Valero
Benicia Refinery • Valero Refining Company - California
3400 East Second Street • Benicia, California 94510-1097 • Telephone (707) 745-7011 • Facsimile (707) 745-7339

Sent via email

TV Tracking #1055 (B2626) (Semi-Annual)
TV Tracking #1056 (A0901) (Semi-Annual)
TV Tracking #1057 (B5574) (Semi-Annual)

January 28, 2025

1. ☐ RECEIVED IN ENFORCEMENT: 01/28/2025

Refinery, Asphalt Plant & B5574
Monitoring Report for July 2024 – December 2024

Mr. Jeff Gove
Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Dear Mr. Gove:

Per Standard Condition I.F of Valero's Title V permits issued for the Fuels Refinery (B2626) and the Asphalt Plant (A0901) and Permit B5574, enclosed are the certified Semi-annual Monitoring Title V reports for all three facilities. Please note that the reporting convention for these reports is that deviations *discovered* during the calendar month are included along with any on-going events, regardless of when the event started.

The format and content of these reports is consistent with guidance provided by Mr. Steve Hill, BAAQMD Permit Evaluation Manager, in his letter dated January 8, 2004.

Please contact me at 707-745-7729 if you have any questions or need further information.

Sincerely,

Carson Stacy
Associate Environmental Engineer

Ecc : Anthony Smith, anthony.smith@baaqmd.gov
compliance@baaqmd.gov
Benjamin Siemens, bsiemens@baaqmd.gov

Document # 27869

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 7/23/2024 11:40 AM Stoppec 7/23/2024 4:00 PM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	REFFUG-Benicia Refinery Fugitives	Permit:	
Abatement Device:		AQMD:	8-18-402
Emission Point:		Other:	40 CFR 60.480

1331 Event Description: Amendment - During BAAQMD audit of the LDAR inventory at the Waste Water Treatment Unit, valves and connectors previously not documented were discovered. We have added 3 valves and 23 connectors to the LDAR program. The components have an add date of 7/23/2024 and all newly added components were monitored on 7/23/2024.
During BAAQMD audit of the LDAR inventory at the Waste Water Treatment Unit, valves and connectors previously not documented were discovered. We have added 3 valves and 26 connectors to the LDAR program. The components have an add date of 7/23/2024 and all newly added components were monitored on 7/23/2024.

Probable Cause: The Benicia Refinery has over 360,000 components in its database. A healthy fugitive emissions program will self-audit to identify single items or systems that may not be in compliance. By identifying these outliers, program improvements can be achieved.

Corrective actions or preventative steps taken: Routine auditing of refinery fugitives program. Identification of potential non-compliant components during routine monitoring. Special focused program improvement projects are conducted to improve units that are identified as needing improvement.

Required components were inspected after discovery.

Episode ID #: NOV:

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Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 7/23/2024 10:33 AM Stoppec 7/23/2024 2:00 PM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	REFFUG-Benicia Refinery Fugitives	Permit:	
Abatement Device:		AQMD:	8-18-309
Emission Point:		Other:	

1332 Event Description: During a BAAQMD Inspection on 7/23/24, three open ended lines were found at the Waste Water Treatment Unit.

Probable Cause: Drain valves were left unplugged and flanged after use.

Corrective actions or preventative steps taken: All three open ended lines were caped and flanged closed.

Episode ID #: NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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Title V deviations for the reporting period are summarized below:

Event Starte 7/23/2024 11:00 AM Stoppec 7/24/2024 2:45 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S150-WW Chemical Flocculation, TK-2051	Permit:	
Abatement Device:		AQMD:	8-8-315.1
Emission Point:		Other:	

1333 Event Description: During a BAAQMD inspection on 7/23/24 at 11:00am, the mixer seal on TK-2051 was found to not be vapor tight. The leaking seal was found to be >500 ppm total organic compounds during inspection. The seal was not able to be repaired within 24 hours. The seal was repaired and <500 ppm total organic compounds on 7/24/24 at 2:45pm.

Probable Cause: Normal wear

Corrective actions or preventative steps taken: The seal was sealed in place with sealant and repaired.

Episode ID #: NOV:

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6 Month Deviation Summary Report

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 7/30/2024 5:00 PM Stoppec 7/30/2024 5:00 PM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	REFFUG-Benicia Refinery Fugitives	Permit:	
Abatement Device:		AQMD:	8-18-309
Emission Point:		Other:	

1334 Event Description: 2Q-24 refinery fugitives deviation report includes: 15 Open Ended Lines.

Probable Cause: The Benicia Refinery has over 360,000 components in its database. A healthy fugitive emissions program will self-audit to identify single items or systems that may not be in compliance. By identifying these outliers, program improvements can be achieved.

Corrective actions or preventative steps taken: All 15 open ended lines were plugged, caped and flanged closed.

Episode ID #: NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/1/2024 4:00 PM Stoppec 8/1/2024 4:00 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1010-Hydrogen Production Facilities	Permit:	
Abatement Device:		AQMD:	8-18-301
Emission Point:		Other:	

1335 Event Description: On August 1, 2024 Valero Benicia Refinery received an NOV (62167) from BAAQMD. The NOV was issued for using equipment (LDAR #1916757) that leaks total organic compounds in excess of 100 ppm without repairing within 7-days of discovery on 7/17/23. Valero does not agree with the violations and has submitted a 10-day response.

Probable Cause: On August 1, 2024 Valero Benicia Refinery received an NOV (62167) from BAAQMD. The NOV was issued for using equipment (LDAR #1916757) that leaks total organic compounds in excess of 100 ppm without repairing within 7-days of discovery on 7/17/23. Valero does not agree with the violations and has submitted a 10-day response.

Corrective actions or preventative steps taken: On August 1, 2024 Valero Benicia Refinery received an NOV (62167) from BAAQMD. The NOV was issued for using equipment (LDAR #1916757) that leaks total organic compounds in excess of 100 ppm without repairing within 7-days of discovery on 7/17/23. Valero does not agree with the violations and has submitted a 10-day response.

Episode ID #: NOV: 62167

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/6/2024 1:23 PM Stoppec 8/6/2024 1:44 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1010-Hydrogen Production Facilities	Permit:	27609 Part 1
Abatement Device:		AQMD:	Reg 8-2-301
Emission Point:	P1010-ST-302	Other:	

1336 Event Description: On 8/6/24, P017 valve opened from 13:23 – 13:44 intermittently and approximately 18.6 pounds of Total Carbon was released from vent P1010 (ST-302) to atmosphere. A project has been underway to address releases from this vent during startup, shutdown and process upsets.

Probable Cause: 1900# Hydrogen grid experienced grid instability.

Corrective actions or preventative steps taken: Hydrogen grid pressure stabilized.

Episode ID #: RCA200711 NOV:

BAAQMD Title V Permit
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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/21/2024 5:00 AM Stoppec 10/22/2024 5:00 AM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	S5-FCCU Regenerator, R-702; S6-Coker Burner, R-902; S1059-CO Furnace F-105; S1060-CO Furnace F-106	Permit:	24245.19
Abatement Device:	A1059-Flue Gas Scrubber SCR	AQMD:	6-1-301; 6-1-302; SIP 6-301; SIP 6-302; 6-1-310; SIP 6-310
Emission Point:	P1059-FGS Stack ST-5601	Other:	40 CFR Part 60.102(a)(2); 40 CFR Part 63.1564(a)(1)

1337 Event Description: Amendment 12/5/2024: Moved NOVs 62168, 62571, 62572, 62169, 62573, 62574, 62575, 62170, 62576, 62171, 62173, 62174, 62175, 62176, 63878 to Deviation #1384 at request of BAAQMD.
Amendment 11/21/2024: On 8/21/2024, the Flue Gas Scrubber (FGS) stack exceeded visible emissions in excess of Ringelmann 1, or 20% opacity, in addition to falling below the hourly 19 in H2O minimum delta P across the Agglo Filtering Module (AFM). This parametric variable returned to above the hourly minimum on 10/22/2024.
Amendment 10/23/2024: On 10/22/2024 at 05:00 AM, the Flue Gas Scrubber (FGS) parametric variable "delta P across the Agglo Filtering Module (AFM)" returned to above the hourly minimum limit of > 19 inches of H2O.
On 8/21/2024 the Flue Gas Scrubber (FGS) parametric variable "delta P across the Agglo Filtering Module (AFM)" dropped below the hourly minimum limit of >19 inches of H20.

Probable Cause: The Coker and the FCCU were intermittently shut down. It is not possible to meet this hourly parametric limit when not running both units at normal rates. This hourly parametric limit was established during a performance test conducted when both the FCCU and Coker units were running at normal rates.

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Corrective actions or preventative steps taken: It is not possible to meet this hourly parametric limit when not running both units at normal rates. This hourly parametric limit was established during a performance test conducted when both the FCCU and Coker units were running at normal rates.

Episode ID #: 200579 NOV:

Event Starte 8/21/2024 9:08 PM Stoppec 8/21/2024 9:30 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1010-Hydrogen Production Facilities	Permit:	27609 Part 1
Abatement Device:		AQMD:	Reg 8-2-301
Emission Point:	P1010-ST-302	Other:	

1338 Event Description: On 8/21/2024, P017 valve opened from 9:08 pm to 9:30 pm and approximately 334.5 lbs. of Total Carbon was released from vent P1010 (ST-302) to atmosphere. A project has been underway to address releases from this vent during startup, shutdown and process upsets.

Probable Cause: 1900# Hydrogen Grid experienced grid instability.

Corrective actions or preventative steps taken: Hydrogen Grid pressure stabilized.

Episode ID #: 200581 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/21/2024 6:00 PM Stoppec 8/21/2024 9:45 PM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	S18-South Flare, ST-2101; S19-North Flare, ST-2103	Permit:	
Abatement Device:		AQMD:	
Emission Point:	P3-North Flare Emission Point, P-3; P2-South Flare Emission Point, P-2	Other:	NESHAP 40 CFR 63.670 (e.); 40 CFR 60.103a(h)

1339 Event Description: The North Flare (S-19) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 8/21/2024 during the 18:00, 20:00, 21:00, 21:15, and 21:30 15-minute periods.

Additionally, the South Flare (S-18) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 8/21/2024 during the 18:30 15-minute period.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Process unit upsets, imbalance of steam and flare flow.

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 200582;200582;200582;200582;200582;200582 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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3400 East Second Street
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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/24/2024 12:46 AM Stoppec 8/24/2024 12:49 AM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	S1010-Hydrogen Production Facilities	Permit:	27609 Part 1
Abatement Device:		AQMD:	Reg 8-2-301
Emission Point:	P1010-ST-302	Other:	

1340 Event Description: Amended Deviation for late report. On 8/24/2024, P017 valve opened from 00:46 – 00:48; closed at 00:49. (3 minutes total). A total of 23.2 lbs of carbon was released to the atmosphere. A project has been underway to address releases from this vent during startup, shutdown and process upsets.

Probable Cause: 1900# Hydrogen Grid experienced grid instability.

Corrective actions or preventative steps taken: Hydrogen Grid pressure stabilized.

Episode ID #: RCA200708 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/25/2024 4:24 PM Stoppec 8/25/2024 7:58 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1010-Hydrogen Production Facilities	Permit:	27609 Part 1
Abatement Device:		AQMD:	Reg 8-2-301
Emission Point:	P1010-ST-302	Other:	

1341 Event Description: On 8/25/2024, P017 valve opened from 16:24 – 16:29; closed at 16:30, and then opened again for one minute at 19:58. A total of 43 lbs of carbon was released to the atmosphere. A project has been underway to address releases from this vent during startup, shutdown and process upsets.

Probable Cause: 1900# Hydrogen Grid experienced grid instability.

Corrective actions or preventative steps taken: Hydrogen Grid pressure stabilized.

Episode ID #: RCA200709 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/26/2024 8:24 AM Stoppec 8/27/2024 1:20 AM ☐ Ongoing Event

		May have resulted in a violation of:	
Source Number:		Permit:	24198 part 17 6-1-302; SIP 6-302
Abatement Device:		AQMD:	6-1-302; SIP 6-302
Emission Point:	P69-FCCU/CKR Dumpstack	Other:	

1342 Event Description: On 8/26/2024, FCCU water seal at the dumpstack was drained per shutdown procedures in order to isolate the FCCU unit in a safe manner. The seal was reestablished 8/27/24 at 1:20 AM. This excess is being submitted pursuant to Condition 24198, Part 17.

Probable Cause: The water seal was drained per shutdown procedures.

Corrective actions or preventative steps taken: The water seal was reestablished as soon as possible.

Episode ID #: RCA200710 NOV: 61868

BAAQMD Title V Permit
6 Month Deviation Summary Report

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Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/26/2024 1:30 PM Stoppec 8/26/2024 1:30 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S18-South Flare, ST-2101	Permit:	
Abatement Device:		AQMD:	6-1-301
Emission Point:	P2-South Flare Emission Point, P-2	Other:	

1343 Event Description: On August 26, 2024, Valero Benicia Refinery received an NOV (62569) from the BAAQMD. The NOV was issued for visible emissions during the flaring event on 8/21/24 at the South Flare.

Probable Cause: On August 26, 2024, Valero Benicia Refinery received an NOV (62569) from the BAAQMD. The NOV was issued for visible emissions during the flaring event on 8/21/24 at the South Flare.

Corrective actions or preventative steps taken: On August 26, 2024, Valero Benicia Refinery received an NOV (62569) from the BAAQMD. The NOV was issued for visible emissions during the flaring event on 8/21/24 at the South Flare.

Episode ID #:

NOV: 62569

BAAQMD Title V Permit
6 Month Deviation Summary Report

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 9/17/2024 4:30 AM Stoppec 9/21/2024 11:05 AM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:		Permit:	Condition 24198, Part 17
Abatement Device:		AQMD:	6-1-302; SIP 6-302
Emission Point:	P69-FCCU/CKR Dumpstack	Other:	

1344 Event Description: Amendment 9/25/24: On 9/17/2024, the FCCU water seal at the dumpstack (P-69) was drained per startup procedures in order to remove the FCCU unit blind. The seal was reestablished on 9/21/2024 at 11:05AM. This excess is being submitted pursuant to Condition 24198, Part 17.

On 9/17/2024, the FCCU water seal at the dumpstack (P-69) was drained per startup procedures in order to remove the FCCU unit blind for startup. This excess is being submitted pursuant to Condition 24198, Part 17.

Probable Cause: The water seal was drained per startup procedures

Corrective actions or preventative steps taken: The water seal was reestablished as soon as possible

Episode ID #: 200712 NOV: 61869

BAAQMD Title V Permit
6 Month Deviation Summary Report

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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 8/26/2024 10:00 PM Stoppec 8/27/2024 1:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S19-North Flare, ST-2103	Permit:	
Abatement Device:		AQMD:	
Emission Point:	P3-North Flare Emission Point, P-3	Other:	

1346 Event Description: The North Flare (S-19) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 8/26/2024 during the 22:00 15-minute period and 8/27/2024 during 00:45:00 15-minute period.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Process unit upsets, imbalance of steam and flare flow.

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 200640;200640 NOV:

BAAQMD Title V Permit
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Title V deviations for the reporting period are summarized below:

Event Starte 9/1/2024 12:00 AM Stoppec 9/4/2024 11:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:		Permit:	Standard Condition I.F
Abatement Device:		AQMD:	
Emission Point:		Other:	

1347 Event Description: July 2024 30-day Title V Deviation Report was signed by the Responsible Official on 8/28/24, but was submitted late on 9/4/24.

Probable Cause: Inadvertent late reporting.

Corrective actions or preventative steps taken: Report submitted along with deviation report.

Episode ID #: NOV:

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Title V deviations for the reporting period are summarized below:

Event Starte 9/18/2024 1:00 PM Stoppec 9/18/2024 1:00 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S19-North Flare, ST-2103	Permit:	
Abatement Device:		AQMD:	6-1-301
Emission Point:	P3-North Flare Emission Point, P-3	Other:	

1350 Event Description: On September 18, 2024, Valero Benicia Refinery received an NOV (62570) from the BAAQMD. The NOV was issued for visible emissions during the flaring event on 8/21/24 at the North Flare.

Probable Cause: On September 18, 2024, Valero Benicia Refinery received an NOV (62570) from the BAAQMD. The NOV was issued for visible emissions during the flaring event on 8/21/24 at the North Flare.

Corrective actions or preventative steps taken: On September 18, 2024, Valero Benicia Refinery received an NOV (62570) from the BAAQMD. The NOV was issued for visible emissions during the flaring event on 8/21/24 at the North Flare.

Episode ID #: NOV: 62570

BAAQMD Title V Permit
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Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 9/23/2024 12:00 PM Stoppec 9/23/2024 12:00 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S6-Coker Burner, R-902	Permit:	
Abatement Device:		AQMD:	Reg. 6-1-301
Emission Point:		Other:	

1352 Event Description: Amended 10/24/2024: This deviation has been withdrawn. NOV 62168 is included with deviation #1337. On September 23, 2024, Valero Benicia Refinery received an NOV (62168) from the BAAQMD. The NOV was issued for visible emissions from stack A-1047 greater than 20% opacity.

On September 23, 2024, Valero Benicia Refinery received an NOV (62168) from the BAAQMD. The NOV was issued for visible emissions from stack A-1047 greater than 20% opacity.

Probable Cause: On September 23, 2024, Valero Benicia Refinery received an NOV (62168) from the BAAQMD. The NOV was issued for visible emissions from stack A-1047 greater than 20% opacity.

Corrective actions or preventative steps taken: On September 23, 2024, Valero Benicia Refinery received an NOV (62168) from the BAAQMD. The NOV was issued for visible emissions from stack A-1047 greater than 20% opacity.

Episode ID #: NOV:

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Title V deviations for the reporting period are summarized below:

Event Starte 10/1/2024 12:00 AM Stoppec 10/1/2024 12:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S220-Hot Oil Furnace, F-4460; S21-Hydrogen Reformer Furnace, F-301; S22-Hydrogen Reformer Furnace, F-351; S237-Boiler, SG-1032	Permit:	25342, Part 2d
Abatement Device:		AQMD:	
Emission Point:		Other:	

1353 Event Description: The total reduced sulfur (TRS) concentration in refinery fuel gas exceeded the 51 ppmvd rolling four-quarter average limit in 3Q2024. The average concentration during this period was 74 ppm.

Probable Cause: FCCU Shutdown in 1Q24 and FCCU shutdown in 3Q24.

Corrective actions or preventative steps taken: FCCU start up

Episode ID #: 200727 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/8/2024 11:13 AM Stoppec 10/8/2024 12:50 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1010-Hydrogen Production Facilities	Permit:	276099 Part 1
Abatement Device:		AQMD:	Reg 8-2-301
Emission Point:	P1010-ST-302	Other:	

1354 Event Description: On 10/8/2024, while attempting to swap hydrogen compressors, P017 valve opened intermittently from 11:13 AM to 12:50 PM. P017 was open for a total of 13 minutes. A total of 23 lbs of carbon was released to the atmosphere. A project has been underway to address releases from this vent during startup, shutdown and process upsets.

Probable Cause: 1900# Hydrogen Grid instability caused by swapping compressors.

Corrective actions or preventative steps taken: Hydrogen Grid pressure stabilized. Stopped compressor swap.

Episode ID #: 200749 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/6/2024 6:00 PM Stoppec 10/8/2024 2:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:		Permit:	Condition #26960, Part 1
Abatement Device:	A13-Vapor Recovery Compressor Flare Gas Recovery Header	AQMD:	
Emission Point:		Other:	

1355 Event Description: At 6:00pm on 10/6/2024, the volume of recovered gas processed at flare gas compressor C-2101A exceeded the 6,000,000 scf 24-hr limit. Limit exceedance continued until 10/8/2024 at 2:00am. This is being filed as an excess only, as these limits are not currently in the Title V.

Probable Cause: Process upsets during SD activity.

Corrective actions or preventative steps taken: Flow to FGR compressor came down as SD activities completed.

Episode ID #: NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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3400 East Second Street
Benicia, CA 945101097

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3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/8/2024 10:00 AM Stoppec 3/30/2024 2:00 AM ☐ Ongoing Event

		May have resulted in a violation of:	
Source Number:		Permit:	Condition #26960, Part 1
Abatement Device:	A13-Vapor Recovery Compressor Flare Gas Recovery Header	AQMD:	
Emission Point:		Other:	

1356 Event Description: During a records review, it was discovered that at 10:00am on 3/29/2024, the volume of recovered gas processed at flare gas compressor C-2101A exceeded the 6,000,000 scf 24-hr limit. Limit exceedance continued until 3/30/2024 at 2:00am. This is being filed as an excess only, as these limits are not currently in the Title V. Note: late reporting.

Probable Cause: Process upsets related to SD activity.

Corrective actions or preventative steps taken: Flare gas compressor volume reduced as SD activities ended.

Episode ID #: NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

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Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/7/2024 9:15 PM Stoppec 10/7/2024 9:30 PM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:	S19-North Flare, ST-2103	Permit:	
Abatement Device:		AQMD:	
Emission Point:	P3-North Flare Emission Point, P-3	Other:	40 CFR 63.670(e)

1357 Event Description: The North Flare (S-19) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 10/7/2024 during the 15-minute block from 21:15 to 21:30.

Probable Cause: Process unit shutdown, imbalance of steam and flare flow.

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 200748 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/10/2024 10:00 PM Stoppec 10/11/2024 1:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1030-Combustion Turbine Generator, GT-4901; S1031-Heat Recovery Steam Generator, SG-4901	Permit:	19177-19d
Abatement Device:	A61-CO Oxidizing Catalyst System	AQMD:	
Emission Point:	P60-Cogen Stack GT/SG-4901	Other:	

1358 Event Description: Cogen CO emissions excess. CO 3-clock hour average concentration-based emissions excess occurred on 10/10 at 22:00 and ended at 10/11 at 1:00. 3-hr avg limit is 6 ppm. The average during the event 7.8 ppm.

Probable Cause: Plugging issues at compressors led to CO excess.

Corrective actions or preventative steps taken: Compressor was shutdown. Developing plan to unplugg filters. GT runing at reduced rates to lower CO.

Episode ID #: 200752 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/11/2024 2:51 PM Stoppec 10/14/2024 4:59 PM ☐ Ongoing Event

			May have resulted in a violation of:
Source Number:		Permit:	24198, Part 17
Abatement Device:		AQMD:	6-1-302; SIP 6-302
Emission Point:	P69-FCCU/CKR Dumpstack	Other:	

1359 Event Description: On 10/11/2024, the FCCU water seal at the dumpstack (P-69) was drained per startup procedures in order to remove the FCCU unit blind for startup in a safe manner. The seal was reestablished on 10/14/24 at 17:00 hrs. This excess is being submitted pursuant to Condition 24198, Part 17.

Probable Cause: The water seal was drained in order to remove the FCCU unit blind per startup procedures.

Corrective actions or preventative steps taken: The water seal was reestablished as soon as possible.

Episode ID #: 200761 NOV: 61870

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/11/2024 Stoppec 10/11/2024 ☐ Ongoing Event

		May have resulted in a violation of:	
Source Number:	S6-Coker Burner, R-902	Permit:	24198.15
Abatement Device:		AQMD:	2-1-320
Emission Point:	P1059-FGS Stack ST-5601	Other:	

1360 Event Description: On October 11, 2024, Valero Benicia Refinery received an NOV (62172) from the BAAQMD. The NOV was issued for violation of PC 24198.15 - Continuous opacity monitor or AMP required to operate Coker. Failure to operate Coker Unit as stated in application. Valero does not agree with this NOV and has filed a 10-day response.

Probable Cause: On October 11, 2024, Valero Benicia Refinery received an NOV (62172) from the BAAQMD. The NOV was issued for violation of PC 24198.15 - Continuous opacity monitor or AMP required to operate Coker. Failure to operate Coker Unit as stated in application. Valero does not agree with this NOV and will be filing a 10-day response.

Corrective actions or preventative steps taken: On October 11, 2024, Valero Benicia Refinery received an NOV (62172) from the BAAQMD. The NOV was issued for violation of PC 24198.15 - Continuous opacity monitor or AMP required to operate Coker. Failure to operate Coker Unit as stated in application. Valero does not agree with this NOV and will be filing a 10-day response.

Episode ID #: NOV: 62172

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/17/2024 8:00 AM Stoppec 10/19/2024 10:21 PM ☐ Ongoing Event

		May have resulted in a violation of:	
Source Number:		Permit:	24198, Part 17
Abatement Device:		AQMD:	6-1-302; SIP 6-302
Emission Point:	P69-FCCU/CKR Dumpstack	Other:	

1361 Event Description: On 10/17/2024 at 08:00 hrs, the FCCU water seal at the dumpstack (P-69) was drained per FCCU startup procedures. The seal was reestablished on 10/19/24 at 22:21 hrs. This excess is being submitted pursuant to Condition 24198, Part 17.

Probable Cause: The water seal was drained in order to remove the FCCU unit blind per startup procedures.

Corrective actions or preventative steps taken: The water seal was reestablished as soon as possible.

Episode ID #: 200762 NOV: 62177; 61860

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/21/2024 7:15 PM Stoppec 10/22/2024 12:45 AM ☐ Ongoing Event

		May have resulted in a violation of:	
Source Number:	S18-South Flare, ST-2101; S19-North Flare, ST-2103	Permit:	
Abatement Device:		AQMD:	
Emission Point:		Other:	NESHAP 40 CFR 63.670 (e)

1362 Event Description: The North Flare (S-19) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 10/21/2024 during the 19:15, 19:30, 19:45, and 20:00 15-minute periods.

Additionally, the South Flare (S-18) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 10/22/2024 during the 0:00 15-minute period.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Process unit upsets related to SU, imbalance of steam and flare flow.

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 200776;200776;200776;200776;200776 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/22/2024 2:00 AM Stoppec 10/22/2024 6:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S45-Process Gas Turbine, GT-702; S37-Waste Heat Boiler, SG-702	Permit:	Condition 16386
Abatement Device:		AQMD:	
Emission Point:		Other:	

1364 Event Description: On 10/22/2024, GT/SG-702 exceeded the 3-hr average 9ppm NOX limit from 2:00am-6:00am.

Probable Cause: SU activity at FCCU.

Corrective actions or preventative steps taken: Process normalization after feed into FCCU.

Episode ID #: 200777 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/24/2024 10:15 AM Stoppec 10/24/2024 10:22 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S1030-Combustion Turbine Generator, GT-4901; S1031-Heat Recovery Steam Generator, SG-4901	Permit:	19177.18a.1
Abatement Device:		AQMD:	
Emission Point:		Other:	

1365 Event Description: Amended: DEVIATION AND EXCESS report WITHDRAWN. NOT AN EXCESS OR DEVIATION. On 10/24/24, the GT-4901/SG-4901 NOx analyzer detected an excess. The NOx 1hr average of 2.5 ppm was exceeded between 10:14 and 10:22 on 10/24.

Probable Cause: C-4902 was starting and ROTO was checking the outboard axial bearing ball on the equipment.

Corrective actions or preventative steps taken: Review of calculation process and standardized the unit oncall apreadsheet. Followup data submitted to BAAQMD.

Episode ID #: 200778 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/23/2024 12:40 PM Stoppec 10/23/2024 1:05 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S5-FCCU Regenerator, R-702; S6-Coker Burner, R-902	Permit:	
Abatement Device:	A1047-Flue Gas Scrubber (Belco & Cansolv); A1059-Flue Gas Scrubber SCR	AQMD:	6-1-301
Emission Point:	P1059-FGS Stack ST-5601	Other:	

1366 Event Description: A visible emissions evaluation was conducted and determined an excess of Ringelmann No. 1 Limitations occurred at the Flue Gas Scrubber Stack. Valero's opacity monitors are parametric and did not register any excess emissions or opacity.

Probable Cause: Process normalization from unit startup activities.

Corrective actions or preventative steps taken: Unit startup completed and operations normalized.

Episode ID #: NOV: 63879

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 10/24/2024 4:30 PM Stoppec 10/24/2024 4:55 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S5-FCCU Regenerator, R-702; S6-Coker Burner, R-902	Permit:	
Abatement Device:	A1047-Flue Gas Scrubber (Belco & Cansolv)	AQMD:	6-1-301
Emission Point:	P1059-FGS Stack ST-5601	Other:	

1367 Event Description: A visible emissions evaluation was conducted and determined an excess of Ringelmann No. 1 Limitations occurred at the Flue Gas Scrubber Stack. Valero's opacity monitors are parametric and did not register any excess emissions or opacity.

Probable Cause: Process normalization from unit startup activities.

Corrective actions or preventative steps taken: Unit startup completed and operations normalized.

Episode ID #: NOV: 61859

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 11/3/2024 12:00 AM Stoppec 11/4/2024 12:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S24-Process Furnace, Cat Feed Hydrofining, F-601	Permit:	26250.1
Abatement Device:		AQMD:	9-10-305
Emission Point:		Other:	

1375 Event Description: Amended 11/22/24: DEVIATION AND EXCESS report WITHDRAWN. NOT AN EXCESS OR DEVIATION. F-601 exceeded the 400 ppmv CO calendar day average limit on 11/3/2024. The average concentration during this period was 412ppm.

Probable Cause:

Corrective actions or preventative steps taken:

Episode ID #: 200790 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 11/4/2024 6:00 PM Stoppec 11/4/2024 9:00 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S37-Waste Heat Boiler, SG-702; S45-Process Gas Turbine, GT-702	Permit:	16386.1
Abatement Device:		AQMD:	
Emission Point:		Other:	

1376 Event Description: On 11/4/2024, GT/SG-702 exceeded the 9 ppm NOX limit from 6:00-9:00pm. The average concentration during this period was 14.4 PPM.

Probable Cause: Process upsets related to SU activity.

Corrective actions or preventative steps taken: SG-702 ammonia injection adjusted and NOX reduced.

Episode ID #: 200791 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 9/23/2024 9:32 AM Stoppec 10/18/2024 4:21 PM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S6-Coker Burner, R-902	Permit:	
Abatement Device:	A1059-Flue Gas Scrubber SCR	AQMD:	6-1-301
Emission Point:	P1059-FGS Stack ST-5601	Other:	

1384 Event Description: See associated deviation number 1337. BAAQMD conducted visible emissions evaluations and determined an excess of Ringelmann No. 1 and opacity >20% at the Flue Gas Scrubber on the dates and times listed below:
9/23/24 at approximately 9:32 – 9:57 (NOV 62168)
9/27/24 at approximately 12:00 – 12:25 (NOV 62571)
9/30/24 at approx. 10:02 – 10:27 (NOV 62572)
10/1/2024 at approx. 10:50 – 11:15 (NOV 62169)
10/2/24 at approx. 9:11 – 9:36 (NOV 62573)
10/3/24 at approx. 9:55 – 10:20 (NOV 62574)
10/7/24 at approx. 9:25 – 9:50 (NOV 62575)
10/8/24 at approx. 10:12 – 10:37 (NOV 62170)
10/9/24 at approx. 15:03 – 15:28 (NOV 62576)
10/10/24 at approx. 11:30-11:55 (NOV 62171)
10/11/2024 at approx. 15:23 – 15:48 (NOV 62173)
10/15/24 at approx. 14:14 – 14:34 (NOV 62174)
10/16/24 at approx. 15:43 - 16:08 (NOV 62175)

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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Benicia, CA 945101097

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3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

10/17/24 at approx. 15:53 – 16:18 (NOV 62176)
10/18/24 at approx. 15:56 - 16:21 (NOV 63878)

Probable Cause: The Coker and the FCCU were intermittently shut down. It is not possible to meet this hourly parametric limit when not running both units at normal rates. This hourly parametric limit was established during a performance test conducted when both the FCCU and Coker units were running at normal rates.

Corrective actions or preventative steps taken: It is not possible to meet this hourly parametric limit when not running both units at normal rates. This hourly parametric limit was established during a performance test conducted when both the FCCU and Coker units were running at normal rates.

Episode ID #: NOV: 62571; 62572; 62168; 62169; 62574; 62575; 62573; 62170; 62171; 62173; 62174; 62175; 62176; 63878; 62576

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

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3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 12/18/2024 8:45 AM Stoppec 12/18/2024 9:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:	S19-North Flare, ST-2103	Permit:	
Abatement Device:		AQMD:	
Emission Point:	P3-North Flare Emission Point, P-3	Other:	40 CFR 63.670(e)

1386 Event Description: The North Flare (S-19) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 12/18/2024 during the 08:45 15-minute period. The NHV during this period was 263 BTU/scf.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Imbalance of steam and flare flow

Corrective actions or preventative steps taken: Used advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 200866 NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B2626 **Valero Benicia Refinery**

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

33 deviations for this time period.

Certification Statement

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

x Lauren K. Bird	Lauren Bird	Vice President and General Manager	28 January 2025
Signature of Responsible Official	Print Name	Title	Date

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

A0901 Valero Benicia Asphalt Plant

Facility Address:
3001 Park Road
Benicia, CA 94510

Mailing Address:
3001 Park Road
Benicia, CA 94510

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 9/1/2024 12:00 AM Stoppec 9/4/2024 11:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:		Permit:	Standard Condition I.F
Abatement Device:		AQMD:	
Emission Point:		Other:	

1349 Event Description: July 2024 30-day Title V Deviation Report was signed by the Responsible Official on 8/28/24, but was submitted late on 9/4/24.

Probable Cause: Inadvertent late submittal.

Corrective actions or preventative steps taken: Report submitted.

Episode ID #: NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

A0901 **Valero Benicia Asphalt Plant**

Facility Address:
3001 Park Road
Benicia, CA 94510

Mailing Address:
3001 Park Road
Benicia, CA 94510

Contact: Taryn Goodwin | Title: Manager - Environmental Engineering | Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

One deviation for this time period.

Certification Statement

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

x Lauren K. Bird	Lauren Bird	Vice President and General Manager	28 January 2025
Signature of Responsible Official	Print Name	Title	Date

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B5574 **Nustar Logistics**

Facility Address:
3400 East Second Street
Benicia, CA 94510

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Starte 9/1/2024 12:00 AM Stoppec 9/4/2024 11:00 AM ☐ Ongoing Event

May have resulted in a violation of:

Source Number:		Permit:	Standard Condition I.F
Abatement Device:		AQMD:	
Emission Point:		Other:	

1348 Event Description: July 2024 30-day Title V Deviation Report was signed by the Responsible Official on 8/28/24, but was submitted late on 9/4/24.

Probable Cause: Inadvertent late reporting.

Corrective actions or preventative steps taken: Report submitted.

Episode ID #: NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2024 to 12/31/2024

B5574 **Nustar Logistics**

Facility Address:
3400 East Second Street
Benicia, CA 94510

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin | Title: Manager - Environmental Engineering | Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

One deviation for this time period.

Certification Statement

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

x Lauren K. Bird	Lauren Bird	Vice President and General Manager	28 January 2025
Signature of Responsible Official	Print Name	Title	Date

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

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

	CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
Ref: 1363 Event Started: 10/23/2024 12:31 PM Stopped: 10/24/2024 3:30 PM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ref: 1369 Event Started: 10/29/2024 9:57 AM Stopped: 10/30/2024 4:01 PM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ref: 1371 Event Started: 10/30/2024 9:38 AM Stopped: 10/30/2024 10:24 AM ☑ Has Stopped	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
Ref: 1372 Event Started: 11/1/2024 7:14 AM Stopped: 11/4/2024 10:03 AM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Ref: 1363
Source Number: S23-Gas Oil Hydrocracking, F-401
Abatement Device:
Emission Point:
Event Description: F-401 NOX and O2 monitors were inoperative >24 hrs on 10/23/2024 at 12:31pm. Monitors were inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. Monitors became operative again on 10/24/2024 at 3:30PM.

Ref: 1369
Source Number: S21-Hydrogen Reformer Furnace, F-301
Abatement Device:
Emission Point:
Event Description: F-301 NOX and O2 monitors became inoperative >24 hrs on 10/29/2024 at 9:57 AM. Monitors are inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. The analyzer was placed back in service on 10/30/2024 4:01 PM.

Ref: 1371
Source Number: S5-FCCU Regenerator, R-702
Abatement Device:
Emission Point:
Event Description: Regenerator primary cyclone Inlet temperature and the regenerator secondary cyclone oulet temperature instrument became inoperative for greater than 24 hours on 10/30/2024 at 9:38 AM. The instrument lost connection with the DCS due to a multiplexer error.

Ref: 1372
Source Number: S21-Hydrogen Reformer Furnace, F-301
Abatement Device:
Emission Point:
Event Description: F-301 NOX and O2 monitors became inoperative >24 hrs on 11/01/2024 at 07:14 AM. Monitors are inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. Monitor became inoperative due to program troubleshooting on PLC. The analyzer was placed back in service on 11/4/2024 at 10:03 AM.

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

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

	CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
Ref: 1377 Event Started: 11/13/2024 6:30 AM Stopped: 11/13/2024 11:15 AM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S1030-Combustion Turbine Generator, GT-4901; S1031-Heat Recovery Steam Generator, SG-4901
Abatement Device:
Emission Point:

Event Description: The Cogen NOx analyzer became inoperative >24hrs on 11/13/2024 at 06:30 AM. Analyzer was re-calibrated and passed validation on 11/13/2024 at 11:15 AM.

Ref: 1378 Event Started: 11/15/2024 9:48 AM Stopped: 11/15/2024 11:25 AM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S45-Process Gas Turbine, GT-702
Abatement Device:
Emission Point:

Event Description: SG/GT-702 NOx and O2 monitors became inoperative >24 hrs on 11/15/2024 at 9:48 AM. Monitors are inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. Analyzers came back online on 11/15/2024 at 11:25AM.

Ref: 1379 Event Started: 11/19/2024 12:42 PM Stopped: 11/19/2024 5:20 PM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S22-Hydrogen Reformer Furnace, F-351
Abatement Device:
Emission Point:

Event Description: F-351 Nox and O2 monitors became inoperative >24 hrs on 11/19/2024 at 12:42 PM. Monitors are inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. The analyzer was placed back into service on 11/19/2024 at 5:20 PM.

Ref: 1380 Event Started: 11/19/2024 12:49 PM Stopped: 12/3/2024 10:30 AM ☑ Has Stopped	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S41-Steam Generator, SG-2302
Abatement Device:
Emission Point:

Event Description: SG-2302 NOx monitor became inoperative >24 hrs on 11/19/2024 at 12:49 PM. SG-2302 was affected by maintenance to re-range SG-2301. Monitor is inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. Maintenance was completed and analyzer came back online 12/3/2024.

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

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

	CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
Ref: 1381 Event Started: 11/20/2024 10:01 AM Stopped: 11/20/2024 2:00 PM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S21-Hydrogen Reformer Furnace, F-301
Abatement Device:
Emission Point:

Event Description: F-301 NOX and O2 monitors became inoperative >24 hrs on 11/20/2024 at 10:01 AM. Monitors are inoperative as part of necessary maintenance to re-range analyzer as mandated by BAAQMD. Monitor became inoperative due to troubleshooting for the installation of new PLC program. The analyzer was placed back in service on 11/20/2024 at 2:00 PM.

Ref: 1382 Event Started: 11/22/2024 9:56 AM Stopped: 12/3/2024 3:00 PM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S40-Steam Generator, SG-2301
Abatement Device:
Emission Point:

Event Description: SG-2301 NOx and O2 monitor became inoperative >24 hrs on 11/22/2024 at 9:56 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD. Maintenance was completed and analyzer came back online 12/3/2024.

Ref: 1383 Event Started: 12/5/2024 8:01 AM Stopped: 1/20/2025 5:00 PM ☑ Has Stopped	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Source Number: S237-Boiler, SG-1032
Abatement Device:
Emission Point:

Event Description: Amendment 01/27/2025: SG-1032 NOx and O2 monitor became inoperative >24 hrs on 12/05/2024 at 08:01 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD.This monitor was placed back in service on 01/20/2025 at 17:00 after a passing RATA.

Amendment 1/9/2025: SG-1032 NOx and O2 monitor became inoperative >24 hrs on 12/05/2024 at 08:01 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD. As directed by Air District staff, monitor is inoperative until completion of RATA, which we are actively working to get scheduled as soon as possible.

AMENDMENT 12/12/2024: This analyzer was returned to service 12/12/2024 11:00 AM.

SG-1032 Nox and O2 monitor became inoperative >24 hrs on 12/05/2024 at 08:01 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD.

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

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

CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
☑	☐	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Ref: 1385 Event Started: 12/11/2024 8:32 AM Stopped: _____ ☐ Has Stopped

Source Number: S247-Reactor Charge Heater, ULSD Unit, F-5401; S248-Stripper Reboiler Heater, ULSD Unit, F-5402

Abatement Device:

Emission Point:

Event Description: Amendment 1/22/2025: F-5401/2 NOx, CO, and O2 monitor became inoperative >24 hrs on 12/11/2024 at 8:32 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD. As directed by Air District staff, monitor is inoperative until completion of RATA, which we are actively working to get scheduled as soon as possible.

Amendment 1/9/2025: F-5401/2 NOx, CO, and O2 monitor became inoperative >24 hrs on 12/12/2024 at 8:32 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD. As directed by Air District staff, monitor is inoperative until completion of RATA, which we are actively working to get scheduled as soon as possible.

F-5401/2 NOx, CO, and O2 monitor became inoperative >24 hrs on 12/12/2024 at 8:32 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD.
Maintenance was completed and analyzer came back online 12/23/2024.

CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Ref: 1387 Event Started: 12/23/2024 6:30 AM Stopped: 12/23/2024 11:00 AM ☑ Has Stopped

Source Number: S1-Acid Gas Burner, F-1301A; S2-Acid Gas Burner, F-1301B

Abatement Device: A24-Tail Gas Hydrogenation Unit on SGU A/B Trains (Beavon Section), preparing tail gas for A-56; A56-Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section)

Emission Point:

Event Description: Flexsorb CS2 high validation failed 12/22/2024 at 6:30 AM, the analyzer became inoperative for >24 hours on 12/23/2024 at 6:31 AM. The analyzer was re-calibrated and passed on 12/23/2024 at 11:00 AM.

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

B2626 Valero Benicia Refinery

Facility Address:
3400 East Second Street
Benicia, CA 945101097

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

13 inoperable monitors for this time period.

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:	CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.

Certification Statement

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

x	Lauren Bird	Vice President and General Manager	28 January 2025
Signature of Responsible Official	Print Name	Title	Date

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

A0901 **Valero Benicia Asphalt Plant**

Facility Address:
3001 Park Road
Benicia, CA 94510

Mailing Address:
3001 Park Road
Benicia, CA 94510

One inoperable monitor for this time period.

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

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

CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
☑	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Ref: 1351 Event Started: 9/21/2024 3:15 AM Stopped: 9/22/2024 12:36 PM ☑ Has Stopped

Source Number: A31-Thermal Oxidizer (A31/F4607)
Abatement Device:
Emission Point:

Event Description: BAP H2S Analyzer was inoperative for greater than 24 hours on 09/22/2024 at 03:15. There was a communication error from the analyzer to the PLC from 03:15 on 09/21/2024 to 12:36 on 09/22/2024.

Certification Statement

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

x Signature of Responsible Official	Lauren Bird Print Name	Vice President and General Manager Title	28 January 2025 Date

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2024 to 12/31/2024

B5574 Nustar Logistics

Facility Address:
3400 East Second Street
Benicia, CA 94510

Mailing Address:
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

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

No Inoperable Monitors for this time period.

Certification Statement

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

x Laura K. Bird	Lauren Bird	Vice President and General Manager	28 January 2025
Signature of Responsible Official	Print Name	Title	Date

Friday, January 17, 2025