

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

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AY AREA AIR DUALITY

AN AGEMENT DISTRICT

Mr. Jeff Gove Director Of Compliance and Enforcement Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105 July 22, 2019

Refinery & Asphalt Plant June 2019 30-day Title V Deviation Report Monitoring Report for January 2019-June 2019

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 30-day deviation reports summarizing June 2019 Title V deviations at all three facilities. Also 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 707-745-7361 if you have any questions or need further information,

Sincerely,

Olivia D. Thomas Environmental Engineer

una D. Thomas

ODT/tac

**Enclosures** 

Document # 26286

### BAAQMD Title V Permit 6 Month Monitoring Report

From 1/1/2019 to 6/30/2019

A0901 Valero Benicia Aspha	IL Plant	
Facility Address:	Mailing Address:	
3001 Park Road	3001 Park Road	
Benicia, CA 94510	Benicia, CA 94510	
Contact: Kim Ronan	Title: Manager - Environmental Engineering	Phone: (707) 745-7990

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 Smald Cuil	Donald C. Wilson	Vice President and General Manager	7/22/19
Signature of Responsible Official	Print Name	Title	Date

From 1/1/2019 to 6/30/2019

B5574 Valero Benicia Refinery

**Facility Address:** 

3400 East Second Street Benicia, CA 94510

Contact: Kim Ronan

Mailing Address:

3400 East Second Street Benicia, CA 945101097

Title: Manager - Environmental Engineering

Phone: (707) 745-7990

Title V deviations for the reporting period are summarized below:

# No 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 Imade in Donald C. Wilson Vice President and General Manager 7-7z-19
Signature of Responsible Official Print Name Title Date

#### BAAQMD Title V Permit 6 Month Monitoring Report

From 1/1/2019 to 6/30/2019

B5574 Valero Benicia Refiner	γ
Facility Address:	Mailing Address:
3400 East Second Street	3400 East Second Street
Benicia, CA 94510	Benicia, CA 945101097
Contact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-7990

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 Smad Cutl	Donald C. Wilson	Vice President and General Manager	7-22-19
Signature of Responsible Official	Print Name	Title	Date

From 1/1/2019 to 6/30/2019

B2626	Valero Benicia Refinery				
Facility Ad	dress:	Maili	ng Addre	ess:	
3400 E	ast Second Street	3400 Eas			t
Benicia	, CA 945101097	Benicia, CA 945101097			
Cont	act: Kim Ronan	Title: Manager - Environme	ntal Engir	neering	Phone: (707) 745-7990
Title V deviations fo	r the reporting period are summarized below:				
Event Started: 1	2/14/2015 12:00 AM Stopped:	Ongoing Event			
				May have res	sulted in a violation of:
Source Number	: S1010-Hydrogen Production Facilities		Permit:		
Abatement Device			0.00 0000000000000000000000000000000000	8-2-301	
Emission Point	:		Other:		
1073 Event Descr	iption: The BAAQMD determined there are exc Catalytic Reformer (NRU).	essive continuous POC emissions f	rom the h	ydrogen vent	(H2P017). These emissions are attributed to the
Probable	Cause: Hydrogen plant configuration				
Corrective acti preventative steps	ons or Ongoing; remedies being investigated taken:				
Episod	le ID #:		NOV:	58465	

Dev. #5432 (submitted 4/19/19)

From 1/1/2019 to 6/30/2019

B2626	Valero Benicia Refiner	<b>ry</b>		
Facility A	Address:	Mailing	Addre	ss:
3400	East Second Street	3400	East S	econd Street
Benici	ia, CA 945101097	Benic	cia, CA	945101097
Con	tact: Kim Ronan	Title: Manager - Environmenta	al Engin	eering Phone: (707) 745-7990
tle V deviations j	for the reporting period are summari	zed below:		
Event Started:	8/1/2017 12:00 AM Stopped:	5/24/2019 12:00 PM Ongoing Event		
				May have resulted in a violation of:
Source Number	er: S265-Gasoline Dispensing Facility	(GDF) P	Permit:	
Abatement Devic	ce:	A	AQMD:	8-7-301.2
<b>Emission Poir</b>	nt:		Other:	CARB EO-VR302G
1064 Event Des	cription: AMENDED (7/19/19): BAAC	QMD alleges that the Convault AST is not painted w	with CAF	RB Certified Standing Loss Control Paint
1004 EVENT DES		BAAQMD determination regarding the standing loss		
		s not list the model and serial number purchased.		
# 5388	This installation was appro-	ved and permitted by the BAAQMD prior to purcha	ase, cor	nstruction and installation. The permit application fully
11	disclosed the equipment sp	pecifications (attached). The installation has the O	riginal E	Equipment Manufacturer (OEM) coating that meets stan

(submitted 3/25/19)

loss control standards,

Valero has contacted the manufacturer / distributor who has determined that there was a mistake in the CARB EO VR-302G (and several previous versions) resulting in a typographical error or missing serial number options listed in the ConVault appendix table.

It was the intent of CARB Executive Order to include all ConVault ASTs. As the vendor stated to Chris Thompson (CThompson@baaqmd.gov) in a phone call and email,

"If you look at VR-302-C, [a superseded version of the EO], ....CARB has changed the format of the page with the example model numbers. In the process of changing the format and issuing a new EO, they inadvertently change the allowable model numbers." The typographical error went undetected until now.

From 1/1/2019 to 6/30/2019

Valero Benicia Refinery B2626

**Facility Address:** 

3400 East Second Street Benicia, CA 945101097

Mailing Address:

3400 East Second Street Benicia, CA 945101097

Contact: Kim Ronan Title: Manager - Environmental Engineering Phone: (707) 745-7990

Title V deviations for the reporting period are summarized below:

Valero agrees with the manufacturer's determination.

The manufacturer has contacted George Lew at CARB and is awaiting a response. The Manufacturer will be requesting a letter modifying the EO to include all serial numbers.

Valero submitted a copy of the NOV, the picture of the tank UL Label, and the two pages of VR-302 as referred.

Valero, BAAQMD and ConVault worked diligently together to select the equipment such that it complied with all regulatory requirements. Valero believes that recoating the tank with second coating that duplicates the existing Standing Loss Control Paint would be creating more emissions from the paint application on a brand new tank solely for the goal of mitigating a typographical error.

Valero and ConVault will continue to pursue administrative remedies with CARB to correct this situation

Probable Cause: CARB Executive Order does not list the model and serial number purchased. Possible typo error by CARB.

This installation was approved and permitted by the BAAQMD prior to purchase, construction and installation. The permit application fully disclosed the equipment specifications (attached). The installation has the Original Equipment Manufacturer (OEM) coating that meets standing loss control standards,

Valero has contacted the manufacturer / distributor who has determined that there was a mistake in the CARB EO VR-302G (and several previous versions) resulting in a typographical error or missing serial number options listed in the ConVault appendix table.

It was the intent of CARB Executive Order to include all ConVault ASTs. As the vendor stated to Chris Thompson (CThompson@baaqmd.gov) in a

Monday, July 22, 2019 Page 3 of 22

From 1/1/2019 to 6/30/2019

B2626 Valero Benicia Refinery

**Facility Address:** 

3400 East Second Street Benicia, CA 945101097 Mailing Address:

3400 East Second Street Benicia, CA 945101097

Contact: Kim Ronan

Title: Manager - Environmental Engineering

Phone: (707) 745-7990

Title V deviations for the reporting period are summarized below:

phone call and email,

"If you look at VR-302-C, [a superseded version of the EO], ....CARB has changed the format of the page with the example model numbers. In the process of changing the format and issuing a new EO, they inadvertently change the allowable model numbers." The typographical error went undetected until now.

Valero agrees with the manufacturer's determination.

The manufacturer has contacted George Lew at CARB and is awaiting a response. The Manufacturer will be requesting a letter modifying the EO to include all serial numbers.

Valero submitted a copy of the NOV, the picture of the tank UL Label, and the two pages of VR-302 as referred.

Valero, BAAQMD and ConVault worked diligently together to select the equipment such that it complied with all regulatory requirements. Valero believes that recoating the tank with second coating that duplicates the existing Standing Loss Control Paint would be creating more emissions from the paint application on a brand new tank solely for the goal of mitigating a typographical error.

Valero and ConVault will continue to pursue administrative remedies with CARB to correct this situation

Corrective actions or <u>Tank was repainted with approved paint.</u> preventative steps taken:

Episode ID #:

NOV: 59038

Monday, July 22, 2019 Page 4 of 22

B2626	Valero Benicia Refinery					
Facility	Address:	Mail	ing Addre	ss:		
	0 East Second Street	3400 East Second Street Benicia, CA 945101097				
Ber	licia, CA 945101097	В	enicia, CA	94510109		
C	ontact: Kim Ronan	Title: Manager - Environme	ental Engir	neering	Phone: (707) 745-7990	
Title V deviation	ns for the reporting period are summarized	below:				
Event Started:	1/22/2019 12:00 PM Stopped: 2	2/27/2019 3:27 PM ☐ Ongoing Event				
				May have re	sulted in a violation of:	
Source Num	nber: unassigned-Tank, Refrigerated Butan	e Tank, TK-1726	Permit:			
Abatement De			-	8-5-306.2		
Emission P	oint:		Other:			
1062 Event D	escription: PV Vents on TK1726 exceeded	500ppm emission standard during BAAQM	D inspection	on on 1/22/20	<u>019.</u>	
Proba	able Cause: PV vents not gas tight.					
	_	e to obtain spare PV vents and to schedule 178144 (SV-17110), 178146 (SV-17111). A			o replace PV vents. LDAR tags: 178140 (SV- 27/2019.	
Ер	isode ID #:		NOV:	<u>58456</u>		
	Dev. # 5341 Contempted					
	Cantomittee	2/28/19)				

From 1/1/2019 to 6/30/2019

B2626	Valero Benicia Refinery					
Facility	Address:	Mailing Addre	ess:			
3400 East Second Street Benicia, CA 945101097		3400 East Second Street Benicia, CA 945101097				
Co	ntact: Kim Ronan	Title: Manager - Environmental Engi	neering	Phone: (707) 745-7990		
Title V deviation	for the reporting period are summarized below:					
Event Started:	1/22/2019 10:00 AM Stopped: 2/19/2019	11:28 AM Ongoing Event				
			May have resulte	ed in a violation of:		
	ber: S124-Tank, TK-1735	Permit:	0.5.206.2			
Abatement Dev			8-5-306.2			
Emission Po	scription: <u>PV Vents on TK1735 exceeded 500ppm e</u>	Other:				
Proba	ole Cause: PV vents not gas tight.					
	eps taken: 1705A) and 184313 (SV-1705B). Repair of		r and crane to rep	place PV vents. LDAR Tags: 184311 (SV-		
Epi	sode ID #:	NOV:	<u>58454</u>			

Dev. # 5340 (submitted 2/28/19)

B2626	Valero Benicia Refinery	
Facility	Address:	Mailing Address:
340	00 East Second Street	3400 East Second Street
Ber	nicia, CA 945101097	Benicia, CA 945101097
С	ontact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-7990
Title V deviation	ns for the reporting period are summarize	d below:
Event Started:	1/30/2019 12:00 PM Stopped:	1/30/2019 12:00 PM Ongoing Event  May have resulted in a violation of:
Source Nun	nber: REFFUG-Benicia Refinery Fugitives	Permit:
Abatement De	evice:	AQMD:
Emission P	oint:	Other: 40 CFR 60.482-7
1063 Event D	escription: 4Q2018 refinery fugitive devi	ation report includes: 5 valves were not monitored within 30 days of startup.
	Components were monitored	after discovery. All components were verified to be below the leak standard.
		263,000 components in its database. A healthy fugitive emissions program will self-audit to identify single items or ompliance. By identifying these outliers, program improvements can be achieved.
Proba	able Cause: Technician missed tagging th	e components during management of change process.
		after discovery. All components were verified to be below the leak standard. Routine auditing of the refinery ures, as well as program improvement projects are conducted.
Ер	pisode ID #:	NOV: <u>58455</u>
	De	N.#5350 Swbmitted 2/28/19)
		Submitted 2/28/19)

From 1/1/2019 to 6/30/2019

B2626	Valero Benicia Refinery			
Facility	Address:	Mailing A	Addres	ss:
3400	D East Second Street	3400 East Second Street		
Beni	cia, CA 945101097	Benicia, CA 945101097		
Co	ntact: Kim Ronan	Title: Manager - Environmenta	l Engin	eering Phone: (707) 745-7990
Source Num Abatement Dev Emission Po 1066 Event De Probal Corrective a	escription: AMENDED: PV vents on TK1726 excepted Cause: PV vents not gas tight. Inctions or Contacted Valero Maintenance to o	2019 1:04 PM Ongoing Event  1k, TK-1726 Po  eeded 500ppm emission standard during E  btain spare PV vents and to schedule man 8142 (SV-17109) repaired 6/25/19 13:04,	ermit: [ QMD: ] Other: [ BAAQM	and crane to replace PV vents. LDAR tags: 178140 (SV- (SV-17110) repaired 6/18/19 14:21, 178146 (SV-17111)

Dev. #5393 ( Swbmitted 4/19/19)

From 1/1/2019 to 6/30/2019

		110111 1/ 1/ 2010 10 0/ 00/ 1			
B2626	Valero Benicia Refine	ery			
Facility	Address:	Ma	iling Addre	ss:	
3400 East Second Street  Benicia, CA 945101097  Benicia, CA 945101097					
Co	ontact: Kim Ronan	Title: Manager - Environn	nental Engir	neering	Phone: (707) 745-7990
Title V deviation	s for the reporting period are summa	rized below:			
Event Started:	3/11/2019 4:41 PM Stopped:	3/24/2019 7:39 AM ☐ Ongoing Event		May have res	sulted in a violation of:
Source Num	nber: S5-FCCU Regenerator, R-702; S6	-Coker Burner, R-902	Permit:		
Abatement De	vice: A1047-Flue Gas Scrubber (Belco	& Cansolv); A1059-Flue Gas Scrubber SCR	AQMD:	6-1-301	
Emission P	oint: P1059-FGS Stack ST-5601		Other:		
1067 Event D	Scrubber Stack based on a Valero's opacity monitors  BAAQMD issued an NOV periods of more than three	BAAQMD determined that emissions occurred by an inspector. The parametric and did not register any excess for Visible Emissions from the Flue Gas Scrubber minutes in any hour, a visible emission that observer's view to an equivalent or greater deposition.	– s emissions o er Stack and is as dark or	or opacity. assigned it to	the S-5 FCCU Source for a period or aggregate
Proba		ace ("F-105") tube leaks led to the incomplete ture creep was the probable cause of the F-10!			subsequent elevated Flue Gas Scrubber carbon
	actions or Enhanced temperature meeps taken: operating procedure(s).	onitoring in additional areas of F-105; enhanc	ed process e	ngineering mo	onitoring for F-105 operations; updated Pipestill
Ер	isode ID #:		NOV:	58457; 58458	8; 58459; 58466; 58468; 5861 <u>0</u>
		Dev, #5412			

(SWAMitted 4/19/19)
Monday, July 22, 2019
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From 1/1/2019 to 6/30/2019

B2626	Valero Benicia Refinery				
Facility A	ddress: Ma	ling Addre	ess:		
3400	East Second Street	3400 East Second Street		3400 East Second Street	
Benici	Benicia, CA 945101097 Benicia, CA 945101097				
Con	tact: Kim Ronan Title: Manager - Environm	ental Engi	neering Phone: (707) 745-7990		
Title V deviations f	for the reporting period are summarized below:				
Event Started:	3/11/2019 12:00 AM Stopped: 3/24/2019 12:00 AM Ongoing Event				
			May have resulted in a violation of:		
Source Number	er: S5-FCCU Regenerator, R-702; S6-Coker Burner, R-902; S1059-CO Furnace F- 105; S1060-CO Furnace F-106	Permit:	20820, Part 63 & Part 68a		
Abatement Device	re:	AQMD:			
<b>Emission Poir</b>	nt: P1059-FGS Stack ST-5601	Other:	,		
1068 Event Des	cription: AMENDED (7/22/19): The Flue Gas Scrubber ST-5601 calendar day avera	ge CO 100	ppm limit was exceeded beginning on 3/12/19 at 12:00 AM		
`	and is still ongoing. The average for the event from 3/12/19 12:00 AM to	3/15/19 1	2:00 AM is 873 ppm CO (at 3% O2). An amendment to this		
*5401	report will be submitted when the event has stopped and the calendar of	lay average	is below 100 ppm.		
ON. #5401	AMENDED on 3/27/19:				
	The Deviation status changed to "stopped on 3/24/19 12:00 AM". The Fl	ue Gas Scri	ubber St-5601 calendar day average CO 100 nnm limit at 3% O3		
	was exceeded heginning on 3/11/19 at 12:00 AM to 3/24/12:00 AM. The				

**AMENDED 5/2/19:** 

After further review, the deviation is being amended to change the average concentration for the event. The average concentration for the event was 563 ppm CO @ 3% O2.

Probable Cause: Atmospheric Pipestill furnace ("F-105") tube leaks led to the incomplete combustion of crude and subsequent elevated Flue Gas Scrubber carbon monoxide. High temperature creep was the probable cause of the F-105 tube damage.

B2626	Valero Benicia Refinery				
Facilit	y Address:	Mailin	g Addres	s:	
34	00 East Second Street	340	00 East S	econd Stre	eet
Ве	nicia, CA 945101097	Ber	nicia, CA	94510109	97
(	Contact: Kim Ronan	Title: Manager - Environment	tal Engin	eering	Phone: (707) 745-7990
Title V deviatio	ons for the reporting period are summarized	below:			
	e actions or Enhanced temperature monitors taken: operating procedures(s).	oring in additional areas of F-105; enhanced p	rocess er	gineering r	monitoring for F-105 operations; updated Pipestill
Е	pisode ID #: <u>07L68</u>		NOV:		
Event Started	:3/11/2019	3/24/2019 11:59 PM ☐ Ongoing Event			
	. [		Г	May have r	esulted in a violation of:
	mber: S6-Coker Burner, R-902		Permit:	1 201	
	evice: A1047-Flue Gas Scrubber (Belco & Ca Point: P1059-FGS Stack ST-5601	ansolv)	AQMD:	1-301 HSC 41700	
LIIIISSIOII	FUIII. F1039-FG3 Stack 31-3001		Other.	H3C 41700	
1069 Event I	Description: <u>AMENDED (7/22/19): BAAQM</u> <u>Coker Source.</u>	D issued an NOV for public nuisance from the	Coker an	d the Flue	Gas Scrubber Stack and assigned it to the S-6
Prob		("F-105") tube leaks led to the incomplete cor creep was the probable cause of the F-105 tul			nd subsequent elevated Flue Gas Scrubber carbon
Corrective	e actions or Enhanced temperature monitor	oring in additional areas of F-105; enhanced p	rocess er	gineering r	monitoring for F-105 operations; updated Pipestill
preventative s	steps taken: operating procedure(s).				
E	pisode ID #:		NOV:	58460; 584	61; 58462; 58464; 58467; 58469
	DOV . 5	F 5416			
	Conto	# 5416 Mitted 4/19/19)			

	From 1/1/2019 to 6/30/2019			
B2626 Valero Benicia Refinery				
Facility Address:	Mailing Address:			
3400 East Second Street	3400 East Second Street Benicia, CA 945101097			
Benicia, CA 945101097				
Contact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-7990			
Title V deviations for the reporting period are summarized below:				
Event Started: 3/18/2019 2:00 PM Stopped: 3/24/201	9 11:54 AM Ongoing Event  May have resulted in a violation of:			
Source Number: S5-FCCU Regenerator, R-702; S6-Coker Burne	Permit: Conditon 24245, Parts 17, 18, & 19; 8Condition 20820, Part 61;			
Abatement Device: A1047-Flue Gas Scrubber (Belco & Cansolv)	AQMD: 6-1-301; 6-1-302; SIP 6-301, SIP 6-302			
Emission Point:	Other: 40CFR 60.102(a)(1) and (a)(2); 40CFR 60.103(a); 40CFR 63.1564(a)(1) and (a)(2); 40 CFR 63.1565(a)(1), (b)(1)(ii)			
1077 Event Description: AMENDED (7/22/19): Further review o	the process data from the events starting on March 11, the following additional discoveries were made:			
PM and opacity standards for the ECCL	were exceeded on 3 clock hours, during 3/18 14:00 (58 gal/kscf), 3/19 13:00 (62 gal/kscf) and 3/23 18:00			
	e Gas Scrubber Stack parameter L/G going below the minmuim limit of 63 gal/kscf. This parametric			

monitor was established during the November 2018 Performnace Test rquired by EPA as a conditional approval of the AMP that had been

submitted on October 27, 2010. This AMP is used to monitor several BAAQMD and EPA standards as welll as Condition 24245, parts 18 and 19.

Permit Condition 20820 Part 61 and 40 CFR 63.1565(b)(1)(ii) were not met during the period of time when S-5 (FCCU) was not abated by S-1059/S-1060 between 3/24/2019 10:32 and 11:54AM.

Probable Cause: Atmospheric Pipestill furnace ("F-105") tube leaks led to the incomplete combustion of crude and subsequent elevated Flue Gas Scrubber carbon monoxide. High temperature creep was the probable cause of the F-105 tube damage.

Den. # 5493 (submitted 5/20/19)

B2626 Valero Benicia Refinery	
Facility Address:	Mailing Address:
3400 East Second Street	3400 East Second Street
Benicia, CA 945101097	Benicia, CA 945101097
Contact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-7990
Title V deviations for the reporting period are summarized below	
preventative steps taken: operating procedure(s).	n additional areas of F-105; enhanced process engineering monitoring for F-105 operations; updated Pipestill
Episode ID #: <u>07M00</u>	NOV:
Event Started: 3/21/2019 5:55 PM Stopped: 3/31/2	2019 11:59 PM Ongoing Event
	May have resulted in a violation of:
Source Number: S5-FCCU Regenerator, R-702	Permit: 24545 (14)
Abatement Device: A1059-Flue Gas Scrubber SCR	AQMD:
Emission Point: P1059-FGS Stack ST-5601	Other: 40 CFR 60, Appendix B, PS 2, 13.2
1076 Event Description: AMENDED (7/19/19): A passing Rela-	tive Accuracy Test Audit (RATA) for the FGS SO2 analyzer was not achieved during 1Q2019.
	of a new RATA as soon as possible. However, the unit was brought down for maintenance, and due to cting a new RATA immediately was not possible.
Corrective actions or A new RATA was scheduled as soon a preventative steps taken:	
Episode ID #:	NOV:
Dev. # 540	17
(cub. 5/20	0(19)

From 1/1/2019 to 6/30/2019

B2626 Valero Benicia Refinery				
Facility Address:	Mailing Addr	ess:		
3400 East Second Street	3400 East Second Street			
Benicia, CA 945101097	Benicia, C	A 945101097		
Contact: Kim Ronan	Title: Manager - Environmental Eng	ineering Phone: (707) 745-7990		
Title V deviations for the reporting period are summarized below:				
Event Started: 5/6/2019 5:00 AM Stopped: 5/6/2019	1:00 PM Ongoing Event			
		May have resulted in a violation of:		
Source Number: S220-Hot Oil Furnace, F-4460	Permit			
Abatement Device: A45-Selective Catalytic Reduction for F-4460	AQMD	:		
Emission Point: P46-CFP Hot Oil Furnace Stack, P-46	Other	:		
1078 Event Description: Furnace F4460 8-hr CO Limit of 28 ppmv of average CO concentration was 64 ppmv of		om 5:00 to 13:00, subsequent to the 24-hr start up period. The		
Probable Cause: Unit start up and subsequent duty demar	<u>nd</u>			
Corrective actions or Fuel gas increased to raise coil outlet tempreventative steps taken:	peratures.			
Episode ID #: <u>07M18</u>	NOV	:		

Dev. #5471 (swb. 6/28/19)

B2626 Valero Benicia Ketinery				
Facility Address:	Mailing Address:			
3400 East Second Street	3400 East Second Street Benicia, CA 945101097			
Benicia, CA 945101097				
Contact: Kim Ronan Title: Manag	ger - Environmental Engineering Phone: (707) 745-7990			
Title V deviations for the reporting period are summarized below:				
Event Started: 5/7/2019 6:00 AM Stopped: 5/7/2019 8:00 AM	Ongoing Event			
	May have resulted in a violation of:			
Source Number: S1059-CO Furnace F-105; S1060-CO Furnace F-106; S5-FCCU Re	generator, R- Permit:			
Abatement Device: A1047-Flue Gas Scrubber (Belco & Cansolv)	AQMD: 6-1-301; 6-1-302; SIP-301; SIP-302			
Emission Point: P1059-FGS Stack ST-5601	Other:			
1079 Event Description: During the Cat Unit (FCCU) start up, the Flue Gas Scrubbe	er (FGS) parametric variable "delta P across the Agglo Filtering Module (AFM)" was below			
	s on 5/7/2019 from 6:00 to 8:00. The average dP was 18 inches of H2O during those			
hours.				
AMENDED on 5/16/2019: Included sources S-1059, S-106	60 and supplemented violations with BAAQMD Reg 6 and Federal citations.			
	to 60 minutes since this is a clock hr limit. Removed the following citations/permit			
conditions applicable to the FCCU and the crude unit furn				
(1) 40CFR Part 60.102(a)(2)Subpart J allows for startup 6	exemption via 40CFR.60.8(c);			
(2) PC 24245.19 it refers to Subpart J in (1);	dand and be accorded with the alternative stanting about the factor by a stanting or			
inlet velocity limit allowed per 40CFR63.1564(a)(5)(ii) dur	dard can be complied with via the alternative startup, shutdown, hot stadby minimum			
(4) Reg 6-1-310 and SIP 6-310 since these are TSP limits				
	en the Cat Unit is starting up and the Coker is shutdown. This hourly parametric limit was			
	both the Cat and Coker units were running. Benicia's unique configuration of having a			

B2626	Valero Benicia Refinery						
Facility	y Address:	Mailir	ng Addre	25S:			
340	00 East Second Street	34	00 East S	Second Street			
Benicia, CA 945101097		Be	Benicia, CA 945101097				
C	Contact: Kim Ronan	Title: Manager - Environmer	ital Engir	neering Phone: (707) 745-7990			
Title V deviatio	ns for the reporting period are summarized belo	w:					
	Flue Gas Scrubber which abates bo	th units makes compliance impossible d	uring this	s refinery configuration.			
Corrective preventative s	actions or <u>Start up progression</u> teps taken:						
Ep	pisode ID #: <u>07M19</u>		NOV:				
Event Started:	5/8/2019 3:00 AM Stopped: 5/9/	2019 10:56 AM Ongoing Event		May have resulted in a violation of:			
Source Nur	nber: S157-Sulfur Storage Pit At Sulfur Plants, S	-157	Permit:	23446.1			
	evice: AS1-SGU A Train; AS2-SGU B Train	137	AQMD:				
Emission F	Point: PX-Sulfur Pit Atmospheric Vent		Other:				
1080 Event D	Description: Sulfur pit vapors stopped being aba	ited due to air compressor failure.					
Prob	able Cause: Air Compressor failure						
Corrective preventative s	actions or <u>Air Compressor repaired</u> teps taken:						
Εţ	Dev , #	5472 No. 10 (28/19)	NOV:				
	Ca	W. 6 (28/19)					

B2626 Valero Benicia Ref	nery
Facility Address:	Mailing Address:
3400 East Second Street	3400 East Second Street
Benicia, CA 945101097	Benicia, CA 945101097
Contact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-7990
Title V deviations for the reporting period are sum	marized below:
Event Started:5/11/2019	ed:5/11/2019
5 11 1 55 61 5 5 600	May have resulted in a violation of:
Source Number: S6-Coker Burner, R-902 Abatement Device:	Permit: Condition 24198, Part 17
Emission Point: P69-FCCU/CKR Dumpstack	AQMD: 6-1-302; SIP 6-302 Other:
1081 Event Description: AMENDED (7/19/19):  opacity excess occurre	While resealing the water seal during Coker start-up, the water seal level at the Dumpstack was not established, but no d. A 30 day follow-up report has been submitted per Permit Condition 24198, Part 17.
AMENDED on 5/17/20	
,	acity excess occurred. All normal procedures were followed.
Corrective actions or Water seal level was repreventative steps taken:	e-established and flow through the vent stack ceased.
Episode ID #:	NOV:
	DOV. #5468
	Dev. #5468 Csub. (e/25119)

From 1/1/2019 to 6/30/2019

Valero Benicia Refinery

D2020 Valeto Defined Refinery				
Facility Address:	Mailing Address:			
3400 East Second Street	3400 East Second Street			
Benicia, CA 945101097	Benicia, CA 945101097			
Contact: Kim Ronan	e: Manager - Environmental Engineering Phone: (707) 745-7990			
Title V deviations for the reporting period are summarized below:				
Event Started: 5/12/2019 6:00 PM Stopped: 5/15/2019 1	00 PM Ongoing Event			
	May have resulted in a violation of:			
Source Number: S5-FCCU Regenerator, R-702; S1059-CO Furnace F-3	5; S1060-CO Furnace F- Permit: 24245.19			
Abatement Device: A1047-Flue Gas Scrubber (Belco & Cansolv)	AQMD: 6-1-310; SIP 6-310; 6-1-301; 6-1-302; SIP-301; SIP-302			
Emission Point: P1059-FGS Stack ST-5601	Other: 40CFR Part 60.102(a)(2); 40 CFR Part 63.1564(a) (1)			
inches of H2O for 57 hours between 5/12/20	le "delta P across the Agglo Filtering Module (AFM)" was below the hourly minimum limit of 19 9 18:00 and 5/15/2019 23:00. The average dP was 17 inches of H2O during those hours. The hours individual periods as well as the average values are listed below:			
5/12/2019 18:00 to 5/13/2019 14:00 average				
5/13/2019 21:00 to 22:00 value=18"H2O; 23 5/14/2019 05:00 to 08:00 value=18"H2O;	) to midnite value=18"H2O			
5/14/2019 15:00 to 5/15/2019 23:00 average	value=18"H2O.			
Probable Cause: Since we are in a refinery-wide start up, it is Coker is shutdown. This hourly parametric li	ot possible to meet this hourly parametric limit when the Cat Unit is running at low rates and the it was established during a performance test conducted when both the Cat and Coker units were ing a Flue Gas Scrubber which abates both units makes compliance impossible during this refinery			
configuration.				

Dev. #5483 (swb. 4/28/19)

Monday, July 22, 2019

B2626

	110111 1/1/2013 10 0/30/201					
B2626 Valero Benicia Refinery						
Facility Address:	Mailir	g Addres	<b>:</b>			
3400 East Second Street 34		400 East Second Street				
Benicia, CA 945101097	Ве	Benicia, CA 945101097				
Contact: Kim Ronan	Title: Manager - Environmen	: Manager - Environmental Engineering Phone: (707) 745-				
Title V deviations for the reporting period are summarized bel	low:					
Corrective actions or <u>Balance air rate and CO load</u> preventative steps taken:						
Episode ID #: 07M22		NOV:				
Event Started: 5/19/2019 8:00 AM Stopped: 5/19	9/2019 11:00 AM Ongoing Event					
		N	1ay have re	sulted in a violation of:		
Source Number: S2-Acid Gas Burner, F-1301B		Permit:				
Abatement Device: A14-SGU-A Incinerator (use only for shur B Incinerator (use only for shutdown/up		AQMD:	-1-307			
Emission Point: P1-Main Stack Emission Point, P-1		Other:				
1084 Event Description: AMENDED (7/19/19): Following a making adjustments to the change concentration was 3,198 ppm @ 0	e in flow. The SRU Tail Gas was diverted to			elevated H2S was seen at Flexsorb as SRU-B was three hours and during this time the average		
Probable Cause: <u>Severe weather event resulted in</u>	<u>unit upset.</u>					
Corrective actions or None feasible. preventative steps taken:				•		
Episode ID #:		NOV:				
Del	1, #5494 (sub. (128119)					
(	(aub. (0[28]19)					

B2626	Valero Benicia Refinery				
Facility Add	dress:	Maili	ng Addre	ess:	
3400 Ea	st Second Street	3400 East Second Street			
Benicia, CA 945101097 Benicia, CA 945101097		A 945101097			
Conta	ct: Kim Ronan	Title: Manager - Environme	ntal Engir	neering Phone: (707) 745-7990	
Title V deviations for	the reporting period are summarized below:		1		
Event Started:	6/6/2019 8:00 AM Stopped: 6/16/201	9 8:00 AM Ongoing Event			
				May have resulted in a violation of:	
Source Number:	S5-FCCU Regenerator, R-702		Permit:	24245 part 25	
Abatement Device:			AQMD:		
Emission Point:	P1059-FGS Stack ST-5601		Other:	40CFR60.104(d), 40CFR60.105(a)(13)	
1086 Event Descrip	ption: SO2 analyzer for FGS did not meet the 2	22 out of 30 day minimum data ava	liability re	equirement because of unfeasibility to schedule a RATA_	
	sooner due to start up activities and br	inging the unit to representative ra	tes before	e a RATA could be conducted.	
Probable C	Cause: An earlier failed RATA required schedul subsequent startup activities, conduction			ever, the unit was brought down for maintenance, and due to e.	
Corrective actio	ons or A new RATA was scheduled as soon as taken:	feasible on 5/17/19 and passed.			
Episode			NOV:		
	DON.	#2218			
	(su	#5518 b. 7[25  19)			

B2626	Valero Benicia Refinery					
Facility	Address:	Mailing A	Addre	<b>55:</b>		
3400 East Second Street Benicia, CA 945101097		3400	3400 East Second Street Benicia, CA 945101097			
		Benici				
C	ontact: Kim Ronan	Title: Manager - Environmental	Engin	eering Phone: (707) 745-7990		
Title V deviation	ns for the reporting period are summarized l	below:				
Event Started:	6/12/2019 12:31 PM Stopped:	7/8/2019 12:43 PM Ongoing Event				
				May have resulted in a violation of:		
	nber: S227-Tank, Saturated Pentane Tank, T		ermit:			
Abatement De				8-5-306.2		
Emission F			Other:			
1087 Event D	Description: <u>AMENDED: PV vent on Tank 174</u>	41 exceeded 500 ppm emission standard during	g 1st h	alf 2019 routine fugitive emissions inspection		
Proba	able Cause: PV vent not gas tight					
Corrective preventative s		to obtain spare PV vent and to schedule manp	ower a	and crane to replace PV vent. LDAR tags: 178849 (SV-17175)		
Eŗ	pisode ID #:		NOV:			
	(7S					
	den. 5575					
	U					

From 1/1/2019 to 6/30/2019

Valero Benicia Refinery

Facility Address:		Mailing Address:				
3400 East Second Street		3400 East Second Street				
Benicia, CA 945101097		Benicia, CA 945101097				
Contact: Kim Ronan	Title: Mana	ger - Environmental Engineering Phon	e: (707) 745-7990			
itle V deviations for the reporting period are	summarized below:					
Certification Statement						
certify under penalty of law that based on t reasonable inquiry, the statements and infor attachments and other materials are true, ac	mation in this document and in all	r				
			7/22/19			
& Dmad Cwil	Donald C. Wilson	Vice President and General Manager	1/20/19			

B2626

# BAAQMD Title V Permit 6 Month Monitoring Report

From 1/1/2019 to 6/30/2019

B2626 Valero Beni	cia Refinery														
Facility Address: 3400 East Second Street	Mailing Address: et 3400 East Second Street														
Benicia, CA 945101097	Benicia, CA 945101097														
Contact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-7990														
Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below	Fuel Opacity/ Wind Wind Guage CEM GLM Gas Parametric NOx SO2 CO H2S TRS NH3 O2 CO2 H2O LTA Lead Steam Flow Dir. Speed pH Temp. VOC Press.														
Ref: 1060 Event Starte 1/13/2019 7:12 AM Stc 1/14/2019 10:15 AM ✓ Has Stopped															
Source Number: S237-Boiler, SG-1032  Abatement Device: Emission Point:	Event Description: SG-1032 NOx analyzer failed daily validation 1/12-1/14. It was recalibrated on 1/14/19 and passed.														
Ref: 1065 Event Starte 2/26/2019 7:39 AM Stc 2/26/2019 10:00 AM ✓ Has Stopped															
Source Number:  Abatement Device: Emission Point:	Event Description: GLM 3 (8303/8203) was re-located to GPS coordinates (38.069294, -122.131344). During re-location and prior to the analyzers being calibrated at the new location the monitor was inoperative.														
Ref: 1071 Event Starte 3/24/2019 7:00 AM Stc 3/25/2019 7:00 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 H2S analyzer failed daily calibration on 3/23/19-3/24/19. It passed daily calibration on 3/25/19.														
Ref: 1070 Event Starte 3/24/2019 12:30 PM Stc 3/26/2019 5:33 PM ✓ Has Stopped															
Source Number:	Event Description: FGS CEMS (SO2) failed daily validation starting 3/23/2019 and the in-operative monitor is on going.														
	Amended on $3/27/2019$ The inoperative monitor status changed to "stopped on $3/26/19$ 5:33PM". The FGS SO2 passed calibration on $3/26/2019$ .														
Abatement Device:  Emission Point: P1059-FGS Stack ST-5601															

Page 1 of 2

# BAAQMD Title V Permit 6 Month Monitoring Report

B2626 Valero Benicia Refinery																				
	Facility 340 Ben	Mailing Address:  3400 East Second Street  Benicia, CA 945101097																		
	Co	ontact: Kim Ronan	Title: Manager - Environmental Engineering Phone: (707) 745-									745-79	90							
Inoperable monitors as defined by BAAQMD Regulations 1-52.	2 and 1-523 for the reporting perio	d are summarized below	CEM GLM	Fuel Gas	Parametric	NOx	SO2 CO	H2S	TRS NH3	02	CO2 H2	Opacity D LTA		Steam Flow	Wind Dir.	Wind Speed	рН Т	emp. V0	Gu OC Pre	
Ref: 1082 Event Starte 5/16/2019 7:09 AM	Stc 5/16/2019 12:1:	1 PM ✓ Has Stopped	<b>✓</b>			<b>✓</b>														]
Source Number: S37-Waste Heat Boiler, SG-702 Abatement Device: Emission Point:			Event Descr	ription: S	6G-702 (S-37	) analyze	r failed dail	y validati	on 5/15-5/	16. It was	recalibra	ted on 5/1	6/19 and	passed.						
Ref: 1085 Event Starte 5/23/2019 6:19 PM	Stc 5/28/2019 11:31	L AM ✓ Has Stopped			<b>✓</b>									<b>✓</b>						]
Source Number: S16-Acid Gas Flare, ST-2101AG Abatement Device: Emission Point:			Event Descr	ription: A	AMENDED: T	he Acid (	Gas Flare flo	w meter	was inope	rational f	rom 5/23/	2019 to 5/	28/2019							
Certification Statement  I certify under penalty of law that based on the informat reasonable inquiry, the statements and information in the attachments and other materials are true, accurate, and	nis document and in all																			
11.00	onald C. Wilson int Name	Vice President and Title	General Ma	anager		Date	7/22/1	9												