



Air Products and Chemicals, Inc.  
P.O. Box 1469  
Martinez, Ca 94553  
(925) 313-8990

TV Tracking #: 405

January 20, 2022

1.  RECEIVED IN ENFORCEMENT: 01/24/2022

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94109

Attn: Title V Reports

**Facility # B0295 – Title V – Semi-annual Report of Required Monitoring**

Attached please find the semi-annual report of required monitoring for the Air Products and Chemicals, Inc. Hydrogen Facility (a support facility for Marathon Refining and Marketing Company) for the period covering 1 July 2021 through 31 December 2021. The report is being submitted in accordance with Facility Title V Permit # B0295 condition F Monitoring Reports.

Please note that the above referenced hydrogen facility was shut down on 25 April 2020 at the customer's request. Process was purged, cleaned, and placed under a nitrogen blanket. Process is expected to be out of service until the Customer biodiesel conversion project requires this facilities hydrogen

If you have any questions, please contact me at (925) 372-9302

Sincerely,

Nicola Maher  
Responsible Official – Area Manager  
Air Products & Chemicals, Inc. – Tesoro No. 2 Hydrogen Plant

**Bay Area Air Quality Management District  
(BAAQMD)**

**TITLE V - REPORT OF REQUIRED MONITORING**

COMPANY NAME: Air Products & Chemicals, Inc. Marathon No. 2 Hydrogen Plant	FACILITY ID: <u>B0295</u>
Reporting Period: <u>01 July 2021</u> through <u>31 December 2021</u>	

**CERTIFICATION:**

I declare, under penalty of perjury under the laws of the state of California, that, based on information and belief formed after reasonable inquiry, all information provided in this reporting package is true, accurate, and addresses all deviations during the reporting period:

Nicola Maher

Signature of Responsible Official

1/21/2022

Date

Nicola Maher

Name of Responsible Official (please print)

Area Manager

Title of Responsible Official (please print)

FACILITY NAME Air Products and Chemicals Inc, Tesoro hydrogen plant #2 FACILITY # B0295

**STATEMENT OF COMPLIANCE:**

*I certify the following:*

Read each statement carefully and initial each box for confirmation.

- Based on information and belief formed after reasonable inquiry, the source(s) identified in the Applicable Requirements and Compliance Summary form that is(are) in compliance will continue to comply with the applicable requirement(s);*
- Based on information and belief formed after reasonable inquiry, the source(s) identified in the Applicable Requirements and Compliance Summary form will comply with future-effective applicable requirement(s), on a timely basis;*
- Based on information and belief formed after reasonable inquiry, information on application forms, all accompanying reports, and other required certifications is true, accurate, and complete;*
- All fees required by Regulation 3, including Schedule P have been paid.*

**STATEMENT OF NON-COMPLIANCE**

Read statement carefully. Initial box for confirmation if statement is true.

*I certify the following:*

- Based on information and belief formed after reasonable inquiry, the source(s) identified in the Schedule of Compliance application form that is(are) not in compliance with the applicable requirement(s) will comply in accordance with the attached compliance plan schedule.*

Nicola Maher  
Signature of Responsible Official

Nicola Maher  
Name of Responsible Official

1/21/2022  
Date

# Bay Area Air Quality Management District (BAAQMD)

## Title V - REPORT OF REQUIRED MONITORING – DEVIATION FORM

In numerical order list all permitted units that are subject to an applicable monitoring requirement for which a deviation occurred during the reporting period. List monitoring requirements for a permit, each in a separate box, before moving on to the next permit number. Refer to the attached instructions for more information.

<b>Company Name: Air Products &amp; Chemicals, Inc. Facility ID: B0295</b> <b>Marathon No. 2 Hydrogen Plant</b>							
<b>Reporting Period : 1 July 2021 through 31 December 2021</b>							
COLUMN 1 Permit Unit Number	COLUMN 2 Permit Condition # (Specify the Condition # for required monitoring)	COLUMN 3 Parameters Monitored (e. g. ppm NOx, exhaust temp – 0 F, etc.)	COLUMN 4 Periods of Deviation (Dates & Times)	COLUMN 5 Limit e. g. 30 ppm, 10 psi, 25 lb/day, etc.)	COLUMN 6 Actual (e. g. 37.2 ppm, 3 psi, 30 lb/day, etc)	COLUMN 7 Deviation or Excess for Period of each Deviation (e. g. 7.2 ppm)	COLUMN 8 Notes (e. g. cause, corrective action, etc.)
							No deviations occurred during this reporting period, the facility was in continuous compliance with all applicable monitoring requirements.  Plant was shut down on 25 April 2020 at customer request. Entire process has been cleaned, purged and placed under a nitrogen blanket and is Out of Service pending biodiesel conversion project

# Title V Semi- Annual Monitoring Verification Report

Date: 1/20/2022

Period: 7/1/2021 – 12/31/2021

Site #: B0295

Site Name: Air Products and Chemicals, Inc. Marathon Hydrogen Plant #2

Address: Facility #A0295, Golden Eagle Refinery, 150 Solano Way

City: Martinez

State: California

Zip Code: 94553

Source #: Facility B0296									
Source Name: Air Products and Chemicals, Inc. Marathon Hydrogen Plant #2									
Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limits	Monitoring Requirements Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	N
POC	BAAQMD 8-16-111	Y		No Limit	BAAQMD 8-16-501.3	N	Records	Y	
Ambient so2	BAAQMD 9-1-301	Y		Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	BAAQMD 9-1-501 9-1-604	C	Area Monitoring	N/A	Monitored by refinery
Ambient H2S	BAAQMD 9-2-301	Y		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	BAAQMD 9-2-501 9-2-602	C	Area Monitoring	N/A	Monitored by refinery
H2S NH3	BAAQMD 9-1-313.2	N		Refinery wide: 95% H2S removal (refinery fuel gas) 95% H2S removal (process water streams) 95% NH3	None	N	N/A	Y – No RFG consumed	
H2S NH3	SIP 9-1-313.2	Y		Refinery wide: 95% H2S removal (refinery fuel gas) 95% H2S removal (process water streams) 95% NH3 removal (process water streams)	None	N	N/A	Y – No RFG consumed	

PM	BAAQMD 8-40-304	y		Exposed surface area $\leq$ 6,000 square feet (Active storage pile)	None	N	N/A	Y -No contaminated soil piles
PM	BAAQMD 8-40-305	y		Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour	None	N	N/A	Y -No contaminated soil piles
voc	BAAQMD 8-40-306.4	y		Within 45 days of excavation or 90 days of < 500 ppmw, cover with 6" uncontaminated soil or remove all contaminated	BAAQMD 8-40-601.3 ( $\leq$ 250 cubic yds) 8-40-601.4 ( $>$ 250 cubic yds)	P/E	Sample every 50 cubic yds excavated (250 cubic yds)  Sample every 100 cubic yds excavated (> 250 cubic yds)	Y -No contaminated soil piles
voc	BAAQMD 8-40-306.6	y		During periods of inactivity > 12 hours, Backfilled contaminated soil covered with 6" uncontaminated soil or continuous heavy duty plastic sheeting	None	N	N/A	Y -No contaminated soil piles
Organic HAPs	40CFR 63.643(a)(2)	y		Reduce Organic HAPs using a control device by 98% or to 20 ppmvd, whichever is less stringent	40 CFR 63.644(a)(3) 63.645(d)(1)	None	N/A	Y
voc	BAAQMD 8-2-301	y		15 lbs./day and 300 ppm total carbon, dry basis	BAAQMD 8-2-601	None	Source Test/Facility Shut Down	Y

voc	BAAQMD 8-10-301	N		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)	BAAQMD 8-10-401 8-10-501 8-10-502	P/E	Records	Y	
voc	SIP 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)	SIP 8-10-401 BAAQMD 8-10-501 8-1-502	P/E	Records	Y	
voc	BAAQMD 8-10-302.1 8-10-302.2	N		< 10,000 ppm organic concentration [A refinery vessel may exceed this limit provided total number of such vessels doesn't exceed 10% of total vessel population over 5-consecutive year period and total mass organic compound emissions are less than 15 lb./day	BAAQMD 8-10-501 8-10-502 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 Inspection and Records/ Facility Shut Down	Y	

voc	SIP 8-28-303.1	Y		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods/ Facility Shut Down	Y	
voc	BAAQMD 8-28-303.1	N		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods/ Facility Shut Down	Y	
voc	BAAQMD 8-28-303.2	N		Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-502.1	PIE	Records	N/A -- all Covered PRDs directed to fuel recovery system	
Voc	BAAQMD & SIP 8-28-304	Y		If one reportable release event from a pressure relief device in any consecutive 5-year period, shall meet specified conditions	BAAQMD 8-28-401, 8-28-402, 8-28-404, 8-28-405, and 8-28-502	PIE	Reporting and prescribed measures/ Facility Shut Down.	N/A - all covered PRDs directed to fuel recovery system	
Through-put	BAAQMD Condition 21087, Part 13	Y		38 MMSCF per calendar day Hydrogen Production	BAAQMD Condition 21087, Part 16	P/Hourly	Records	Y	
Ammonia	BAAQMD Condition 21087 Part 10	Y		25 ppmv dry at 3% O <sub>2</sub> 3-hour average	BAAQMD Condition 21087 Part 10	PIA	Source Test/ Facility Shut Down	Y	
co	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> )	BAAQMD 9-10-502, 9-10-504.1,	C	CEM/ Facility Shut Down	Y	
co	BAAQMD Condition 21087 Part I	Y		50 ppmv (dry, 3% O <sub>2</sub> )	BAAQMD Condition 21087 Part 6	C	CEM/ Facility Shut Down	Y	
co	BAAQMD Condition 25199 Part 2	Y		21.93 tons in any consecutive 12-months	BAAQMD Condition 25199 Part 4	M	Calculations based on CEM/ Facility Shut Down	Y	



Firing Rate	BAAQMD Condition 25199 Part 1	Y		294MM Btu/hr	BAAQMD 9-10-502.2	C	Fuel Flowmeter/ Facility Shut Down	Y	
NOx	BAAQMD Condition 21087 Part I	Y		10 ppmv (dry, 3% O2)	BAAQMD Condition 21087 Part 6	C	CEM/ Facility Shut Down	Y	
NOx	BAAQMD Condition 25199 Part 2	Y		16.13 tons in any consecutive 12-months	BAAQMD Condition 25199 Part 3	M	Calculations based on CEM/ Facility Shut Down	Y	
NOx	BAAQMD 9-3-303	N		125 ppm	BAAQMD Condition 21087 Part 6	C	CEM/ Facility Shut Down	Y	
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb./MMBtu. operating-day	SIP 9-10-502, 9-10-504.I, 9-10-505 and 1-523	C	Monitoring, records, and reporting/ Facility Shut Down	Y	
O2		N		No limit	BAAQMD 9-10-502.1	C	CEM/ Facility Shut Down	Y	
Opacity	BAAQMD 6-I-302	N		20% opacity, except for 3 minutes in any one hour	None	N	N/A	Y	
Opacity	SIP 6-302	Y		20% opacity, except for 3 minutes in any one hour	None	N	N/A	Y	
PM	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O2	None	N	None	Y	
PM	SIP 6-310.3	Y		0.15 grain per dscf at 6% O2	None	N	None	Y	
PM-10	BAAQMD Condition 25199 Part 2	Y		12.90 tons in any consecutive 12-months	BAAQMD Condition 25199 Part 7	PIE & every 5 years	Source Test/ Facility Shut Down	Y	
POC	BAAQMD Condition 25199 Part 2	Y		3.87 tons in any consecutive 12-months	BAAQMD Condition 25199 Part 5	PIE & every 5 years	Source Test/ Facility Shut Down	Y	
SO2	BAAQMD Condition 25199 Part 2	Y		4.46 tons in any consecutive 12-months	BAAQMD Condition 25199 Part 6	M	Calculations based on fuel sulfur content/ Facility Shut	Y	
SO2	BAAQMD Condition 21087, Part 3i  40CFR 60.104 (a)(I)	Y		Fuel gas H2S limited to 0.10 gr/dscf (160 ppm) 3-hr average	BAAQMD Condition 21087, Part 14i  40CFR 60.105(a)(4) & 60.105(e)(3)	C	H2S Analyzer/ Facility Shut Down	Y - No RFG consumed	

so2	BAAQMD Condition 21087, Part 3ii	Y		Fuel gas H2S limited to 100 ppm 24-hr average	BAAQMD Condition 21087, Part 14ii	C	H2S Analyzer/ Facility Shut Down	Y – No RFG consumed
SOz	BAAQMD Condition 21087, Part 3iii	Y		Fuel gas H2S limited to 50 ppm 12-	BAAQMD Condition 21087, Part 14iii	C	H2S Analyzer/ Facility Shut Down	Y – No RFG consumed
so2	BAAQMD Condition 21087, Part 3iv	Y		Fuel gas TRS limited to 100 ppm 12-month average	BAAQMD Condition 21087, Part 14iv	M	Records	Y – No RFG consumed
Visible Emissions	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A	Y
Visible Emissions	SIP 6-30\	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A	Y
Visible Emissions	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	None	N	N/A	Y
Visible Emissions	SIP 6-304	Y		Ringelmann No.2 for no more than 3 minutes/hour during tube cleaning	None	N	N/A	Y
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A	Y
Visible Particles	SIP 6-1-305	Y		Prohibition of nuisance	None	N	N/A	Y
POC	BAAQMD 8-18-300	Y		Valves <=/= 100 ppm, Pumps <=500 ppm, Compressors < /=500 ppm, Connectors < /= 100 ppm, PROs < /= 500 ppm General	BAAQMD 8-18-401.5	P/E (24 hrs. after repair/minimization)	Method 21 Inspection/ Facility Shut Down	Y
POC	BAAQMD. 8-18-301	Y		General equipment leak < /= 100 ppm	None	P/E	Method 21 Inspection/ Facility Shut Down	Y
POC	BAAQMD. 8-18-302.1 8-18-302.2	N		Valve leak < /= 100 ppm	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection/ Facility Shut Down	Y

POC	BAAQMD 8-18-302.1 8-18-302.2	N		Inaccessible Valve leak </= 100 ppm or minimize in 24 hours,	BAAQMD 8-18-401.3	PIA	Method 21 Inspection/ Facility Shut Down	Y	
Voc	BAAQMD 8-18-302.3 8-18-306.2 8-18-306.3 8-18-306.4	N		Non- repairable valves	BAAQMD 8-18-401.9	P/Q	Method 21 inspection/ Facility Shut Down	Y	
Voc	BAAQMD 8-18-302.3 8-18-306.4	N		Mass emission rate </= 15 lb./day for valve with major leak (>/= 10,000 ppm)	BAAQMD 8-18-306.4 8-18-604	PIE within 45 days of leak discovery	Mass Emission Sampling/ Facility Shut Down	Y	
Voc	BAAQMD 8-18-302.3 8-18-306.4	N		Mass emission rate </= 15 lb./day for non- repairable valve with major leak (>/= 10,000 ppm)	BAAQMD 8-18-401.10 8-18-604	PIA	Mass Emission Sampling/ Facility Shut Down	Y	
POC	BAAQMD. 8-18-303.1 8-18-303.2	N		Pump and compressor leak </= 500 ppm	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection/ Facility Shut Down	Y	
POC	BAAQMD 8-18-304.1 8-18-304.2	N		Connection leak </= 100 ppm	BAAQMD 8-18-401.	P/E (Annually or EPA approved connection inspection program)	Method 21 Inspection/ Facility Shut Down	Y	
POC	BAAQMD 8-18-304.1 8-18-304.2.	N		Connection leak </= 100 ppm	BAAQMD 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection / Facility Shut Down	Y	
POC	BAAQMD 8-18-305	y		Pressure relief valve leak </= 500 ppm	BAAQMD 8-18-401.2 8-18-401.7	P/Q	Method 21 Inspection/ Facility Shut Down	Y	
POC	BAAQMD 8-18-305	y		Inaccessible pressure relief v valve leak </= 500 ppm	BAAQMD 8-18-401.3	P/A	Method 21 Inspection/ Facility Shut Down	Y	
POC	BAAQMD 8-18-305	Y		Pressure relief valve leak </= 500 ppm	BAAQMD 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection/ Facility Shut Down	Y	

POC	BAAQMD 8-18-306.1.	N		Valve, connector, pressure relief, pump or compressor must be repaired within 5 years or the next scheduled turnaround.	BAAQMD 8-18-502.4	P/Q	Report	Y	
POC	BAAQMD 8-18-302.3 8-18-303.3 8-18-304.3 8-18-306.2 8-18-306.3 8-18-306.4	N		Maximum Percentage awaiting repair Valves (including with major leaks) and connectors per 8-18-306.3 -0.30%  Valves with major leaks per 8-18-306.4 - 0.025%  Pressure relief - 1.0%  Pumps and compressors - 1.0%	BAAQMD 8-18-502.4  BAAQMD 8-18-306.1	P/E  P/Q	Report  Repair/replace within 5 years or the next scheduled turnaround, whichever is first.	Y	
POC	BAAQMD 8-18-307	Y		Liquid Leak more than 3 drops/min, unless minimized with 24 hrs. & repaired within 7 days	None	PIE	Records	Y	
POC	BAAQMD 8-18-403	Y		No evidence of leak in Pumps and Compressors	BAAQMD 8-18-403	P/D	Visual Inspection/ Facility Shut Down	Y	
POC	BAAQMD 8-18-403	Y		Pumps and Compressors with Evidence of Leak on visual inspection	BAAQMD 8-18-403	PIE	Method 21 Inspection/ Facility Shut Down	Y	
POC	SIP 8-18-302	Y		Valve leak <= 100 ppm or minimize in 24 hours, repair	SIP 8-18-401.2	P/Q	Method 21 Inspection/ Facility Shut Down	Y	

POC	SIP 8-18-302	Y		Inaccessible Valve leak $\leq$ 100 ppm or minimize in 24 hours, repair in 7	SIP 8-18-401.3	P/A	Method 21 Inspection/ Facility Shut Down	Y	
POC	SIP 8-18-303	Y		Pump and compressor leak $\leq$ 500 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.2	P/Q	Method 21 Inspection/ Facility Shut Down	Y	
POC	SIP 8-18-304.2	Y		Connection leak $\leq$ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.6	PIE (Annually or EPA-approved connection inspection program)	Method 21 Inspection/ Facility Shut Down	Y	
POC	SIP 8-18-304.2	Y		Connecti on leak $\leq$ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.1	PIE (90 days after turnaround startup)	Method 21 Inspection/ Facility Shut Down	Y	
POC	SIP 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	SIP 8-18-502.4	P/Q	Report	Y	
POC	SIP 8-18-306.2	Y		Awaiting repair Valves $\leq$ 0.5% Pressure Relief $\leq$ 1% Pumps and Compressors $\leq$ 1%	SIP 8-18-502.4	P/Q	Report	Y	
Voc	40CFR 60.482-2(b)(I)	Y		LL pump leak $\leq$ 10,000 ppm	40CFR 60.482-2(a)(I)	P/M	Method 21 Inspection/ Facility Shut Down	N/A – no pumps in light liquid service	

Voc	40CFR 60.482-2(a)(2) 60.482-2(d)(4)(i)	y		LL Pump, no leak indicated by dripping liquid	40CFR 60.482-2(a)(2)	P/W	Visual Inspection/ Facility Shut Down	N/A – no pumps in light liquid service
Voc	40CFR 60.482-2(b)(2), 60.482-2(b)(2)(i), 60.482-2(d)(4)(ii)(A) 60.482-2(d)(4)(ii),	y		LL pump leak <= 10,000 ppm or discovery of dripping liquid in weekly visual inspection	40CFR 60.482-2(b)(2)(i) 60.482(d)(4)(ii)(A)	P/E (within 5 days of discover of the liquid leak)	Method 21 Inspection/ Facility Shut Down	N/A – no pumps in light liquid service
Voc	40CFR 60.482-2(b)(2)	y		No limit - liquid discovered dripping from LL pump in weekly inspection	40CFR 60.482-2(b)(2)(ii)	PIE (within 15 days of detection)	Designate event as leak repair and remove evidence of leak.	N/A – no pumps in light liquid service
Voc	40 CFR 60.482-2(b)(2) 60.482-2(d)(4)(ii)	y		No limit - liquid discovered dripping from LL pump equipped with dual mechanical seal and barrier fluid system in weekly inspection	40CFR 60.482-2(d)(4)(II)(B)	PIE	Designate event as leak	N/A – no pumps in light liquid service
Voc	40CFR 60.482-2(d)(5)(ii) 60.482-2(d)(5)(iii)	y		Pump sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined	40CFR 60.482-2(d)(5)(i)	C or P/D	Pump sensor with audible alarm or checked daily/ Facility Shut Down	N/A – no pumps in light liquid service
Voc	40CFR 60.482-2(e)	y		Pump designated for "No detectable emissions" < 500 ppm	40 CFR 60.482-2(e)(3)	P/A	Method 21 Inspection/ Facility Shut Down	N/A – no pumps in light liquid service
voc	40 CFR 60.482-3(d) 60.482-3(e)(2) 60.482-3(f)	y		Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion	40CFR 60.482-3(e)(1),	C or P/D	Sensor with audible alarm or checked daily.	Y

Voc	40CFR 60.482-3(i)	Y		Compressor designated for "No detectable emissions" leak < 500 ppm	40CFR 60.482-3(i)(2)	PIA	Method 21 Inspection/ Facility Shut Down	Y	
Voc	40CFR 60.482-4(a) 60.482- 4(b)(1)	Y		Gas/vapor PRD leak <= 500 ppm	40CFR 60.482-4(b)(2)	PIE within 5 days after release	Method 21 Inspection/ Facility Shut Down	Y	
Voc	40CFR 60.482-?(b)	Y		Valve leak <= 10,000 ppm	40CFR 60.482-7(a)(1) 60.482-?(c)	P/M or Q	Method 21 Inspection/ Facility Shut Down	Y	
Voc	40CFR 60.482.7(f)	Y		Valve designated "No detectable emissions"	40CFR 60.482-7(f)(3)	PIA	Measure for leaks/ Facility Shut	Y	
Voc	40CFR 60.482-7(h)	Y		Valve designated "Difficult to monitor" (up to 3% of total valves)" leak < 500 ppm	40CFR 60.482-7(h)(3)	PIA	Method 21 Inspection/ Facility Shut Down	Y	
Voc	40CFR 60.482-8(a) 60.482-8(b)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors <= 10,000 ppm	40CFR 60.482-8(a)(1) 60.486-8(c)	PIE Within 5 calendar days of evidence of AVO leak	Method 21 Inspection/ Facility Shut Down	Y	
Voc	40 CFR 60.482-10(b)	Y		Vapor recovery systems 95% or exit <=20 ppm	40CFR 60.482-10(e)	N	N/A	N/A – Vapor Recovery system operated by refinery	
Voc	60.482-10(c)	Y		Enclosed combustion devices >= 95% destruction efficiency or >= 0.75	40CFR 60.482-10(e)	N	N/A	N/A – Vapor Recovery system operated by refinery	

Voc	40 CFR 60.482-10(g)	Y		Hard piped closed vent systems <500 ppmv	40 CFR 60.482-10(t)(1)(i)	P/I	Method 21 Inspection/Facility Shut Down	N/A – Vapor Recovery system operated by refinery	
Voc	40CFR 60.482-10(g)	Y		Hard piped closed vent systems, no VOC leaks	40CFR 60.482-10(t)(1)(ii)	PIA	Visual inspection/Facility Shut Down	N/A – Vapor Recovery system operated by refinery	
Voc	40CFR 60.482-10(k)	Y		Closed vent system portions designated as "Difficult to inspect" (up to 3% of total closed vent system equipment)	40CFR 60.482-10(k)(3)	P/ every 5 years	Visual inspection/Facility Shut Down	N/A – Vapor Recovery system operated by refinery	
Voc	40CFR 60.483-2 BAAQMD 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking >= 10,000 ppm.	40 CFR 60.483-2 BAAQMD 8-18-404.1	P/Q  P/A	Method 21 Inspection/Facility Shut Down	Y	
POC	BAAQMD 8-28-303.1	N		Vented to vapor recovery. 95% control efficiency	None	N	N/A	Y	
POC	SIP 8-28-303.1	Y		Vented to vapor recovery. 95% control efficiency	None	N	N/A	Y	



POC	BAAQMD 8-28-304.1	Y		PRD release in 5- year period	8-28-304.1	PIE within 90 days	Additional Process Hazard Analysis	N/A - all covered PRDs directed to fuel recovery system
POC	BAAQMD 8-28-304.2	Y		PRD release in a 5- year period	8-28-304.2	P/E within 1 year	Vent to vapor recovery, 95% control efficiency	N/A - all covered PRDs directed to fuel recovery system
POC	None	N		No Limit	BAAQMD 8-28-402.1	P/D	Visual inspection	N/A - all covered PRDs directed to fuel recovery system
POC	None	N		No Limit	BAAQMD 8-28-402.2	P/ Within 5 days of a release	Visual inspection	N/A - all covered PRDs directed to fuel recovery system
POC	None	N		No Limit	SIP 8-28-402	P/ Within 5 days of a release	Visual inspection	N/A - all covered PRDs directed to fuel recovery system
POC	None	N		No Limit	BAAQMD 8-28-503	PIE	Monitoring System	N/A - all covered PRDs directed to fuel recovery system