Texas Commission on Environmental Quality

Title V Existing

1381

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	VALERO HOUSTON REFINERY
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	9701 Manchester Avenue
City	Houston
State	TX
ZIP	77012
County	HARRIS
Latitude (N) (##.######)	29.723333
Longitude (W) (-###.######)	95.253055
Primary SIC Code	2911
Secondary SIC Code	
Primary NAICS Code	32411
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100219310
What is the name of the Regulated Entity (RE)?	VALERO HOUSTON REFINERY
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	9701 MANCHESTER ST
City	HOUSTON
State	TX
ZIP	77012
County	HARRIS
Latitude (N) (##.######)	29.722222
Longitude (W) (-###.######)	-95.255
Facility NAICS Code	
What is the primary business of this entity?	PETROLEUM REFINING

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN600127468
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Valero Refining-Texas, L.P.
Texas SOS Filing Number	800023619
Federal Tax ID	741834940
State Franchise Tax ID	17418349407
State Sales Tax ID	

Local Tax ID	
DUNS Number	79391280
Number of Employees	501+
Independently Owned and Operated?	Yes

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	VALERO REFINING TEXAS LP
Prefix	MR
First	LONNIE
Middle	
Last	BRENNER
Suffix	
Credentials	
Title	VP AND GENERAL MANAGER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	9701 MANCHESTER ST
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77012
Phone (###-###-####)	7139233300
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	7139233399
E-mail	lon.brenner@valero.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	New Contact
Organization Name	Valero Refining-Texas LP
Prefix	MS
First	April
Middle	
Last	Twu
Suffix	
Credentials	
Title	Sr Staff Environmental Engineer
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	9701 MANCHESTER ST

Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77012
Phone (###-###-####)	7139233392
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	april.twu@valero.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	29 Deg 43 Min 24 Sec
3) Permit Longitude Coordinate:	95 Deg 15 Min 11 Sec
4) Is this submittal a new application or an update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Streamlined Revision
4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?	No
4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name	Valero Houston O1381 Rev App 2025-0813.pdf
Hash	57A7C0C0C96DBF3981D2A6BD46F21C58E780CB5C776175D52B2A1CF19B3F52FF
MIME-Type	application/pdf

An additional space to attach any other necessary information needed to complete the permit.

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the Responsible Official for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Lonnie J Brenner, the owner of the STEERS account ER079053.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1381.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Lonnie J Brenner OWNER OPERATOR

Account Number:	ER079053
Signature IP Address:	170.111.3.73
Signature Date:	2025-08-14
Signature Hash:	98F5213B747A567988438AC145E761392BA24BB6E36B13459F3924B1027B43D1
Form Hash Code at time of Signature:	0EDB2B3D017F8B261CBEDBD6CEE8F03FE1537F8F3FF7DAB26C269A233D81C36B

Submission

Reference Number:	The application reference number is 808625
Submitted by:	The application was submitted by ER079053/Lonnie J Brenner

Submitted Timestamp:	The application was submitted on 2025-08-14 at 14:05:31 CDT
Submitted From:	The application was submitted from IP address 170.111.3.73
Confirmation Number:	The confirmation number is 671396
Steers Version:	The STEERS version is 6.92
Permit Number:	The permit number is 1381

Additional Information

Application Creator: This account was created by Kelley Oswalt

STREAMLINED MINOR REVISION APPLICATION

Site Operating Permit O1381

Valero Refining – Texas, L.P.
Valero Houston Refinery
CN600127468
RN100219310

Prepared By:

Kelley Oswalt – Senior Consultant
Morgan Meyer – Associate Consultant

TRINITY CONSULTANTS
9737 Great Hills Trail
Suite 340
Austin, TX 78759
512-693-4191

August 2025

Project 254404.0028

TABLE OF CONTENTS

1. PROJECT INFORMATION

Valero Refining-Texas, L.P. (Valero) owns and operates the Valero Houston Refinery in Harris County, Texas. Facilities at the site are operated under Site Operating Permit (SOP) O1381. The purpose of this application is to revise the SOP. This is to address perceived issues identified in the EPA Petition Order VI-2024-17 and amplify our articulation of relevant supporting material.

As part of this revision application, the following revisions are being requested:

- Remove MACT CC applicable requirements from 22FB748.
- Remove the now demolished tank 91FB924 from the permit.
- Update MACT CC applicable requirements for tanks 42FB2802, 45FB7403, 47FB321, 47FB323, 90FB735, 91FB922, and 91FB931.
- Update the MACT CC applicable requirements for flares 30FL1 and 30FL6.
- Update the MACT CC applicable requirements for the fugitive components in GRP-FUG.
- Update the MACT CC applicable requirements for cooling towers 40CWT11 and GRP-CWT.
- Update the Pre-Construction Authorization for multiple unit IDs.
- Add tank 91FB917A to the permit.
- Incorporate the 7/22/2025 issuance of NSR permit 2501A and PSDTX767M2 and the 5/27/2025 issuance of NSR permit 124424.
- Update the OP-PBRSUP form.
- Update the Special Terms and Conditions regarding 40 CFR Part 61 Subpart FF per the OP-REQ1.
- Update the Unit ID Description for 42BFUG, 43AFUG, and 43FUG.

The Major NSR Summary Table is being revised in this permit action. Electronic Major NSR Summary Table files using "tracked-changes" to identify the updates in the latest issuance of NSR Permit No. 2501A/PSDTX767M2 will be provided when requested by the permit reviewer.

2. ADMINISTRATIVE FORMS

This section contains the following forms and information:

- OP-2 – Application for Permit Revision/Renewal
- OP-SUMR – Individual Unit Summary for Revisions
- OP-PBRSUP – Permit By Rule Supplemental Table

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality

Date:	8/13/2025												
Permit No.:	01381												
Regulated Entity No.:	RN100219310												
Company Name:	Valero Refining-Texas, L.P.												
For Submissions to EPA													
Has an electronic copy of this application been submitted (or is being submitted) to EPA?										X	YES		NO
I. Application Type													
Indicate the type of application:													
	Renewal												
X	Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)												
	Significant Revision												
	Revision Requesting Prior Approval												
	Administrative Revision												
	Response to Reopening												
II. Qualification Statement													
For SOP Revisions Only										X	YES		NO
For GOP Revisions Only											YES		NO
III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)													
Indicate all pollutants for which the site is a major source based on the site's potential to emit:													
(Check the appropriate box[es].)													
X	VOC	X	NO_x	X	SO_2	X	PM_{10}	X	CO		Pb	X	HAPs
Other:													
IV. Reference Only Requirements *(For reference only)*													
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?								X	YES		NO		N/A
V. Delinquent Fees and Penalties													
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.													

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality

Date:	8/13/2025
Permit No.:	01381
Regulated Entity No.:	RN100219310
Company Name:	Valero Refining-Texas, L.P.

Using the table below, provide a description of the revision.

Revision No.	Revision Code	Unit/Group/Process			NSR Authorization	Description of Change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
1	MS-C	NO	22FB748	OP-UA3	N/A	Remove MACT CC applicable requirements from this tank. This tank is not a MACT CC tank.
2	MS-C	NO	91FB924	OP-UA3	N/A	Remove this tank from the Title V permit. This tank has been demolished.
3	MS-C	NO	42FB2802, 45FB7403, 47FB321, 47FB323, 90FB735, 91FB922, 91FB931	OP-UA3	N/A	Update the MACT CC applicable requirements for these tanks according to OP-UA3 Table 10. In addition, OP-UA3 Table 3 for NSPS Kb is provided since TCEQ has made an update to this table since the last time it was submitted. No changes to NSPS Kb applicable requirements are being made.
4	MS-C	NO	30FL1, 30FL6	OP-UA7	N/A	Update the MACT CC applicable requirements for these flares according to OP-UA7 Table 6.
5	MS-C	NO	GRP-FUG	OP-UA12	N/A	Update the MACT CC applicable requirements for the fugitive components according to OP-UA12 Table 12.
6	MS-C	NO	40CWT11, GRP-CWT	OP-UA13	N/A	Update the MACT CC applicable requirements for these cooling towers according to OP-UA13 Table 5.
7	MS-C	NO	Multiple	Multiple	Multiple	Update the pre-construction authorization for several Unit IDs as shown on OP-SUMR.
8	MS-C	YES	91FB917A	OP-UA3	106.478/09/04/2000 [177297]	Add tank to the permit.
9	MS-C	NO	Multiple	Multiple	2501A and PSDTX767M2 124424	Incorporate the 7/22/2025 issuance of 2501A and PSDTX767M2 and the 5/27/2025 issuance of 124424.
10	MS-C	NO	Multiple	Multiple	Multiple	Update the OP-PBRSUP form.
11	MS-C	N/A	N/A	OP-REQ1	N/A	Update the Special Terms and Conditions regarding 40 CFR Part 61 Subpart FF per the OP-REQ1.
12	MS-C	NO	42BFUG, 43AFUG, and 43FUG	OP-UA12	N/A	Update the Unit ID Description as shown on OP-SUMR.

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
D	2	91FB924	OP-UA3	TANK 91FB924		86/06/07/1996 [34094]	
	7	21FUG	OP-UA12	ISOOCTENE UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [101936, 70289, 75514, 78574, 81526, 92272] , 106.262/11/01/2003 [75514]~~	PSDTX767M2
	7	22AFUG	OP-UA12	BHT FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 118800, 75514, 78574, 81526, 92272, 95584, 101936], 106.262/11/01/2003 [75514]~~	PSDTX767M2
	7	22BFUG	OP-UA12	O2 GAS PLANT FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 81526, 92272, 95584]~~	PSDTX767M2
	7	22FUG	OP-UA12	ALKYLATION UNIT		2501A, 106.261/11/01/2003 [~~118800~~, ~~131534~~, ~~139777~~, ~~71680~~, ~~75514~~, ~~78574~~, 78537, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~, ~~109220~~], ~~106.262/11/01/2003 [71680, 75514, 131534]~~	PSDTX767M2
	7	23CWT7	OP-UA13	COOLING TOWER NO. 7		2501A ~~106.371/09/04/2000~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	23FUG	OP-UA12	CRUDE UNIT FUGITIVES		2501A, 106.261/11/01/2003 [~~101936~~, ~~109315~~, ~~118800~~, 73824, ~~71680~~, ~~75514~~, ~~78574~~, ~~81526~~, ~~92272~~, ~~95584~~], ~~106.262/11/01/2003 [71680, 75514]~~	PSDTX767M2
	7	27AFUG	OP-UA12	"C" UNIFIER FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 118800, 131534, 71680, 81526, 92272, 95584, 101936],~~ ~~106.262/11/01/2003 [71680, 131534]~~	PSDTX767M2
	7	27CWT2	OP-UA13	COOLING TOWER NO. 2		~~2501A~~ 106.371/09/04/2000 [176200]	~~PSDTX767M2~~
	7	27FUG	OP-UA12	PLATFORMER FUGITIVES		2501A, 106.261/11/01/2003 [~~71680~~, 73824, ~~75514~~, ~~78574~~, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~, ~~109315~~], ~~106.262/11/01/2003 [71680, 75514]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	28FUG	OP-UA12	"A" UNIFIER FUGITIVES		2501A, ~~106.261/09/04/2000 [55752],~~ 106.261/11/01/2003 [73824, ~~71680~~, ~~75514~~, ~~78574~~, ~~73902~~, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~], ~~106.262/11/01/2003 [71680, 75514]~~	PSDTX767M2
	7	29BA1300	OP-UA5, OP-UA15, OP-UA50	B UNIFINER RX. FURNACE		2501A, 106.261/11/01/2003 [~~146851~~, 164545], 106.262/11/01/2003 [164545]	PSDTX767M2
	7	29FUG	OP-UA12	"B" UNIFIER FUGITIVES		2501A, ~~106.261/11/01/2003 [118800, 131534, 81526, 92272, 95584, 101936],~~ ~~106.262/11/01/2003 [131534]~~	PSDTX767M2
	7	30FUG	OP-UA12	REFINERY FLARE AND FL GAS RECOVERY UNIT FUG		2501A, ~~106.261/11/01/2003 [109315, 118800, 92272, 95584, 101936]~~	PSDTX767M2
	7	39CB2001	OP-UA15, OP-UA50	TAIL GAS INCINERATOR UNIT 39 SRU		2501A, ~~106.261/11/01/2003 [136714, 146851],~~ ~~106.262/11/01/2003 [136714]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	39FUG	OP-UA12	UNIT 39 SRU FUGITIVES		2501A, ~~106.261/11/01/2003 [101936, 131534, 81526, 92272]~~, ~~106.262/11/01/2003 [131534]~~	PSDTX767M2
	7	40FUG	OP-UA12	ULSD UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [101936, 109315, 118800, 139777, 81526, 92272, 95584]~~	PSDTX767M2
	7	41BA101	OP-UA5, OP-UA15, OP-UA50	D UNIFINER RX. FURNACE		2501A, ~~106.261/11/01/2003 [146851]~~	PSDTX767M2
	7	41BA102	OP-UA5, OP-UA15, OP-UA50	D UNIFINER REBOILER		2501A, 106.261/11/01/2003 [~~146851~~, 164545], 106.262/11/01/2003 [164545]	PSDTX767M2
	7	41FUG	OP-UA12	“D” UNIFIER FUGITIVES		2501A, ~~106.261/09/04/2000 [55752],~~ 106.261/11/01/2003 [~~109315~~, ~~118800~~, ~~139777~~, 73824, ~~71680~~, ~~75514~~, ~~78574~~, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~], ~~106.262/11/01/2003 [71680, 75514]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
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Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	42AFUG	OP-UA12	FCC UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [101936, 118800, 139777, 78574, 81526, 92272, 95584]~~	PSDTX767M2
	7, 12	42BFUG	OP-UA12	FCC ~~CAT~~ GAS CON UNIT FUGITIVES		2501A, ~~106.261/09/04/2000 [55752], 106.261/11/01/2003 [109315, 78574, 81526, 92272, 95584, 101936]~~	PSDTX767M2
	7	42CFUG	OP-UA12	FCC DEPENTANIZER UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 78574, 81526, 92272, 95584, 101936]~~	PSDTX767M2
	7	42FUG	OP-UA12	FCC CAT GAS UNIT FUGITIVES		2501A, 106.261/11/01/2003 [~~109315~~, 73824, ~~71680~~, ~~75514~~, ~~78574~~, 81526, ~~92272~~, ~~95584~~, ~~101936~~], ~~106.262/11/01/2003 [71680, 75514]~~	PSDTX767M2
	7, 12	43AFUG	OP-UA12	FCC ~~PROPYLENE~~ MEROX UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 118800, 131534, 78574, 81526, 87909, 92272, 95584, 101936], 106.262/11/01/2003 [131534]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7, 12	43FUG	OP-UA12	FCC ~~MEROX~~ PROPYLENE UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 118800, 131534, 139777, 73824, 101936, 71680, 75514, 78574, 81526, 92272, 95584], 106.262/11/01/2003 [71680, 75514, 131534]~~	PSDTX767M2
	7	44AFUG	OP-UA12	SATS GAS FUGITIVES		2501A, 106.261/11/01/2003 [~~109315~~, ~~118800~~, ~~139777~~, 73824, ~~71680~~, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~], ~~106.262/11/01/2003 [71680]~~	PSDTX767M2
	7	44FUG	OP-UA12	ROSE FUGITIVES		2501A, 106.261/11/01/2003 [~~71680~~, ~~75514~~, ~~78574~~, 73824, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~], ~~106.262/11/01/2003 [71680, 75514]~~	PSDTX767M2
	7	45AFUG	OP-UA12	SWS UNIT FUGITIVES		2501A, 106.261/11/01/2003 [84930, ~~101936~~]	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	45FUG	OP-UA12	AMINE UNIT FUGITIVES		2501A, ~~106.261/09/04/2000 [55752],~~ 106.261/11/01/2003 [~~101936~~, ~~75514~~, ~~78574~~, 84930, ~~81526~~, ~~92272~~, ~~95584~~], ~~106.262/11/01/2003 [75514]~~	PSDTX767M2
	7	46CB6301	OP-UA15, OP-UA50	TAIL GAS INCINERATOR UNIT 46 SRU		2501A, ~~106.261/11/01/2003 [136714, 146851],~~ ~~106.262/11/01/2003 [136714]~~	PSDTX767M2
	7	46FUG	OP-UA12	UNIT 46 SRU FUGITIVES		2501A, 106.261/11/01/2003 [~~109315~~, ~~131534~~, ~~139777~~, ~~75514~~, 84930, ~~81526~~, ~~92272~~, ~~95584~~, ~~101936~~], ~~106.262/11/01/2003 [75514, 131534]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	47FUG	OP-UA12	WASTEWATER TREATER FUGITIVES		2501A, ~~106.261/09/04/2000 [51612],~~ ~~106.261/11/01/2003 [109315, 131534, 139777, 139439, 81526, 92272, 95584, 101936],~~ ~~106.262/09/04/2000 [51612],~~ ~~106.262/11/01/2003 [131534, 139439]~~	PSDTX767M2
	7	50BF02	OP-UA6, OP-UA50	BOILER NO. 2		124424, ~~106.261/11/01/2003 [146851]~~	
	7	50BF03	OP-UA6, OP-UA50	BOILER NO. 3		124424, ~~106.261/11/01/2003 [146851]~~	
	7	50FUG	OP-UA12	BOILERS NO. 2 AND NO. 3 FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 81526, 92272, 95584, 101936]~~	PSDTX767M2
	7	81BF01	OP-UA6, OP-UA50	BOILER NO. 1		124424, ~~106.261/11/01/2003 [146851]~~	
	7	81FUG	OP-UA12	BOILERHOUSE UNIT FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 131534, 81526, 92272, 95584, 101936],~~ ~~106.262/11/01/2003 [131534]~~	PSDTX767M2

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Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	90AFUG	OP-UA12	CRUDE TANK FARM FUGITIVES		2501A, ~~106.261/11/01/2003 [101936, 109315, 118800, 131534, 139777, 92272, 95584],~~ ~~106.262/11/01/2003 [131534]~~	PSDTX767M2
	7	90BFUG	OP-UA12	16-ACRE TANK FARM FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 131534, 139777, 95584, 101936],~~ ~~106.262/11/01/2003 [131534]~~	PSDTX767M2
	7	90CFUG	OP-UA12	REFRIGERATED STORAGE FUGITIVES		2501A, ~~106.261/11/01/2003 [109315, 118800, 131534, 92272, 95584, 101936],~~ ~~106.262/11/01/2003 [131534]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	90FUG	OP-UA12	"A" TANK FARM FUGITIVES		2501A, 106.261/03/14/1997 [104999], 106.261/11/01/2003 [~~101936~~, ~~109315~~, ~~118800~~, ~~131534~~, ~~139777~~, 73824, ~~81166~~, ~~71680~~, ~~75514~~, ~~78574~~, ~~81526~~, ~~92272~~, ~~95584~~], ~~106.262/11/01/2003 [131534, 71680, 75514, 81166]~~	PSDTX767M2
	7	91BFUG	OP-UA12	900-GROUP TANK FARM FUGITIVES		2501A, ~~106.261/11/01/2003 [101936, 131534, 139777, 81526], 106.262/11/01/2003 [131534]~~	PSDTX767M2
A	8	91FB917A	OP-UA3	TANK 91FB917A		106.478/09/04/2000 [177297]	
	7	91FUG	OP-UA12	300-GROUP TANK FARM FUGITIVES		2501A, ~~106.261/11/01/2003 [131534, 139777, 75514, 78574, 81526, 92272, 95584, 101936], 106.262/11/01/2003 [75514, 131534]~~	PSDTX767M2

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
	7	96FUG	OP-UA12	RECOVERY WELL SYSTEM FUGITIVES		2501A, ~~106.261/11/01/2003 [95584, 101936]~~, 106.533/07/04/2004	PSDTX767M2
	7	FUG	OP-UA12	FUGITIVES		2501A, ~~106.261/09/04/2000 [48166],~~ 106.261/11/01/2003 [~~146134~~, ~~146851~~, ~~151193~~, ~~156300~~, ~~145105~~, ~~162211~~, ~~164545~~ 168499, ~~50600~~, 172319, ~~54616~~, ~~73869~~, ~~87909,~~ 175862, 177297, 179517], ~~106.262/11/01/2003 [73869, 162211, 164545]~~	PSDTX767M2

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Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits By Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	Registration No.	PBR No.	Registration Date
47FB503	28324	86	5/25/1995
47FB504	33383	86, 106, 118	9/11/1996
90FB723	34119	86	11/27/1996
47FB509	36392	102	11/13/1997
DG-SHOP	38961	106.454	9/18/1998
23FUG, 27FUG, 28FUG, 41FUG, 42FUG, 43FUG, 44AFUG, 44FUG, 90FUG	73824	106.261	10/13/2004
90DOCK2	73869	106.261, 106.262	10/19/2004
90DOCK1	74363	106.261, 106.262	12/17/2004
91FB931	76694	106.478	9/6/2005
22VENT, 22FUG	78537	106.261	4/18/2006
45VENT, 45AVENT, 46VENT, 45AFUG, 45FUG, 46FUG	84930	106.261	6/24/2008
PROCVENT	92272	106.261	5/21/2010
47FA2	95584	106.261	5/20/2011
90FB722	104999	106.478	8/7/1998
90FUG	104999	106.261	8/7/1998
23VENT	118800	106.261	6/30/2014
47AD5409, 47AD5407	139439	106.261, 106.262	6/10/2016
47EC5401	139439	106.371	6/10/2016
90FB735	164545	106.261	4/14/2021
29BA1300, 41BA102	164545	106.261, 106.262	4/14/2021
FUG	168499	106.261	5/13/2022
FUG	172319	106.261	4/21/2023
FUG	175862	106.261	4/22/2024
27CWT2	176200	106.371	6/3/2024
91FB917A	177297	106.478	9/3/2024
FUG	177297	106.261	9/3/2024
FUG	179517	106.261	4/29/2025

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Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits By Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date
23FB4501V	106.472	3/14/1997
23FB4503V	106.472	3/14/1997
30GG1822	106.511	9/4/2000
30LOAD	106.473	3/14/1997
30PU2991	106.511	9/4/2000
30PU2992	106.511	9/4/2000
30PU2993	106.511	9/4/2000
39FB1001	106.472	9/4/2000
42FA2099V	106.472	3/14/1997
42FB2097V	106.472	3/14/1997
42FB2499	106.472	3/14/1997
42FB2699	106.472	3/14/1997
42FB2801	106.472	9/4/2000
42GG1730	106.511	9/4/2000
44FA3095	106.472	3/14/1997
44FA3099	106.472	3/14/1997
44FB3097	106.472	3/14/1997
44FB3098	106.472	3/14/1997
45FB7499V	106.472	3/14/1997
45TANK1	106.472	3/14/1997
46FA6299V	106.472	3/14/1997
47FA5412	106.472	3/14/1997
47FA5493	106.472	3/14/1997
47FA5494	106.472	3/14/1997
47GG1523	5, 106.511	9/12/1989, 9/4/2000
5GCVS	106.533	7/4/2004
5GFUG	106.533	7/4/2004
5GTRANSFER	106.533	7/4/2004
81GEN001	106.511	9/4/2000
81SKD5602	106.533	7/4/2004
81SKD5603	106.533	7/4/2004
90GG2245	106.511	9/4/2000
92FA4001	51	6/7/1996
92FA4002	53	10/4/1995

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Table B: Claimed (not registered) Permits By Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date
96FB500	106.264	3/14/1997
96FUG	106.533	7/4/2004
96GENC20D6	106.511	9/4/2000
97GE2999	106.511	9/4/2000
CCRGEN	106.511	9/4/2000
42GG1848, 42GG1849	106.511	9/4/2000
90FB723	106.478	9/4/2000
90FB722	106.478	9/4/2000
50FA6	106.472	9/4/2000
MSS	106.263	11/1/2001
Buckling Pin PSV	106.355	11/1/2001
Misc - Bulk Tanks	106.472	9/4/2000
47FB321, 47FB323	106.478	9/4/2000
91FA9001	106.412	3/14/1997
91FA9002	106.412	3/14/1997
91FA9003	106.412	3/14/1997

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Table C: Claimed (not registered) Permits By Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

PBR No.	Version No./Date
106.122	9/4/2000

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Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
47FB503	86	28324	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 10-13/22 in TCEQ Online Records Content ID 3893586).
47FB504	86, 106, 118	33383	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 11, 94-104/104 in TCEQ Online Records Content ID 3951267).
90FB723	86	34119	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 28-38/38 in TCEQ Online Records Content ID 3951269).
47FB509	102	36392	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 27-35/35 in TCEQ Online Records Content ID 3951276).

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Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
DG-SHOP	106.454	38961	On a monthly basis, records shall be kept of total solvent makeup (gross usage minus waste disposal). The 0.33 tons/yr/unit emission factor for cold cleaners from Table 4.6-2 (AP-42, Fifth Edition, Volume I Chapter 4, Section 4.6: Solvent Degreasing) is multiplied by 2000 lbs/ton and divided by 8760 hrs/yr to achieve the 0.08 lb/hr limit authorized by PBR registration application (page 12/18 in TCEQ Online Records Content ID 3951285).
23FUG, 27FUG, 28FUG, 41FUG, 42FUG, 43FUG, 44AFUG, 44FUG, 90FUG	106.261	73824	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 41-47/66 in TCEQ Online Records Content ID 522253).
90DOCK2	106.261, 106.262	73869	The dock is limited to be used for loading and unloading of Kerosene/ Jet Fuel, Light Cycle Oil, Cat Feed/ Gas Oils, and No. 6 Oil/ Resid. Estimate and record throughput each month. Calculate the rolling-12 month emissions. Emissions will not exceed 3.89 tpy. For more details see emission factors/calculations in PBR registration application (page 31-35/59 in TCEQ Online Records Content ID 524956).
90DOCK1	106.261, 106.262	74363	The dock is limited to be used for loading and unloading of No. 6 fuel oil, asphalt, B/B (butene, butylene), butane, catalyst feed, diesel, cycle oils, isobutane, kerosene, natural gas, propane, and spent acid. Estimate and record throughput each month. Calculate the rolling-12 month emissions. Emissions will not exceed 4.81 tpy. For more details see emission factors/calculations in PBR registration application (page 32-37/61 in TCEQ Online Records Content ID 522203).
91FB931	106.478	76694	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 32-49/63 in TCEQ Online Records Content ID 530127).
22VENT, 22FUG	106.261	78537	Inspect Lube Oil Mist System vent collection container is maintained to not have visible emissions. For more details see emission factors/calculations in PBR registration application (page 30-31/32 in TCEQ Online Records Content ID 529740).

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Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
45VENT, 45AVENT, 46VENT, 45AFUG, 45FUG, 46FUG	106.261	84930	Inspect Lube Oil Mist System vent collection container is maintained to not have visible emissions. For more details see emission factors/calculations in PBR registration application (page 31-32/62 in TCEQ Online Records Content ID 514998).
PROCVENT	106.261	92272	Confirm analyzer vents are maintained to not have visible emissions. For more details see emission factors/calculations in PBR registration application (page 88-89/89 in TCEQ Online Records Content ID 1170433).
47FA2	106.261	95584	Estimate and record throughput each month. Calculate the rolling-12 month emissions and ensure resulting 12 month emissions are less than the applicable limit. For more detail see emission factors/calculations in PBR registration application (page 46/81 in TCEQ Online Records Content ID 1170476).
90FB722	106.478	104999	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 17-28/29 in TCEQ Online Records Content ID 7764193).
90FUG	106.261	104999	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 29/29 in TCEQ Online Records Content ID 7764193).
23VENT	106.261	118800	Visual checks are performed during each operation shift to ensure the oil mist system maintaining in good condition. Emissions calculations and monitoring requirements to demonstrate compliance with PBR 106.4 and PBR 106.261 requirements are documented in PBR registration application (page 92/92 in TCEQ Online Records Content ID 508225).
47AD5409, 47AD5407	106.261, 106.262	139439	Emission calculations and monitoring requirements to demonstrate compliance with PBR 106.4 and PBR 106.261 requirements are documented in PBR registration application (page 81-82, 86/86 in TCEQ Online Records Content ID 1234412).
47EC5401	106.371	139439	Maintain monthly operating record and calculate the rolling 12-month PM emissions to demonstrate compliance with applicable limits. For more detail see emission factors/calculations in PBR registration application (page 84/86 in TCEQ Online Records Content ID 1234412).

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8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
90FB735	106.261	164545	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Floating Roof Storage Tanks" APDG 6419v2, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 61-71/75 in TCEQ Online Records Content ID 5606908).
29BA1300, 41BA102	106.261, 106.262	164545	Record fuel usage each month. Calculate the rolling-12 month emissions and ensure resulting 12 month emissions are less than the applicable limit. For more details see emission factors/calculations in PBR registration application (page 74-75/75 in TCEQ Online Records Content ID 5606908).
FUG	106.261	168499	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 42/42 in TCEQ Online Records Content ID 6069565).
FUG	106.261	172319	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 43/43 in TCEQ Online Records Content ID 6529817).
FUG	106.261	175862	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 46/46 in TCEQ Online Records Content ID 7029749).
27CWT2	106.371	176200	Maintain monthly operating record and calculate the rolling 12-month PM emissions to demonstrate compliance with applicable limits. For more detail see emission factors/calculations in PBR registration application (page 26/36 in TCEQ Online Records Content ID 7105790).

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Date	Permit Number	Regulated Entity Number	Area Name
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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
91FB917A	106.478	177297	The average temperature, material vapor pressure and throughput are recorded on a monthly basis. Calculate the rolling 12-month emissions and ensure resulting 12 month emissions are less than the applicable limit. Annual emission rates are calculated monthly using AP-42 Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks and short-term emission rates are calculated using TCEQ's Air Permit Reviewer Reference Guide "Estimating Short Term Emission Rates from Fixed Roof Tanks" APDG 6250v3, revised 02/20). For more details see emission factors/calculations in PBR registration application (page 15/52 in TCEQ Online Records Content ID 7252220).
FUG	106.261	177297	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 16/52 in TCEQ Online Records Content ID 725220).
FUG	106.261	179517	Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 2501A. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see applicable Special Conditions in NSR Permit No. 2501A and emission factors/calculations in PBR registration application (page 48/48 in TCEQ Online Records Content ID 7706385).
23FB4501V	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
23FB4503V	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
30GG1822	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
30LOAD	106.473	3/14/1997	Records of liquids loaded, average daily loading rates and calculate the rolling-12 month emissions to ensure compliance with applicable limits.
30PU2991	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.

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Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
30PU2992	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
30PU2993	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
39FB1001	106.472	9/4/2000	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
42FA2099V	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
42FB2097V	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
42FB2499	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
42FB2699	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
42FB2801	106.472	9/4/2000	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
42GG1730	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
44FA3095	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
44FA3099	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.

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Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
44FB3097	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
44FB3098	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
45FB7499V	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
45TANK1	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
46FA6299V	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
47FA5412	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
47FA5493	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
47FA5494	106.472	3/14/1997	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
47GG1523	5, 106.511	9/12/1989, 9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.

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Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
5GCVS	106.533	7/4/2004	Measure and record the VOC concentration from remediation vents using a portable analyzer to monitor VOC concentration once per year and after any changes occur. The monitoring device shall meet the requirements of 40 CFR Part 60, Appendix A, Method 21, Sections 2, 3, 4.1, 4.2, and 4.4. However, the words "leak definition" in Method 21 shall be the outlet concentration. Establish a maximum VOC concentration using manufacturer's recommendations, engineering calculations from the PBR claim, and/or historical data. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. Keep records of all measurements and emission calculations to demonstrate compliance with 106.4 and 106.533(f).
5GFUG	106.533	7/4/2004	Measure and record the VOC concentration from remediation vents using a portable analyzer to monitor VOC concentration once per year and after any changes occur. The monitoring device shall meet the requirements of 40 CFR Part 60, Appendix A, Method 21, Sections 2, 3, 4.1, 4.2, and 4.4. However, the words "leak definition" in Method 21 shall be the outlet concentration. Establish a maximum VOC concentration using manufacturer's recommendations, engineering calculations from the PBR claim, and/or historical data. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. Keep records of all measurements and emission calculations to demonstrate compliance with 106.4 and 106.533(f).
5GTRANSFER	106.533	7/4/2004	Measure and record the VOC concentration from remediation vents using a portable analyzer to monitor VOC concentration once per year and after any changes occur. The monitoring device shall meet the requirements of 40 CFR Part 60, Appendix A, Method 21, Sections 2, 3, 4.1, 4.2, and 4.4. However, the words "leak definition" in Method 21 shall be the outlet concentration. Establish a maximum VOC concentration using manufacturer's recommendations, engineering calculations from the PBR claim, and/or historical data. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. Keep records of all measurements and emission calculations to demonstrate compliance with 106.4 and 106.533(f).
81GEN001	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.

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Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
81SKD5602	106.533	7/4/2004	Measure and record the VOC concentration from remediation vents using a portable analyzer to monitor VOC concentration once per year and after any changes occur. The monitoring device shall meet the requirements of 40 CFR Part 60, Appendix A, Method 21, Sections 2, 3, 4.1, 4.2, and 4.4. However, the words "leak definition" in Method 21 shall be the outlet concentration. Establish a maximum VOC concentration using manufacturer's recommendations, engineering calculations from the PBR claim, and/or historical data. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. Keep records of all measurements and emission calculations to demonstrate compliance with 106.4 and 106.533(f).
81SKD5603	106.533	7/4/2004	Measure and record the VOC concentration from remediation vents using a portable analyzer to monitor VOC concentration once per year and after any changes occur. The monitoring device shall meet the requirements of 40 CFR Part 60, Appendix A, Method 21, Sections 2, 3, 4.1, 4.2, and 4.4. However, the words "leak definition" in Method 21 shall be the outlet concentration. Establish a maximum VOC concentration using manufacturer's recommendations, engineering calculations from the PBR claim, and/or historical data. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. Keep records of all measurements and emission calculations to demonstrate compliance with 106.4 and 106.533(f).
90GG2245	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
92FA4001	51	6/7/1996	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.478 under which the tank is authorized.
92FA4002	53	10/4/1995	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.478 under which the tank is authorized.
96FB500	106.264	3/14/1997	Records of liquids loaded and calculate the rolling-12 month emissions to ensure compliance with applicable 106.4 limits.

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Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
96FUG	106.533	7/4/2004	Measure and record the VOC concentration from remediation vents using a portable analyzer to monitor VOC concentration once per year and after any changes occur. The monitoring device shall meet the requirements of 40 CFR Part 60, Appendix A, Method 21, Sections 2, 3, 4.1, 4.2, and 4.4. However, the words "leak definition" in Method 21 shall be the outlet concentration. Establish a maximum VOC concentration using manufacturer's recommendations, engineering calculations from the PBR claim, and/or historical data. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. Keep records of all measurements and emission calculations to demonstrate compliance with 106.4 and 106.533(f).
96GENC20D6	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
97GE2999	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
CCRGEN	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
42GG1848, 42GG1849	106.511	9/4/2000	The operating hours of the engine are monitored and recorded on a monthly basis. The maximum annual operating hours shall not exceed 10% of the normal annual operating schedule of the primary equipment, and all electric motors.
90FB723	106.478	9/4/2000	Keep records demonstrating new guide pole installation
90FB722	106.478	9/4/2000	Keep records demonstrating new guide pole installation
50FA6	106.472	9/4/2000	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.
MSS	106.263	11/1/2001	Keep records specified on 106.263(g) for each planned MSS activities and calculate emissions from the MSS activities on a monthly basis to determine the rolling 12-month total emissions to demonstrate compliance with 106.263(f).
Buckling Pin PSV	106.355	11/1/2001	Keep records listed in 106.355 (5)
Misc - Bulk Tanks	106.472	9/4/2000	Estimate and record throughput each month. Calculate the rolling-12 month emissions to ensure compliance with 106.4 limits. Keep records to document the subsection of 106.472 under which the tank is authorized.

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Date	Permit Number	Regulated Entity Number	Area Name
8/13/2025	01381	RN100219310	Valero Houston Refinery

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
47FB321, 47FB323	106.478	9/4/2000	Estimate and record throughput each month. Calculate the rolling-12 month emissions and ensure resulting 12 month emissions are less than the applicable limit.
91FA9001	106.412	3/14/1997	Estimate and record fuel usage each month. Calculate the rolling-12 month emissions and ensure resulting 12 month emissions are less than the applicable limit.
91FA9002	106.412	3/14/1997	Estimate and record fuel usage each month. Calculate the rolling-12 month emissions and ensure resulting 12 month emissions are less than the applicable limit.
91FA9003	106.412	3/14/1997	Estimate and record fuel usage each month. Calculate the rolling-12 month emissions and ensure resulting 12 month emissions are less than the applicable limit.

3. UNIT ATTRIBUTE FORMS

This section contains the following Unit Attribute Forms:

- OP-UA3 – Storage Tank Vessel Attributes
- OP-UA7 – Flare Attributes
- OP-UA12 – Fugitive Emission Attributes
- OP-UA13 – Industrial Process Cooling Tower Attributes

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 3)
Federal Operating Permit Program
Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels
(Including Petroleum Liquid Storage Vessels)
Texas Commisson on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	WW Tank Control	Maximum TVP	Storage Vessel Description	AMEL ID No.	Guidepole	Reid Vapor Pressure	Control Device ID No.
45FB7403	60Kb-3	VOL	40K+	NONE	0.75-11.1	IFR-MT				
47FB321	60Kb-9	VOL	20K-40K	NONE	2.2-4.0	NONE3				
47FB323	60Kb-9	VOL	20K-40K	NONE	2.2-4.0	NONE3				
90FB735	60Kb-1	VOL	40K+	NONE	0.75-11.1	IFR-MT				
91FB922	60Kb-1	VOL	40K+	NONE	0.75-11.1	IFR-SL				
91FB931	60Kb-1	VOL	40K+	NONE	0.75-11.1	EFR-MT3				
91FB917A	60Kb-1	VOL	40K+	NONE	0.5-					

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
91FB917A	R5112-1	NO		VOC1	A40K+			

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 5)
Federal Operating Permit Program
Table 4b: 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP/GOP Index No.	Construction Date	Tank Description	True Vapor Pressure	Primary Seal	Secondary Seal	Control Device Type	Control Device ID No.
91FB917A	R5112-1		NONE1	1-				

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 15)
Federal Operating Permit Program
Table 10a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Specified in 40 CFR §63.640(g)(1)-(6)	Subject to 40 CFR Part 63 Subparts F, G, H, or I	Group 1 Storage Vessel	Group 1 Applicability	Group 2 Applicability	Storage Vessel Description	Reid Vapor Pressure	Estimated TVP
~~22FB748~~	~~63CC-0~~	~~NO~~	~~NO~~	~~NO~~		~~CCPRO~~			
42FB2802	63CC-1	NO	NO	NO		CCPRO			
45FB7403	63CC-1	NO	NO	NO		KB			
47FB321	63CC-1	NO	NO	NO		KBNON			
47FB323	63CC-1	NO	NO	NO		KBNON			
90FB735	63CC-1	NO	NO	NO		KB			
91FB922	63CC-1	NO	NO	YES	KB				
91FB931	63CC-1	NO	NO	YES	KB				
91FB917A	63CC-1	NO	NO	NO		CCPRO			

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 16)
Federal Operating Permit Program
Table 10b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Product Stored	Storage Capacity	Maximum TVP	Storage Vessel Description	Reid Vapor Pressure	Tank Description	Control Device Type	Control Device ID No.
~~22FB748~~	~~63CC-0~~								
42FB2802	63CC-1								
45FB7403	63CC-1	VOL	40K+	0.75-11.1	IFR-MT				
47FB321	63CC-1								
47FB323	63CC-1								
90FB735	63CC-1	VOL	40K+	0.75-11.1	IFR-MT				
91FB922	63CC-1	PETROL	40K+	0.75-11.1	IFR-SL				
91FB931	63CC-1	VOL	40K+	0.75-11.1	EFR-MT3				
91FB917A	63CC-1								

Texas Commission on Ennvironmental Quality
Flare Attributes
Form OP-UA7 (Page 7)
Federal Operating Permit Program
Table 6: Title Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC, National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Flare Applicability	Operating Limits	AMEL ID No.	Flare Tip Velocity	Perimeter Assist Air
30FL1	63CC-1a	CC	REGOP		60-	NONE
30FL1	63CC-1b	CC	REGOP		60-400	NONE
30FL6	63CC-1a	CC	REGOP		60-	NONE
30FL6	63CC-1b	CC	REGOP		60-400	NONE

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 81)
Federal Operating Permit Program
Table 12a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Existing Source	Complying with Title 40 CFR Part 60, Subpart VV	AMEL
GRP-FUG	63CC-FUG	YES	YES	
GRP-FUG	63CCVV-PRDGV01	YES	YES	
GRP-FUG	63CCVV-PRDGV02	YES	YES	
GRP-FUG	63CCVV-PRDGV03	YES	YES	
GRP-FUG	63CCVV-PRDGV04	YES	YES	
GRP-FUG	63CCVV-PRDGV05	YES	YES	
GRP-FUG	63CCVV-PRDGV06	YES	YES	
GRP-FUG	63CCVV-PRDGV07	YES	YES	
GRP-FUG	63CCVV-PRDGV08	YES	YES	
GRP-FUG	63CCVV-PRDGV09	YES	YES	
GRP-FUG	63CCVV-PRDGV10	YES	YES	
GRP-FUG	63CCVV-PRDGV11	YES	YES	
GRP-FUG	63CCVV-PRDLL01	YES	YES	
GRP-FUG	63CCVV-PRDLL02	YES	YES	
GRP-FUG	63CCVV-PRDLL03	YES	YES	
GRP-FUG	63CCVV-PRDLL04	YES	YES	
GRP-FUG	63CCVV-PRDLL05	YES	YES	

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 87)
Federal Operating Permit Program
Table 12g: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV								
		Any	Pumps							
		Vacuum Service	Light Liquid Service	EEL	EEL ID No.	Complying with §60.482-2	Heavy Liquid Service	EEL	EEL ID No.	Complying with §60.482-8
GRP-FUG	63CC-FUG	NO	YES	NO		YES	YES	NO		YES
GRP-FUG	63CCVV-PRDGV01									
GRP-FUG	63CCVV-PRDGV02									
GRP-FUG	63CCVV-PRDGV03									
GRP-FUG	63CCVV-PRDGV04									
GRP-FUG	63CCVV-PRDGV05									
GRP-FUG	63CCVV-PRDGV06									
GRP-FUG	63CCVV-PRDGV07									
GRP-FUG	63CCVV-PRDGV08									
GRP-FUG	63CCVV-PRDGV09									
GRP-FUG	63CCVV-PRDGV10									
GRP-FUG	63CCVV-PRDGV11									
GRP-FUG	63CCVV-PRDLL01									
GRP-FUG	63CCVV-PRDLL02									
GRP-FUG	63CCVV-PRDLL03									
GRP-FUG	63CCVV-PRDLL04									
GRP-FUG	63CCVV-PRDLL05									

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 88)
Federal Operating Permit Program
Table 12h: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV				
		Compressors				
		Hydrogen Service	Not in Hydrogen Service	EEL	EEL ID No.	Complying with §60.482-3
GRP-FUG	63CC-FUG	NO	YES	NO		YES
GRP-FUG	63CCVV-PRDGV01					
GRP-FUG	63CCVV-PRDGV02					
GRP-FUG	63CCVV-PRDGV03					
GRP-FUG	63CCVV-PRDGV04					
GRP-FUG	63CCVV-PRDGV05					
GRP-FUG	63CCVV-PRDGV06					
GRP-FUG	63CCVV-PRDGV07					
GRP-FUG	63CCVV-PRDGV08					
GRP-FUG	63CCVV-PRDGV09					
GRP-FUG	63CCVV-PRDGV10					
GRP-FUG	63CCVV-PRDGV11					
GRP-FUG	63CCVV-PRDLL01					
GRP-FUG	63CCVV-PRDLL02					
GRP-FUG	63CCVV-PRDLL03					
GRP-FUG	63CCVV-PRDLL04					
GRP-FUG	63CCVV-PRDLL05					

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 89)
Federal Operating Permit Program
Table 12i: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV				
		Pressure Relief Devices				
		Gas/Vapor Service	Light Liquid Service	EEL	EEL ID No.	Complying with §60.482-8
GRP-FUG	63CC-FUG	~~YES~~ NO	~~YES~~ NO	~~NO~~		~~YES~~
GRP-FUG	63CCVV-PRDGV01	YES		NO		YES
GRP-FUG	63CCVV-PRDGV02	YES		NO		YES
GRP-FUG	63CCVV-PRDGV03	YES		NO		YES
GRP-FUG	63CCVV-PRDGV04	YES		NO		YES
GRP-FUG	63CCVV-PRDGV05	YES		NO		YES
GRP-FUG	63CCVV-PRDGV06	YES		NO		YES
GRP-FUG	63CCVV-PRDGV07	YES		NO		YES
GRP-FUG	63CCVV-PRDGV08	YES		NO		YES
GRP-FUG	63CCVV-PRDGV09	YES		NO		YES
GRP-FUG	63CCVV-PRDGV10	YES		NO		YES
GRP-FUG	63CCVV-PRDGV11	YES		NO		YES
GRP-FUG	63CCVV-PRDLL01		YES	NO		YES
GRP-FUG	63CCVV-PRDLL02		YES	NO		YES
GRP-FUG	63CCVV-PRDLL03		YES	NO		YES
GRP-FUG	63CCVV-PRDLL04		YES	NO		YES
GRP-FUG	63CCVV-PRDLL05		YES	NO		YES

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 90)
Federal Operating Permit Program
Table 12j: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with MACT VV							
		Pressure Relief Devices (continued)				Sampling Connection Systems	EEL	EEL ID No.	Complying with § 60.482-5
		Heavy Liquid Service	EEL	EEL ID No.	Complying with §60.482-8				
GRP-FUG	63CC-FUG	YES	NO		YES	YES	NO		YES
GRP-FUG	63CCVV-PRDGV01								
GRP-FUG	63CCVV-PRDGV02								
GRP-FUG	63CCVV-PRDGV03								
GRP-FUG	63CCVV-PRDGV04								
GRP-FUG	63CCVV-PRDGV05								
GRP-FUG	63CCVV-PRDGV06								
GRP-FUG	63CCVV-PRDGV07								
GRP-FUG	63CCVV-PRDGV08								
GRP-FUG	63CCVV-PRDGV09								
GRP-FUG	63CCVV-PRDGV10								
GRP-FUG	63CCVV-PRDGV11								
GRP-FUG	63CCVV-PRDLL01								
GRP-FUG	63CCVV-PRDLL02								
GRP-FUG	63CCVV-PRDLL03								
GRP-FUG	63CCVV-PRDLL04								
GRP-FUG	63CCVV-PRDLL05								

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 91)
Federal Operating Permit Program
Table 12k: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with MACT VV								
		Open-ended Valves or Lines	EEL	EEL ID No.	Complying with §60.482-6	Valves				
						Gas/Vapor or Light Liquid Service	2.0%	EEL	EEL ID No.	Complying with § 60.482-7
GRP-FUG	63CC-FUG	NO				YES	NO	NO		YES
GRP-FUG	63CCVV-PRDGV01									
GRP-FUG	63CCVV-PRDGV02									
GRP-FUG	63CCVV-PRDGV03									
GRP-FUG	63CCVV-PRDGV04									
GRP-FUG	63CCVV-PRDGV05									
GRP-FUG	63CCVV-PRDGV06									
GRP-FUG	63CCVV-PRDGV07									
GRP-FUG	63CCVV-PRDGV08									
GRP-FUG	63CCVV-PRDGV09									
GRP-FUG	63CCVV-PRDGV10									
GRP-FUG	63CCVV-PRDGV11									
GRP-FUG	63CCVV-PRDLL01									
GRP-FUG	63CCVV-PRDLL02									
GRP-FUG	63CCVV-PRDLL03									
GRP-FUG	63CCVV-PRDLL04									
GRP-FUG	63CCVV-PRDLL05									

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 92)
Federal Operating Permit Program
Table 12I: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with MACT VV							
		Valves (continued)				Flanges and Other Connectors	EEL	EEL ID No.	Complying with § 60.482-8
		Heavy Liquid Service	EEL	EEL ID No.	Complying with §60.482-8				
GRP-FUG	63CC-FUG	YES	NO		YES	YES	NO		YES
GRP-FUG	63CCVV-PRDGV01								
GRP-FUG	63CCVV-PRDGV02								
GRP-FUG	63CCVV-PRDGV03								
GRP-FUG	63CCVV-PRDGV04								
GRP-FUG	63CCVV-PRDGV05								
GRP-FUG	63CCVV-PRDGV06								
GRP-FUG	63CCVV-PRDGV07								
GRP-FUG	63CCVV-PRDGV08								
GRP-FUG	63CCVV-PRDGV09								
GRP-FUG	63CCVV-PRDGV10								
GRP-FUG	63CCVV-PRDGV11								
GRP-FUG	63CCVV-PRDLL01								
GRP-FUG	63CCVV-PRDLL02								
GRP-FUG	63CCVV-PRDLL03								
GRP-FUG	63CCVV-PRDLL04								
GRP-FUG	63CCVV-PRDLL05								

Fugitive Emission Unit Attributes
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Table 12m: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV				
		Closed Vent System and Control Devices				
		Vapor Recovery System	EEL	EEL ID No.	Complying with §60.482-10	Control Device ID No.
GRP-FUG	63CC-FUG	NO				
GRP-FUG	63CCVV-PRDGV01					
GRP-FUG	63CCVV-PRDGV02					
GRP-FUG	63CCVV-PRDGV03					
GRP-FUG	63CCVV-PRDGV04					
GRP-FUG	63CCVV-PRDGV05					
GRP-FUG	63CCVV-PRDGV06					
GRP-FUG	63CCVV-PRDGV07					
GRP-FUG	63CCVV-PRDGV08					
GRP-FUG	63CCVV-PRDGV09					
GRP-FUG	63CCVV-PRDGV10					
GRP-FUG	63CCVV-PRDGV11					
GRP-FUG	63CCVV-PRDLL01					
GRP-FUG	63CCVV-PRDLL02					
GRP-FUG	63CCVV-PRDLL03					
GRP-FUG	63CCVV-PRDLL04					
GRP-FUG	63CCVV-PRDLL05					

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 94)
Federal Operating Permit Program
Table 12n: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV				
		Closed Vent System and Control Devices (continued)				
		Enclosed Combustion Device	EEL	EEL ID No.	Complying with §60.482-10	Control Device ID No.
GRP-FUG	63CC-FUG	NO				
GRP-FUG	63CCVV-PRDGV01					
GRP-FUG	63CCVV-PRDGV02					
GRP-FUG	63CCVV-PRDGV03					
GRP-FUG	63CCVV-PRDGV04					
GRP-FUG	63CCVV-PRDGV05					
GRP-FUG	63CCVV-PRDGV06					
GRP-FUG	63CCVV-PRDGV07					
GRP-FUG	63CCVV-PRDGV08					
GRP-FUG	63CCVV-PRDGV09					
GRP-FUG	63CCVV-PRDGV10					
GRP-FUG	63CCVV-PRDGV11					
GRP-FUG	63CCVV-PRDLL01					
GRP-FUG	63CCVV-PRDLL02					
GRP-FUG	63CCVV-PRDLL03					
GRP-FUG	63CCVV-PRDLL04					
GRP-FUG	63CCVV-PRDLL05					

Fugitive Emission Unit Attributes
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Federal Operating Permit Program
Table 12o: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	O1381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV					
		Closed Vent System and Control Devices (continued)					
		Flare	Control Device ID No.	Closed Vent (or Vapor Collection) Systems	EEL	EEL ID No.	Complying with §60.482-10
GRP-FUG	63CC-FUG	YES		YES	NO		YES
GRP-FUG	63CCVV-PRDGV01						
GRP-FUG	63CCVV-PRDGV02						
GRP-FUG	63CCVV-PRDGV03						
GRP-FUG	63CCVV-PRDGV04						
GRP-FUG	63CCVV-PRDGV05						
GRP-FUG	63CCVV-PRDGV06						
GRP-FUG	63CCVV-PRDGV07						
GRP-FUG	63CCVV-PRDGV08						
GRP-FUG	63CCVV-PRDGV09						
GRP-FUG	63CCVV-PRDGV10						
GRP-FUG	63CCVV-PRDGV11						
GRP-FUG	63CCVV-PRDLL01						
GRP-FUG	63CCVV-PRDLL02						
GRP-FUG	63CCVV-PRDLL03						
GRP-FUG	63CCVV-PRDLL04						
GRP-FUG	63CCVV-PRDLL05						

Fugitive Emission Unit Attributes
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Federal Operating Permit Program
Table 12p: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	01381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components									
		Pressure Relief Devices in Gas/Vapor Service									
		Routing to Control	§63.648(j)(5) Exemptions	Pilot-Operated PRD	Balanced Bellows PRD	Control Device Type	Control Device ID No.	Alternate Parameter Monitoring	Continuous Operating Parameter Alternative	Alternate ID No.	Automated Data Recording
GRP-FUG	63CC-FUG										
GRP-FUG	63CCVV-PRDGV01	NO	YES								
GRP-FUG	63CCVV-PRDGV02	NO	NO	YES		PROCESS					
GRP-FUG	63CCVV-PRDGV03	NO	NO	YES		FUEL					
GRP-FUG	63CCVV-PRDGV04	NO	NO	YES		FLARE			NO		
GRP-FUG	63CCVV-PRDGV05	NO	NO	NO	YES	PROCESS					
GRP-FUG	63CCVV-PRDGV06	NO	NO	NO	YES	FUEL					
GRP-FUG	63CCVV-PRDGV07	NO	NO	NO	YES	FLARE			NO		
GRP-FUG	63CCVV-PRDGV08	NO	NO	NO	NO						
GRP-FUG	63CCVV-PRDGV09	YES				PROCESS					
GRP-FUG	63CCVV-PRDGV10	YES				FUEL					
GRP-FUG	63CCVV-PRDGV11	YES				FLARE			NO		
GRP-FUG	63CCVV-PRDLL01										
GRP-FUG	63CCVV-PRDLL02										
GRP-FUG	63CCVV-PRDLL03										
GRP-FUG	63CCVV-PRDLL04										
GRP-FUG	63CCVV-PRDLL05										

Fugitive Emission Unit Attributes
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Table 12q: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries
Texas Comission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/13/2025	O1381	RN100219310

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components								Title 40 CFR Part 63, Subpart CC Fugitive Unit Description
		Pressure Relief Devices in Liquid Service (MACT H) or Light Liquid Service (NSPS VV)								
		§63.648(j)(5) Exemptions	Routing to Control	Control Device Type	Control Device ID No.	Alternate Parameter Monitoring	Continuous Operating Parameter Alternative	Alternate ID No.	Automated Data Recording	
GRP-FUG	63CC-FUG									
GRP-FUG	63CCVV-PRDGV01									PRDs in Gas/Vapor Service meeting exemptions in §63.648(j)(5).
GRP-FUG	63CCVV-PRDGV02									Pilot Operated PRDs in Gas/Vapor Service routed back to the process.
GRP-FUG	63CCVV-PRDGV03									Pilot Operated PRDs in Gas/Vapor Service routed to the fuel gas system.
GRP-FUG	63CCVV-PRDGV04									Pilot Operated PRDs in Gas/Vapor Service routed to a flare control device.
GRP-FUG	63CCVV-PRDGV05									Balanced Bellows PRDs in Gas/Vapor Service routed back to the process.
GRP-FUG	63CCVV-PRDGV06									Balanced Bellows PRDs in Gas/Vapor Service routed to the fuel gas system.
GRP-FUG	63CCVV-PRDGV07									Pilot Operatied PRDs in Gas/Vapor Service routed to a flare control device.
GRP-FUG	63CCVV-PRDGV08									All other PRDs in Gas/Vapor Service not controlled.
GRP-FUG	63CCVV-PRDGV09									All other PRDs in Gas/Vapor Service routed back to the process.
GRP-FUG	63CCVV-PRDGV10									All other PRDs in Gas/Vapor Service routed to the fuel gas system.
GRP-FUG	63CCVV-PRDGV11									All other PRDs in Gas/Vapor Service routed to a flare control device.
GRP-FUG	63CCVV-PRDLL01	YES								PRDs in Light Liquid Service meeting exemptions in §63.648(j)(5).
GRP-FUG	63CCVV-PRDLL02	NO	NO							PRDs in Light Liquid Service not controlled.
GRP-FUG	63CCVV-PRDLL03	NO	YES	PROCESS						PRDs in Light Liquid Service routed back to the process.
GRP-FUG	63CCVV-PRDLL04	NO	YES	FUEL						PRDs in Light Liquid Service routed to the fuel gas system.
GRP-FUG	63CCVV-PRDLL05	NO	YES	FLARE			NO			PRDs in Light Liquid Service routed to a flare control device.

Texas Commission on Environmental Quality
Cooling Tower Attributes
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Table 5: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Date:	Permit No.:	Regulated Entity No.:
8/13/2025	01381	RN100219310

UNIT ID No.	SOP Index No.	Monitoring Exemption	Existing Source	Heating Exchange System Type
40CWT11	63CC-6	NONE	EXIST	CLOSED
GRP-CWT	63CC-6	NONE	EXIST	CLOSED

4. APPLICABLE REQUIREMENTS SUMMARY FORMS

This section contains the following forms and information:

- Form OP-REQ1 – Application Area-Wide Applicability Determinations and General Information
- Form OP-REQ3 – Applicable Requirements Summary
- Major NSR Summary Table for NSR Permit 2501A & PSDTX767M2

Date	Permit No.	Regulated Entity No.
08/13/2025	O1381	RN100219310

For SOP applications, answer ALL questions unless otherwise directed.
♦ For GOP applications, answer ONLY these questions unless otherwise directed.

VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)**	
G.	**Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)**	
3.	The application area includes benzene transfer operations at railcar loading racks.	☐ Yes ☐ No
4.	The application area includes benzene transfer operations at tank-truck loading racks.	☐ Yes ☐ No
H.	**Subpart FF - National Emission Standard for Benzene Waste Operations**	
	Applicability	
1.	The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	☒ Yes ☐ No
2.	The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). *If the responses to Questions VII.H.1 and VII.H.2 are both "No," go to Section VIII.*	☐ Yes ☒ No
3.	The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. *If the response to Question VII.H.3 is "Yes," go to Section VIII.*	☐ Yes ☒ No
4.	The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr). *If the response to Question VII.H.4 is "Yes," go to Section VIII*	☐ Yes ☒ No
5.	The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr. *If the response to Question VII.H.5 is "Yes," go to Section VIII.*	☐ Yes ☒ No

Date	Permit No.	Regulated Entity No.
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VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)**	
	H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
	***Applicability* (continued)**	
6.	The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.	☐ Yes ☒ No
7.	The application area has waste streams with flow-weighted annual average water content of 10% or greater.	☒ Yes ☐ No
	Waste Stream Exemptions	
8.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).	☐ Yes ☒ No
9.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr.	☐ Yes ☒ No
10.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr.	☐ Yes ☒ No
11.	The application area transfers waste off-site for treatment by another facility.	☒ Yes ☐ No
12.	The application area is complying with 40 CFR § 61.342(d).	☐ Yes ☒ No
13.	The application area is complying with 40 CFR § 61.342(e). *If the response to Question VII.H.13 is "No," go to Question VII.H.15.*	☒ Yes ☐ No
14.	The application area has facility waste with a flow weighted annual average water content of less than 10%.	☒ Yes ☐ No

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For SOP applications, answer ALL questions unless otherwise directed.
♦ For GOP applications, answer ONLY these questions unless otherwise directed.

VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)**	
	H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
	Container Requirements	
15.	The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. *If the response to Question VII.H.15 is "No," go to Question VII.H.18.*	☒ Yes ☐ No
16.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VII.H.16 is "Yes," go to Question VII.H.18.*	☐ Yes ☒ No
17.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐ Yes ☒ No
	Individual Drain Systems	
18.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. *If the response to Question VII.H.18 is "No," go to Question VII.H.25.*	☒ Yes ☐ No
19.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VII.H.19 is "Yes," go to Question VII.H.25.*	☐ Yes ☒ No
20.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VII.H.20 is "No," go to Question VII.H.22.*	☐ Yes ☒ No
21.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐ Yes ☐ No

Date	Permit No.	Regulated Entity No.
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For SOP applications, answer ALL questions unless otherwise directed.
♦ For GOP applications, answer ONLY these questions unless otherwise directed.

VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)**		
	H.	**Subpart FF - National Emission Standard for Benzene Waste Operations (continued)**	
		***Individual Drain Systems* (continued)**	
	22.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VII.H.22 is "No," go to Question VII.H.25.*	☐ Yes ☒ No
	23.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐ Yes ☐ No
	24.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐ Yes ☐ No
		Remediation Activities	
	25.	Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	☒ Yes ☐ No
VIII.	**Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories**		
	A.	**Applicability**	
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63. *See instructions for 40 CFR Part 63 subparts made applicable only by reference.*	☐ Yes ☐ No
	B.	**Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry**	
	1.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). *If the response to Question VIII.B.1 is "No," go to Section VIII.D.*	☐ Yes ☐ No

Date	Permit No.	Regulated Entity No.
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For SOP applications, answer ALL questions unless otherwise directed.
♦ For GOP applications, answer ONLY these questions unless otherwise directed.

XII. NSR Authorizations (Attach additional sheets if necessary for sections XII.E-J.)

E. PSD Permits and PSD Major Pollutants

Permit No.	Issuance Date	Pollutant(s):	Permit No.	Issuance Date	Pollutant(s):
PSDTX767M2	07/22/2025				

If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

F. Nonattainment (NA) Permits and NA Major Pollutants

Permit No.	Issuance Date	Pollutant(s):	Permit No.	Issuance Date	Pollutant(s):

If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

G. NSR Authorizations with FCAA § 112(g) Requirements

NSR Permit No.	Issuance Date	NSR Permit No.	Issuance Date	NSR Permit No	Issuance Date

Date	Permit No.	Regulated Entity No.
08/13/2025	O1381	RN100219310

For SOP applications, answer ALL questions unless otherwise directed.
♦ For GOP applications, answer ONLY these questions unless otherwise directed.

XII. NSR Authorizations (continued) - (Attach additional sheets if necessary for sections XII.E-J.)

♦ **H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area**

Authorization No.	Issuance Date	Authorization No.	Issuance Date	Authorization No.	Issuance Date
2501A	07/22/2025	154326	12/07/2018		
88508	10/29/2021	~~133453~~	~~07/23/2015~~		
101541	04/15/2021				
124424	05/27/2025				

♦ **I. Permits by Rule (30 TAC Chapter 106) for the Application Area**
A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.

PBR No.	Version No./Date	PBR No.	Version No./Date	PBR No.	Version No./Date
106.122	09/04/2000	106.412	03/14/1997	5	09/12/1989
106.261	03/14/1997	106.454	07/08/1998	51	06/07/1996
~~106.261~~	~~09/04/2000~~	106.472	03/14/1997	53	10/04/1995
106.261	11/01/2003	106.472	09/04/2000	~~86~~	~~09/12/1989~~
~~106.262~~	~~09/04/2000~~	106.473	03/14/1997	86	04/05/1995
106.262	11/01/2003	106.478	03/14/1997	86	06/07/1996
106.263	11/01/2001	106.478	09/04/2000	102	01/08/1980
106.264	03/14/1997	106.511	09/04/2000	106	06/07/1996
106.355	11/01/2001	106.533	07/04/2004	118	06/07/1996
106.371	09/04/2000				

♦ **J. Municipal Solid Waste and Industrial Hazardous Waste Permits with an Air Addendum**

Permit No.	Issuance Date	Permit No.	Issuance Date	Permit No.	Issuance Date

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
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Table 1a: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
4	30FL1	OP-UA7	63CC-1a	HAPs	40 CFR Part 63 Subpart CC	§63.670(c) §63.642(b), (n) §63.670, (b) §63.670(d) §63.670(d)(1), (e) §63.670(o), [G](o)(1)-(5) §63.670(o)(6), [G](o)(7) [G]§63.671(c)
4	30FL1	OP-UA7	63CC-1b	HAPs	40 CFR Part 63 Subpart CC	§63.670(c) §63.642(b), (n) §63.670, (b) §63.670(d), (d)(2), (e) §63.670(o), [G](o)(1)-(5) §63.670(o)(6), [G](o)(7) [G]§63.671(c)
4	30FL6	OP-UA7	63CC-1a	HAPs	40 CFR Part 63 Subpart CC	§63.670(c) §63.642(b), (n) §63.670, (b) §63.670(d) §63.670(d)(1), (e) §63.670(o), [G](o)(1)-(5) §63.670(o)(6), [G](o)(7) [G]§63.671(c)
4	30FL6	OP-UA7	63CC-1b	HAPs	40 CFR Part 63 Subpart CC	§63.670(c) §63.642(b), (n) §63.670, (b) §63.670(d), (d)(2), (e) §63.670(o), [G](o)(1)-(5) §63.670(o)(6), [G](o)(7) [G]§63.671(c)
6	40CWT11	OP-UA13	63CC-6	HAPs	40 CFR Part 63 Subpart CC	§63.654(a) §63.642(b), (n) [G]§63.654(d), [G](f)

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
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Table 1b: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
4	30FL1	63CC-1a	HAPs	§63.642(d)(1) §63.670(b)-(c) §63.670(d)(1) §63.670(e) §63.670(g) [G]§63.670(h)-(i) [G]§63.670(j)-(k), [G](m) [G]§63.671(a)-(e)	§63.655(i), (i)(6), (i)(9) [G]§63.670(h)-(i) [G]§63.670(j) [G]§63.670(o)(1), [G](o)(5), (o)(6), (p) [G]§63.671(a)-(b)	§63.642(f) §63.655(g), (g)(11), (g)(14) [G]§63.670(h) [G]§63.670(j) [G]§63.670(o)(2), (q)
4	30FL1	63CC-1b	HAPs	§63.642(d)(1) §63.670(b)-(c), (d)(2), (e), (g), [G](h)-(i) [G]§63.670(j)-(k), [G](l), [G](m) [G]§63.671(a)-(e)	§63.655(i), (i)(6), (i)(9) [G]§63.670(h)-(i) [G]§63.670(j) [G]§63.670(o)(1), [G](o)(5), (o)(6), (p) [G]§63.671(a)-(b)	§63.642(f) §63.655(g), g)(11), (g)(14) [G]§63.670(h), [G](j), [G](l) [G]§63.670(o)(2), (q)
4	30FL6	63CC-1a	HAPs	§63.642(d)(1) §63.670(b)-(c) §63.670(d)(1) §63.670(e) §63.670(g) [G]§63.670(h)-(i) [G]§63.670(j)-(k), [G](m) [G]§63.671(a)-(e)	§63.655(i), (i)(6), (i)(9) [G]§63.670(h)-(i) [G]§63.670(j) [G]§63.670(o)(1), [G](o)(5), (o)(6), (p) [G]§63.671(a)-(b)	§63.642(f) §63.655(g), (g)(11), (g)(14) [G]§63.670(h) [G]§63.670(j) [G]§63.670(o)(2), (q)
4	30FL6	63CC-1b	HAPs	§63.642(d)(1) §63.670(b)-(c), (d)(2), (e), (g), [G](h)-(i) [G]§63.670(j)-(k), [G](l), [G](m) [G]§63.671(a)-(e)	§63.655(i), (i)(6), (i)(9) [G]§63.670(h)-(i) [G]§63.670(j) [G]§63.670(o)(1), [G](o)(5), (o)(6), (p) [G]§63.671(a)-(b)	§63.642(f) §63.655(g), g)(11), (g)(14) [G]§63.670(h), [G](j), [G](l) [G]§63.670(o)(2), (q)
6	40CWT11	63CC-6	HAPs	§63.642(d)(1), (d)(3)-(4) §63.654(c), [G](c)(1), (c)(3), [G](c)(4) [G]§63.654(c)(6), [G](d), (e) [G]§63.654(f), [G](g)	§63.642(d)(3) [G]§63.654(g) §63.655(i), (i)(5), (i)(5)(i)-(ii) [G]§63.655(i)(5)(iii), (i)(5)(iv)-(v), (i)(6)	§63.642(d)(2), (f) [G]§63.654(c)(4) §63.655(f), (f)(1)(vi), (f)(4) §63.655(g), [G](g)(9), (g)(14) §63.655(h), (h)(7)

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Table 1a: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
3	42FB2802	OP-UA3	63CC-1	HAPs	40 CFR Part 63 Subpart CC	§63.640(c)(2) §63.642(b), (n)
3	45FB7403	OP-UA3	63CC-1	HAPs	40 CFR Part 63 Subpart CC	§63.640(n)(8)|1 §60.112b(a)(1), (a)(1)(i) §60.112b(a)(1)(ii)(C) §60.112b(a)(1)(iii)-(ix) §63.640(n)(8)(ii)-(iii) §63.642(b), (n)
3	90FB735	OP-UA3	63CC-1	HAPs	40 CFR Part 63 Subpart CC	§63.640(n)(8)|1 §60.112b(a)(1), (a)(1)(i) §60.112b(a)(1)(ii)(C) §60.112b(a)(1)(iii)-(ix) §63.640(n)(8)(ii)-(iii) §63.642(b), (n)
8	91FB917A	OP-UA3	R5112-1	VOC	30 TAC Chapter 115, Subchapter B: Storage of Volatile Organic Compounds (VOCs)	§115.111(a)(1)
8	91FB917A	OP-UA3	63CC-1	HAPs	40 CFR Part 63 Subpart CC	§63.640(c)(2) §63.642(b), (n)

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Table 1b: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
3	42FB2802	63CC-1	HAPs	§63.660(a)(1)-(2)	§63.655(g)(7)(ii) §63.655(i), (i)(1)(vi) §63.655(i)(6) §63.660(a)(1)	§63.642(f) §63.655(f), (f)(1)(i)(A) §63.655(g), (g)(7), (g)(7)(i), (g)(14) §63.655(h), (h)(6), (h)(6)(ii)
3	45FB7403	63CC-1	HAPs	§60.113b(a)(1) §60.113b(a)(2) §60.113b(a)(4) §60.113b(a)(5) §60.116b(a)-(b) §60.116b(c) §60.116b(e), (e)(1), [G](e)(3) §63.640(n)(8)(ii) §63.1063(c)(2)(iv)(A)-(B)	§60.115b §60.115b(a)(2) §60.116b(a)-(b) §60.116b(c)	§60.113b(a)(2) §60.113b(a)(5) §60.115b §60.115b(a)(1) §60.115b(a)(3) §63.640(n)(8)(iv), (n)(8)(v) §63.1063(c)(2)(iv)(B)
3	90FB735	63CC-1	HAPs	§60.113b(a)(1) §60.113b(a)(2) §60.113b(a)(4) §60.113b(a)(5) §60.116b(a)-(b) §60.116b(c) §60.116b(e), (e)(1), [G](e)(3) §63.640(n)(8)(ii) §63.1063(c)(2)(iv)(A)-(B)	§60.115b §60.115b(a)(2) §60.116b(a)-(b) §60.116b(c)	§60.113b(a)(2) §60.113b(a)(5) §60.115b §60.115b(a)(1) §60.115b(a)(3) §63.640(n)(8)(iv), (n)(8)(v) §63.1063(c)(2)(iv)(B)
8	91FB917A	R5112-1	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(6)(A), (a)(7)	None
8	91FB917A	63CC-1	HAPs	§63.660(a)(1)-(2)	§63.655(g)(7)(ii) §63.655(i), (i)(1)(vi) §63.655(i)(6) §63.660(a)(1)	§63.642(f) §63.655(f), (f)(1)(i)(A) §63.655(g), (g)(7), (g)(7)(i), (g)(14) §63.655(h), (h)(6), (h)(6)(ii)

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Table 1a: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
3	91FB922	OP-UA3	63CC-1	HAPs	40 CFR Part 63 Subpart CC	§63.640(n)(8)|2 §60.112b(a)(1), (a)(1)(i) §60.112b(a)(1)(ii)(B) §60.112b(a)(1)(iii)-(ix) §63.640(n)(8)(ii)-(iii), (n)(8)(vii) §63.642(b), (n)
3	91FB931	OP-UA3	63CC-1	HAPs	40 CFR Part 63 Subpart CC	§63.640(n)(8)|2 [G]§60.112b(a)(2) §63.640(n)(8)(i) §63.640(n)(8)(ii)-(iii), (n)(8)(vii) §63.642(b), (n)
6	GRP-CWT	OP-UA13	63CC-6	HAPs	40 CFR Part 63 Subpart CC	§63.654(a) §63.642(b), (n) [G]§63.654(d), [G](f)
5	GRP-FUG	OP-UA12	63CC-FUG (closed vent systems)	HAPS	40 CFR Part 63, Subpart CC	§63.648(a)|45 §60.482-10 §60.482-1(a), (b), (g) [G]§60.482-10(f), [G](g), (h)-(i) [G]§60.482-10(j)-(k), (m) §60.486(k) §63.642(b), (n) §63.648(a)(2)

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Table 1b: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: 01381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
3	91FB922	63CC-1	HAPs	§60.113b(a)(1) [G]§60.113b(a)(3) §60.113b(a)(4) §60.113b(a)(5) §60.116b(a)-(b) §60.116b(c) §60.116b(e), (e)(1) §60.116b(e)(2), (e)(2)(i) §63.640(n)(8)(ii) §63.1063(c)(2)(iv)(A)-(B)	§60.115b §60.115b(a)(2) §60.116b(a)-(c)	§60.113b(a)(5) §60.115b §60.115b(a)(1) §60.115b(a)(4) §63.640(n)(8)(iv), (n)(8)(v) §63.1063(c)(2)(iv)(B)
3	91FB931	63CC-1	HAPs	[G]§60.113b(b)(1)-(2) §60.113b(b)(3), (b)(4), (b)(4)(i) §60.113b(b)(4)(i)(A) §60.113b(b)(4)(i)(B), [G](b)(4)(ii) §60.113b(b)(4)(iii) §60.113b(b)(5)-(6) §60.113b(b)(6)(i)-(ii) §60.116b(a)-(b) §60.116b(c) §60.116b(e), (e)(1), [G](e)(3) §63.640(n)(8)(ii) §63.1063(c)(2)(iv)(A)-(B)	§60.115b [G]§60.115b(b)(3) §60.116b(a)-(b) §60.116b(c) §63.640(n)(8)(vi)	§60.113b(b)(4)(iii), (b)(5), (b)(6)(ii) §60.115b §60.115b(b)(1), [G](b)(2), (b)(4) §63.640(n)(8)(iv), (n)(8)(v) §63.1063(c)(2)(iv)(B)
6	GRP-CWT	63CC-6	HAPs	§63.642(d)(1), (d)(3)-(4) §63.654(c), [G](c)(1), (c)(3), [G](c)(4) [G]§63.654(c)(6), [G](d), (e) [G]§63.654(f), [G](g)	§63.642(d)(3) [G]§63.654(g) §63.655(i), (i)(5), (i)(5)(i)-(ii) [G]§63.655(i)(5)(iii), (i)(5)(iv)-(v), (i)(6)	§63.642(d)(2), (f) [G]§63.654(c)(4) §63.655(f), (f)(1)(vi), (f)(4) §63.655(g), [G](g)(9), (g)(14) §63.655(h), (h)(7)
5	GRP-FUG	63CC-FUG (closed vent systems)	HAPs	§60.485(a), [G](b) [G]§60.485(d), (f)	§60.482-1(g) [G]§60.482-10(l) [G]§60.486(a), [G](d), (e), (e)(1), (j) §63.648(h) §63.655(d)(1)(i), (i), (i)(6)	§60.487(a), [G](b) [G]§60.487(c), (e) §63.642(f) §63.655(d)(2)

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Table 1a: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: 01381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV01	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) [G]§63.648(j)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV02	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) [G]§63.648(j)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV03	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) [G]§63.648(j)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV04	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) §63.644(a)(2) [G]§63.648(j)(2), (j)(4)(iv) §63.670
5	GRP-FUG	OP-UA12	63CCVV-PRDGV05	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) [G]§63.648(j)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV06	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) [G]§63.648(j)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV07	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) §63.644(a)(2) [G]§63.648(j)(2), (j)(4)(iv) §63.670
5	GRP-FUG	OP-UA12	63CCVV-PRDGV08	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(1) §63.642(b), (n) [G]§63.648(j)(2), [G](j)(3)(ii), [G](j)(3)(v) [G]§63.648(j)(6)-(7)
5	GRP-FUG	OP-UA12	63CCVV-PRDGV11	HAPS	40 CFR Part 63, Subpart CC	§63.648(j)(4)(iv) §63.642(b), (n) §63.644(a)(2) §63.670

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Table 1b: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
5	F-01	63CCVV-PRDGV01	HAPS	[G]§63.648(j)(2)	§63.648(h) §63.655(i), (i)(6)	§63.642(f) §63.655(g), [G](g)(10)
5	F-01	63CCVV-PRDGV02	HAPS	[G]§63.648(j)(2)	§63.648(h) §63.655(i), (i)(6) §63.655(i)(11), (i)(11)(iv)	§63.642(f) §63.655(g), [G](g)(10)
5	F-01	63CCVV-PRDGV03	HAPS	[G]§63.648(j)(2)	§63.648(h) §63.655(i), (i)(6) §63.655(i)(11), (i)(11)(iv)	§63.642(f) §63.655(g), [G](g)(10)
5	F-01	63CCVV-PRDGV04	HAPS	§63.644(a), (e) [G]§63.648(j)(2)	§63.648(h) §63.655(i), [G](i)(3), (i)(6) §63.655(i)(11), (i)(11)(iv)	§63.642(f) §63.655(f), (f)(4), (g), (g)(6) [G]§63.655(g)(10), (g)(14), (h)
5	F-01	63CCVV-PRDGV05	HAPS	[G]§63.648(j)(2)	§63.648(h) §63.655(i), (i)(6)	§63.642(f) §63.655(g), [G](g)(10)
5	F-01	63CCVV-PRDGV06	HAPS	[G]§63.648(j)(2)	§63.648(h) §63.655(i), (i)(6)	§63.642(f) §63.655(g), [G](g)(10)
5	F-01	63CCVV-PRDGV07	HAPS	§63.644(a), (e) [G]§63.648(j)(2)	§63.648(h) §63.655(i), [G](i)(3), (i)(6)	§63.642(f) §63.655(f), (f)(4), (g), (g)(6) [G]§63.655(g)(10), (g)(14), (h)
5	F-01	63CCVV-PRDGV08	HAPS	[G]§63.648(j)(2) [G]§63.648(j)(3)(i)-(ii), (j)(3)(iii)-(iv)	§63.648(h), [G](j)(3)(i)-(ii) §63.655(i), (i)(6) §63.655(i)(11), (i)(11)(i)-(ii) [G]§63.655(i)(11)(iii)	§63.642(f) §63.648(j)(3)(iii) §63.655(f), [G](f)(1)(vii), (g) [G]§63.655(g)(10), (g)(14)
5	F-01	63CCVV-PRDGV11	HAPS	§63.644(a), (e)	§63.648(h) §63.655(i), [G](i)(3), (i)(6)	§63.642(f) §63.655(f), (f)(4), (g), (g)(6), [G](g)(10) §63.655(g)(14), (h)

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Table 1a: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
5	GRP-FUG	OP-UA12	63CCVV-PRDLL01	HAPS	40 CFR Part 63, Subpart CC	§63.648(a)|48 §60.482-1(a), (b), (g) §60.482-8(a), (a)(2), (b), (c)(1)-(2), (d) §60.482-9(a)-(b) §60.486(k) §63.642(b), (n) §63.648(a)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDLL02	HAPS	40 CFR Part 63, Subpart CC	§63.648(a)|48 §60.482-1(a), (b), (g) §60.482-8(a), (a)(2), (b), (c)(1)-(2), (d) §60.482-9(a)-(b) §60.486(k) §63.642(b), (n) §63.648(a)(2), [G](j)(3)(ii), [G](j)(3)(v) [G]§63.648(j)(6)-(7)
5	GRP-FUG	OP-UA12	63CCVV-PRDLL03	HAPS	40 CFR Part 63, Subpart CC	§63.648(a)|48 §60.482-1(a), (b), (g) §60.482-8(a), (a)(2), (b), (c)(1)-(2), (d) §60.482-9(a)-(b) §60.486(k) §63.642(b), (n) §63.648(a)(2)
5	GRP-FUG	OP-UA12	63CCVV-PRDLL04	HAPS	40 CFR Part 63, Subpart CC	§63.648(a)|48 §60.482-1(a), (b), (g) §60.482-8(a), (a)(2), (b), (c)(1)-(2), (d) §60.482-9(a)-(b) §60.486(k) §63.642(b), (n) §63.648(a)(2)

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Table 1b: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
5	F-01	63CCVV-PRDLL01	HAPS	§60.482-8(a)(1) §60.485(a), [G](b), [G](d)-(e), (f)	§60.482-1(g) [G]§60.486(a), [G](b) [G]§60.486(c), (e), (e)(1), (j) §63.648(h) §63.655(d)(1)(i), (i), (i)(6)	§60.487(a), [G](b), [G](c), (e) §63.642(f) §63.655(d)(2)
5	F-01	63CCVV-PRDLL02	HAPS	§60.482-8(a)(1) §60.485(a), [G](b), [G](d)-(e), (f) [G]§63.648(j)(3)(i)-(ii), (j)(3)(iii)-(iv)	§60.482-1(g) [G]§60.486(a), [G](b) [G]§60.486(c), (e), (e)(1), (j) §63.648(h), [G](j)(3)(i)-(ii) §63.655(d)(1)(i), (i), (i)(6) §63.655(i)(11), (i)(11)(i)-(ii) [G]§63.655(i)(11)(iii)	§60.487(a), [G](b), [G](c), (e) §63.642(f) §63.648(j)(3)(iii) §63.655(d)(2), (f), [G](f)(1)(vii), (g) [G]§63.655(g)(10), (g)(14)
5	F-01	63CCVV-PRDLL03	HAPS	§60.482-8(a)(1) §60.485(a), [G](b), [G](d)-(e), (f)	§60.482-1(g) [G]§60.486(a), [G](b) [G]§60.486(c), (e), (e)(1), (j) §63.648(h) §63.655(d)(1)(i), (i), (i)(6)	§60.487(a), [G](b), [G](c), (e) §63.642(f) §63.655(d)(2)
5	F-01	63CCVV-PRDLL04	HAPS	§60.482-8(a)(1) §60.485(a), [G](b), [G](d)-(e), (f)	§60.482-1(g) [G]§60.486(a), [G](b) [G]§60.486(c), (e), (e)(1), (j) §63.648(h) §63.655(d)(1)(i), (i), (i)(6)	§60.487(a), [G](b), [G](c), (e) §63.642(f) §63.655(d)(2)

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Table 1a: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
5	GRP-FUG	OP-UA12	63CCVV-PRDLL05	HAPS	40 CFR Part 63, Subpart CC	§63.648(a)|48 §60.482-1(a), (b), (g) §60.482-8(a), (a)(2), (b), (c)(1)-(2), (d) §60.482-9(a)-(b) §60.486(k) §63.642(b), (n) §63.644(a)(2) §63.648(a)(2), (j)(4)(iv) §63.670

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Table 1b: Additions

Date: 08/13/2025	Regulated Entity No.: RN100219310	Permit No.: O1381
Company Name: Valero Refining-Texas, L.P.	Area Name: Valero Houston Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
5	F-01	63CCVV-PRDLL05	HAPS	§60.482-8(a)(1) §60.485(a), [G](b), [G](d)-(e), (f) §63.644(a), (e)	§60.482-1(g) [G]§60.486(a), [G](b) [G]§60.486(c), (e), (e)(1), (j) §63.648(h) §63.655(d)(1)(i), (i), [G](i)(3), (i)(6)	§60.487(a), [G](b), [G](c), (e) §63.642(f) §63.655(d)(2), (f), (f)(4), (g), (g)(6) [G]§63.655(g)(10), (g)(14), (h)

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: ~~March 22, 2023~~July 22, 2025		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
Boilers and Heaters							
23BA301	Heater 23BA301	NO_x	7.00	---	3, 5, 7, 8	3, 5, 7, 8, 53	3, 5, 66
		SO_2	1.40	---			
		H_2S	0.01	---			
		CO	1.80	---			
		PM	0.10	---			
		PM_{10}	0.10	---			
		$PM_{2.5}$	0.10	---			
		VOC	0.10	---			
23BA302	Heater 23BA302	NO_x	3.20	---	3, 5, 7, 8	3, 5, 7, 8, 53	3, 5, 66
		SO_2	0.80	---			
		H_2S	0.01	---			
		CO	1.10	---			
		PM	0.10	---			
		PM_{10}	0.10	---			
		$PM_{2.5}$	0.10	---			
		VOC	0.10	---			

Major NSR Summary Table

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
23BA301 and 23BA302	Heaters 23BA301 and 23BA302	NO_x	---	44.60	3, 5, 7, 8	3, 5, 7, 8, 53	3, 5, 66
		SO_2	---	9.50			
		H_2S	---	0.04			
		CO	---	12.30			
		PM	---	0.90			
		PM_{10}	---	0.90			
		$PM_{2.5}$	---	0.90			
		VOC	---	1.00			
23BC201	Atmospheric Tower Heater	NO_x	14.28	62.55	3, 5, 7, 8, 61	3, 5, 7, 8, 53, 61, 64	3, 5, 61, 66
		CO	14.28	62.55			
		VOC	1.93	8.43			
		SO_2	9.52	20.85			
		H_2S	0.03	0.13			
		PM	2.66	11.65			
		PM_{10}	2.66	11.65			
		$PM_{2.5}$	2.66	11.65			
27BA1000	"C" Unifiner Reactor Charge Heater	NO_x	3.82	13.31	3, 5, 7, 8	3, 5, 7, 8, 53	3, 5, 66
		CO	3.21	11.18			
		VOC	0.21	0.73			
		SO_2	1.04	1.10			
		H_2S	<0.01	0.01			
		PM	0.29	1.01			

Major NSR Summary Table

		PM_{10}	0.29	1.01			
		$PM_{2.5}$	0.29	1.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
28BA1200	"A" Unifiner Reactor Charge Heater	NO_x	2.75	12.02	3, 5, 7, 8	3, 5, 7, 8, 53	3, 5, 66
		CO	2.31	10.10			
		VOC	0.15	0.66			
		SO_2	0.75	0.88			
		H_2S	<0.01	0.01			
		PM	0.21	0.91			
		PM_{10}	0.21	0.91			
		$PM_{2.5}$	0.21	0.91			
29BA1300	"B-GDU" ~~Unifiner~~ Reactor Charge Heater	NO_x	3.03	13.27	3, 5, 7, 8, ~~67~~	3, 5, 7, 8, 53, ~~67~~	3, 5, 66, ~~67~~
		CO	2.47	10.82			
		VOC	0.16	0.71			
		SO_2	0.80	0.92			
		H_2S	<0.01	0.01			
		PM	0.22	0.98			
		PM_{10}	0.22	0.98			
		$PM_{2.5}$	0.22	0.98			
40BA1001	Combined Heaters (LCO Charge Heater, Diesel Charge Heater, and Fractionation Reboiler Heater)	NO_x	4.39	16.10	3, 5, 7, 8, 9, 57	3, 5, 7, 8, 9, 53, 57	3, 5, 57, 66
		CO	7.56	33.13			
		VOC	0.62	2.72			
		SO_2	3.09	13.53			
		H_2S	0.01	0.06			
		PM	0.86	3.76			

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		PM_{10}	0.86	3.76			
		$PM_{2.5}$	0.86	3.76			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
41BA101	"D-GDU" ~~Unifiner~~ Reactor Charge Heater	NO_x	1.96	8.59	3, 5, 7, 8, ~~67~~	3, 5, 7, 8, 53, ~~67~~	3, 5, 66, ~~67~~
		CO	1.65	7.21			
		VOC	0.11	0.47			
		SO_2	0.53	0.61			
		H_2S	<0.01	0.01			
		PM	0.15	0.65			
		PM_{10}	0.15	0.65			
		$PM_{2.5}$	0.15	0.65			
41BA102	"D-GDU" ~~Unifiner Rerun Tower Reboiler~~ Stabilizer Heater	NO_x	2.65	11.59	3, 5, 7, 8, ~~67~~	3, 5, 7, 8, 53, ~~67~~	3, 5, 66, ~~67~~
		CO	2.22	9.74			
		VOC	0.15	0.64			
		H_2S	<0.01	0.01			
		SO_2	0.72	0.79			
		PM	0.20	0.88			
		PM_{10}	0.20	0.88			
		$PM_{2.5}$	0.20	0.88			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
17H01	Crude Topper Heater	NO_x	7.77	8.76	3, 5, 7, 8, 10, 58, 59, 61	3, 5, 7, 8, 53, 58, 59, 61, 62, 64	3, 5, 58, 61, 66
		CO	16.09	28.18			
		VOC	1.35	4.72			
		SO_2	6.46	8.75			
		H_2S	0.02	0.07			
		PM	1.86	6.53			
		PM_{10}	1.86	6.53			
		$PM_{2.5}$	1.86	6.53			
		NH_3	1.14	4.00			
FCCU							
42CB2201	FCC Unit Stack	NO_X	270.00	172.00	3, 5, 11, 12, 13, 14, 15, 16, 40, 56, 61, ~~67,~~ 678, 689	3, 5, 15, 53, 56, ~~61~~, 64, ~~67,~~ 678, 689	3, 5, 56, 61, 66, ~~67,~~ 678
		CO	269.00	~~198.00~~ 246.83			
		VOC	13.00	37.00			
		SO_2	29.65	129.89			
		PM	75.50	240.00			
		PM_{10}	75.50	240.00			
		$PM_{2.5}$	75.50	240.00			
		H_2SO_4	1.58	6.90			
		HCN	23.00	100.00			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
SRU							
39CB2001	Tail Gas Incinerator Unit 39 SRU	VOC	0.21	---	3, 5, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 40, 55, 61,~~, 67~~	3, 5, 19, 25, 26, 27, 28, 53, 55, 61, 64,~~, 67~~	3, 5, 55, 61, 66,~~, 67~~
		CO	10.16	---			
		H_2S	0.48	---			
		NH_3	0.01	---			
		NO_x	5.51	---			
		SO_2	93.95	---			
		PM	0.44	---			
		PM_{10}	~~0.20~~0.44	---			
		$PM_{2.5}$	~~0.20~~0.44	---			
46CB6301	Tail Gas Incinerator Unit 46 SRU	VOC	0.32	---	3, 5, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 40, 55, 61,~~, 67~~	3, 5, 19, 25, 26, 27, 28, 53, 55, 61, 64,~~, 67~~	3, 5, 55, 61, 66,~~, 67~~
		CO	9.26	---			
		H_2S	0.44	---			
		NH_3	0.01	---			
		NO_x	5.01	---			
		SO_2	85.15	---			
		PM	0.40	---			
		PM_{10}	~~0.18~~0.40	---			
		$PM_{2.5}$	~~0.18~~0.40	---			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
39CB2001, 46CB6301	Combined Annual Cap for both TGIs	VOC	---	0.53	3, 5, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 40, 55, 61, ~~67~~	3, 5, 19, 25, 26, 27, 28, 53, 55, 61, 64, ~~67~~	3, 5, 55, 61, 66, ~~67~~
		CO	---	38.66			
		H_2S	---	1.84			
		NH_3	---	0.01			
		NO_x	---	20.94			
		SO_2	---	354.28			
		PM	---	2.55			
		PM_{10}	---	~~0.55~~2.55			
		$PM_{2.5}$	---	~~0.55~~2.55			
Cooling Towers							
27CWT2	Cooling Tower No. 2 (5)	VOC	6.24	2.87	5, 29	5, 29	5
		PM	15.61	63.38			
		PM_{10}	14.05	61.54			
		$PM_{2.5}$	0.16	0.68			
22CWT3	Cooling Tower No. 3 (5)	VOC	12.01	5.50	5, 29	5, 29	5
		PM	0.60	2.63			
		PM_{10}	0.54	2.37			
		$PM_{2.5}$	0.01	0.03			
23CWT7	Cooling Tower No. 7 (5)	VOC	4.52	2.08	5, 29	5, 29	5
		PM	0.23	0.99			
		PM_{10}	~~10.18~~0.20	~~44.58~~ 0.89			

Major NSR Summary Table

		$PM_{2.5}$	~~0.11~~<0.01	~~0.50~~0.01			
44CWT9	Cooling Tower No. 9 (5)	VOC	3.00	1.38	5, 29	5, 29	5
		PM	0.15	0.66			
		PM_{10}	0.14	0.59			
		$PM_{2.5}$	<0.01	0.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
42CWT10	Cooling Tower No. 10 (5)	VOC	16.01	7.36	5, 29	5, 29	5
		PM	0.80	3.51			
		PM_{10}	0.72	3.16			
		$PM_{2.5}$	0.01	0.04			
40CWT11	Cooling Tower No. 11 (5)	VOC	7.6	3.31	5, 29	5, 29	5
		PM	0.38	1.67			
		PM_{10}	0.34	1.50			
		$PM_{2.5}$	<0.01	0.02			
Storage Tanks							
22FB747	Storage Tank 22FB747	H_2SO_4	~~0.06~~0.26	0.01	30, 31	30, 62	
42FB2802	Storage Tank 42FB2802	VOC	0.10	~~0.01~~ 0.07	5, 30, 31	5, 30, 62	5
45FB6001	Storage Tank 45FB6001	VOC	0.01	0.01	30, 31	30, 62	
45FB6002	Storage Tank 45FB6002	VOC	0.01	0.01	30, 31	30, 62	
45FB7403	Storage Tank 45FB7403	VOC	0.21	0.86	3, 5, 30, 31	3, 5, 30, 62	3, 5
		NH_3	<0.01	<0.01			
		H_2S	0.01	0.03			
46FB6301	Storage Tank 46FB6301	VOC	0.01	0.01	30, 31	30, 62	
91FB922	Storage Tank 91FB922	VOC	~~0.45~~0.49	~~0.43~~0.52	3, 5, 30, 31	3, 5, 30, 62	3, 5
90FB735	Storage Tank 90FB735	VOC	~~0.12~~0.32	~~0.37~~0.69	3, 5, 30, 31	3, 5, 30, 62	3, 5
Loading							
9058LOAD	"A" Pump Rail Loading	VOC	0.01	0.01	32, 33, 35	32, 35	

Major NSR Summary Table

9059LOAD	B. B. Rack-Truck Loading	VOC	0.01	0.01	32, 33, 35	32, 35	

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
Wastewater							
47AD5401	API Separator Diversion Sump	VOC	0.01	0.01	37		
47AD5402	API Oil Pit	VOC	2.00	0.14	37		
47AD5405	API Muck Pit	VOC	2.00	0.18	37		
47AD5407	Lift Station	VOC	0.04	0.19	37		
		H_2S	0.02	0.07			
47AD5409	DAF Unit	VOC	5.51	24.15	37		
		H_2S	0.02	0.07			
47FA5	Equalization Tank	VOC	0.01	0.01	37		
47GF5401	API Separator	VOC	0.14	0.62	3, 4, 5, 37	3, 4, 5	3, 4, 5
		H_2S	0.02	0.07			
90CPI2001	Outfall 007 CPI Separator	VOC	0.25	1.12	Project 193432		
90CPI8301	Outfall 003 CPI Separator	VOC	0.27	1.18	Project 193432		
91CPI901	900-Tank Farm CPI Separator	VOC	0.14	0.61	Project 193432		
30FL1 and 30FL6	Main Refinery Flare and ULSD Flare Combined Emissions	NO_x	64.02	19.30	3, 5, 6, 38, 40, 44	3, 5, 6, 38, 44	3, 5, 66
		CO	462.40	139.50			
		VOC	255.00	393.30			
		SO_2	1,402.00	115.60			
		H_2S	14.20	1.20			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
90CB5601	Vapor Combustion Unit	NO_x	6.00	8.80	5, 39, 60, ~~67~~	5, 39, 53, 60, ~~67~~	5, 60, ~~67~~
		CO	5.01	7.39			
		VOC	20.85	19.44			
		SO_2	0.03	0.06			
		PM	0.45	0.66			
		PM_{10}	0.45	0.66			
		$PM_{2.5}$	0.45	0.66			
FUG	Fugitives (5)	VOC	~~88.63~~ 103.62	~~388.01~~ 449.89	3, 5, 41, 42, 47	2, 3, 5, 41, 42, 47, 62	3, 5, 41, 66
		~~Benzene~~	~~0.03~~	~~0.15~~			
		H_2S	0.21	~~0.91~~ 0.92			
		NH_3	0.05	~~0.16~~ 0.17			
		NaOH	0.14	0.60			
		H_2O_2	0.03	0.13			
22AVENT	BHT Catalyst Regeneration	VOC	5.00	0.06	Project 154497		
22FA225	Alky Unit Bauxite Tower Washing	VOC	1.00	0.09	Project 320812		
Maintenance, Startup and Shutdown (MSS)							
EXCH-MSS	Heat Exchanger MSS Emissions	VOC	17.35	1.81	44, 45, 46	44, 45, 46, 63	
		~~Benzene~~	~~0.10~~	~~0.01~~			
SMALL-MSS	Small Equipment MSS Emissions	VOC	2.08	1.56	44, 45, 46	44, 45, 46, 63	
		~~Benzene~~	~~0.01~~	~~0.01~~			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
VAC-MSS	Vacuum Truck MSS Emissions	VOC	1.37	0.51	44, 45, 46, 50, 54	44, 45, 46, 50, 54, 63	
		~~Benzene~~	~~0.02~~	~~0.01~~			
		NH_3	0.01	0.01			
		H_2S	0.01	0.01			
FRAC-MSS	Frac Tank MSS Emissions	VOC	0.88	5.36	44, 54	44, 51, 54, 63	
		~~Benzene~~	~~0.01~~	~~0.07~~			
VACFR-MSS	Vacuum Truck/Frac Tank Cleaning MSS Emissions	VOC	2.93	0.11	44, 45, 46, 50, 51	44, 45, 46, 50, 51, 63	
		~~Benzene~~	~~0.05~~	~~0.01~~			
		NH_3	0.01	0.01			
WW-MSS	Wastewater Treatment Plant MSS Activities	VOC	0.14	0.01	44, 45, 46, 54	44, 45, 46, 63	
		~~Benzene~~	~~0.98~~	~~0.02~~			
		NH_3	0.05	0.01			
		H_2S	0.01	0.01			
TANK-MSS	Tank MSS Activities	VOC	529.27	(6)	44, 48, 49	44, 48, 49, 54, 63	
		~~Benzene~~	~~8.07~~	~~(6)~~			
47FB7403-MSS	Storage Tank 45FB7403 MSS	VOC	(8)	(6)	44, 48	44, 48, 63	
		NH_3	0.01	<0.01			
		H_2S	0.23	<0.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025~~March 22, 2023~~		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
INSIG-MSS	Insignificant MSS Activities	VOC	23.82	4.15	44	44, 63	
		NO_x	0.15	0.03			
		SO_2	0.15	0.03			
		CO	0.15	0.03			
		~~Benzene~~	~~0.01~~	~~0.01~~			
		PM	13.33	0.83			
		PM_{10}	6.30	0.39			
		$PM_{2.5}$	0.95	0.06			
DEINV-MSS	Deinventory MSS Activities	VOC	4.11	0.16	44, 45, 46	44, 45, 46, 63	
		~~Benzene~~	~~0.05~~	~~0.01~~			
FCCU-MSS	FCCU MSS Activities	CO	1,129.66	27.11	44, 45, 46	44, 45, 46, 53, 63	
BOILER-MSS	Boiler MSS Activities	NO_X	11.99	(7)	44	44, 53, 63	
		CO	123.86	(7)			
TO-MSS	Thermal Oxidizer Controlled MSS Activities	VOC	5.21	3.28	44, 48, 54	44, 48, 53, 54, 63	
		NO_X	6.12	0.34			
		SO_2	0.01	0.01			
		CO	5.14	0.29			
		~~Benzene~~	~~0.04~~	~~0.03~~			
		NH_3	0.01	0.01			
		PM	0.01	0.01			
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			

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		H_2S	0.01	0.01			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
NH_3 - ammonia
PM - total particulate matter, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid
HCN - hydrogen cyanide
NaOH - sodium hydroxide
H_2O_2 - hydrogen peroxide
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Annual emissions from activities authorized by EPN TANK-MSS will be accommodated as part of the annual allowable rate of each of the storage tanks. Compliance will be demonstrated by performing monthly calculations as required in Special Condition No. ~~46~~48.F(4).
(7) Annual emissions of NOx and CO from activities authorized by EPN BOILER-MSS will be accommodated as part of the annual allowable NOx and CO caps for the boilers ~~(EPN BOILER_CAP) authorized in Permit 124424~~.
(8) Hourly emissions are authorized by EPN TANK-MSS.