 60.49b(o)]	Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
175	[40 CFR 60.49b(p)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
176	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
177	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
178	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
179	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average

EQT0036 2004-7 - SMR1 Heater No. 1

180	[40 CFR 64.]	Upon the startup of the SCR, permittee shall continuously monitor NOX emissions from the heater as specified by 40 CFR Part 64.
181	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
182	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
183	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0036 2004-7 - SMR1 Heater No. 1

184	[LAC 33:III.501.C.6]	Permittee shall install and operate an SCR system to control NOX emissions as soon as practical, but no later than December 31, 2009. NOX emissions shall be maintained at or below 0.015 lb/MM BTU (365 day rolling average based on daily average). Prior to the normal operation of the SCR system, instead of complying with limits set for EQT036, the heater shall comply with its emissions limits set for SCN005 of this permit.
185	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
186	[LAC 33:III.509]	NOX <= 0.04 lb/MMBTU on a 365 day rolling average based on daily average - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4).
187	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
188	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

EQT0037 2004-8 - SMR1 Heater No. 2

189	[40 CFR 64.]	Upon the startup of the SCR, permittee shall continuously monitor NOX emissions from the heater as specified by 40 CFR Part 64.
190	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
191	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
192	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
193	[LAC 33:III.501.C.6]	Permittee shall install and operate an SCR system to control NOX emissions as soon as practical, but no later than December 31, 2009. NOX emissions shall be maintained at or below 0.015 lb/MM BTU (365 day rolling average based on daily average). Prior to the normal operation of the SCR system, instead of complying with limits set for EQT037, the heater shall comply with its emissions limits set for SCN006 of this permit.
194	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
195	[LAC 33:III.509]	NOX <= 0.04 lb/MMBTU on a 365 day rolling average based on daily average - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4).
196	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
197	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0057 5-83 - Coke Handling

198	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. Coke shall be transported while wet to minimize emissions.
199	[LAC 33:III.509]	Shall keep coke wet while storing or transporting - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
200	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Keeping coke wet while storing or transporting was determined as MACT for nickel.

EQT0059 6-77 - Heater F-33-01

201	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
202	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified

EQT0074 94-18 - Tank 118-1

203	[40 CFR 60.112b(a)(2)(ii)]	Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
204	[40 CFR 60.112b(a)(2)]	Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
205	[40 CFR 60.113b(b)(1)(i)]	Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0074 94-18 - Tank 118-1

206	[40 CFR 60.113b(b)(1)(ii)]	Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] Which Months: All Year Statistical Basis: None specified
207	[40 CFR 60.113b(b)(3)]	Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
208	[40 CFR 60.113b(b)(4)(i)(A)]	One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
209	[40 CFR 60.113b(b)(4)(i)(B)]	There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
210	[40 CFR 60.113b(b)(4)(i)]	Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] Which Months: All Year Statistical Basis: None specified
211	[40 CFR 60.113b(b)(4)(i)]	Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] Which Months: All Year Statistical Basis: None specified
212	[40 CFR 60.113b(b)(4)(ii)(A)]	Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
213	[40 CFR 60.113b(b)(4)(ii)(B)]	Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
214	[40 CFR 60.113b(b)(4)(ii)(B)]	Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] . Which Months: All Year Statistical Basis: None specified
215	[40 CFR 60.113b(b)(4)(ii)(C)]	There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
216	[40 CFR 60.113b(b)(4)]	Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). If repairs of any seal deficiency cannot be made within 45-days of identification, two 30-day extensions may be used. Extension request is not required. Subpart Kb. [40 CFR 60.113b(b)(4), 40 CFR 63.640(n)(8)iii]
217	[40 CFR 60.113b(b)(5)]	Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. If an extension is used, identify the vessel, provide the information in 60.113b(a)(2) or 60.113b(b)(4)(iii), describe the nature of the repair, or provide that the vessel was emptied in the next periodic report. [40 CFR 60.113b(b)(5), 40 CFR 63.640(n)(8)iv]
218	[40 CFR 60.113b(b)(6)(i)]	If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0074 94-18 - Tank 118-1

219	[40 CFR 60.113b(b)(6)(ii)]	Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
220	[40 CFR 60.113b(b)(6)]	Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
221	[40 CFR 60.115b(b)(1)]	Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
222	[40 CFR 60.115b(b)(2)]	Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
223	[40 CFR 60.115b(b)(3)]	Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
224	[40 CFR 60.116b(b)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
225	[40 CFR 60.116b(c)]	VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
226	[40 CFR 60.690]	Comply with provisions of NSPS Subpart QQQ. Shall perform tank roof inspection as required by the subpart or approved alternatives.
227	[40 CFR 63.640(n)(1)]	Shall comply with 40 CFR 63 Subpart CC by complying with all applicable provisions of 40 CFR 60 Subpart Kb. [40 CFR 63.640(n)(1)]
228	[40 CFR 63.640(n)(8)v]	Submit the inspection reports required by 60.115b(a)(3), (a)(4), and (b)(4) of Subpart Kb as part of the periodic report required by Subpart CC. 40 CFR 63 Subpart CC. [40 CFR 63.640(n)(8)v]
229	[LAC 33:III.501.C.6]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 60 Subpart Kb.
230	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 60 Subpart Kb - Determined as BACT for VOC - PSD-LA-619(M4).
231	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC, which meets both design requirements of NSPS Supart Kb (LA Refinery MACT A.2) and inspection, recordkeeping and reporting schedules of LAC 33:III.2103 (LA Refinery MACT A.5). The combined emissions from guide poles/sample wells and stilling well systems must be controlled to an average efficiency of 90% or greater.

EQT0076 94-21 - Heater F-33-05

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0076 94-21 - Heater F-33-05

232	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
233	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
234	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
235	[LAC 33:III.509]	Shall control NOX emissions by fuel choice, operating techniques, and Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4).
236	[LAC 33:III.509]	Shall utilize clean fuels (natural gas and refinery fuel gas) - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
237	[LAC 33:III.509]	Shall utilize good operating practices - Determined as BACT for CO - PSD-LA-619(M4).

EQT0077 94-28 - Heater H-39-03

238	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
239	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
240	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
241	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
242	[LAC 33:III.509]	Nitrogen oxides <= 0.05 lb/MMBTU - Using Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
243	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
244	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

EQT0078 94-29 - Heater H-39-01

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0078 94-29 - Heater H-39-01

245	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
246	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
247	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
248	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
249	[LAC 33:III.509]	Shall control NOX emissions by fuel choice, operating techniques, and Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4).
250	[LAC 33:III.509]	Shall utilize clean fuels - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
251	[LAC 33:III.509]	Shall utilize good operating practices - Determined as BACT for CO - PSD-LA-619(M4).

EQT0079 94-30 - Heater H-39-02

252	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
253	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
254	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
255	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
256	[LAC 33:III.509]	Nitrogen oxides <= 0.05 lb/MMBTU - Using Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
257	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
258	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

EQT0080 94-43 - Boiler B-401C

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0080 94-43 - Boiler B-401C

259	[40 CFR 60.44(a)(1)]	Nitrogen oxides <= 0.20 lb/MMBTU. [40 CFR 60.44(a)(1)] Which Months: All Year Statistical Basis: One-hour average
260	[40 CFR 60.45(b)(3)]	Nitrogen oxides <= 0.14 lb/MMBTU (In lieu of CEMS requirements). [40 CFR 60.45(b)(3)] Which Months: All Year Statistical Basis: Three one-hour test average
261	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
262	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
263	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
264	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
265	[LAC 33:III.509]	Shall control NOX emissions by fuel choice, operating techniques, and Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4).
266	[LAC 33:III.509]	Shall utilize clean fuels - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
267	[LAC 33:III.509]	Shall utilize good operating practices - Determined as BACT for CO - PSD-LA-619(M4).

EQT0081 94-45 - Boiler B-401D

268	[40 CFR 60.44(a)(1)]	Nitrogen oxides <= 0.20 lb/MMBTU. [40 CFR 60.44(a)(1)] Which Months: All Year Statistical Basis: One-hour average
269	[40 CFR 60.45(b)(3)]	Nitrogen oxides <= 0.14 lb/MMBTU (In lieu of CEMS requirements). [40 CFR 60.45(b)(3)] Which Months: All Year Statistical Basis: Three one-hour test average
270	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
271	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
272	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
273	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
274	[LAC 33:III.509]	Shall control NOX emissions by fuel choice, operating techniques, and Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4).
275	[LAC 33:III.509]	Shall utilize clean fuels - Determined as BACT for PM/PM10 - PSD-LA-619(M4).

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0081 94-45 - Boiler B-401D

276	[LAC 33:III.509]	Shall utilize good operating practices - Determined as BACT for CO - PSD-LA-619(M4).

EQT0085 94-50 - Tank 150-26

277	[40 CFR 60.112b(a)(1)(i)]	Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
278	[40 CFR 60.112b(a)(1)]	Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
279	[40 CFR 60.113b(a)(1)]	Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)] Which Months: All Year Statistical Basis: None specified
280	[40 CFR 60.113b(a)(3)(ii)]	Tank roof and seals monitored by visual inspection/determination annually as specified in 40 CFR 60.113b(a)(2). Subpart Kb. [40 CFR 60.113b(a)(3)(ii)] Which Months: All Year Statistical Basis: None specified
281	[40 CFR 60.113b(a)(4)]	Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0085 94-50 - Tank 150-26

282	[40 CFR 60.113b(a)(5)]	Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
283	[40 CFR 60.115b(a)(1)]	Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]
284	[40 CFR 60.115b(a)(2)]	Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]
285	[40 CFR 60.115b(a)(3)]	Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2) or submit as part of the periodic reports required by 40 CFR 63 Subpart CC per 40 CFR 63.640(n)(8)(v) -- Subpart Kb. [40 CFR 60.115b(a)(3)]
286	[40 CFR 60.115b(a)(4)]	Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii) or submit as part of the periodic reports required by 40 CFR 63 Subpart CC per 40 CFR 63.640(n)(8)(v) -- Subpart Kb. [40 CFR 60.115b(a)(4)]
287	[40 CFR 60.116b(b)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
288	[40 CFR 60.116b(c)]	VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
289	[40 CFR 63.640(n)(1)]	Shall comply with 40 CFR 63 Subpart CC by complying with all applicable provisions of 40 CFR 60 Subpart Kb. [40 CFR 63.640(n)(1)]
290	[40 CFR 63.640(n)(8)v]	Permittee may submit the inspection reports required by 60.115b(a)(3), (a)(4), and (b)(4) of Subpart Kb as part of the periodic report required by Subpart CC. 40 CFR 63 Subpart CC. [40 CFR 63.640(n)(8)v]
291	[LAC 33:III.501.C.6]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 60 Subpart Kb.
292	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 60 Subpart Kb - Determined as BACT for VOC - PSD-LA-619(M4).
293	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC, which meets both design requirements of NSPS Supart Kb (LA Refinery MACT A.2) and inspection, recordkeeping and reporting schedules of LAC 33:III.2103 (LA Refinery MACT A.5). The combined emissions from guide poles/sample wells and stilling well systems must be controlled to an average efficiency of 90% or greater.

EQT0086 94-51 - Tank 150-27

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0086 94-51 - Tank 150-27

294	[40 CFR 60.112b(a)(1)(i)]	Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
295	[40 CFR 60.112b(a)(1)]	Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
296	[40 CFR 60.113b(a)(1)]	Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)] Which Months: All Year Statistical Basis: None specified
297	[40 CFR 60.113b(a)(3)(ii)]	Tank roof and seals monitored by visual inspection/determination annually as specified in 40 CFR 60.113b(a)(2). Subpart Kb. [40 CFR 60.113b(a)(3)(ii)] Which Months: All Year Statistical Basis: None specified
298	[40 CFR 60.113b(a)(4)]	Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]

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EQT0086 94-51 - Tank 150-27

299	[40 CFR 60.113b(a)(5)]	Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
300	[40 CFR 60.115b(a)(1)]	Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]
301	[40 CFR 60.115b(a)(2)]	Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]
302	[40 CFR 60.115b(a)(3)]	Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2) or submit as part of the periodic reports required by 40 CFR 63 Subpart CC per 40 CFR 63.640(n)(8)(v) -- Subpart Kb. [40 CFR 60.115b(a)(3)]
303	[40 CFR 60.115b(a)(4)]	Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii) or submit as part of the periodic reports required by 40 CFR 63 Subpart CC per 40 CFR 63.640(n)(8)(v) -- Subpart Kb. [40 CFR 60.115b(a)(4)]
304	[40 CFR 60.116b(b)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
305	[40 CFR 60.116b(c)]	VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
306	[40 CFR 63.640(n)(1)]	Shall comply with 40 CFR 63 Subpart CC by complying with all applicable provisions of 40 CFR 60 Subpart Kb. [40 CFR 63.640(n)(1)]
307	[40 CFR 63.640(n)(8)v]	Permittee may submit the inspection reports required by 60.115b(a)(3), (a)(4), and (b)(4) of Subpart Kb as part of the periodic report required by Subpart CC. 40 CFR 63 Subpart CC. [40 CFR 63.640(n)(8)v]
308	[LAC 33:III.501.C.6]	Shall comply with LAC 33:III.2103 by complying with all applicable provisions of 40 CFR 60 Subpart Kb.
309	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 60 Subpart Kb - Determined as BACT for VOC - PSD-LA-619(M4).
310	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC, which meets both design requirements of NSPS Supart Kb (LA Refinery MACT A.2) and inspection, recordkeeping and reporting schedules of LAC 33:III.2103 (LA Refinery MACT A.5). The combined emissions from guide poles/sample wells and stilling well systems must be controlled to an average efficiency of 90% or greater.

EQT0092 94-9 - Petroleum Product Loading Docks

SPECIFIC REQUIREMENTS

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EQT0092 94-9 - Petroleum Product Loading Docks

311	[40 CFR 63.651(a)]	Comply with the requirements of 40 CFR 63.560 through 63.567, except as specified in 40 CFR 63.651(b) through (d). Subpart CC. [40 CFR 63.651(a)]
312	[40 CFR 63.654(c)]	Comply with the recordkeeping and reporting provisions in 40 CFR 63.566 and 63.567(a) and 63.567(c) through (i) of 40 CFR 63 Subpart Y. Subpart CC. [40 CFR 63.654(c)]
313	[LAC 33:III.2108.C.1]	Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
314	[LAC 33:III.2108.C.2]	VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system. Which Months: All Year Statistical Basis: None specified
315	[LAC 33:III.2108.C.3.a]	Barge loading of gasoline: Total Organic Compounds (TOC) <= 70 mg/l of VOC loaded (0.6 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
316	[LAC 33:III.2108.C.3.b]	Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
317	[LAC 33:III.2108.C.3.c]	Ship loading of gasoline: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
318	[LAC 33:III.2108.C.3.d]	Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 12 mg/l of VOC loaded (0.1 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
319	[LAC 33:III.2108.C.5]	Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.
320	[LAC 33:III.2108.C.6]	Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.
321	[LAC 33:III.2108.D.4]	Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
322	[LAC 33:III.2108.E]	Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
323	[LAC 33:III.2108.F.1]	Submit test results: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 45 days of any testing done in accordance with LAC 33:III.2108.E.
324	[LAC 33:III.2108.F.2]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
325	[LAC 33:III.2108.G.1]	Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
326	[LAC 33:III.2108.G.2]	Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
327	[LAC 33:III.2108.G.3]	Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.
328	[LAC 33:III.507.H.1.a]	Shall monitor the dock throughput to demonstrate exemption from 40 CFR 63 Subpart Y.
329	[LAC 33:III.509]	Vents shall be routed to the thermal oxidizer with =>90% VOC control efficiency as required by LAC 33:III.2108 when high vapor pressure (>1.5 psia) materials are loaded - Determined as BACT for VOC - PSD-LA-619(M4).
330	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Thermal oxidizer (94-8) is determined as MACT with a destruction efficiency =>90%.

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EQT0093 94-CCR - CCR Heater

331	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
332	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
333	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
334	[LAC 33:III.501.C.6]	Nitrogen oxides <= 0.04 lb/MMBTU. Which Months: Phases: Statistical Basis: Annual average
335	[LAC 33:III.507.H.1.a]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously. Which Months: All Year Statistical Basis: Hourly average
336	[LAC 33:III.507.H.1.a]	Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Which Months: All Year Statistical Basis: Hourly average

EQT0094 94-GDU - Low Sulfur Gasoline Unit Heater

337	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
338	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
339	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
340	[LAC 33:III.501.C.6]	Nitrogen oxides <= 0.04 lb/MMBTU. Which Months: Phases: Statistical Basis: Annual average
341	[LAC 33:III.507.H.1.a]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously. Which Months: All Year Statistical Basis: Hourly average
342	[LAC 33:III.507.H.1.a]	Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Which Months: All Year Statistical Basis: Hourly average

EQT0095 96-2 - Sulfuric Acid Tank

343	[LAC 33:III.509]	Shall be equipped with a fixed roof and a submerged fill line - Determined as BACT - PSD-LA-619(M4).

EQT0097 96-4 - Sulfuric Acid Tank T-1403

344	[LAC 33:III.509]	Shall be equipped with a fixed roof and a submerged fill line - Determined as BACT - PSD-LA-619(M4).

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EQT0104 98-114 - Sulfuric Acid Storage

345	[LAC 33:III.509]	Shall be equipped with a fixed roof and a submerged fill pipe - Determined as BACT for VOC and SO2 - PSD-LA-619(M4).

EQT0105 98-115 - Sulfuric Acid Loading

346	[LAC 33:III.509]	Shall be equipped with a submerged fill pipe - Determined as BACT for VOC and SO2 - PSD-LA-619(M4).

EQT0135 98-41 - Tank 50-1

347	[LAC 33:III.509]	Shall be equipped with a fixed roof and a submerged fill line - Determined as BACT for sulfuric acid - PSD-LA-619(M5).

EQT0136 98-42 - Tank 50-2

348	[40 CFR 63.654]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 63.654.
349	[LAC 33:III.509]	Shall be equipped with a fixed roof and a submerged fill line - Determined as BACT for sulfuric acid - PSD-LA-619(M4).
350	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart CC - Determined as MACT.

EQT0137 98-43 - Tank 50-3

351	[40 CFR 63.654]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 63.654.
352	[LAC 33:III.509]	Shall be equipped with a fixed roof and a submerged fill line - Determined as BACT for sulfuric acid - PSD-LA-619(M4).
353	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart CC - Determined as MACT.

EQT0184 98-9 - Tank Truck/Rail Car Loading

354	[40 CFR 63.422(a)]	Comply with the requirements in 40 CFR 60.502 except for 40 CFR 60.502(b), (c), and (j), as specified in 40 CFR 63.422(c). Subpart R. [40 CFR 63.422(a)]
355	[40 CFR 63.422(b)]	Total Organic Compounds (TOC) <= 10 mg/l of gasoline loaded. Subpart R. [40 CFR 63.422(b)] Which Months: All Year Statistical Basis: None specified
356	[40 CFR 63.422(e)(1)]	Design and operate the vapor processing system, vapor collection system, and liquid loading equipment to prevent gauge pressure in the railcar gasoline cargo tank from exceeding the applicable test limits in 40 CFR 63.425(e) and (i) during product loading. Do not exceed this level when measured by the procedures specified in 40 CFR 60.503(d). Subpart R. [40 CFR 63.422(e)(1)]
357	[40 CFR 63.422(e)(2)]	Ensure that no pressure-vacuum vent in the bulk gasoline terminal's vapor processing system or vapor collection system begins to open at a system pressure less than the applicable test limits in 40 CFR 63.425(e) or (i). Subpart R. [40 CFR 63.422(e)(2)]
358	[40 CFR 63.428]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.428(b), (c), (d), and (k), as applicable. Subpart R.

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EQT0184 98-9 - Tank Truck/Rail Car Loading

359	[40 CFR 63.650(a)]	Comply with 40 CFR 63.421, 63.422 (a) through (c), 63.425 (a) through (c), 63.425 (e) through (h), 63.427 (a) and (b), and 63.428 (b), (c), (g)(1), and (h)(1) through (h)(3) of 40 CFR 63 Subpart R, except as specified in 40 CFR 63.650(b) and (c). Subpart CC. [40 CFR 63.650(a)]
360	[40 CFR 63.654(b)]	Comply with the recordkeeping and reporting provisions in 40 CFR 63.428 (b) and (c), (g)(1), and (h)(1) through (h)(3) of 40 CFR 63 Subpart R. Subpart CC. [40 CFR 63.654(b)]
361	[LAC 33:III.2107.B]	Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system.
362	[LAC 33:III.2107.B]	Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system.
363	[LAC 33:III.2107.C]	Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.
364	[LAC 33:III.2107.C]	VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks. Which Months: All Year Statistical Basis: None specified
365	[LAC 33:III.2107.D]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2.
366	[LAC 33:III.2135.B.1]	Do not load gasoline into any tank trucks or trailers from any bulk gasoline terminal unless the conditions in LAC 33:III.2135.B.1.a through B.1.d are met.
367	[LAC 33:III.2135.B.3]	Do not allow gasoline to be discarded in sewers or stored in open containers or handled in any manner that would result in evaporation.
368	[LAC 33:III.2135.B.4]	Do not allow the pressure in the vapor collection system to exceed the tank truck or trailer pressure relief settings.
369	[LAC 33:III.2135.B.5]	Service only those delivery trucks/transport vessels complying with LAC 33:III.2137.
370	[LAC 33:III.2135.D.7]	Discontinue loading or unloading through affected transfer lines immediately when a leak is observed. Do not resume loading or unloading until the observed leak is repaired.
371	[LAC 33:III.2135.D.7]	Presence of a leak monitored by visual, audible, and/or olfactory during loading. Inspect for visible liquid leaks, visible fumes, or odors resulting from gasoline dispensing operations. Which Months: All Year Statistical Basis: None specified
372	[LAC 33:III.2135.D]	Determine compliance with LAC 33:III.2135 using the test methods and procedures specified in LAC 33:III.2135.D.1 through D.6.
373	[LAC 33:III.2135.E]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2135.E.1 through E.5, as applicable.
374	[LAC 33:III.2137.A.1]	Tank Trucks: Ensure that gasoline tank trucks and their vapor collection systems do not sustain a pressure change of more than 3 inches of water (0.75 kPa) in five minutes when pressurized to 18 inches of water (4.5 kPa) or evacuated to 6 inches of water (1.5 KPa) using Test Method 27 (40 CFR Part 60, Appendix A) for determination of vapor tightness of gasoline delivery tanks using pressure-vacuum test.
375	[LAC 33:III.2137.A.2]	Tank Trucks: Ensure that each tank truck has a sticker displayed on each tank indicating the identification number of the tank and the date each tank last passed the pressure and vacuum test described in LAC 33:III.2137.A.1. Certify each tank annually and display the sticker near the Department of Transportation certification plate. Make any repairs necessary to pass the specified requirements within 15 days of failure.
376	[LAC 33:III.2137.B.1]	Vapor Collection Systems: Ensure that loading and unloading operations at gasoline terminals do not produce a reading equal to or greater than 100% of the lower explosive limit (LEL, measured as propane) at 2.5 centimeters around the perimeter of a potential leak source as detected by a combustible gas detector using Test Method 21 (40 CFR Part 60, Appendix A) for determination of volatile organic compound leaks.

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EQT0184 98-9 - Tank Truck/Rail Car Loading

377	[LAC 33:III.2137.B.2]	Vapor Collection Systems: Ensure that the vapor collection and processing equipment is designed and operated to prevent tank truck gauge pressure from exceeding 18 inches of water (4.5 kPa) and prevent vacuum from exceeding 6 inches of water (1.5 kPa).
378	[LAC 33:III.2137.B.3]	Vapor Collection Systems: Equipment/operational data monitored by technically sound method annually. Make any repairs necessary to pass the specified requirements within 15 days of failure, if an inspection is failed. Which Months: All Year Statistical Basis: None specified
379	[LAC 33:III.2137.D]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records at the facility for at least two years indicating the last time the vapor collection facility passed the requirements specified in LAC 33:III.2137.B.1. Also, during the annual test procedure, record items which required repair in order to pass the specified requirements.
380	[LAC 33:III.509]	Shall comply with all applicable requirements of 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
381	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC - Determined as MACT.

EQT0198 99-6 - Tank V-10-13

382	[LAC 33:III.2103.E]	Vents shall be collected and routed to a flare as required by LAC 33:III.2103.E.
383	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e, as applicable.
384	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
385	[LAC 33:III.509]	Shall comply with all applicable provisions of LAC 33:III.2103 - Determined as BACT for VOC - PSD-LA-619(M4).
386	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with LAC 33:III.2103 per LA Refinery MACT Determination dated July 26, 1994 - Determined as MACT.

EQT0199 99-7 - Tank V-10-14

387	[LAC 33:III.2103.E]	Vents shall be collected and routed to a flare as required by LAC 33:III.2103.E.
388	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e, as applicable.
389	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
390	[LAC 33:III.509]	Shall comply with all applicable provisions of LAC 33:III.2103 - Determined as BACT for VOC - PSD-LA-619(M4).
391	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with LAC 33:III.2103 per LA Refinery MACT Determination dated July 26, 1994 - Determined as MACT.

EQT0200 99-8 - CCR Vent Gas Wash Tower

392	[40 CFR 63.1567(a)(1)]	Hydrochloric acid >= 97 % reduction by weight or <= 10 ppmv (dry basis), corrected to 3% oxygen. Subpart UUU. [40 CFR 63.1567(a)(1)] Which Months: All Year Statistical Basis: None specified

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EQT0200 99-8 - CCR Vent Gas Wash Tower

393	[40 CFR 63.1567(a)(2)]	Shall meet each site specific operating limit in Table 23 of 40 CFR part 63 subpart UUU that applies to you. These operating limits apply during coke burn-off and catalyst regeneration. [40 CFR 63.1567(a)(2)]
394	[40 CFR 63.1567(a)(3)]	Shall prepare an operation, maintenance, and monitoring plan according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1567(a)(3)]
395	[40 CFR 63.1567(b)(2)]	Conduct each performance test according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. Subpart UUU. [40 CFR 63.1567(b)(2)]
396	[40 CFR 63.1567(b)(3)]	Shall establish site-specific operating limits in Table 23 of 40 CFR part 63 subpart UUU that apply according to the procedures in Table 25 of 40 CFR 63 Subpart UUU. [40 CFR 63.1567(b)(3)]
397	[40 CFR 63.1567(b)(4)]	Shall use the applicable equations in paragraphs 40CFR63.1567(b)(4)(i) through (iv) to determine compliance with the emission limits. [40 CFR 63.1567(b)(4)]
398	[40 CFR 63.1567(b)(5)]	Shall demonstrate initial compliance with each emission limitation that applies to you according to Table 26 of 40 CFR 63 Subpart UUU. [40 CFR 63.1567(b)(5)]
399	[40 CFR 63.1567(b)(6)]	Demonstrate initial compliance with the work practice standard in 40 CFR 63.1567(a)(3) by submitting the operation, maintenance, and monitoring plan to DEQ as part of the Notification of Compliance Status. Subpart UUU. [40 CFR 63.1567(b)(6)]
400	[40 CFR 63.1567(b)(7)]	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.1574. Subpart UUU. [40 CFR 63.1567(b)(7)]
401	[40 CFR 63.1567(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 22 and 23 according to the methods specified in 40 CFR 63 Subpart UUU Tables 27 and 28. Subpart UUU. [40 CFR 63.1567(c)(1)]
402	[40 CFR 63.1567(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1567(a)(3) by maintaining records to document conformance with the procedures in the operation, maintenance and monitoring plan. Subpart UUU. [40 CFR 63.1567(c)(2)]
403	[LAC 33:III.509]	No additional control is determined as BACT for VOC - PSD-LA-619(M4).

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404	[40 CFR 60.102(a)(1)]	Total suspended particulate <= 1 kg/Mg (2.0 lb/ton) of coke burn-off, except as specified in 40 CFR 60.102(b). Subpart J. [40 CFR 60.102(a)(1)] Which Months: All Year Statistical Basis: None specified
405	[40 CFR 60.102(a)(2)]	Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Subpart J. [40 CFR 60.102(a)(2)] Which Months: All Year Statistical Basis: Six-minute average
406	[40 CFR 60.103(a)]	Carbon monoxide <= 500 ppmv (dry basis). Subpart J. [40 CFR 60.103(a)] Which Months: All Year Statistical Basis: Hourly average
407	[40 CFR 60.104(b)(1)]	Sulfur dioxide >= 90 % reduction; or Sulfur dioxide <= 50 ppmv, whichever is less stringent. Subpart J. [40 CFR 60.104(b)(1)] Which Months: All Year Statistical Basis: Seven-day rolling average
408	[40 CFR 60.105(a)(10)]	Oxygen monitored by continuous emission monitor (CEM) continuously at both the inlet and outlet of the sulfur dioxide control device (or the outlet only if specifically complying with the 50 ppmv standard). Subpart J. [40 CFR 60.105(a)(10)] Which Months: All Year Statistical Basis: None specified
409	[40 CFR 60.105(a)(12)]	Use the procedures in 40 CFR 60.105(a)(12)(i) and (ii) to evaluate the continuous monitoring systems under 40 CFR 60.105(a)(8), (a)(9), and (a)(10). Subpart J. [40 CFR 60.105(a)(12)]

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410	[40 CFR 60.105(a)(1)]	Opacity monitored by continuous opacity monitor (COM) continuously or an approved alternative monitoring plan (AMP). Subpart J. [40 CFR 60.105(a)(1), 40 CFR 64, 40 CFR 63.1564(b)(1)] Which Months: All Year Statistical Basis: None specified
411	[40 CFR 60.105(a)(2)]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(ii). Subpart J. [40 CFR 60.105(a)(2)] Which Months: All Year Statistical Basis: None specified
412	[40 CFR 60.105(a)(9)]	Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9), 40 CFR 64] Which Months: All Year Statistical Basis: None specified
413	[40 CFR 60.105(c)]	Rc & operating hours recordkeeping by electronic or hard copy daily. Record the average coke burn-off rate (Rc) (tons per hour) and hours of operation. Subpart J. [40 CFR 60.105(c)]
414	[40 CFR 60.106(a)]	Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
415	[40 CFR 60.106]	Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
416	[40 CFR 60.107(b)]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 60.107(b)(1) through (b)(4), as applicable. Subpart J. [40 CFR 60.107(b)]
417	[40 CFR 60.107(c)]	Submit exceedance report: Due semiannually, except as specified in 40 CFR 60.107(d). Include the information specified in 40 CFR 60.107(c)(1) through (c)(6). Subpart J. [40 CFR 60.107(c)]
418	[40 CFR 63.1564(a)(1)]	Opacity <= 30 percent, except for one 6-minute average opacity reading in any 1-hour period, if the discharged gases pass through an incinerator or waste heat boiler in which you burn auxiliary or in supplemental liquid or solid fossil fuel. Subpart UUU. [40 CFR 63.1564(a)(1)] Which Months: All Year Statistical Basis: Six-minute average
419	[40 CFR 63.1564(a)(1)]	Total suspended particulate <= 1 lb /1000 lb of coke burned (1 kg/1000 kg) in the catalyst regenerator. Subpart UUU. [40 CFR 63.1564(a)(1)] Which Months: All Year Statistical Basis: None specified
420	[40 CFR 63.1564(a)(3)]	Shall prepare an operation, maintenance, and monitoring plan according to the requirements of 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1564(a)(3)]
421	[40 CFR 63.1564(b)(6)]	Demonstrate initial compliance with the work practice standard in 40 CFR 63.1564(a)(3) by submitting the operation, maintenance, and monitoring plan to DEQ as part of the Notification of Compliance Status. Subpart UUU. [40 CFR 63.1564(b)(6)]
422	[40 CFR 63.1564(b)(7)]	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.1574. Subpart UUU. [40 CFR 63.1564(b)(7)]
423	[40 CFR 63.1564(b)]	Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1564(b)(4) and (b)(5). Subpart UUU. [40 CFR 63.1564(b)]
424	[40 CFR 63.1564(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 1 and 2 according to the methods specified in 40 CFR 63 Subpart UUU Tables 6 and 7, and in 40 CFR 63.1564(c)(3) and (c)(4), as applicable. Subpart UUU. [40 CFR 63.1564(c)(1)]
425	[40 CFR 63.1564(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1564(a)(3) by maintaining records to document conformance with the procedures in the operation, maintenance, and monitoring plan. Subpart UUU. [40 CFR 63.1564(c)(2)]
426	[40 CFR 63.1565(a)(1)]	Carbon monoxide <= 500 ppmv (dry basis). Subpart UUU. [40 CFR 63.1565(a)(1)] Which Months: All Year Statistical Basis: None specified

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427	[40 CFR 63.1565(b)(1)]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as specified in 40 CFR 63.1565(b)(1)(i) through (b)(1)(iii). Subpart UUU. [40 CFR 63.1565(b)(1)] Which Months: All Year Statistical Basis: None specified
428	[40 CFR 63.1565(b)(4)]	Demonstrate initial compliance with each applicable emission limitation according to 40 CFR 63 Subpart UUU Table 12. Subpart UUU. [40 CFR 63.1565(b)(4)]
429	[40 CFR 63.1565(b)(5)]	Demonstrate initial compliance with the work practice standard in 40 CFR 63.1565(a)(3) by submitting the operation, maintenance, and monitoring plan to DEQ as part of the Notification of Compliance Status according to 40 CFR 63.1574. Subpart UUU. [40 CFR 63.1565(b)(5)]
430	[40 CFR 63.1565(b)(6)]	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.1574. Subpart UUU. [40 CFR 63.1565(b)(6)]
431	[40 CFR 63.1565(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 8 and 9 according to the methods specified in 40 CFR 63 Subpart UUU Tables 13 and 14. Subpart UUU. [40 CFR 63.1565(c)(1)]
432	[40 CFR 63.1565(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1565(a)(3) by complying with the procedures in the operation, maintenance, and monitoring plan. Subpart UUU. [40 CFR 63.1565(c)(2)]
433	[LAC 33:III.1311.D]	Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Which Months: All Year Statistical Basis: Six-minute average
434	[LAC 33:III.1503.C]	Sulfur dioxide <= 2000 ppmv at standard conditions. Which Months: All Year Statistical Basis: Three-hour average
435	[LAC 33:III.1511.A]	Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Ensure that the measurement system is certified according to Performance Specification 2 of 40 CFR 60, Appendix B, and quality assured by the procedures in 40 CFR 60, Appendix F. Which Months: All Year Statistical Basis: None specified
436	[LAC 33:III.1513]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
437	[LAC 33:III.1513]	Submit quarterly reports of three-hour excess emissions and reports of emergency conditions, in accordance with LAC 33:I.Chapter 39.
438	[LAC 33:III.509]	Nitrogen oxides monitored by continuous emission monitor (CEM) continuously Which Months: All Year Statistical Basis: 365-day rolling average - PSD-LA-619(M4).
439	[LAC 33:III.509]	Nitrogen oxides: <=20 ppmdv (365 day rolling average) - Determined as BACT for NOX - PSD-LA-619(M4).
440	[LAC 33:III.509]	Shall be equipped with a wet scrubber to maintain PM <= 2.0 lbs per ton of coke burned - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
441	[LAC 33:III.509]	Shall be equipped with a wet scrubber with a removal efficiency of Sulfur dioxide >= 90 % by weight or reduce SO2 in flue gas to <= 50 ppmv - Determined as BACT for PM/PM10, SO2, and H2SO4 - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Seven-day rolling average
442	[LAC 33:III.509]	Shall utilize good combustion practices via full burn technology - Determined as BACT for CO, VOC, and H2S - PSD-LA-619(M4).
443	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP Subpart UUU contstitutes MACT.

EQT0249 2005-57 - Sulfur Loading

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EQT0249 2005-57 - Sulfur Loading

444	[LAC 33:III.509]	Proper design and operation are determined as BACT for H2S - PSD-LA-619(M4).

EQT0250 2005-58 - Coker No. 1 Steam Vent

445	[LAC 33:III.509]	No additional control is determined as BACT for VOC - PSD-LA-619(M4).

EQT0251 2005-59 - Coker No. 2 Steam Vent

446	[LAC 33:III.509]	No additional control is determined as BACT for VOC - PSD-LA-619(M4).

EQT0252 01-02 - Diesel Engines

447	[40 CFR 63.6645]	Submit initial reports as required by 40 CFR 63 Subpart ZZZZ.
448	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
449	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average
450	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT0254 RPV - Refinery Process Vent Streams

451	[LAC 33:III.501.C.6]	Permittee shall maintain on site a list of all process vent streams from refinery process units containing more than 20 ppmv of organic HAP that are generated during normal operation of a refinery process unit and routed to the fuel gas system. The list shall be updated semiannually and available for inspection by LDEQ.
452	[LAC 33:III.509]	Process vent streams containing more than 20 ppmv of organic HAP that are generated during normal operation of a refinery process unit and met the exemption requirements of 40 CFR 63.641 shall be routed to the fuel gas system - Determined as BACT - PSD-LA-619(M4).
453	[LAC 33:III.509]	Process vents shall be routed to the fuel gas system or burned at the flares that meet requirements of 40 CFR 60 Subparts A and J - Determined as BACT for VOC and H2S - PSD-LA-619(M4).
454	[LAC 33:III.5109.A]	Process vent streams containing more than 20 ppmv of organic HAP that are generated during normal operation of a refinery process unit and met the exemption requirements of 40 CFR 63.641 shall be routed to the fuel gas system - Determined as MACT.

EQT0255 WW - Wastewater Collection and Conveyance

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EQT0255 WW - Wastewater Collection and Conveyance

455	[LAC 33:III.509]	VOC emissions from collection and conveyance of wastewater from the ARU shall comply with the HON requirements. VOC emissions from collection and conveyance of wastewater from the refinery shall comply with the requirements of the Louisiana Refinery MACT - Determined as BACT for VOC - PSD-LA-619(M4).
456	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. TAP emissions from wastewater collection and conveyance equipment of the ARU shall comply with all applicable requirements of the HON regulations. TAP emissions from wastewater collection and conveyance equipment of the refinery shall comply with all applicable requirements of the Louisiana Refinery MACT. - Determined as MACT.

EQT0312 Refinery Fuel Gas - Refinery Fuel Gas System

457	[40 CFR 60.104(a)(1)]	Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)] Which Months: All Year Statistical Basis: Three-hour rolling average
458	[40 CFR 60.105(a)(4)]	Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)] Which Months: All Year Statistical Basis: Three-hour rolling average
459	[40 CFR 60.106(a)]	Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
460	[40 CFR 60.106]	Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
461	[LAC 33:III.501.C.6]	Equipment that burns refinery fuel gas shall comply with all Specific Requirements listed for the Refinery Fuel Gas System.

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462	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
463	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
464	[LAC 33:III.509]	Carbon monoxide <= 0.08 lbs/MM BTU - three one hour testing average - by complying with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for CO - PSD-LA-619(M4).
465	[LAC 33:III.509]	Conduct a performance/emissions test for nitrogen oxides and carbon monoxide: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

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466	[LAC 33:III.509]	Nitrogen oxides <=0.04 lb/MMBTU with air preheat or <= 0.03 lb/MMBTU without air preheat (three one hour testing average) - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4).
467	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or fuel gases with H2S <= 10 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
468	[LAC 33:III.509]	Shall comply with 40 CFR 60 Subparts NNN and RRR - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

EQT0344 2008-31 - Raffinate Tank, EFR

469	[40 CFR 60.18(c)(1)]	Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
470	[40 CFR 60.18(c)(2)]	Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
471	[40 CFR 60.18(c)(3)(ii)]	Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)] Which Months: All Year Statistical Basis: None specified
472	[40 CFR 60.18(c)(4)(iii)]	Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity Vmax, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)] Which Months: All Year Statistical Basis: None specified
473	[40 CFR 60.18(d)]	Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
474	[40 CFR 60.18(e)]	Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
475	[40 CFR 60.18(f)(2)]	Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)] Which Months: All Year Statistical Basis: None specified
476	[LAC 33:III.1105]	Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. Which Months: All Year Statistical Basis: None specified
477	[LAC 33:III.1105]	Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
478	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
479	[LAC 33:III.501.C.6]	To minimize flaring and assure compliance with the emission limits of this permit, permittee shall install a flare gas recovery system on the ARU Flare (EQT0349). The flare gas recovery system shall be installed and operated upon initial startup, subject to a shakedown period, and shall be fully operational up on achieving normal operation which shall be no later than 180 days from initial startup of the affected equipment.
480	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or fuel gases with H2S <= 10 ppmv on an annual average, as fuels for the flare tips - Determined as BACT for SO2 - PSD-LA-619(M4).

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EQT0344 2008-31 - Raffinate Tank, EFR

481	[LAC 33:III.509]	Shall comply with 40 CFR 60 Subpart A - Determined as BACT for PM/PM10, NOX, CO, and VOC - PSD-LA-619(M4).
482	[LAC 33:III.509]	Weekly visible emission check - PSD-LA-619(M4).
483	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 60 Subpart A - Determined as MACT.

EQT0348 2008-35 - ARU Cooling Tower

484	[40 CFR 63.102(a)]	Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
485	[40 CFR 63.103(b)(1)]	Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
486	[40 CFR 63.103(b)(2)]	Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
487	[40 CFR 63.103(b)(3)]	Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
488	[40 CFR 63.103(c)(1)]	Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
489	[40 CFR 63.103(c)(2)]	Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
490	[40 CFR 63.103(c)]	Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
491	[40 CFR 63.104(b)]	Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Alternative monitoring methods may be used as specified in 40 CFR 63.104(b)(3). Subpart F. [40 CFR 63.104(b)] Which Months: All Year Statistical Basis: None specified
492	[40 CFR 63.104(d)]	Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
493	[40 CFR 63.104(e)]	Shall follow procedures specified in 40 CFR 63.104(e) for any delay of repair of heat exchange systems for which leaks have been detected. [40 CFR 63.104(e)]
494	[40 CFR 63.104(f)]	Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
495	[40 CFR 63.105(d)]	Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

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EQT0348 2008-35 - ARU Cooling Tower

496	[40 CFR 63.105]	Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
497	[LAC 33:III.509]	Shall be equipped with drift eliminators - Determined as BACT for PM/PM10 - PSD-LA-619(M4).
498	[LAC 33:III.509]	Shall have a monitoring program that meets requirements of 40 CFR 63 Subpart F to minimize VOC emissions from the cooling tower - Determined as BACT for VOC - PSD-LA-619(M4).
499	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall have a monitoring program that meets requirements of 40 CFR 63 Subpart F, to minimize VOC emissions from the cooling tower - Determined as MACT.

EQT0350 94-8 - MVR Thermal Oxidizer No. 1

500	[40 CFR 63.651(a)]	Comply with the requirements of 40 CFR 63.560 through 63.567, except as specified in 40 CFR 63.651(b) through (d). Subpart CC. [40 CFR 63.651(a)]
501	[40 CFR 63.654(c)]	Comply with the recordkeeping and reporting provisions in 40 CFR 63.566 and 63.567(a) and 63.567(c) through (i) of 40 CFR 63 Subpart Y. Subpart CC. [40 CFR 63.654(c)]
502	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
503	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
504	[LAC 33:III.2108.C.1]	Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
505	[LAC 33:III.2108.C.2]	VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system. Currently, emissions of vapor from products having vapor pressure 1.5 psia are <100 TPY. Which Months: All Year Statistical Basis: None specified
506	[LAC 33:III.2108.C.3.a]	Barge loading of gasoline: Total Organic Compounds (TOC) <= 70 mg/l of VOC loaded (0.6 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
507	[LAC 33:III.2108.C.3.b]	Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
508	[LAC 33:III.2108.C.3.c]	Ship loading of gasoline: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
509	[LAC 33:III.2108.C.3.d]	Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 12 mg/l of VOC loaded (0.1 lb/1000 gal). Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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EQT0350 94-8 - MVR Thermal Oxidizer No. 1

510	[LAC 33:III.2108.C.5]	Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system, unless the loading VOL has a true vapor pressure <= 1.5 psia.
511	[LAC 33:III.2108.C.6]	Properly connect the vapor collection and disposal system to the ships and/or barges before loading any VOL with a true vapor pressure > 1.5 psia is done.
512	[LAC 33:III.2108.D.4]	Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
513	[LAC 33:III.2108.E]	Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
514	[LAC 33:III.2108.F.1]	Submit appicable test results: Due to the Office of Environmental Assessment, Environmental Technology Division within 45 days of any applicable testing done in accordance with LAC 33:III.2108.E.
515	[LAC 33:III.2108.F.2]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
516	[LAC 33:III.2108.G.1]	Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
517	[LAC 33:III.2108.G.2]	Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
518	[LAC 33:III.2108.G.3]	Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.
519	[LAC 33:III.507.H.1.a]	Shall monitor the dock throughput to demonstrate exemption from 40 CFR 63 Subpart Y.
520	[LAC 33:III.509]	Shall comply with all applicable provisions of LAC 33:III.2108 and 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
521	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
522	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10, NOX, and CO - Determined as BACT - PSD-LA-619(M4).
523	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall meet the provisions of LAC 33:III.2108 and 40 CFR 63 Subpart CC.

EQT0351 2008-38 - MVR Thermal Oxidizer No. 2

524	[40 CFR 61.302(b)]	Benzene >= 98 % reduction by weight. Subpart BB. [40 CFR 61.302(b)] Which Months: All Year Statistical Basis: None specified
525	[40 CFR 61.302(k)]	Presence of a leak monitored by technically sound method during loading of tank trucks, railcars, or marine vessels. Inspect the vapor collection system and control device for detectable emissions and repair any leaks detected in accordance with 40 CFR 61.242-11(e) and (f). Subpart BB. [40 CFR 61.302(k)] Which Months: All Year Statistical Basis: None specified
526	[40 CFR 61.302(l)]	Vent systems: Have car-sealed opened all valves in the vent system from the emission source to the control device, and car-sealed closed all valves in the vent system that would lead the vent stream to the atmosphere, either directly or indirectly, bypassing the control device. Subpart BB. [40 CFR 61.302(l)]

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EQT0351 2008-38 - MVR Thermal Oxidizer No. 2

527	[40 CFR 61.303(a)]	Temperature monitored by temperature monitoring device continuously. Install the temperature monitoring device in the firebox, for incinerators other than catalytic incinerators; install in the gas stream immediately before and after the catalyst bed, for catalytic incinerators. Subpart BB. [40 CFR 61.303(a), 40 CFR 64] Which Months: All Year Statistical Basis: None specified
528	[40 CFR 61.303(g)]	Vent system: Install a flow indicator immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted either directly or indirectly to the atmosphere, and ensure that the flow indicator is capable of recording flow at least once every 15 minutes; and/or monitor the valves once a month, checking the position of the valves and the condition of the car seal, and identify all times when the car seals have been broken and the valve position has been changed (i.e., from opened to closed for valves in the vent piping to the control device and from closed to open for valves that allow the stream to be vented directly or indirectly to the atmosphere). Subpart BB. [40 CFR 61.303(g)]
529	[40 CFR 61.304]	Determine compliance with 40 CFR 61.302 using the test methods and procedures specified in 40 CFR 61.304(a) through (f), as appropriate. Subpart BB.
530	[40 CFR 61.305(a)(5)]	Submit report: Due with the initial performance test. Submit an engineering report describing in detail the vent system used to vent each affected vent stream to a control device. Include all valves and vent pipes that could vent the stream to the atmosphere, thereby bypassing the control device, and identify which valves are car-sealed opened and which valves are car-sealed closed. Subpart BB. [40 CFR 61.305(a)(5)]
531	[40 CFR 61.305(a)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep an up-to-date, readily accessible record of the data specified in 40 CFR 61.305(a)(1) through (a)(4) measured during each performance test. Also include this data in the report of the initial performance test required under 40 CFR 61.13. Subpart BB. [40 CFR 61.305(a)]
532	[40 CFR 61.305(b)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored under 40 CFR 61.303(a), (c), and (d) as well as up-to-date, readily accessible records of periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. Subpart BB. [40 CFR 61.305(b)]
533	[40 CFR 61.305(c)]	Vent system: Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible continuous records of all periods when flow is indicated if flow indicators are installed under 40 CFR 61.303(g)(1); and all times when maintenance is performed on car-sealed valves, when the car seal is broken, and when the valve position is changed, if valves are monitored under 40 CFR 61.303(g)(2). Subpart BB. [40 CFR 61.305(c)]
534	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
535	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
536	[LAC 33:III.2108.C.1]	Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
537	[LAC 33:III.2108.C.2]	VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system. Currently, emissions of vapor from products having vapor pressure 1.5 psia are <100 TPY. Which Months: All Year Statistical Basis: None specified

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EQT0351 2008-38 - MVR Thermal Oxidizer No. 2

538	[LAC 33:III.2108.C.3.a]	Barge loading of gasoline: Total Organic Compounds (TOC) <= 70 mg/l of VOC loaded (0.6 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
539	[LAC 33:III.2108.C.3.b]	Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
540	[LAC 33:III.2108.C.3.c]	Ship loading of gasoline: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
541	[LAC 33:III.2108.C.3.d]	Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 12 mg/l of VOC loaded (0.1 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
542	[LAC 33:III.2108.C.5]	Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system, unless the loading VOL has a true vapor pressure <= 1.5 psia.
543	[LAC 33:III.2108.C.6]	Properly connect the vapor collection and disposal system to the ships and/or barges before loading any VOL with a true vapor pressure > 1.5 psia is done.
544	[LAC 33:III.2108.D.4]	Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
545	[LAC 33:III.2108.E]	Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
546	[LAC 33:III.2108.F.1]	Submit appicable test results: Due to the Office of Environmental Assessment, Environmental Technology Division within 45 days of any applicable testing done in accordance with LAC 33:III.2108.E.
547	[LAC 33:III.2108.F.2]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
548	[LAC 33:III.2108.G.1]	Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
549	[LAC 33:III.2108.G.2]	Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
550	[LAC 33:III.2108.G.3]	Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.
551	[LAC 33:III.509]	Proper design and operation, good combustion practices and gaseous fuels - Determined as BACT for PM/PM10, NOX, and CO - Determined as BACT - PSD-LA-619(M4).
552	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 61 Subpart BB - Determined as BACT for VOC - PSD-LA-619(M4).
553	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or process fuel gases with H2S <= 10 ppmv on an annual average - Determined as BACT for SO2 - PSD-LA-619(M4).
554	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall meet the provisions of LAC 33:III.2108 and 40 CFR 63 Subparts CC and Y, if applicable.

EQT0353 2008-41 - Thermal Oxidizer No. 8

555	[40 CFR 61.349(a)(1)(i)]	Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

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EQT0353 2008-41 - Thermal Oxidizer No. 8

556	[40 CFR 61.349(a)(1)(ii)]	Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B). Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)] Which Months: All Year Statistical Basis: None specified
557	[40 CFR 61.349(a)(1)(ii)]	Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
558	[40 CFR 61.349(a)(1)(iii)]	Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]
559	[40 CFR 61.349(a)(2)(i)(C)]	Residence time >= 0.5 sec at a minimum temperature of 760 degrees C (1400 degrees F). Subpart FF. [40 CFR 61.349(a)(2)(i)(C)] Which Months: All Year Statistical Basis: None specified
560	[40 CFR 61.349(b)]	Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]
561	[40 CFR 61.349(c)]	Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
562	[40 CFR 61.349(f)]	Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)] Which Months: All Year Statistical Basis: None specified
563	[40 CFR 61.349(g)]	Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
564	[40 CFR 61.354(c)(1)]	Temperature monitored by temperature monitoring device continuously. Install the temperature sensor at a representative location in the combustion chamber. Subpart FF. [40 CFR 61.354(c)(1)] Which Months: All Year Statistical Basis: None specified
565	[40 CFR 61.354(c)(1)]	Temperature recordkeeping by recorder continuously. Subpart FF. [40 CFR 61.354(c)(1)]
566	[40 CFR 61.354(c)]	Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the control device is operating properly. Subpart FF. [40 CFR 61.354(c)] Which Months: All Year Statistical Basis: None specified
567	[40 CFR 61.354(f)(1)]	Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)] Which Months: All Year Statistical Basis: None specified
568	[40 CFR 61.354(f)(2)]	Closed-vent system (bypass line): Flow monitored by visual inspection/determination daily. Inspect the readings from each flow monitoring device required by 40 CFR 61.349(a)(1)(ii) to check that vapors are being routed to the control device as required. Subpart FF. [40 CFR 61.354(f)(2)] Which Months: All Year Statistical Basis: None specified

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AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0353 2008-41 - Thermal Oxidizer No. 8

569	[40 CFR 61.354(g)]	Pressure monitored by pressure instrument continuously to ensure that the pressure is less than atmospheric pressure. Subpart FF. [40 CFR 61.354(g)] Which Months: All Year Statistical Basis: None specified
570	[40 CFR 61.354(g)]	Pressure recordkeeping by recorder continuously. Subpart FF. [40 CFR 61.354(g)]
571	[40 CFR 61.355]	Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
572	[40 CFR 61.356]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
573	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
574	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
575	[LAC 33:III.509]	Proper design and operation, good combustion practices and gaseous fuels - Determined as BACT for PM/PM10, NOX, and CO - Determined as BACT - PSD-LA-619(M4).
576	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 61 Subpart FF - Determined as BACT for VOC - PSD-LA-619(M4).
577	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or process fuel gases with H2S <= 100 ppmv on an annual average - Determined as BACT for SO2 - PSD-LA-619(M4).
578	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 61 Subpart FF - Determined as MACT.

EQT0357 2008-46 - Railcar Loading Rack

579	[40 CFR 63.126(a)]	Equip with a vapor collection system and control device. Subpart G. [40 CFR 63.126(a)].
580	[40 CFR 63.126(b)(1)]	Organic HAP >= 98 % reduction by weight or exit concentration <= 20 ppmv, calculated on a dry basis, corrected to 3% oxygen, whichever is less stringent, using a control device. Subpart G. [40 CFR 63.126(b)(1)] Which Months: All Year Statistical Basis: None specified
581	[40 CFR 63.126(e)]	Load organic HAPs into only tank trucks and railcars which have a current certification in accordance with the U.S. Department of Transportation pressure test requirements of 49 CFR part 180 for tank trucks and 49 CFR 173.31 for railcars; or have been demonstrated to be vapor-tight within the preceding 12 months, as determined by the procedures in 40 CFR 63.128(f). Subpart G. [40 CFR 63.126(e)]
582	[40 CFR 63.126(f)]	Load organic HAPs to only tank trucks or railcars equipped with vapor collection equipment that is compatible with the transfer rack's vapor collection system. Subpart G. [40 CFR 63.126(f)]
583	[40 CFR 63.126(g)]	Load organic HAPs to only tank trucks or railcars whose collection systems are connected to the transfer rack's vapor collection systems. Subpart G. [40 CFR 63.126(g)]

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EQT0357 2008-46 - Railcar Loading Rack

584	[40 CFR 63.126(h)]	Ensure that no pressure-relief device, except those needed for safety purposes, in the transfer rack's vapor collection system or in the organic HAPs loading equipment of each tank truck or railcar shall begin to open during loading. Subpart G. [40 CFR 63.126(h)]
585	[40 CFR 63.126(i)]	Except low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relievf devices needed for safety purposes, each valve in the vent system that would divert the vent stream to the atmosphere, either directly or indirectly, shall be secured in a non-diverting position using a carseal or a lock-and-key type configuration, or shall be equipped with a flow indicator. [40 CFR 63.126(i)]
586	[40 CFR 63.130]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.130(e) and (f). Subpart G.
587	[LAC 33:III.2107]	Shall comply with LAC 33:III.2107 by complying with all applicable provisions of 40 CFR 63 Subpart G.
588	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 63 Subpart G - Determined as BACT for VOC - PSD-LA-619(M4).
589	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart G - Determined as MACT.

EQT0358 SRU SU/SD - SRUs Startups and Shutdowns

590	[LAC 33:III.509]	Shall 1) have a written SU/SD standard operating procedures (SOPs) for the SRUs, 2) follow the written SOPs for the SRU SU/SD, 3) minimize the frequency and duration of SU/SD, and 4) properly document each SRU SU/SD - Determined as BACT for SO2 - PSD-LA-619(M4).

EQT0359 WWTU - Wastewater Treatment Unit

591	[40 CFR 61.348(b)(1)]	Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]
592	[40 CFR 61.348(c)]	Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]
593	[40 CFR 61.348(e)(1)]	Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)] Which Months: All Year Statistical Basis: None specified
594	[40 CFR 61.348(e)(2)]	Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]
595	[40 CFR 61.348(e)]	Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
596	[40 CFR 61.354(a)(2)]	Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
597	[40 CFR 61.354(a)(2)]	Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]

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EQT0359 WWTU - Wastewater Treatment Unit

598	[40 CFR 61.354(a)(2)]	Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
599	[40 CFR 61.354(b)(1)]	Benzene monitored by the regulation's specified method(s) monthly. For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, monitor the benzene concentration of each waste stream entering the unit by collecting and analyzing one or more samples using the procedures specified in 40 CFR 61.355(c)(3). Subpart FF. [40 CFR 61.354(b)(1)] Which Months: All Year Statistical Basis: None specified
600	[40 CFR 61.354(b)(1)]	Benzene recordkeeping by electronic or hard copy monthly. Record the benzene concentration of each waste stream entering the unit. Subpart FF. [40 CFR 61.354(b)(1)]
601	[40 CFR 61.354(b)(1)]	Flow rate monitored by the regulation's specified method(s) monthly. For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, monitor the flow rate using the procedures specified in 40 CFR 61.355(b). Subpart FF. [40 CFR 61.354(b)(1)] Which Months: All Year Statistical Basis: None specified
602	[40 CFR 61.354(b)(1)]	Flow rate recordkeeping by electronic or hard copy monthly. Subpart FF. [40 CFR 61.354(b)(1)]
603	[40 CFR 61.354(b)(2)]	Benzene monitored by the regulation's specified method(s) monthly. For each enhanced biodegradation unit that is the first exempt waste management unit in a treatment train, measure the benzene concentration of each waste stream entering the unit by collecting and analyzing one or more samples using the procedures in 40 CFR 61.355(c). Subpart FF. [40 CFR 61.354(b)(2)] Which Months: All Year Statistical Basis: None specified
604	[40 CFR 61.354(b)(2)]	Benzene recordkeeping by electronic or hard copy monthly. Record the benzene concentration of each waste stream entering the unit. Subpart FF. [40 CFR 61.354(b)(2)]
605	[40 CFR 61.355]	Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
606	[40 CFR 61.356]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
607	[LAC 33:III.509]	The refinery shall comply with all applicable provisions of 40 CFR 61 Subpart FF - Determined as BACT for VOC - PSD-LA-619(M4).
608	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. The refinery shall comply with all applicable provisions of 40 CFR 61 Subpart FF - Determined as MACT.

EQT0361 API-S - API Separator

609	[40 CFR 61.348(b)(1)]	Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]
610	[40 CFR 61.348(c)]	Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
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EQT0361 API-S - API Separator

611	[40 CFR 61.348(e)(1)]	Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)] Which Months: All Year Statistical Basis: None specified
612	[40 CFR 61.348(e)(2)]	Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]
613	[40 CFR 61.348(e)]	Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
614	[40 CFR 61.354(a)(2)]	Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
615	[40 CFR 61.354(a)(2)]	Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]
616	[40 CFR 61.354(a)(2)]	Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
617	[40 CFR 61.354(b)(1)]	Benzene monitored by the regulation's specified method(s) monthly. For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, monitor the benzene concentration of each waste stream entering the unit by collecting and analyzing one or more samples using the procedures specified in 40 CFR 61.355(c)(3). Subpart FF. [40 CFR 61.354(b)(1)] Which Months: All Year Statistical Basis: None specified
618	[40 CFR 61.354(b)(1)]	Benzene recordkeeping by electronic or hard copy monthly. Record the benzene concentration of each waste stream entering the unit. Subpart FF. [40 CFR 61.354(b)(1)]
619	[40 CFR 61.354(b)(1)]	Flow rate monitored by the regulation's specified method(s) monthly. For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, monitor the flow rate using the procedures specified in 40 CFR 61.355(b). Subpart FF. [40 CFR 61.354(b)(1)] Which Months: All Year Statistical Basis: None specified
620	[40 CFR 61.354(b)(1)]	Flow rate recordkeeping by electronic or hard copy monthly. Subpart FF. [40 CFR 61.354(b)(1)]
621	[40 CFR 61.354(b)(2)]	Benzene monitored by the regulation's specified method(s) monthly. For each enhanced biodegradation unit that is the first exempt waste management unit in a treatment train, measure the benzene concentration of each waste stream entering the unit by collecting and analyzing one or more samples using the procedures in 40 CFR 61.355(c). Subpart FF. [40 CFR 61.354(b)(2)] Which Months: All Year Statistical Basis: None specified
622	[40 CFR 61.354(b)(2)]	Benzene recordkeeping by electronic or hard copy monthly. Record the benzene concentration of each waste stream entering the unit. Subpart FF. [40 CFR 61.354(b)(2)]
623	[40 CFR 61.355]	Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
624	[40 CFR 61.356]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0361 API-S - API Separator

625	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 61 Subpart FF - Determined as BACT for VOC - PSD-LA-619(M4).
626	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall be equipped with a closed vent system followed by a thermal oxidizer - Determined as MACT.

EQT0362 DGF - Dissolved Gas Flotation

627	[40 CFR 61.348(b)(1)]	Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]
628	[40 CFR 61.348(c)]	Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]
629	[40 CFR 61.348(e)(1)]	Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)] Which Months: All Year Statistical Basis: None specified
630	[40 CFR 61.348(e)(2)]	Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]
631	[40 CFR 61.348(e)]	Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
632	[40 CFR 61.354(a)(2)]	Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
633	[40 CFR 61.354(a)(2)]	Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]
634	[40 CFR 61.354(a)(2)]	Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
635	[40 CFR 61.354(b)(1)]	Benzene monitored by the regulation's specified method(s) monthly. For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, monitor the benzene concentration of each waste stream entering the unit by collecting and analyzing one or more samples using the procedures specified in 40 CFR 61.355(c)(3). Subpart FF. [40 CFR 61.354(b)(1)] Which Months: All Year Statistical Basis: None specified
636	[40 CFR 61.354(b)(1)]	Benzene recordkeeping by electronic or hard copy monthly. Record the benzene concentration of each waste stream entering the unit. Subpart FF. [40 CFR 61.354(b)(1)]
637	[40 CFR 61.354(b)(1)]	Flow rate monitored by the regulation's specified method(s) monthly. For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, monitor the flow rate using the procedures specified in 40 CFR 61.355(b). Subpart FF. [40 CFR 61.354(b)(1)] Which Months: All Year Statistical Basis: None specified
638	[40 CFR 61.354(b)(1)]	Flow rate recordkeeping by electronic or hard copy monthly. Subpart FF. [40 CFR 61.354(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0362 DGF - Dissolved Gas Flotation

639	[40 CFR 61.354(b)(2)]	Benzene monitored by the regulation's specified method(s) monthly. For each enhanced biodegradation unit that is the first exempt waste management unit in a treatment train, measure the benzene concentration of each waste stream entering the unit by collecting and analyzing one or more samples using the procedures in 40 CFR 61.355(c). Subpart FF. [40 CFR 61.354(b)(2)] Which Months: All Year Statistical Basis: None specified
640	[40 CFR 61.354(b)(2)]	Benzene recordkeeping by electronic or hard copy monthly. Record the benzene concentration of each waste stream entering the unit. Subpart FF. [40 CFR 61.354(b)(2)]
641	[40 CFR 61.355]	Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
642	[40 CFR 61.356]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
643	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 61 Subpart FF - Determined as BACT for VOC - PSD-LA-619(M4).
644	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall be equipped with a closed vent system followed by a thermal oxidizer - Determined as MACT.

EQT0363 ARUML - ARU Marine Loading

645	[40 CFR 61.300(c)]	Shall comply with all applicable standards listed in 40 CFR 61.302 or specified in 40 CFR 61.300(f). [40 CFR 61.300(c)]
646	[40 CFR 61.300(e)]	If loading marine vessels only, achieve compliance with the provisions in 40 CFR 61 Subpart BB on and after July 23, 1991. If loading marine vessels and tank trucks or railcars, the marine vessel loading racks must achieve compliance with 40 CFR 61 Subpart BB on and after July 23, 1991, while the tank truck loading racks and railcar loading racks must achieve compliance as required by 40 CFR 61.12. Subpart BB. [40 CFR 61.300(e)]
647	[40 CFR 61.302(a)]	Equip with a vapor collection system that is designed to collect all benzene vapors displaced from tank trucks, railcars, or marine vessels during loading, and to prevent any benzene vapors collected at one loading rack from passing through another loading rack to the atmosphere. Subpart BB. [40 CFR 61.302(a)]
648	[40 CFR 61.302(b)]	Benzene >= 98 % reduction by weight using a control device. Subpart BB. [40 CFR 61.302(b)] Which Months: All Year Statistical Basis: None specified
649	[40 CFR 61.302(e)(1)]	Limit the loading of benzene into marine vessels to those vessels that are vapor tight by ensuring that each marine vessel is loaded with the benzene product tank below atmospheric pressure (i.e., at negative pressure). If the pressure is measured at the interface between shoreside vapor collection pipe and marine vessel vapor line, the pressure measured according to the procedures in 40 CFR 61.303(f) must be below atmospheric pressure. Subpart BB. [40 CFR 61.302(e)(1)]
650	[40 CFR 61.302(e)(2)]	Limit the loading of benzene into marine vessels to those vessels that are vapor tight by using the procedure in 40 CFR 61.302(e)(2)(i) through (iii) to obtain the vapor-tightness documentation described in 40 CFR 61.305(h). Subpart BB. [40 CFR 61.302(e)(2)]
651	[40 CFR 61.302(e)(3)]	Limit the loading of benzene into marine vessels to those vessels that are vapor tight by obtaining a copy of the marine vessel's vapor-tightness documentation described in 40 CFR 61.305(h) for a test conducted within the preceding 12 months in accordance with 40 CFR 61.304(f). Subpart BB. [40 CFR 61.302(e)(3)]
652	[40 CFR 61.302(e)]	Shall load materials only to vessels that are vapor tight. Shall obtain vapor tighness documentation as specified in 40 CFR 61.302(e)(2) and (3). [40 CFR 61.302(e)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0363 ARUML - ARU Marine Loading

653	[40 CFR 61.302(f)]	Limit loading of benzene to tank trucks, railcars, and marine vessels equipped with vapor collection equipment that is compatible with the facility's vapor collection system. Subpart BB. [40 CFR 61.302(f)]
654	[40 CFR 61.302(g)]	Limit loading of benzene into tank trucks, railcars, and marine vessels to those whose collection systems are connected to the facility's vapor collection systems. Subpart BB. [40 CFR 61.302(g)]
655	[40 CFR 61.302(j)]	Ensure that the maximum normal operating pressure of the marine vessel's vapor collection equipment shall not exceed 0.8 times the relief set pressure of the pressure-vacuum vents. This level is not to be exceeded when measured by the procedures specified in 40 CFR 61.304(d). Subpart BB. [40 CFR 61.302(j)]
656	[40 CFR 61.303(f)]	Pressure monitored by pressure instrument during loading. Install a recording pressure measurement device (magnehelic gauge or equivalent device) and an audible and visible alarm system that is activated when the pressure vacuum specified in 40 CFR 61.302(e)(1) is not attained. Place the alarm system so that it can be seen and heard where cargo transfer is controlled and on the open deck. Subpart BB. [40 CFR 61.303(f)] Which Months: All Year Statistical Basis: None specified
657	[40 CFR 61.303(f)]	Pressure recordkeeping by recorder during loading. Subpart BB. [40 CFR 61.303(f)]
658	[40 CFR 61.304]	Determine compliance with 40 CFR 61.302 using the test methods and procedures specified in 40 CFR 61.304(a) through (f), as appropriate. Subpart BB.
659	[40 CFR 61.305(f)]	Submit report: Due quarterly. Submit the initial report within 90 days after the effective date of 40 CFR 61 Subpart BB or 90 days after startup for a source that has an initial startup date after the effective date. Include the information specified in 40 CFR 61.605(f)(1) through (f)(5). Subpart BB. [40 CFR 61.305(f)]
660	[40 CFR 61.305(g)]	Keep the vapor-tightness documentation required under 40 CFR 61.302(d) and (e) on file at the affected facility in a permanent form available for inspection. Subpart BB. [40 CFR 61.305(g)]
661	[40 CFR 61.305(h)]	Update the documentation file required under 40 CFR 61.302(d) and (e) for each tank truck, railcar, or marine vessel at least once per year to reflect current test results as determined by the appropriate method. Include, as a minimum, the information specified in 40 CFR 61.305(h)(1) through (h)(8). Subpart BB. [40 CFR 61.305(h)]
662	[LAC 33:III.2108.C.1]	Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
663	[LAC 33:III.2108.C.2]	VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system. Which Months: All Year Statistical Basis: None specified
664	[LAC 33:III.2108.C.3.a]	Barge loading of gasoline: Total Organic Compounds (TOC) <= 70 mg/l of VOC loaded (0.6 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
665	[LAC 33:III.2108.C.3.b]	Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
666	[LAC 33:III.2108.C.3.c]	Ship loading of gasoline: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
667	[LAC 33:III.2108.C.3.d]	Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 12 mg/l of VOC loaded (0.1 lb/1000 gal). Which Months: All Year Statistical Basis: None specified
668	[LAC 33:III.2108.C.5]	Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.
669	[LAC 33:III.2108.C.6]	Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0363 ARUML - ARU Marine Loading

670	[LAC 33:III.2108.D.4]	Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
671	[LAC 33:III.2108.E]	Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
672	[LAC 33:III.2108.F.1]	Submit test results: Due to the Office of Environmental Assessment within 45 days of any testing done in accordance with LAC 33:III.2108.E.
673	[LAC 33:III.2108.F.2]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
674	[LAC 33:III.2108.G.1]	Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
675	[LAC 33:III.2108.G.2]	Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
676	[LAC 33:III.2108.G.3]	Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.
677	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 61 Subpart BB - Determined as BACT - PSD-LA-619(M4).
678	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of LAC 33:III.2108 and 40 CFR 61 Subpart BB - Determined as MACT.

EQT0364 2008-47 - CCR Chlorosorb Vent

679	[40 CFR 63.1567(a)(1)]	Hydrochloric acid >= 97 % reduction by weight or <= 10 ppmv (dry basis), corrected to 3% oxygen. Subpart UUU. [40 CFR 63.1567(a)(1)] Which Months: All Year Statistical Basis: None specified
680	[40 CFR 63.1567(b)(1)]	Hydrochloric acid monitored by the regulation's specified method(s) continuously. Monitor the gaseous HCl concentration in the adsorption system exhaust and at a point within the absorbent bed not to exceed 90 percent of the total length of the absorbent bed during coke burn-off and catalyst rejuvenation. Monitor using colormetric tube sampling. Subpart UUU. [40 CFR 63.1567(b)(1)] Which Months: All Year Statistical Basis: None specified
681	[40 CFR 63.1567(b)(1)]	Temperature monitored by temperature monitoring device continuously. Monitor the temperature of the gas entering or exiting the adsorption system during coke burn-off and catalyst rejuvenation. Subpart UUU. [40 CFR 63.1567(b)(1)] Which Months: All Year Statistical Basis: None specified
682	[40 CFR 63.1567(b)(2)]	Conduct each performance test according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. Subpart UUU. [40 CFR 63.1567(b)(2)]
683	[40 CFR 63.1567(b)(3)]	Establish each applicable site-specific operating limit in 40 CFR 63 Subpart UUU Table 23 according to the procedures in 40 CFR 63 Subpart UUU Table 25. Subpart UUU. [40 CFR 63.1567(b)(3)]
684	[40 CFR 63.1567(b)]	Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1567(b)(4) and (b)(5). Subpart UUU. [40 CFR 63.1567(b)]
685	[40 CFR 63.1567(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 22 and 23 according to the methods specified in 40 CFR 63 Subpart UUU Tables 27 and 28. Subpart UUU. [40 CFR 63.1567(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0364 2008-47 - CCR Chlorosorb Vent

686	[40 CFR 63.1569(a)(1)(ii)]	Bypass lines: Install a car-seal or lock-and-key device placed on the mechanism by which the bypass device flow position is controlled when the bypass device is in the closed position such the that bypass line valve cannot be opened without breaking the seal or removing the device. Subpart UUU. [40 CFR 63.1569(a)(1)(ii)]
687	[40 CFR 63.1569(b)(1)]	Bypass lines: Conduct each performance test according to the requirements in 40 CFR 63.1571 and under the conditions specified in 40 CFR 63 Subpart UUU Table 37. Subpart UUU. [40 CFR 63.1569(b)(1)]
688	[40 CFR 63.1569(b)(2)]	Bypass lines: Demonstrate initial compliance with each applicable work practice standard in 40 CFR 63 Subpart UUU Table 36 according to 40 CFR 63 Subpart UUU Table 38. Subpart UUU. [40 CFR 63.1569(b)(2)]
689	[40 CFR 63.1569(c)(1)]	Bypass lines: Demonstrate continuous compliance with each applicable work practice standard in 40 CFR 63 Subpart UUU Table 36 according to the requirements in 40 CFR 63 Subpart UUU Table 39. Subpart UUU. [40 CFR 63.1569(c)(1)]
690	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 63 Subpart UUU - Determined as BACT - PSD-LA-619(M4).
691	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart UUU - Determined as MACT.

EQT0365 2008-48 - CCR Dust Collector Vent

692	[40 CFR 63.1566(a)(1)(ii)]	Total Organic Compounds (TOC) >= 98 % reduction by weight, or TOC <= 20 ppmv (dry basis as hexane), corrected to 3% oxygen, whichever is less stringent. Subpart UUU. [40 CFR 63.1566(a)(1)(ii)] Which Months: All Year Statistical Basis: None specified
693	[40 CFR 63.1566(b)(2)]	Conduct each performance test according to the requirements in 40 CFR 63.1571 and under the conditions specified in 40 CFR 63 Subpart UUU Table 18. Subpart UUU. [40 CFR 63.1566(b)(2)]
694	[40 CFR 63.1566(b)]	Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1566(b)(4) and (b)(6). Subpart UUU. [40 CFR 63.1566(b)]
695	[40 CFR 63.1566(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 15 and 16 according to the methods specified in 40 CFR 63 Subpart UUU Tables 20 and 21. Subpart UUU. [40 CFR 63.1566(c)(1)]
696	[40 CFR 63.1567(a)(1)]	Hydrochloric acid >= 97 % reduction by weight or <= 10 ppmv (dry basis), corrected to 3% oxygen. Subpart UUU. [40 CFR 63.1567(a)(1)] Which Months: All Year Statistical Basis: None specified
697	[40 CFR 63.1567(b)(2)]	Conduct each performance test according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. Subpart UUU. [40 CFR 63.1567(b)(2)]
698	[40 CFR 63.1567(b)]	Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1567(b)(4) and (b)(5). Subpart UUU. [40 CFR 63.1567(b)]
699	[40 CFR 63.1567(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 22 and 23 according to the methods specified in 40 CFR 63 Subpart UUU Tables 27 and 28. Subpart UUU. [40 CFR 63.1567(c)(1)]
700	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 63 Subpart UUU - Determined as BACT - PSD-LA-619(M4).
701	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 63 Subpart UUU - Determined as MACT.

EQT0366 Process Fuel Gas - ARU Process Fuel Gas System

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
Permit Number: 2520-00027-V6
Air - Title V Regular Permit Major Mod

EQT0366 Process Fuel Gas - ARU Process Fuel Gas System

702	[40 CFR 60.662(a)]	Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)] Which Months: All Year Statistical Basis: None specified
703	[40 CFR 60.662(b)]	Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)]
704	[40 CFR 60.664(a)]	Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
705	[40 CFR 60.664(b)]	Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
706	[40 CFR 60.665(a)]	Notify the DEQ with the specific provisions of 40 CFR 60.662 (40 CFR 60.662(a), (b), or (c)) with which the facility operator has elected to comply. Submit the notification with the notification of initial start-up required in 40 CFR 60.7(a)(3). Notify the DEQ 90 days before implementing any change in the provision of 40 CFR 60.662 that the operator elects to comply with . Conduct the performance test specified by 40 CFR 60.664 within 180 days after the change. Subpart NNN. [40 CFR 60.665(a)]
707	[40 CFR 60.665(b)]	For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
708	[40 CFR 60.665(b)]	Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
709	[40 CFR 60.702(a)]	Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart RRR. [40 CFR 60.702(a)] Which Months: All Year Statistical Basis: None specified
710	[40 CFR 60.702(b)]	Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart RRR. [40 CFR 60.702(b)]
711	[40 CFR 60.704(a)]	Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.702. Subpart RRR. [40 CFR 60.704(a)]
712	[40 CFR 60.704(b)]	Determine compliance with 40 CFR 60.702 using the methods listed in 40 CFR 60.704(b) through (i), except as provided under 40 CFR 60.60.8(b). Subpart RRR. [40 CFR 60.704(b)]
713	[40 CFR 60.705(a)]	Notify the DEQ with the specific provisions of 40 CFR 60.702 (40 CFR 60.702(a), (b), or (c)) with which the facility operator has elected to comply. Submit the notification with the notification of initial start-up required in 40 CFR 60.7(a)(3). Notify the DEQ 90 days before implementing any change in the provision of 40 CFR 60.702 that the operator elects to make. Conduct the performance test specified by 40 CFR 60.704 within 180 days after the change. Subpart RRR. [40 CFR 60.705(a)]
714	[40 CFR 60.705(b)]	For a boiler or process heater submit a report containing the information in 40 CFR 60.705(b)(2)(i). [40 CFR 60.705(b)]
715	[40 CFR 60.705(b)]	Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.705(b) through (l) measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart RRR. [40 CFR 60.705(b)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0366 Process Fuel Gas - ARU Process Fuel Gas System

716	[LAC 33:III.501.C.6]	Equipment that burns ARU process fuel gas shall comply with all applicable specific requirements listed for the ARU Process Fuel Gas System.
717	[LAC 33:III.501.C.6]	Permittee shall maintain on site a list of all process vents that contains more than 50 ppmw of organic HAP, are generated continuously from an air oxidation reactor, distillation unit, or reactor during normal operation of the ARU process unit, and are routed to the fuel gas system. The list shall be updated semiannually and available for inspection by LDEQ.
718	[LAC 33:III.509]	Gas streams contain more than 50 ppmw of organic HAP and are generated continuously from an air oxidation reactor, distillation unit, or reactor during normal operation of the ARU process unit and that claim the process vent exemption of 40 CFR 63.107(h)(3) (routing to a fuel gas system) shall be routed to the fuel gas system. - Determined as BACT - PSD-LA-619(M4).
719	[LAC 33:III.5109.A]	Gas streams contain more than 50 ppmw of organic HAP and are generated continuously from an air oxidation reactor, distillation unit, or reactor during normal operation of the ARU process unit and that claim the process vent exemption of 40 CFR 63.107(h)(3) (routing to a fuel gas system) shall be routed to the fuel gas system. - Determined as MACT.

EQT0369 CRUIDS - New CRU Individual Drain System

720	[40 CFR 60.692-2(a)(1)]	Equip each drain with water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(1)]
721	[40 CFR 60.692-2(a)(2)]	Equipment/operational data monitored by visual inspection/determination once initially and monthly thereafter. Monitor drains in active service for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(2)] Which Months: All Year Statistical Basis: None specified
722	[40 CFR 60.692-2(a)(5)]	Add water or make first attempts at repair as soon as practicable, but not later than 24 hours after low water levels or missing or improperly installed caps or plugs are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(a)(5)]
723	[40 CFR 60.692-2(b)(1)]	Junction boxes: Equip with a cover. Ensure vent pipes are at least 90 cm (3 ft) in length and do not exceed 10.2 cm (4 in) in diameter. Subpart QQQ. [40 CFR 60.692-2(b)(1)]
724	[40 CFR 60.692-2(b)(2)]	Junction boxes: Cover must have a tight seal around the edge and be kept in place at all times, except during inspection and maintenance. Subpart QQQ. [40 CFR 60.692-2(b)(2)]
725	[40 CFR 60.692-2(b)(3)]	Junction boxes: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor to ensure the cover is in place and to ensure that the cover has a tight seal around the edge. Subpart QQQ. [40 CFR 60.692-2(b)(3)] Which Months: All Year Statistical Basis: None specified
726	[40 CFR 60.692-2(b)(4)]	Junction boxes: Make a first effort at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gap is identified, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(b)(4)]
727	[40 CFR 60.692-2(c)(1)]	Sewer lines: Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. Subpart QQQ. [40 CFR 60.692-2(c)(1)]
728	[40 CFR 60.692-2(c)(2)]	Sewer lines: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor the portion of each unburied sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(c)(2)] Which Months: All Year Statistical Basis: None specified
729	[40 CFR 60.692-2(c)(3)]	Sewer lines: Make repairs as soon as practicable, but not later than 15 calendar days after cracks, gaps, or other problems are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(c)(3)]

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0369 CRUIDS - New CRU Individual Drain System

730	[40 CFR 60.692-2(e)]	Do not route refinery wastewater routed through new drains and a new first common downstream junction box, either as part of a new or existing individual drain system, through a downstream catch basin. Subpart QQQ. [40 CFR 60.692-2(e)]
731	[40 CFR 60.696(a)]	Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
732	[40 CFR 60.697(a)]	Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]
733	[40 CFR 60.697(b)]	Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(b)(1) through (b)(3). Subpart QQQ. [40 CFR 60.697(b)]
734	[40 CFR 60.697(e)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
735	[40 CFR 60.697(f)]	Retain the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
736	[40 CFR 60.698(b)(1)]	Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
737	[40 CFR 60.698(c)]	Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
738	[40 CFR 61.346(a)(1)(i)(A)]	Cover: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.346(a)(1)(i)(A)]
739	[40 CFR 61.346(a)(1)(i)(B)]	Maintain each opening in a closed, sealed position at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.346(a)(1)(i)(C). Subpart FF. [40 CFR 61.346(a)(1)(i)(B)]
740	[40 CFR 61.346(a)(1)]	Install, operate, and maintain a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device. Subpart FF. [40 CFR 61.346(a)(1)]
741	[40 CFR 61.346(a)(2)]	Cover: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.346(a)(2)] Which Months: All Year Statistical Basis: None specified
742	[40 CFR 61.346(a)(3)]	Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(a)(3)]
743	[40 CFR 61.355]	Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0369 CRUIDS - New CRU Individual Drain System

744	[40 CFR 61.356]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
745	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 60 Subpart QQQ and 40 CFR 61 Subpart FF - Determined as BACT for VOC - PSD-LA-619(M4).
746	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 60 Subpart QQQ and 40 CFR 61 Subpart FF - Determined as MACT.

EQT0370 CCG1 - Subpart CC Group 1 Miscellaneous Process Vents

747	[40 CFR 63.643(a)(1)]	Reduce emissions of organic HAPs using a flare that meets the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1)]
748	[LAC 33:III.501.C.6]	Permittee shall maintain on site a list of all process vents that are classified as Group 1 of 40 CFR 63 Subpart CC. The list shall be updated semiannually and available for inspection by LDEQ.
749	[LAC 33:III.509]	Shall comply with 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
750	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC - Determined as MACT.

EQT0371 CCG2 - Subpart CC Group 2 Miscellaneous Process Vents

751	[40 CFR 63.645(f)]	Determine the TOC mass flow rate by the procedures specified in 40 CFR 63.645(f)(1) through (f)(5), if seeking to demonstrate that a process vent TOC mass flow rate is less than 33 kilograms per day for an existing source or less than 6.8 kilograms per day for a new source in accordance with the Group 2 process vent definition of 40 CFR 63 Subpart CC. Subpart CC. [40 CFR 63.645(f)]
752	[40 CFR 63.645(h)]	Recalculate the TOC emission rate, as necessary, whenever process changes are made to determine whether the vent is in Group 1 or Group 2. Subpart CC. [40 CFR 63.645(h)]
753	[LAC 33:III.501.C.6]	Permittee shall maintain on site a list of all process vents that are classified as Group 2 of 40 CFR 63 Subpart CC. The list shall be updated semiannually and available for inspection by LDEQ.
754	[LAC 33:III.509]	Shall comply with 40 CFR 63 Subpart CC - Determined as BACT for VOC - PSD-LA-619(M4).
755	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart CC - Determined as MACT.

EQT0372 2008-36 - ARU Flare

756	[40 CFR 60.18(c)(1)]	Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
757	[40 CFR 60.18(c)(2)]	Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
758	[40 CFR 60.18(c)(3)(ii)]	Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)] Which Months: All Year Statistical Basis: None specified

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AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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EQT0372 2008-36 - ARU Flare

759	[40 CFR 60.18(c)(4)(iii)]	Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity Vmax, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)] Which Months: All Year Statistical Basis: None specified
760	[40 CFR 60.18(d)]	Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
761	[40 CFR 60.18(e)]	Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
762	[40 CFR 60.18(f)(2)]	Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)] Which Months: All Year Statistical Basis: None specified
763	[LAC 33:III.1105]	Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. Which Months: All Year Statistical Basis: None specified
764	[LAC 33:III.1105]	Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
765	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
766	[LAC 33:III.501.C.6]	To minimize flaring and assure compliance with the emission limits of this permit, permittee shall install a flare gas recovery system on the ARU Flare (EQT0349). The flare gas recovery system shall be installed and operated upon initial startup, subject to a shakedown period, and shall be fully operational up on achieving normal operation which shall be no later than 180 days from initial startup of the affected equipment.
767	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or fuel gases with H2S <= 10 ppmv on an annual average, as fuels for the flare tips - Determined as BACT for SO2 - PSD-LA-619(M4).
768	[LAC 33:III.509]	Shall comply with 40 CFR 60 Subpart A - Determined as BACT for PM/PM10, NOX, CO, and VOC - PSD-LA-619(M4).
769	[LAC 33:III.509]	Weekly visible emission check - PSD-LA-619(M4).
770	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 60 Subpart A - Determined as MACT.

FUG0025 Road Dust 05 - Road Dust Emissions

771	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.
772	[LAC 33:III.509]	Paving as much as practicable and wetting unpaved road as necessary - Determined as BACT for PM/PM10 - PSD-LA-619(M2).

FUG0026 91-0 - Refinery Fugitive Emissions

773	[40 CFR 60.592]	40 CFR 60 Subpart GGG: Compliance achieved by complying with the streamlined equipment leaks monitoring program (Louisiana Refinery MACT).

SPECIFIC REQUIREMENTS

AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
Activity Number: PER20080005
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Air - Title V Regular Permit Major Mod

FUG0026 91-0 - Refinery Fugitive Emissions

774	[40 CFR 63.648]	40 CFR 63 Subpart CC: Compliance achieved by complying with the streamlined equipment leaks monitoring program (Louisiana Refinery MACT).
775	[LAC 33:III.2111]	Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
776	[LAC 33:III.2121]	LAC 33:III 2121: Compliance achieved by complying with the streamlined equipment leaks monitoring program (Louisiana Refinery MACT).
777	[LAC 33:III.501.C.6]	Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined. Non compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.p a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LA Refinery MACT) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.S b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.d c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on February 28 and August 31 to cover the periods July 1 through December 31, and January 1 through June 30, respectively. The semiannual reports shall include any monitoring performed within the reporting period.
778	[LAC 33:III.5109.A]	Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
779	[LAC 33:III.5109.A]	Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
780	[LAC 33:III.5109.A]	Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
781	[LAC 33:III.5109.A]	Compressors (no detectable emissions): VOC, Total monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Which Months: All Year Statistical Basis: None specified
782	[LAC 33:III.5109.A]	Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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FUG0026 91-0 - Refinery Fugitive Emissions

783	[LAC 33:III.5109.A]	Compressors (seal system): VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. Which Months: All Year Statistical Basis: None specified
784	[LAC 33:III.5109.A]	Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
785	[LAC 33:III.5109.A]	Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
786	[LAC 33:III.5109.A]	Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
787	[LAC 33:III.5109.A]	Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 through E.7.
788	[LAC 33:III.5109.A]	Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
789	[LAC 33:III.5109.A]	Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. Which Months: All Year Statistical Basis: None specified
790	[LAC 33:III.5109.A]	Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
791	[LAC 33:III.5109.A]	Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (have been opened or have otherwise had the seal broken): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor for leaks after being returned to VOTAP service during the next scheduled monitoring period, as specified in Paragraph O.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable. Which Months: All Year Statistical Basis: None specified

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792 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (have been welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
Which Months: All Year Statistical Basis: None specified

793 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

794 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (percent of leaking connectors <= 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). . Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P. If an instrument reading >= 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
Which Months: All Year Statistical Basis: None specified

795 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (percent of leaking connectors > 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P. If an instrument reading >= 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
Which Months: All Year Statistical Basis: None specified

796 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

797 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P.
Which Months: All Year Statistical Basis: None specified

798 [LAC 33:III.5109.A]
Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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799	[LAC 33:III.5109.A]	Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
800	[LAC 33:III.5109.A]	Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading >= 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. Which Months: All Year Statistical Basis: None specified
801	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with the streamlined equipment leaks monitoring program (Louisiana Refinery MACT) - Determined as MACT.
802	[LAC 33:III.5109.A]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
803	[LAC 33:III.5109.A]	Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
804	[LAC 33:III.5109.A]	Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
805	[LAC 33:III.5109.A]	Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: VOC, Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3. Which Months: All Year Statistical Basis: None specified
806	[LAC 33:III.5109.A]	Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
807	[LAC 33:III.5109.A]	Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
808	[LAC 33:III.5109.A]	Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
809	[LAC 33:III.5109.A]	Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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810	[LAC 33:III.5109.A]	Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Which Months: All Year Statistical Basis: None specified
811	[LAC 33:III.5109.A]	Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3. Which Months: All Year Statistical Basis: None specified
812	[LAC 33:III.5109.A]	Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
813	[LAC 33:III.5109.A]	Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
814	[LAC 33:III.5109.A]	Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
815	[LAC 33:III.5109.A]	Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Which Months: All Year Statistical Basis: None specified
816	[LAC 33:III.5109.A]	Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
817	[LAC 33:III.5109.A]	Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Which Months: All Year Statistical Basis: None specified
818	[LAC 33:III.5109.A]	Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, monitor within 5 days. Which Months: All Year Statistical Basis: None specified
819	[LAC 33:III.5109.A]	Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.

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820	[LAC 33:III.5109.A]	Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3. Which Months: All Year Statistical Basis: None specified
821	[LAC 33:III.5109.A]	Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible with a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
822	[LAC 33:III.5109.A]	Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
823	[LAC 33:III.5109.A]	Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process.
824	[LAC 33:III.5109.A]	Submit report: Due quarterly starting three months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
825	[LAC 33:III.5109.A]	Submit statement: Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
826	[LAC 33:III.5109.A]	Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
827	[LAC 33:III.5109.A]	VOC, Total monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Which Months: All Year Statistical Basis: None specified
828	[LAC 33:III.5109.A]	VOC, Total recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
829	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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830	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Which Months: All Year Statistical Basis: None specified
831	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (percent leaking valves <= 2 for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. Which Months: All Year Statistical Basis: None specified
832	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (percent leaking valves <= 2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. Which Months: All Year Statistical Basis: None specified
833	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (percent leaking valves >= 4): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. Which Months: All Year Statistical Basis: None specified
834	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
835	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
836	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection I.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Which Months: All Year Statistical Basis: None specified
837	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEQ at least 30 days before implementing one of the alternate monitoring scenarios in Section J, as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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838	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
839	[LAC 33:III.5109.A]	Valves in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3. Which Months: All Year Statistical Basis: None specified

FUG0027 2008-39 - ARU Fugitive Emissions

840	[40 CFR 60.480]	Shall comply with 40 CFR 60 Subpart VV by complying with the streamlined equipment leaks monitoring program (40 CFR 63 Subpart H).
841	[40 CFR 63.160]	Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined. Non compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs. a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart H) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.i b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.h c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on February 15 and August 15 to cover the periods July 1 through December 31, and January 1 through June 30, respectively. The semiannual reports shall include any monitoring performed within the reporting period.
842	[40 CFR 63.162(c)]	Identify each piece of equipment in a process unit to which this subpart applies such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
843	[40 CFR 63.162(f)]	Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]

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844	[40 CFR 63.163(b)(1)]	Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)] Which Months: All Year Statistical Basis: None specified
845	[40 CFR 63.163(b)(3)]	Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)] Which Months: All Year Statistical Basis: None specified
846	[40 CFR 63.163(c)]	Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
847	[40 CFR 63.163(d)(2)]	Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
848	[40 CFR 63.163(d)(4)]	Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
849	[40 CFR 63.163(e)(1)]	Pumps in light liquid service (equipped with a dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
850	[40 CFR 63.163(e)(2)]	Pumps in light liquid service (equipped with a dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
851	[40 CFR 63.163(e)(3)]	Pumps in light liquid service (equipped with a dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
852	[40 CFR 63.163(e)(4)]	Pumps in light liquid service (equipped with a dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)] Which Months: All Year Statistical Basis: None specified
853	[40 CFR 63.163(e)(6)(i)]	Pumps in light liquid service (equipped with a dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]

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854	[40 CFR 63.163(e)(6)]	Pumps in light liquid service (equipped with a dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
855	[40 CFR 63.163(e)]	Pumps in light liquid service (equipped with a dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)] Which Months: All Year Statistical Basis: None specified
856	[40 CFR 63.163(j)(1)]	Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
857	[40 CFR 63.163(j)(2)]	Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)] Which Months: All Year Statistical Basis: None specified
858	[40 CFR 63.164(a)]	Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
859	[40 CFR 63.164(b)]	Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
860	[40 CFR 63.164(c)]	Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
861	[40 CFR 63.164(d)]	Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
862	[40 CFR 63.164(e)(2)]	Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
863	[40 CFR 63.164(g)]	Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
864	[40 CFR 63.164(i)(2)]	Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)] Which Months: All Year Statistical Basis: None specified

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865	[40 CFR 63.164]	Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. Which Months: All Year Statistical Basis: None specified
866	[40 CFR 63.165(a)]	Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)] Which Months: All Year Statistical Basis: None specified
867	[40 CFR 63.165(b)(1)]	Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
868	[40 CFR 63.165(b)(2)]	Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)] Which Months: All Year Statistical Basis: None specified
869	[40 CFR 63.165(d)(2)]	Pressure relief devices in gas/vapor service (equipped with a rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
870	[40 CFR 63.166]	Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.
871	[40 CFR 63.167]	Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.
872	[40 CFR 63.168(c)]	Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)] Which Months: All Year Statistical Basis: None specified
873	[40 CFR 63.168(c)]	Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)] Which Months: All Year Statistical Basis: None specified
874	[40 CFR 63.168(d)(1)]	Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)] Which Months: All Year Statistical Basis: None specified

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875	[40 CFR 63.168(d)(2)]	Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)] Which Months: All Year Statistical Basis: None specified
876	[40 CFR 63.168(e)(1)]	Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
877	[40 CFR 63.168(f)(3)]	Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)] Which Months: All Year Statistical Basis: None specified
878	[40 CFR 63.168(f)]	Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
879	[40 CFR 63.168(h)(1)]	Valves in gas/vapor service or light liquid service (unsafe-to-monitor): If the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d), permittee shall comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
880	[40 CFR 63.168(h)(2)]	Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)] Which Months: All Year Statistical Basis: None specified
881	[40 CFR 63.168(i)(3)]	Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)] Which Months: All Year Statistical Basis: None specified
882	[40 CFR 63.169(a)]	Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)] Which Months: All Year Statistical Basis: None specified
883	[40 CFR 63.169(c)]	Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
884	[40 CFR 63.170]	Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H.

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885	[40 CFR 63.172(f)(1)(i)]	Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)] Which Months: All Year Statistical Basis: None specified
886	[40 CFR 63.172(f)(1)(ii)]	Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)] Which Months: All Year Statistical Basis: None specified
887	[40 CFR 63.172(f)(2)(i)]	Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)] Which Months: All Year Statistical Basis: None specified
888	[40 CFR 63.172(f)(2)(ii)]	Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)] Which Months: All Year Statistical Basis: None specified
889	[40 CFR 63.172(h)]	Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
890	[40 CFR 63.172(j)(2)]	Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)] Which Months: All Year Statistical Basis: None specified
891	[40 CFR 63.172(j)(2)]	Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
892	[40 CFR 63.172(k)(2)]	Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)] Which Months: All Year Statistical Basis: None specified
893	[40 CFR 63.172(l)(2)]	Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)] Which Months: All Year Statistical Basis: None specified
894	[40 CFR 63.172(m)]	Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
895	[40 CFR 63.173(a)]	Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)] Which Months: All Year Statistical Basis: None specified

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896	[40 CFR 63.173(b)]	Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)] Which Months: All Year Statistical Basis: None specified
897	[40 CFR 63.173(c)]	Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
898	[40 CFR 63.173(d)(1)]	Agitators in gas/vapor service and light liquid service (equipped with a dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
899	[40 CFR 63.173(d)(2)]	Agitators in gas/vapor service and light liquid service (equipped with a dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
900	[40 CFR 63.173(d)(3)]	Agitators in gas/vapor service and light liquid service (equipped with a dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
901	[40 CFR 63.173(d)(4)]	Agitators in gas/vapor service or light liquid service (equipped with a dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)] Which Months: All Year Statistical Basis: None specified
902	[40 CFR 63.173(d)(6)(i)]	Agitators in gas/vapor service and light liquid service (equipped with a dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
903	[40 CFR 63.173(d)(6)]	Agitators in gas/vapor service and light liquid service (equipped with a dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
904	[40 CFR 63.173(d)]	Agitators in gas/vapor service or light liquid service (equipped with a dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)] Which Months: All Year Statistical Basis: None specified

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905	[40 CFR 63.173(h)(3)]	Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)] Which Months: All Year Statistical Basis: None specified
906	[40 CFR 63.173(j)(2)]	Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)] Which Months: All Year Statistical Basis: None specified
907	[40 CFR 63.174(b)(2)]	Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)] Which Months: All Year Statistical Basis: None specified
908	[40 CFR 63.174(b)(3)(i)]	Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)] Which Months: All Year Statistical Basis: None specified
909	[40 CFR 63.174(b)(3)(ii)]	Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)] Which Months: All Year Statistical Basis: None specified
910	[40 CFR 63.174(c)(1)(i)]	Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)] Which Months: All Year Statistical Basis: None specified
911	[40 CFR 63.174(c)(2)(i)]	Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
912	[40 CFR 63.174(c)(2)(ii)]	Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)] Which Months: All Year Statistical Basis: None specified
913	[40 CFR 63.174(d)]	Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]

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914	[40 CFR 63.174(f)(2)]	Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)] Which Months: All Year Statistical Basis: None specified
915	[40 CFR 63.174(h)(2)]	Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
916	[40 CFR 63.174(i)]	Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
917	[40 CFR 63.180]	Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
918	[40 CFR 63.181]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
919	[40 CFR 63.182(b)]	Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
920	[40 CFR 63.182(c)]	Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
921	[40 CFR 63.182(d)]	Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
922	[40 CFR 63.648]	Shall comply with 40 CFR 63 Subpart CC by complying with the streamlined equipment leaks monitoring program (40 CFR 63 Subpart H).
923	[LAC 33:III.2111]	Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
924	[LAC 33:III.2121]	Shall comply with LAC 33:III 2121 by complying with the streamlined equipment leaks monitoring program (40 CFR 63 Subpart H).
925	[LAC 33:III.501.C.6]	To assure compliance with the VOC emission limits of this permit, all valves, other than control valves, less than 10 inches in diameter shall be "leakless"-types or bellows-types.
926	[LAC 33:III.509]	Shall conduct a Leak Detection and Repair Program meets requirements of 40 CFR 63 Subpart H - Determined as BACT for VOC and H2S - PSD-LA-619(M2).
927	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with the streamlined equipment leaks monitoring program (40 CFR 63 Subpart H) - Determined as MACT.

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928	[40 CFR 61.112(a)]	Comply with the requirements of 40 CFR 61 Subpart V. Subpart J. [40 CFR 61.112(a)]
929	[40 CFR 61.242-1(d)]	Mark each piece of equipment so that it can be distinguished readily from pieces of equipment not subject to 40 CFR 61 Subpart V. Subpart V. [40 CFR 61.242-1(d)]

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930	[40 CFR 61.242-2(a)(1)]	Pumps in VHAP service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 61.242-1(c) and 40 CFR 61.242-2(d), (e) and (f). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-2(c). Subpart V. [40 CFR 61.242-2(a)(1)] Which Months: All Year Statistical Basis: None specified
931	[40 CFR 61.242-2(a)(2)]	Pumps in VHAP service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-2(c). Subpart V. [40 CFR 61.242-2(a)(2)] Which Months: All Year Statistical Basis: None specified
932	[40 CFR 61.242-2(c)]	Pumps: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-2(c)]
933	[40 CFR 61.242-2(d)(1)]	Pumps (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 61.242-11; or equip with a system that purges the barrier fluid into a process stream with zero VHAP emissions to the atmosphere. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)(1)]
934	[40 CFR 61.242-2(d)(2)]	Pumps (dual mechanical seal system): Ensure that the barrier fluid is not in VHAP service and, if the pump is covered by standards under 40 CFR Part 60, not in VOC service. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)(2)]
935	[40 CFR 61.242-2(d)(3)]	Pumps (dual mechanical seal system): Equip with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)(3)]
936	[40 CFR 61.242-2(d)(4)]	Pumps (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 61.245 to determine the presence of VOC and VHAP in the barrier fluid. If the monitor reading (taking into account any background readings) indicates the presence of VHAP, a leak is detected. If an instrument reading of 10,000 ppm or greater (total VOC) is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 61.242-2(d)(6). Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)(4)] Which Months: All Year Statistical Basis: None specified
937	[40 CFR 61.242-2(d)(6)(i)]	Pumps (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)(6)(i)]
938	[40 CFR 61.242-2(d)(6)]	Pumps (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 61.242-10. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)(6)]
939	[40 CFR 61.242-2(d)]	Pumps (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 61.242-2(d)(6)(i), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-2(d)(6). Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (b). Subpart V. [40 CFR 61.242-2(d)] Which Months: All Year Statistical Basis: None specified

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940	[40 CFR 61.242-2(e)(3)]	Pumps (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a), (c), and (d). Subpart V. [40 CFR 61.242-2(e)(3)] Which Months: All Year Statistical Basis: None specified
941	[40 CFR 61.242-2(g)(1)]	Pumps (unsafe-to-monitor): Demonstrate that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 61.242-2(a). Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (d)(4) through (d)(6). Subpart V. [40 CFR 61.242-2(g)(1)]
942	[40 CFR 61.242-2(g)(2)]	Pumps (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair according to the procedures in 40 CFR 61.242-2(c) if a leak is detected. Comply with this requirement instead of the requirements in 40 CFR 61.242-2(a) and (d)(4) through (d)(6). Subpart V. [40 CFR 61.242-2(g)(2)] Which Months: All Year Statistical Basis: None specified
943	[40 CFR 61.242-2(h)]	Pumps (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement in 40 CFR 61.242-2(a)(2) and (d)(4) and the daily requirements of 40 CFR 61.242(d)(5). Subpart V. [40 CFR 61.242-2(h)] Which Months: All Year Statistical Basis: None specified
944	[40 CFR 61.242-3(a)]	Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to atmosphere, except as provided in 40 CFR 61.242-1(c) and 40 CFR 61.242-3(h) and (i). Subpart V. [40 CFR 61.242-3(a)]
945	[40 CFR 61.242-3(b)]	Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 61.242-11; or equip the seal system with a system that purges the barrier fluid into a process stream with zero VHAP emissions to atmosphere. Subpart V. [40 CFR 61.242-3(b)]
946	[40 CFR 61.242-3(c)]	Compressors: Ensure that the barrier fluid is not in VHAP service and, if the compressor is covered by standards under 40 CFR part 60, is not in VOC service. Subpart V. [40 CFR 61.242-3(c)]
947	[40 CFR 61.242-3(d)]	Compressors: Equip each barrier fluid system as described in 40 CFR 61.242-3(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart V. [40 CFR 61.242-3(d)]
948	[40 CFR 61.242-3(e)(2)]	Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart V. [40 CFR 61.242-3(e)(2)]
949	[40 CFR 61.242-3(g)]	Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-3(g)]
950	[40 CFR 61.242-3(i)(2)]	Compressors (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 61.242-3(a) through (h). Subpart V. [40 CFR 61.242-3(i)(2)] Which Months: All Year Statistical Basis: None specified

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951	[40 CFR 61.242-3]	Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 61.242-3(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-3(g). Subpart V. Which Months: All Year Statistical Basis: None specified
952	[40 CFR 61.242-4(a)]	Pressure relief devices in gas/vapor service: VOC, Total < 500 ppm above background, except during pressure releases, as measured by the method in 40 CFR 61.245(c). Subpart V. [40 CFR 61.242-4(a)] Which Months: All Year Statistical Basis: None specified
953	[40 CFR 61.242-4(b)(1)]	Pressure relief device in gas/vapor VHAP service: After each pressure release, return to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-4(b)(1)]
954	[40 CFR 61.242-4(b)(2)]	Pressure relief device in gas/vapor VHAP service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) of pressure release to confirm the condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c). Subpart V. [40 CFR 61.242-4(b)(2)] Which Months: All Year Statistical Basis: None specified
955	[40 CFR 61.242-4(d)(2)]	Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 61.242-10. Comply with this requirement instead of the requirements in 40 CFR 61.242-4(a) and (b). Subpart V. [40 CFR 61.242-4(d)(2)]
956	[40 CFR 61.242-5]	Sampling connecting systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 61.242-1(c). Operate the system as specified in 40 CFR 61.242-5(b). Subpart V.
957	[40 CFR 61.242-6]	Open-ended valves or lines: Equip with a cap, blind flange, plug or a second valve, except as provided in 40 CFR 61.242-1(c). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. Operate each open-ended valve equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart V.
958	[40 CFR 61.242-7(a)]	Valves in VHAP service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly except as specified. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-7(d). Permittee may elect to comply with the alternate standards for valves in 40 CFR 61.242-7(c), 40 CFR 61.243-1 or 40 CFR 61.243-2 (skip period provisions). Subpart V. [40 CFR 61.242-7(a)] Which Months: All Year Statistical Basis: None specified
959	[40 CFR 61.242-7(d)]	Valves: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-7(d)]
960	[40 CFR 61.242-7(f)(3)]	Valves (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ, to determine compliance with 40 CFR 61.242-7(f)(2). Comply with this requirement instead of the requirements in 40 CFR 61.242-7(a). Subpart V. [40 CFR 61.242-7(f)(3)] Which Months: All Year Statistical Basis: None specified
961	[40 CFR 61.242-7(g)(1)]	Valves (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 61.242-7(a). Comply with this requirement instead of the requirements in 40 CFR 61.242-7(a). Subpart V. [40 CFR 61.242-7(g)(1)]

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962	[40 CFR 61.242-7(g)(2)]	Valves (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times. Comply with this requirement instead of the requirements in 40 CFR 61.242-7(a). Subpart V. [40 CFR 61.242-7(g)(2)] Which Months: All Year Statistical Basis: None specified
963	[40 CFR 61.242-7(h)(1)]	Valves (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 61.242-7(a). Subpart V. [40 CFR 61.242-7(h)(1)]
964	[40 CFR 61.242-7(h)(3)]	Valves (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valve at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 61.242-7(a). Subpart V. [40 CFR 61.242-7(h)(3)] Which Months: All Year Statistical Basis: None specified
965	[40 CFR 61.242-8(a)]	Pressure relief devices in liquid service and connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if evidence of a potential leak is found by visible, audible, olfactory, or any other detection method and comply with the requirements of 40 CFR 61.242-8(b) through (d), OR eliminate the visual, audible, olfactory or other indication of a potential leak, except as specified in 40 CFR 61.242-1(c). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-8(c). Subpart V. [40 CFR 61.242-8(a)] Which Months: All Year Statistical Basis: None specified
966	[40 CFR 61.242-8(c)]	Pressure relief devices in liquid service and connectors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-8(c)] .
967	[40 CFR 61.242-9]	Surge control vessels and bottoms receivers: Equip with a closed-vent system capable of capturing and transporting any leakage from the vessel back to the process or to a control device as described in 40 CFR 61.242-11except as specified in 40 CFR 61.242-1(c), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 61 Subpart V Table 1 or Table 2. Subpart V.
968	[40 CFR 61.245(a)]	Comply with the test methods and procedures requirements provided in 40 CFR 61.245. Subpart V. [40 CFR 61.245(a)]
969	[40 CFR 61.246(b)]	Attach a weatherproof and readily visible identification, marked with the equipment identification number, to a leaking component detected as specified in 40 CFR 61.242-2, 40 CFR 61.242-3, 40 CFR 61.242-7, 40 CFR 61.242-8, and 40 CFR 61.135. The identification may be removed after it has been monitored for 2 successive months as specified in 40 CFR 61.242-7(c) and no leak has been detected during those 2 months. The identification on equipment, except on a valve, may be removed after it has been repaired. Subpart V. [40 CFR 61.246(b)]
970	[40 CFR 61.246]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 61.246(b) through (j). Subpart V.
971	[40 CFR 61.247(b)]	Submit report: Due semiannually, starting 6 months after the initial report required in 40 CFR 61.247(a). Include the information specified in 40 CFR 61.247(b)(1) through (b)(5). Subpart V. [40 CFR 61.247(b)]
972	[40 CFR 61.247(d)]	Submit notification: Due 90 days before implementing alternative standards of 40 CFR 61.243-1 or 40 CFR 61.243-2. Subpart V. [40 CFR 61.247(d)]
973	[40 CFR 61.247]	Submit Notification in writing: Due with the application for approval of construction, as described in 40 CFR 61.07. Submit a statement that the requirements of 40 CFR 61.242, 40 CFR 61.245, 40 CFR 61.246 and 40 CFR 61.247 are being implemented. Include the information specified in 40 CFR 61.247(a)(5) and (c). Subpart V.

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974	[40 CFR 61.247]	Submit Notification in writing: Due within 90 days of the effective date of 40 CFR 61 Subpart V, except as specified. Submit a statement that the requirements of 40 CFR 61.242, 40 CFR 61.245, 40 CFR 61.246 and 40 CFR 61.247 are being implemented. Include the information specified in 40 CFR 61.247(a)(5) and (c). Subpart V.
975	[40 CFR 61.305(f)]	Submit report: Due quarterly. Submit the initial report within 90 days after the effective date of 40 CFR 61 Subpart BB or 90 days after startup for a source that has an initial startup date after the effective date. Include the information specified in 40 CFR 61.605(f)(1) through (f)(5). Subpart BB. [40 CFR 61.305(f)]
976	[40 CFR 61.305(g)]	Keep the vapor-tightness documentation required under 40 CFR 61.302(d) and (e) on file at the affected facility in a permanent form available for inspection. Subpart BB. [40 CFR 61.305(g)]
977	[40 CFR 61.305(h)]	Update the documentation file required under 40 CFR 61.302(d) and (e) for each tank truck, railcar, or marine vessel at least once per year to reflect current test results as determined by the appropriate method. Include, as a minimum, the information specified in 40 CFR 61.305(h)(1) through (h)(8). Subpart BB. [40 CFR 61.305(h)]
978	[LAC 33:III.2111]	Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
979	[LAC 33:III.501.C.6]	To assure compliance with the VOC emission limits of this permit, all valves, other than control valves, less than 10 inches in diameter shall be "leakless"-types or bellows-types.
980	[LAC 33:III.509]	Shall comply with all applicable provisions of 40 CFR 61 Subpart V - Determined as BACT - PSD-LA-619(M4).
981	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with all applicable provisions of 40 CFR 61 Subpart V - Determined as MACT.

GRP0005 COKERCAP - Coker Heater Cap and Common Requirements

Group Members: EQT0012 EQT0014 EQT0017 EQT0052

982	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
983	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
984	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
985	[LAC 33:III.501.C.6]	Nitrogen oxides: <= 0.04 lbs/MM BTU Which months: All Year Statistical Basis: 365-day rolling average.
986	[LAC 33:III.501.C.6]	heat input <= 3224 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
987	[LAC 33:III.507.H.1.a]	heat input Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

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988	[LAC 33:III.507.H.1.a]	heat input recordkeeping by electronic or hard copy continuously. Keep records of the total heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel.
989	[LAC 33:III.509]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously at the common stack of EQT012, EQT014, EQT017, and EQT052 - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
990	[LAC 33:III.509]	Nitrogen oxides monitored by continuous emission monitor (CEM) continuously at the common stack of EQT012, EQT014, EQT017, and EQT052 Which Months: All Year Statistical Basis: 365-day rolling average - PSD-LA-619(M4).

GRP0006 FLARECAP - Flare Cap and Common Requirements

Group Members: EQT0007 EQT0013 EQT0034 EQT0240 EQT0360

991	[40 CFR 60.18(c)(1)]	Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
992	[40 CFR 60.18(c)(2)]	Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
993	[40 CFR 60.18(c)(3)(ii)]	Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)] Which Months: All Year Statistical Basis: None specified
994	[40 CFR 60.18(c)(4)(iii)]	Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity Vmax, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)] Which Months: All Year Statistical Basis: None specified
995	[40 CFR 60.18(d)]	Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
996	[40 CFR 60.18(e)]	Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
997	[40 CFR 60.18(f)(2)]	Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)] Which Months: All Year Statistical Basis: None specified
998	[40 CFR 63.11(b)(1)]	Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
999	[40 CFR 63.11(b)(3)]	Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
1000	[40 CFR 63.11(b)(4)]	Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
1001	[40 CFR 63.11(b)(5)]	Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
1002	[40 CFR 63.11(b)(5)]	Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)] Which Months: All Year Statistical Basis: None specified
1003	[40 CFR 63.11(b)(6)(ii)]	Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)] Which Months: All Year Statistical Basis: None specified

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GRP0006 FLARECAP - Flare Cap and Common Requirements

1004	[40 CFR 63.11(b)(7)(iii)]	Exit Velocity < 400 ft/sec and Vmax, as determined by the method specified in 40 CFR 63.11(b)(7)(i). Determine Vmax using the method specified in 40 CFR 63.11(b)(7)(iii). Subpart A. [40 CFR 63.11(b)(7)(iii)] Which Months: All Year Statistical Basis: None specified
1005	[40 CFR 63.643(a)(1)]	Meet the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1)]
1006	[40 CFR 63.643(a)(2)]	Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, on a dry basis, corrected to 3% oxygen, whichever is less stringent. Subpart CC. [40 CFR 63.643(a)(2)] Which Months: All Year Statistical Basis: None specified
1007	[40 CFR 63.644(a)(2)]	Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including, but not limited to, a thermocouple, an ultraviolet bean sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)] Which Months: All Year Statistical Basis: None specified
1008	[40 CFR 63.644(c)(2)]	Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart CC. [40 CFR 63.644(c)(2)] Which Months: All Year Statistical Basis: None specified
1009	[40 CFR 63.644(c)(2)]	Vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart CC. [40 CFR 63.644(c)(2)]
1010	[40 CFR 63.645(a)]	Demonstrate compliance with 40 CFR 63.643 by following 40 CFR 63.116 except for 63.116(a)(1), (d) and (e), except as provided in 40 CFR 63.645(b) through (d) and (i). Subpart CC. [40 CFR 63.645(a)]
1011	[LAC 33:III.1105]	Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. Which Months: All Year Statistical Basis: None specified
1012	[LAC 33:III.1105]	Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
1013	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
1014	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1015	[LAC 33:III.501.C.6]	To minimize flaring and assure compliance with the emission limits of this permit, permittee shall install a flare gas recovery system on Flare No. 5 (EQT0240). The flare gas recovery system shall be installed and operated upon initial startup, subject to a shakedown period, and shall be fully operational up on achieving normal operation which shall be no later than 180 days from initial startup of the affected equipment.
1016	[LAC 33:III.501.C.6]	To minimize flaring and assure compliance with the emission limits of this permit, permittee shall install and operate flare gas recovery systems on Flares No. 2 and No. 1 (EQT0007 and EQT0013) by December 31, 2011, subject to a shakedown period, and shall be fully operational no later than 180 days from initial startup of the flare gas systems.
1017	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv, on an annual average basis, as fuels for the flare tips - Determined as BACT for SO2 - PSD-LA-619(M4).

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GRP0006 FLARECAP - Flare Cap and Common Requirements

1018	[LAC 33:III.509]	Shall comply with 40 CFR 63 Subpart A and using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10, NOX, CO, and VOC - PSD-LA-619(M4).
1019	[LAC 33:III.509]	Weekly visible emission check.
1020	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Serves as MACT control for waste gas stream. Control emissions to a removal efficiency > 95%.

GRP0007 SRU/TOCAP - SRU/TO Cap and Common Requirements

Group Members: EQT0195 EQT0196 EQT0241 EQT0313 TRT0001 TRT0002 TRT0003 TRT0006

1021	[40 CFR 60.104(a)(2)(i)]	Sulfur dioxide: <= 250 ppmv @ 0% excess air (dry basis). Subpart J. Note: the Claus sulfur recovery units recover more than 20 long tons of sulfur per day and are followed by incineration - Which Months: All Year Statistical Basis: Twelve-hour rolling average. [40 CFR 60.104(a)(2)(i)]
1022	[40 CFR 60.105(a)(5)]	Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air. Subpart J. [40 CFR 60.105(a)(5)] Which Months: All Year Statistical Basis: None specified
1023	[40 CFR 60.106(a)]	Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
1024	[40 CFR 60.106]	Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
1025	[40 CFR 63.1568(b)(3)]	Establish each applicable site-specific operating limit in 40 CFR 63 Subpart UUU Table 30 that applies to you according to the procedures in 40 CFR 63 Subpart UUU Table 32. Subpart UUU. [40 CFR 63.1568(b)(3)]
1026	[40 CFR 63.1568(b)(5)]	Demonstrate initial compliance with each applicable emission limitation according to 40 CFR 63 Subpart UUU Table 33. Subpart UUU. [40 CFR 63.1568(b)(5)]
1027	[40 CFR 63.1568(b)(6)]	Demonstrate initial compliance with the work practice standard in 40 CFR 63.1568(a)(3) by submitting the operation, maintenance, and monitoring plan to DEQ as part of the Notification of Compliance Status. Subpart UUU. [40 CFR 63.1568(b)(6)]
1028	[40 CFR 63.1568(b)(7)]	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.1574. Subpart UUU. [40 CFR 63.1568(b)(7)]
1029	[40 CFR 63.1568(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 29 and 30 according to the methods specified in 40 CFR 63 Subpart UUU Tables 34 and 35. Subpart UUU. [40 CFR 63.1568(c)(1)]
1030	[40 CFR 63.1568(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1568(a)(3) by complying with the procedures in the operation, maintenance and monitoring plan. Subpart UUU. [40 CFR 63.1568(c)(2)]
1031	[40 CFR 63.1569(a)(1)(iv)]	Bypass lines: Vent the bypass line to a control device that meets the appropriate requirements in 40 CFR 63 Subpart UUU. Subpart UUU. [40 CFR 63.1569(a)(1)(iv)]
1032	[40 CFR 63.1569(b)(1)]	Bypass lines: Conduct each performance test according to the requirements in 40 CFR 63.1571 and under the conditions specified in 40 CFR 63 Subpart UUU Table 37. Subpart UUU. [40 CFR 63.1569(b)(1)]
1033	[40 CFR 63.1569(b)(2)]	Bypass lines: Demonstrate initial compliance with each applicable work practice standard in 40 CFR 63 Subpart UUU Table 36 according to 40 CFR 63 Subpart UUU Table 38. Subpart UUU. [40 CFR 63.1569(b)(2)]

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GRP0007 SRU/TOCAP - SRU/TO Cap and Common Requirements

1034	[40 CFR 63.1569(c)(1)]	Bypass lines: Demonstrate continuous compliance with each applicable work practice standard in 40 CFR 63 Subpart UUU Table 36 according to the requirements in 40 CFR 63 Subpart UUU Table 39. Subpart UUU. [40 CFR 63.1569(c)(1)].
1035	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1036	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
1037	[LAC 33:III.1503.C]	Sulfur dioxide: Shall comply with SO2 limits of 40 CFR 60 Subpart J.
1038	[LAC 33:III.501.C.6]	Production rate <= 490000 long tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if sulfur production/recovery exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
1039	[LAC 33:III.507.H.1.a]	Production of Sulfur monitored by technically sound method continuously. Which Months: All Year Statistical Basis: None specified
1040	[LAC 33:III.507.H.1.a]	Production of Sulfur recordkeeping by electronic or hard copy monthly. Keep records of the total sulfur recovered/produced each month, as well as the total sulfur recovered/produced for the last twelve months. Make records available for inspection by DEQ personnel.
1041	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March. Report the sulfur recovered for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
1042	[LAC 33:III.509]	Shall maintain SO2 concentration in the flue gas at or below 250 ppmdv as required by 40 CFR 60 Subpart J - Determined as BACT for SO2 - PSD-LA-619(M4).
1043	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10, NOX, CO, and VOC - PSD-LA-619(M4).

GRP0008 TANKCAP - Tank Summary

Group Members: EQT0087 EQT0088 EQT0089 EQT0090 EQT0091 EQT0097 EQT0099 EQT0103 EQT0134 EQT0142 EQT0143 EQT0146 EQT0148 EQT0149 EQT0150 EQT0151 EQT0154 EQT0155 EQT0156 EQT0157 EQT0160 EQT0161 EQT0162 EQT0164 EQT0165 EQT0166 EQT0167 EQT0168 EQT0169 EQT0170 EQT0171 EQT0172 EQT0173 EQT0174 EQT0175 EQT0176 EQT0178 EQT0179 EQT0180 EQT0181 EQT0182 EQT0183 EQT0186 EQT0187 EQT0188 EQT0189 EQT0198 EQT0199 EQT0245 EQT0246 EQT0325 EQT0326 EQT0344 EQT0354 EQT0355 EQT0356 EQT0022 EQT0026 EQT0041 EQT0042 EQT0043 EQT0044 EQT0045 EQT0046 EQT0047 EQT0048 EQT0049 EQT0050 EQT0051 EQT0066 EQT0067 EQT0068 EQT0069 EQT0074 EQT0085 EQT0086 EQT0006 EQT0008 EQT0018 EQT0019

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AI ID: 26003 - Valero Refining Co - New Orleans LLC - St Charles Refinery
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GRP0008 TANKCAP - Tank Summary

1044	[LAC 33:III.507.H.1.a]	Valero shall calculate and recorded VOC emissions from each and all the tanks covered by this cap monthly, as well as the total VOC emissions for the last twelve months. Valero shall use the same procedures which were used to calculate the VOC emissions limits of this cap. These records shall be kept on site for a period of three years and available for inspection by the Office of Environmental Compliance, Surveillance Division. Emissions calculated above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Enforcement Division. A report showing the emissions for the preceding calendar year shall be submitted to the Enforcement Division by March 31.

GRP0012 ULSDCAP - ULSD Heater Cap and Common Requirements

Group Members: EQT0028 EQT0031 EQT0032 EQT0033

1045	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1046	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
1047	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1048	[LAC 33:III.501.C.6]	heat input <= 1813.3 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
1049	[LAC 33:III.507.H.1.a]	Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel.
1050	[LAC 33:III.507.H.1.a]	heat input Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
1051	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
1052	[LAC 33:III.509]	Nitrogen oxides <= 0.04 lb/MMBTU - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
1053	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
1054	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

GRP0013 DHTCAP - DHT Heater Cap and Common Requirements

SPECIFIC REQUIREMENTS

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GRP0013 DHTCAP - DHT Heater Cap and Common Requirements

Group Members: EQT0054 EQT0056

1055	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1056	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
1057	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1058	[LAC 33:III.501.C.6]	heat input <= 805.9 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
1059	[LAC 33:III.507.H.1.a]	Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel.
1060	[LAC 33:III.507.H.1.a]	heat input Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
1061	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
1062	[LAC 33:III.509]	Conduct a performance/emissions test for nitrogen oxides and carbon monoxide: Due by the end of 2009. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
1063	[LAC 33:III.509]	Nitrogen oxides <= 0.08 lb/MMBTU - Using Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
1064	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
1065	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

GRP0015 HCU1CAP - HCU1 Heater Cap and Common Requirements

Group Members: EQT0210 EQT0211 EQT0212

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GRP0015 HCU1CAP - HCU1 Heater Cap and Common Requirements

1066	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1067	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
1068	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1069	[LAC 33:III.501.C.6]	heat input <= 6552.5 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
1070	[LAC 33:III.507.H.1.a]	Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel.
1071	[LAC 33:III.507.H.1.a]	heat input Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
1072	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
1073	[LAC 33:III.509]	Nitrogen oxides <= 0.04 lb/MMBTU - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
1074	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
1075	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

GRP0016 HCU2/LEU3CAP - HCU2/LEU3 Heater Cap and Common Requirements

Group Members: EQT0225 EQT0226 EQT0227 EQT0228 EQT0229 EQT0230

1076	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1077	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
1078	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.

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GRP0016 HCU2/LEU3CAP - HCU2/LEU3 Heater Cap and Common Requirements

1079	[LAC 33:III.501.C.6]	heat input <= 6552.5 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
1080	[LAC 33:III.507.H.1.a]	Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel.
1081	[LAC 33:III.507.H.1.a]	heat input Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
1082	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Hourly average
1083	[LAC 33:III.509]	Conduct a performance/emissions test for nitrogen oxides and carbon monoxide: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
1084	[LAC 33:III.509]	Nitrogen oxides <= 0.04 lb/MMBTU - Using Ultra Low NOX Burners (ULNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
1085	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
1086	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

GRP0018 TANKTOCAP - TANKTO Cap and Common Requirements

Group Members: EQT0345 EQT0346 EQT0347

1087	[40 CFR 63.119(e)(1)]	Inlet emissions: Organic HAP >= 95 % reduction, except as provided in 40 CFR 63.119(e)(2). If a flare is used, it shall meet the specifications described in the general control device requirements of 40 CFR 63.11(b). Subpart G. [40 CFR 63.119(e)(1)] Which Months: All Year Statistical Basis: None specified
1088	[40 CFR 63.119(e)(3)]	Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G. [40 CFR 63.119(e)(3)]
1089	[40 CFR 63.120(d)(1)]	Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]

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1090	[40 CFR 63.120(d)(5)]	Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.15(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.120(d)(5)]
1091	[40 CFR 63.120(d)]	Submit, as part of the Notification of Compliance Status required by 40 CFR 63.151(b): A monitoring plan containing the information specified in 40 CFR 63.120(d)(2)(i) and in either (d)(2)(ii) or (d)(2)(iii); and the information specified in 40 CFR 63.120(d)(3)(i) and, if applicable, (d)(3)(ii). Subpart G. [40 CFR 63.120(d)]
1092	[40 CFR 63.126(a)(1)]	Vapor collection system: Design and operate to collect the organic hazardous air pollutant vapors displaced from tank trucks or railcars during loading, and route them to a process, or to a fuel gas system, or to a control device as provided in 40 CFR 63.126(b). Subpart G. [40 CFR 63.126(a)(1)]
1093	[40 CFR 63.126(a)(2)]	Vapor collection system: Design and operate such that organic HAP vapors collected at one loading arm will not pass through another loading arm in the rack to the atmosphere. Subpart G. [40 CFR 63.126(a)(2)]
1094	[40 CFR 63.126(a)(3)]	Ensure that the process, fuel gas system, or control device used to comply with 40 CFR 63 Subpart G will be operating whenever organic HAP emissions are vented to the process, fuel gas system, or control device. Subpart G. [40 CFR 63.126(a)(3)]
1095	[40 CFR 63.126(b)(1)]	Organic HAP >= 98 % reduction by weight or exit concentration <= 20 ppmv, whichever is less stringent. Subpart G. [40 CFR 63.126(b)(1)] Which Months: All Year Statistical Basis: None specified
1096	[40 CFR 63.126(i)]	Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.126(i)]
1097	[40 CFR 63.127(a)(1)]	Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.127(a)(1)] Which Months: All Year Statistical Basis: None specified
1098	[40 CFR 63.127(d)(2)(i)]	Vent system: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.127(d)(2)(i)] Which Months: All Year Statistical Basis: None specified
1099	[40 CFR 63.127(d)(2)(ii)]	Vent system: If car-seal has been broken or valve position changed, record that the vent stream has been diverted. Return the car-seal or lock-and-key combination to the secured position as soon as practicable but not later than 15 calendar days after the change is position is detected. Subpart G. [40 CFR 63.127(d)(2)(ii)]
1100	[40 CFR 63.127(d)(2)]	Vent system: Secure the by-pass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.127(d)(2)]
1101	[40 CFR 63.128]	Determine compliance with 40 CFR 63.126 using the methods and procedures specified in 40 CFR 63.128(a) through (h). Subpart G.
1102	[40 CFR 63.129]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.129(a) through (f). Subpart G.
1103	[40 CFR 63.130]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.130(a) through (d). Subpart G.
1104	[40 CFR 63.148(b)(1)(i)]	Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)] Which Months: All Year Statistical Basis: None specified

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1105	[40 CFR 63.148(b)(1)(ii)]	Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)] Which Months: All Year Statistical Basis: None specified
1106	[40 CFR 63.148(b)(2)(i)]	Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(i)] Which Months: All Year Statistical Basis: None specified
1107	[40 CFR 63.148(b)(2)(ii)]	Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(ii)] Which Months: All Year Statistical Basis: None specified
1108	[40 CFR 63.148(b)(2)(iii)]	Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(2)(iii)] Which Months: All Year Statistical Basis: None specified
1109	[40 CFR 63.148(b)(3)]	Fixed roof, cover, or enclosure: Presence of a leak monitored by visual, audible, and/or olfactory once initially and once every six months as specified in 40 CFR 63.133 through 63.137. Subpart G. [40 CFR 63.148(b)(3)] Which Months: All Year Statistical Basis: None specified
1110	[40 CFR 63.148(d)]	Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
1111	[40 CFR 63.148(f)(2)]	Vapor collection system or closed vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.148(f)(2)] Which Months: All Year Statistical Basis: None specified
1112	[40 CFR 63.148(f)(2)]	Vapor collection system or closed vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.148(f)(2)]
1113	[40 CFR 63.148(i)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.148(i)(1) through (i)(6). Subpart G. [40 CFR 63.148(i)]
1114	[40 CFR 63.148(j)]	Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]
1115	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1116	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
1117	[LAC 33:III.509]	Proper design and operation, good combustion practices - Determined as BACT for PM/PM10, NOX, CO, and VOC - Determined as BACT - PSD-LA-619(M4).

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1118	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or process fuel gases with H2S <= 10 ppmv on an annual average - Determined as BACT for SO2 - PSD-LA-619(M4).
1119	[LAC 33:III.5109.A]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall meet the provisions of 40 CFR 63 Subpart G - Determined as MACT.

SCN0002 VACCAP-SCN2 - Vacuum Heater Cap and Common Requirements

Group Members: EQT0004 EQT0005

1120	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1121	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
1122	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1123	[LAC 33:III.501.C.6]	Permittee shall not operate these heaters after the vacuum heater (EQT204) have had a full shake down period, but no later than 270 days after the start up of the new vacuum heater.
1124	[LAC 33:III.501.C.6]	Shall maintain NOX emissions from EQT004 <= 0.04 lbs/MM BTU (365 day rolling average based on daily average) using ULNB.
1125	[LAC 33:III.501.C.6]	Shall maintain NOX emissions from EQT005 <= 0.04 lbs/MM BTU (three one hour testing average) using LNB.
1126	[LAC 33:III.501.C.6]	heat input <= 3557 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: Annual maximum
1127	[LAC 33:III.507.H.1.a]	Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel.
1128	[LAC 33:III.507.H.1.a]	heat input Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

SCN0003 7-81-SCN3 - Heater F-72-703

1129	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1130	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified

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SCN0003 7-81-SCN3 - Heater F-72-703

1131	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1132	[LAC 33:III.501.C.6]	Permittee shall not operate this heater after the crude heater (EQT203) has had a full shake down period, but no later than 270 days after the start up of the new crude heater.
1133	[LAC 33:III.509]	Carbon monoxide <= 0.08 lb/MMBTU - Using proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for CO - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
1134	[LAC 33:III.509]	Nitrogen oxides <= 0.08 lb/MMBTU - Using Low NOX Burners (LNB) - Determined as BACT for NOX - PSD-LA-619(M4). Which Months: All Year Statistical Basis: Three one-hour test average
1135	[LAC 33:III.509]	Shall burn only pipeline quality natural gas and/or refinery fuel gases with H2S <= 100 ppmv on an annual average basis - Determined as BACT for SO2 - PSD-LA-619(M4).
1136	[LAC 33:III.509]	Shall utilize proper designs and operations, good combustion practices, and gaseous fuels - Determined as BACT for PM/PM10 and VOC - PSD-LA-619(M4).

SCN0004 3-81-SCN4 - Boiler 804

1137	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified
1138	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
1139	[LAC 33:III.1513]	Maintain all required records by electronic or hard copy. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Make records available to a representative of DEQ or the U.S. EPA on request.
1140	[LAC 33:III.501.C.6]	Permittee shall not operate this boiler beyond the Consent Decree Project implementation or December 31, 2009, whichever occurs first.

UNF0001 AI26003 - St. Charles Refinery

1141	[40 CFR 60.]	All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
1142	[40 CFR 60.]	Upon the promulgation of the regulations, The refinery shall comply with all applicable provisions of 40 CFR 60 Subpart Ja and the revisions of 40 CFR 60 Subpart J.
1143	[40 CFR 61.145(b)(1)]	Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
1144	[40 CFR 61.148]	Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

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1145	[40 CFR 61.342(e)(2)i]	Benzene <= 6 Mg/yr (6.6 ton/yr), as determined in 40 CFR 61.355(k) per the schedule in the Valero - EPA 114 Agreement. Subpart FF. [40 CFR 61.342(e)(2)i] Which Months: All Year Statistical Basis: Annual total
1146	[40 CFR 61.355]	Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
1147	[40 CFR 61.356]	Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
1148	[40 CFR 61.357(a)]	Submit report: Due by initial startup. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
1149	[40 CFR 61.357(c)]	Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]
1150	[40 CFR 61.]	All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
1151	[40 CFR 63.1569(b)(3)]	Demonstrate initial compliance with the work practice standard in 40 CFR 63.1569(a)(3) by submitting the operation, maintenance, and monitoring plan to DEQ as part of the Notification of Compliance Status. Subpart UUU. [40 CFR 63.1569(b)(3)]
1152	[40 CFR 63.1569(b)(4)]	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.1574. Subpart UUU. [40 CFR 63.1569(b)(4)]
1153	[40 CFR 63.1569(c)(2)]	Demonstrate continuous compliance with the work practice standard in 40 CFR 63.1569(a)(2) by complying with the procedures in the operation, maintenance, and monitoring plan. Subpart UUU. [40 CFR 63.1569(c)(2)]
1154	[40 CFR 63.1570 -1577]	Permittee shall 1) comply with general requirements of 40 CFR 63.1570, 2) conduct performance tests and other initial compliance demonstration required by 40 CFR 63.1571, 3) comply with monitoring installation, operation, and maintenance requirements of 40 CFR 63.1572, 4) submit notification in accordance with the requirements of 40 CFR 63.1574, 5) submit reports in accordance with the requirements of 40 CFR 63.1575, 6) prepare records in the format & maintain in accordance with the requirements of 40 CFR 63.1576, and 7) comply with the General Provisions in 40 CFR 63 Subpart A according to Table 44 of 40 CFR 63 Subpart UUU.
1155	[40 CFR 63.1570(a)]	Be in compliance with all of the non-opacity standards in 40 CFR 63 Subpart UUU during the times specified in 40 CFR 63.6(f)(1). Subpart UUU. [40 CFR 63.1570(a)]
1156	[40 CFR 63.1570(b)]	Be in compliance with the opacity and visible emission limits in 40 CFR 63 Subpart UUU during the times specified in 40 CFR 63.6(h)(1). Subpart UUU. [40 CFR 63.1570(b)]
1157	[40 CFR 63.1570(c)]	Operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). Subpart UUU. [40 CFR 63.1570(c)]
1158	[40 CFR 63.1570(d)]	Develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). Subpart UUU. [40 CFR 63.1570(d)]

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1159	[40 CFR 63.1570(e)]	Operate in accordance with the SSMP during periods of startup, shutdown, and malfunction. Subpart UUU. [40 CFR 63.1570(e)]
1160	[40 CFR 63.1570(f)]	Report each instance in which the applicable emission limitations, operating limits, and work practice standards in 40 CFR 63 Subpart UUU were not met according to the requirements in 40 CFR 63.1575. Subpart UUU. [40 CFR 63.1570(f)]
1161	[40 CFR 63.1574(a)]	Submit all of the applicable notifications in 40 CFR 63.6(h), 63.7(b) and (c), 63.8(e), 63.8(f)(4), 63.8(f)(6), and 63.9(b) through (h) by the dates specified, except as allowed in 40 CFR 63.1574(a)(1) through (a)(3). Subpart UUU. [40 CFR 63.1574(a)]
1162	[40 CFR 63.1574(d)]	Include the information in 40 CFR 63 Subpart UUU Table 42 in the notification of compliance status report. Subpart UUU. [40 CFR 63.1574(d)]
1163	[40 CFR 63.1574(f)]	Prepare and implement an operation, maintenance, and monitoring plan for each control system and continuous monitoring system for each affected source. In the plan, detail the operation, maintenance, and monitoring procedures for the facility. Submit the plan to DEQ for review and approval along with the notification of compliance status. Submit any changes to DEQ for review and approval and comply with the plan until the change is approved. Include in each plan, at a minimum, the information specified in 40 CFR 63.1574(f)(2)(i) through (f)(2)(xii). Subpart UUU. [40 CFR 63.1574(f)]
1164	[40 CFR 63.1575(b)]	Compliance reports for 40 CFR 63 Subpart UUU may be included on the same cycle as periodic reports required by 40 CFR 63 Subpart CC. [40 CFR 63.1575(b)]
1165	[40 CFR 63.1575]	Submit compliance status report: Due semiannually, by the 31st of January and July. Include the information specified in 40 CFR 63.1575(c) through (j), as applicable. Subpart UUU.
1166	[40 CFR 63.1576]	Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.1576(a) through (f). Keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The remaining 3 years may be kept off site. Subpart UUU.
1167	[40 CFR 63.]	All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
1168	[40 CFR 70.5(a)(1)(iii)]	Submit Title V permit application for renewal: six months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
1169	[LAC 33:III.2113.A]	Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
1170	[LAC 33:III.2141.A]	Control emissions of volatile organic compounds from petroleum refinery process unit turnarounds by pumping the liquid contents to storage and depressurizing the processing units to five psig (pounds per square inch gauge) or below before venting to the atmosphere. Control the vapors during the depressurization prior to venting to atmosphere by one of the applicable methods specified in LAC 33:III.2115.A, B, and F.
1171	[LAC 33:III.2141.A]	Keep records and determine compliance as specified in LAC 33:III.2115.I, J, and K.
1172	[LAC 33:III.219]	Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
1173	[LAC 33:III.2901.D]	Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
1174	[LAC 33:III.501.C.6]	Permittee shall not combust fuel oil in any permanent boilers and heaters at the refinery.

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1175	[LAC 33:III.501.C.6]	Shall submit a report by March 31st of each year during the effective term of the Valero Consent Decree lodged June 16, 2005. For each heater equipped with a CEMS and either ULNB or SCR to achieve compliance with the Valero Consent Decree, the report shall include the following information: (1) EQT Number and source description, (2) Permitted NOx lb/MMBtu, (3) Permitted NOx tons per year, (4) Actual performance NOx lb/MMBtu for the previous calendar year, and (5) Actual emissions NOx, tons per year, for the previous calendar year.
1176	[LAC 33:III.507.E.4]	Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
1177	[LAC 33:III.509.I.1]	No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section.
1178	[LAC 33:III.509.J.1]	A major stationary source or major modification shall meet each applicable emissions limitation under the Louisiana State Implementation Plan and each applicable emissions standard and standard of performance under the Louisiana New Source Performance Standards (LNSPS) and Louisiana Emission Standards for Hazardous Air Pollutants (LESHAP) and Sections 111 and 112 of the Clean Air Act.
1179	[LAC 33:III.509.J.2]	A new major stationary source shall apply best available control technology for each pollutant subject to regulation under this Section that it would have the potential to emit in significant amounts.
1180	[LAC 33:III.509.J.3]	A major modification shall apply best available control technology for each pollutant subject to regulation under this Section which would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit.
1181	[LAC 33:III.509.J.4]	For phased construction projects, the determination of best available control technology shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or operator of the applicable stationary source may be required to demonstrate the adequacy of any previous determination of best available control technology for the source.
1182	[LAC 33:III.509]	Affected equipment shall comply with all applicable requirements of PSD-LA-619(M4).
1183	[LAC 33:III.5105.A.1]	Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
1184	[LAC 33:III.5105.A.2]	Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
1185	[LAC 33:III.5105.A.3]	Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
1186	[LAC 33:III.5105.A.4]	Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
1187	[LAC 33:III.5107.A.2]	Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
1188	[LAC 33:III.5107.A]	Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

SPECIFIC REQUIREMENTS

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Activity Number: PER20080005
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1189	[LAC 33:III.5107.B.1]	Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
1190	[LAC 33:III.5107.B.2]	Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
1191	[LAC 33:III.5107.B.3]	Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931. Submit notification in the manner provided in LAC 33:I.3923.
1192	[LAC 33:III.5107.B.4]	Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
1193	[LAC 33:III.5107.B.5]	Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
1194	[LAC 33:III.5113.A.1]	Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
1195	[LAC 33:III.5113.A.2]	Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
1196	[LAC 33:III.517.B.1]	Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.
1197	[LAC 33:III.517.C]	Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
1198	[LAC 33:III.517.D]	Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.
1199	[LAC 33:III.517.E]	In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
1200	[LAC 33:III.5609.A.1.b]	Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
1201	[LAC 33:III.5609.A.2.b]	Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.

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1202	[LAC 33:III.5609.A.3.b]	Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
1203	[LAC 33:III.5609.A]	Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
1204	[LAC 33:III.5901.A]	Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
1205	[LAC 33:III.5907]	Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
1206	[LAC 33:III.5911.C]	Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.
1207	[LAC 33:III.905]	Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.
1208	[LAC 33:III.919.D]	Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.