

From: Tusar Swami
To: "Kelley Oswalt"; Rhyan Stone; Twu, April
Cc: Dodson, Winnie
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026
Date: Friday, February 13, 2026 1:18:00 PM
Attachments: SOP - O1381 Valero Refining Texas LP (Minor, 38776) Internal.docx
 SOP - O1381 Valero Refining Texas LP (Minor, 38776) Draft.pdf
 image003.png
 image004.png
 image005.png
 image006.png
 image007.png

Kelley:
Please see attached.

Sincerely,

Tusar Swami, P.E.

Texas Commission on Environmental Quality

OA/APD/Operating Permits Section

12100 Park 35 Circle, Bldg. C, Austin, TX 78753
 Mail: MC-163, P. O. Box 13087, Austin, TX 78711-3087
 Phone: 512/239-1581 Fax: 512/239-1400
 Email: tusar.swami@tceq.texas.gov



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Kelley Oswalt <kelley.oswalt@trinityconsultants.com>
Sent: Friday, February 13, 2026 9:08 AM
To: Tusar Swami <tusar.swami@tceq.texas.gov>; Rhyan Stone <Rhyan.Stone@tceq.texas.gov>; Twu, April <April.Twu@valero.com>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Hi Tusar,

We have just a few updates:

Remove the parenthesis around the "a" in the following citations:

30FL1	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 115.725(n) § 60.103a(h) [G]§ 60.103a(a) [G]§ 60.103a(b) § 60.103a(c) [G]§ 60.103a(c)(1) [G]§ 60.103a(d) [G]§ 60.103a(e) § 60.103a(f)	Emission standard for hydrogen sulfide from sulfur recovery units
42BC2001	EU	60Ja-3	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.103a(c)	The maximum allowable sulfur content of sulfur recovery units

Applicable Requirements

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Test Method (See 35.00000)
					§ 60.103a(c)(2) [G]§ 60.103a(e)	Determination of hydrogen sulfide and hydrogen cyanide in sulfur recovery units

The row for pumps that you added needs a few slight changes to the citations so that it's different from the other row for pumps:

GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(8) § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(4)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-	VOC	30 TAC Chapter	§ 115.352(1)(A)	No process drains	§ 115.354(1)	§ 115.352(7)	None

Update the project number in the MNSR table:

22FA225	Alky Unit Bauxite Tower Washing	VOC	1.00	0.09	Project 154497 320812
Maintenance, Startup and Shutdown (MSS)					

Thanks! And please provide a new version of the draft for our records.

Kelley Oswald
Senior Consultant
Trinity Consultants
512-693-4191 (office)

From: Tusar Swami <tusar.swami@tceq.texas.gov>
Sent: Thursday, February 12, 2026 4:17 PM
To: Kelley Oswald <kelley.oswalt@trinityconsultants.com>; Rhyan Stone <Rhyan.Stone@tceq.texas.gov>; Twu, April <April.Twu@valero.com>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Kelley:
Please see the updated draft. All your comments are addressed. Regarding your comments 7 and 8, for this draft I matched the missing rows to match with the effective permit. But for some reason I am not getting those rows and probably need to review the attribute values (OP-UA12 Table 2 and Table 8) during the initial. Please let me know if you see any obvious error asap. We intend to send the Public Announcement package tomorrow.

Sincerely,
Tusar Swami, P.E.
Texas Commission on Environmental Quality
OA/APD/Operating Permits Section
12100 Park 35 Circle, Bldg. C, Austin, TX 78753
Mail: MC-163, P. O. Box 13087, Austin, TX 78711-3087
Phone: 512/239-1581 Fax: 512/239-1400
Email: tusar.swami@tceq.texas.gov



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Kelley Oswald <kelley.oswalt@trinityconsultants.com>
Sent: Wednesday, February 11, 2026 6:56 PM
To: Rhyan Stone <Rhyan.Stone@tceq.texas.gov>; Twu, April <April.Twu@valero.com>; Tusar Swami <tusar.swami@tceq.texas.gov>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Hi Tusar,

We have the following comments on the draft permit:

1. For 30FL1 and 30FL6, please remove 63CC-1 manually built requirements that are on OP-UA50. These have been replaced with UA7 63CC-1a and 63CC-1b.
2. The MACT CC attributes provided on UA3 for 47FB321 and 47FB323 should have resulted in no applicable requirements. I believe there are residual manually built MACT CC requirements still in the Title V permit that should be removed.
3. In the applicable requirements summary table for 30FL1, 60Ja-1 has manually built requirements. There is a typo in the standard column. ?60.103(a)(h) should be ?60.103a(h) instead.
4. In the applicable requirements summary table for 40CWT11 and GRP-CWT, there is a duplicate row for 63CC-6 of the manually built MACT CC citations that should be removed.
5. In the applicable requirements summary table for 42BC2001, 60Ja-3 has manually built requirements. There are some typos in the standard column. ?60.103(a)(c) should be ?60.103a(c) instead. ?60.103(a)(c)(2) should be ?60.103a(c)(2) instead.

From: Tusar Swami
Sent: Thursday, February 12, 2026 4:17 PM
To: 'Kelley Oswalt'; Rhyan Stone; Twu, April
Cc: Dodson, Winnie
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Kelley:

Please see the updated draft. All your comments are addressed. Regarding your comments 7 and 8, for this draft I matched the missing rows to match with the effective permit. But for some reason I am not getting those rows and probably need to review the attribute values (OP-UA12 Table 2 and Table 8) during the initial. Please let me know if you see any obvious error asap. We intend to send the Public Announcement package tomorrow.

Sincerely,

Tusar Swami, P.E.

**Texas Commission on Environmental Quality
OA/APD/Operating Permits Section**

12100 Park 35 Circle, Bldg. C, Austin, TX 78753
Mail: MC-163, P. O. Box 13087, Austin, TX 78711-3087
Phone: 512/239-1581 Fax: 512/239-1400
Email: tusar.swami@tceq.texas.gov



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Kelley Oswalt <kelley.oswalt@trinityconsultants.com>
Sent: Wednesday, February 11, 2026 6:56 PM
To: Rhyan Stone <Rhyan.Stone@tceq.texas.gov>; Twu, April <April.Twu@valero.com>; Tusar Swami <tusar.swami@tceq.texas.gov>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Hi Tusar,

We have the following comments on the draft permit:

1. For 30FL1 and 30FL6, please remove 63CC-1 manually built requirements that are on OP-UA50. These have been replaced with UA7 63CC-1a and 63CC-1b.
2. The MACT CC attributes provided on UA3 for 47FB321 and 47FB323 should have resulted in no applicable requirements. I believe there are residual manually built MACT CC requirements still in the Title V permit that should be removed.

3. In the applicable requirements summary table for 30FL1, 60Ja-1 has manually built requirements. There is a typo in the standard column. ?60.103(a)(h) should be ?60.103a(h) instead.
4. In the applicable requirements summary table for 40CWT11 and GRP-CWT, there is a duplicate row for 63CC-6 of the manually built MACT CC citations that should be removed.
5. In the applicable requirements summary table for 42BC2001, 60Ja-3 has manually built requirements. There are some typos in the standard column. ?60.103(a)(c) should be ?60.103a(c) instead. ?60.103(a)(c)(2) should be ?60.103a(c)(2) instead.
6. In the applicable requirements summary table for 90FB735, 91FB922, and 91FB931 there is a duplicate row for 63CC-1 of the manually built MACT CC citations that should be removed.
7. In the applicable requirements summary table for GRP-FUG and Index R5352-FUG, there are two rows of citations missing. One for compressor seals and another for pump seals. These were in the currently issued TV permit and should be added back.
8. In the applicable requirements summary table for GRP-FUG and Index 50GGG-FUG, there is a row of citations missing. One for valves in gas/vapor or light-liquid service is in the currently issued TV permit and should be added back.
9. Please replace the 60GGG_a fugitive citations based on the UA12 that was submitted earlier today.
10. The permit shield for 46BC6325 and 30 TAC 117 was accidentally removed and should be added back. This was not a change requested as part of this application.
11. In the New Source Review Authorization References table, please update the issuance date of PSDTX767M2, 2501A and 124424 to 12/19/2025.
12. In the New Source Review Authorization References table, please remove standard exemption 86 version date 09/12/1989.
13. In the New Source Review Authorization References by Emissions Unit table, for 22FUG, please add the PBR registration number 78537 to the 106.261 PBR.
14. In the New Source Review Authorization References by Emissions Unit table, for 43FUG, please update the description to read “FCC PROPYLENE UNIT FUGITIVES”
15. In the New Source Review Authorization References by Emissions Unit table, for 90FUG, please add 2501A to the list of authorizations.
16. In the Major NSR Summary table, for 90CPI2001, 90CPI8301 and 91CPI901, please add “Project 193432” to the Monitoring Testing column. This was previously included and needs to be added back.
17. In the Major NSR Summary table, for 22AVENT, please add “Project 154497” to the Monitoring Testing column. This was previously included and needs to be added back.
18. In the Major NSR Summary table, for 22FA225, please add “Project 320812” to the Monitoring Testing column. This was previously included and needs to be added back.

I've attached a draft permit with track changes to show these comments.

Let us know if you have any questions.

We would like to review an updated draft permit once it is available.

Thanks.

Kelley Oswalt
Senior Consultant
Trinity Consultants
512-693-4191 (office)

From: Rhyan Stone <Rhyan.Stone@tceq.texas.gov>
Sent: Wednesday, February 11, 2026 2:11 PM
To: Twu, April <April.Twu@valero.com>; Tusar Swami <tusar.swami@tceq.texas.gov>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>; Kelley Oswalt <kelley.oswalt@trinityconsultants.com>
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Good afternoon,

The deadline in Tusar's original email was miscommunicated. In order to issue the revision prior to expiration, we will need to start the public announcement period on February 17th. Please send you comments and the requested information by COB today. Please call me if you have any questions or concerns.

Thanks,
Rhyan

Rhyan S. Stone
Manager
Operating Permits Section
Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163
Austin, TX 78711
Phone: (512) 239 -1293



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Twu, April <April.Twu@valero.com>
Sent: Wednesday, February 11, 2026 1:49 PM
To: Tusar Swami <tusar.swami@tceq.texas.gov>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>; Kelley Oswalt <kelley.oswalt@trinityconsultants.com>; Rhyan Stone <Rhyan.Stone@tceq.texas.gov>
Subject: RE: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

Tusar-

Thank you for the WDP, we will review and comment by Feb 17th.
In the meantime, please see attached OP-UA12 for Fugitives GGGa (as seen in tabs pages 157-168), as well as the OP-1 form.

Please let me know if there are any questions or anything else you may need, thank you!

April Twu | Sr Staff Environmental Engineer

O: 713 923 3392 | M: 903 452 4520

april.twu@valero.com

From: Tusar Swami <tusar.swami@tceq.texas.gov>
Sent: Tuesday, February 10, 2026 1:47 PM
To: Twu, April <April.Twu@valero.com>
Cc: Dodson, Winnie <Winnie.Dodson@valero.com>; Jasek, Mike <Mike.Jasek@valero.com>; Kelley Oswalt <kelley.oswalt@trinityconsultants.com>; Rhyan Stone <Rhyan.Stone@tceq.texas.gov>
Subject: Working Draft Permit -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery - Respond by 2/17/2026

April:

Good afternoon. I have conducted a technical review of *revision* application for Valero Refining Texas LP/Valero Houston Refinery. An electronic copy of the Working Draft Permit (WDP) is attached for your review. This WDP contains the TCEQ determination of applicable requirements based on the information submitted in your application dated August 13, 2025, and any updates provided.

Please review the WDP and submit to me any comments you have on the working draft permit by **February 17th, 2026**.

Please provide latest attribute values for the following Unit ID:

GRP-FUG (OP-UA12, Table 18) – SOP Index No. 60GGGa-FUG – for 40 CFR Part 60, Subpart GGGa

[TCEQ - Form 10045ins - OP-UA12 - Instructions Fugitive Emission Unit Attributes](#)

In the effective permit the requirements are manually built, and they are carried forward in the attached draft.

Also note that the Major NSR Summary Table is updated to reflect the most recent effective date December 19, 2025. Please review if there is any changes to it.

Please review the second portion of the “SOP Technical Review Fact Sheet” located at http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_facsheet.pdf. This guidance contains important information regarding WDP review and comment procedures.

Note that a Certification by Responsible Official (Form OP-CRO1) for any uncertified application information, including application updates supporting the WDP comments, is required. After final review of the WDP, additional changes supported by application updates may require certification. I will advise you of these changes at a later date. Prior to transmittal of the Public Notice/Announcement Authorization Package, a duly signed OP-CRO1 form may be required which includes the specific dates or time-period of all submitted application documentation that was not previously certified. I will advise you of this requirement prior to sending the Public Notice/Announcement Authorization.

Application updates may now be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1.

Please notify me when these updates have been submitted.

As required on Form OP-1, question IV.D, please remember the FOP application and all application updates must be submitted to EPA Region 6 at R6AirPermitsTX@epa.gov and to the TCEQ regional office having jurisdiction. This submittal information can be found on our website at [Where to Submit FOP Applications and Permit-Related Documents](#).

Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit. Thank you for your cooperation.

Sincerely,

Tusar Swami, P.E.

**Texas Commission on Environmental Quality
OA/APD/Operating Permits Section**

12100 Park 35 Circle, Bldg. C, Austin, TX 78753
Mail: MC-163, P. O. Box 13087, Austin, TX 78711-3087
Phone: 512/239-1581 Fax: 512/239-1400
Email: tusar.swami@tceq.texas.gov



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 1)
Texas Commission on Environmental Quality**

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250 or to the Texas Commission on Environmental Quality, Office of Air, Air-Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

I. Company Identifying Information	
A.	Company Name: Valero Refining - Texas, L.P.
B.	Customer Reference Number (CN): CN600127468
C.	Submittal Date (mm/dd/yyyy): 02/11/2026
II. Site Information	
A.	Site Name: Valero Houston Refinery
B.	Regulated Entity Reference Number (RN): RN100219310
C.	Indicate affected state(s) required to review permit application: <i>(Check the appropriate box[es].)</i>
	<input type="checkbox"/> AR <input type="checkbox"/> CO <input type="checkbox"/> KS <input type="checkbox"/> LA <input type="checkbox"/> NM <input type="checkbox"/> OK <input checked="" type="checkbox"/> N/A
D.	Indicate all pollutants for which the site is a major source based on the site's potential to emit: <i>(Check the appropriate box[es].)</i>
	<input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> NO _x <input checked="" type="checkbox"/> SO ₂ <input checked="" type="checkbox"/> PM ₁₀ <input checked="" type="checkbox"/> CO <input type="checkbox"/> Pb <input checked="" type="checkbox"/> HAPS
	Other:
E.	Is the site a non-major source subject to the Federal Operating Permit Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F.	Is the site within a local program area jurisdiction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
G.	Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
H.	Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:
III. Permit Type	
A.	Type of Permit Requested: <i>(Select only one response)</i>
	<input checked="" type="checkbox"/> Site Operating Permit (SOP) <input type="checkbox"/> Temporary Operating Permit (TOP) <input type="checkbox"/> General Operating Permit (GOP)

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 2)
Texas Commission on Environmental Quality**

IV. Initial Application Information <i>(Complete for Initial Issuance Applications Only.)</i>	
A. Is this submittal an abbreviated or a full application?	<input type="checkbox"/> Abbreviated <input type="checkbox"/> Full
B. If this is a full application, is the submittal a follow-up to an abbreviated application?	<input type="checkbox"/> Yes <input type="checkbox"/> No
C. If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit?	<input type="checkbox"/> Yes <input type="checkbox"/> No
D. Has an electronic copy of this application been submitted (or is being submitted) to EPA? (Refer to the form instructions for additional information.)	<input type="checkbox"/> Yes <input type="checkbox"/> No
E. Has the required Public Involvement Plan been included with this application?	<input type="checkbox"/> Yes <input type="checkbox"/> No
V. Confidential Information	
A. Is confidential information submitted in conjunction with this application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
VI. Responsible Official (RO) Identifying Information	
RO Name Prefix: (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)	
RO Full Name: Lonnie Brenner	
RO Title: Vice-President and General Manager	
Employer Name: Valero Refining - Texas, L.P.	
Mailing Address: 9701 Manchester Street	
City: Houston	
State: Texas	
ZIP Code: 77012	
Territory:	
Country:	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.: (713) 923-3300	
Fax No.: (713) 923-3399	
Email: Lon.Brenner@valero.com	

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 3)
Texas Commission on Environmental Quality**

VII. Technical Contact Identifying Information <i>(Complete if different from RO.)</i>
Technical Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
Technical Contact Full Name: April Twu
Technical Contact Title: Sr Staff Environmental Engineer
Employer Name: Valero Refining - Texas, L.P.
Mailing Address: 9701 Manchester Street
City: Houston
State: Texas
ZIP Code: 77012
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.: (713) 923-3392
Fax No.:
Email: April.Twu@Valero.com
VIII. Reference Only Requirements <i>(For reference only.)</i>
A. State Senator: Carol Alvarado, District 6
B. State Representative: Christina Morales, District 145
C. Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
D. Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E. Indicate the alternate language(s) in which public notice is required: Spanish

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 4)
Texas Commission on Environmental Quality**

IX. Off-Site Permit Request <i>(Optional for applicants requesting to hold the FOP and records at an off-site location.)</i>
A. Office/Facility Name:
B. Physical Address:
City:
State:
ZIP Code:
Territory:
Country:
Foreign Postal Code:
C. Physical Location:
D. Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
Contact Full Name:
E. Telephone No.:
X. Application Area Information
A. Area Name: Valero Houston Refinery
B. Physical Address: 9701 Manchester Avenue
City: Houston
State: Texas
ZIP Code: 77012
C. Physical Location:
D. Nearest City:
E. State:
F. ZIP Code:

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 5)
Texas Commission on Environmental Quality**

X. Application Area Information (continued)
G. Latitude (nearest second): 29° 43' 20"
H. Longitude (nearest second): -95° 15' 18"
I. Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
J. Indicate the estimated number of emission units in the application area: 350
K. Are there any emission units in the application area subject to the Acid Rain Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
L. Affected Source Plant Code (or ORIS/Facility Code):
XI. Public Notice <i>(Complete this section for SOP Applications and Acid Rain Permit Applications only.)</i>
A. Name of a public place to view application and draft permit: Park Place Regional Library
B. Physical Address: 8145 Park Place Blvd.
City: Houston
ZIP Code: 77017
C. Contact Person (Someone who will answer questions from the public during the public notice period):
Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Dr.):
Contact Person Full Name: April Twu
Contact Mailing Address: 9701 Manchester Street
City: Houston
State: Texas
ZIP Code: 77012
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.: (713) 923-3392

**Federal Operating Permit Program
 Site Information Summary
 Form OP-1 (Page 6)
 Texas Commission on Environmental Quality**

XII. Delinquent Fees and Penalties
Notice: This form will not be processed until all delinquent fees and/or penalties owed to TCEQ or the Office of Attorney General on behalf of TCEQ are paid in accordance with the "Delinquent Fee and Penalty Protocol."
Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.
XIII. Designated Representative (DR) Identifying Information
DR Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
DR Full Name:
DR Title:
Employer Name:
Mailing Address:
City:
State:
ZIP Code:
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.:
Fax No.:
Email:

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 7)
Texas Commission on Environmental Quality**

Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.

XIV. Alternate Designated Representative (ADR) Identifying Information

ADR Name Prefix: (Mr. Mrs. Ms. Dr.)

ADR Full Name:

ADR Title:

Employer Name:

Mailing Address:

City:

State:

ZIP Code:

Territory:

Country:

Foreign Postal Code:

Internal Mail Code:

Telephone No.:

Fax No.:

Email:

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

**Table 18a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or
Modification Commenced after November 7, 2006**

Unit ID No.	SOP Index No.	Construction/Modification Date	Affected Facility Covered by 40 CFR 60 Subparts VVa or KKK
GRP-FUG	60GGGa-FUG	06+	NONE

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

Table 18b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

Unit ID No.	SOP Index No.	Pumps: Vacuum Service	Pumps: Light Liquid Service	Pumps: EEL	Pumps: EEL ID No.	Pumps: Complying with §60.482-2a	Pumps: Heavy Liquid Service	Pumps: EEL	Pumps: EEL ID No.	Pumps: Complying with §60.482-3a
GRP-FUG	60GGGa-FUG	NO	YES	NO		YES	YES	NO		YES

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

Table 18c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

Unit ID No.	SOP Index No.	Compressors: Any Compressors	Compressors: Compressors in Hydrogen Service	Compressors: Reciprocating Compressors that became an affected facility under §60.14 or §60.15	Compressors: EEL	Compressors: EEL ID No.	Compressors: Complying with §60.482-3a
GRP-FUG	60GGGa-FUG	YES	NO	NO	NO		YES

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

Table 18d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

Unit ID No.	SOP Index No.	Sampling and Connection Systems: Sampling Connection Systems	Sampling and Connection Systems: EEL	Sampling and Connection Systems: EEL ID No.	Sampling and Connection Systems: Complying with §60.482-5a	Open-Ended Valves or Lines: Open-ended Valves or Lines	Open-Ended Valves or Lines: Valves or Lines Containing Asphalt	Open-Ended Valves or Lines: EEL	Open-Ended Valves or Lines: EEL ID No.	Open-Ended Valves or Lines: Complying with §60.482-6a
GRP-FUG	60GGGa-FUG	YES	NO		YES	NO				

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

**Table 18e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or
Modification Commenced after November 7, 2006**

Unit ID No.	SOP Index No.	Valves: Gas/Vapor or Light Liquid Service	Valves: Alternative Compliance with §60.483-1a	Valves: Alternative Compliance with §60.483-2a	Valves: Leakless Phase III Valves	Valves: EEL	Valves: EEL ID No.	Valves: Complying with §60.482-7a
GRP-FUG	60GGGa-FUG	YES	NO	NO	NO	NO		YES

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

Table 18f: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

Unit ID No.	SOP Index No.	Valves: Heavy Liquid Service	Valves: EEL	Valves: EEL ID No.	Valves: Complying with §60.482- 8a	Pressure Relief Devices: Gas/Vapor Service	Pressure Relief Devices: Light Liquid Service	Pressure Relief Devices: EEL	Pressure Relief Devices: EEL ID No.	Pressure Relief Devices: Complying with §60.482- 8a
GRP-FUG	60GGGa-FUG	YES	NO		YES	YES	YES	NO		YES

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

Table 18g: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

Unit ID No.	SOP Index No.	Pressure Relief Devices: Heavy Liquid Service	Pressure Relief Devices: EEL	Pressure Relief Devices: EEL ID No.	Pressure Relief Devices: Complying with §60.482-8a	Connectors: Heavy Liquid Service	Connectors: EEL	Connectors: EEL ID No.	Connectors: Complying with §60.482-8a
GRP-FUG	60GGGa-FUG	YES	NO		YES	YES	NO		YES

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

**Table 18h: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or
Modification Commenced after November 7, 2006**

Unit ID No.	SOP Index No.	Connectors Closed-Vent Systems and Control Devices: Gas/Vapor or Light Liquid Service	Connectors Closed-Vent Systems and Control Devices: Vapor Recovery System	Connectors Closed-Vent Systems and Control Devices: EEL	Connectors Closed-Vent Systems and Control Devices: EEL ID No.	Connectors Closed-Vent Systems and Control Devices: Complying with §60.482-10a	Connectors Closed-Vent Systems and Control Devices: Control Device ID No.
GRP-FUG	60GGGa-FUG	YES	NO	NO		YES	

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

**Table 18i: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or
Modification Commenced after November 7, 2006**

Unit ID No.	SOP Index No.	Closed-Vent Systems and Control Devices: Enclosed Combustion Device	Closed-Vent Systems and Control Devices: EEL	Closed-Vent Systems and Control Devices: EEL ID No.	Closed-Vent Systems and Control Devices: Complying with §60.482-10a	Closed-Vent Systems and Control Devices: Control Device ID No.
GRP-FUG	60GGGa-FUG	NO				

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

**Table 18j: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or
Modification Commenced after November 7, 2006**

Unit ID No.	SOP Index No.	Closed-Vent Systems and Control Devices: Flare	Closed-Vent Systems and Control Devices: EEL	Closed-Vent Systems and Control Devices: EEL ID No.	Closed-Vent Systems and Control Devices: Complying with §60.482-10a	Closed-Vent Systems and Control Devices: Control Device ID No.
GRP-FUG	60GGGa-FUG	NO				

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

Table 18k: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

Unit ID No.	SOP Index No.	Closed-Vent Systems and Control Devices: Closed-Vent (or Vapor Collection) Systems	Closed-Vent Systems and Control Devices: EEL	Closed-Vent Systems and Control Devices: EEL ID No.	Closed-Vent Systems and Control Devices: Complying with §60.482-10a
GRP-FUG	60GGGa-FUG	NO			

[Go to the Table of Contents](#)

**Fugitive Emission Unit Attributes
Form OP-UA12
Federal Operating Permit Program
Texas Commission on Environmental Quality**

**Table 18I: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or
Modification Commenced after November 7, 2006**

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart GGGa Fugitive Unit Description
GRP-FUG	60GGGa-FUG	

[Go to the Table of Contents](#)

From: Tusar Swami
Sent: Thursday, September 4, 2025 11:42 AM
To: Twu, April
Cc: Kelley Oswald; Jasek, Mike
Subject: Technical Review -- FOP O1381/Project 38776, Valero Refining Texas LP/Valero Houston Refinery

April:

Good morning. I have been assigned to the Federal Operating Permit (FOP) revision application of Permit No. O1381 for Valero Refining Texas LP/Valero Houston Refinery. This application has been assigned Project No. 38776. Please address all correspondence pertaining to this permit application, including any updates, to me at the address below, and use both the Permit and Project reference numbers above to facilitate tracking.

In addition, I wanted to let you know that EPA has, on occasion, objected to Title V permits based on the following:

- a. NSR permit and PBR monitoring sufficiency –please refer to our periodic monitoring guidance for reference of monitoring that EPA has, so far, considered sufficient.
- b. Reference to confidential business information (CBI) in NSR permits and PBR submittals.
- c. High level terms in the SOP Applicable Requirement Summary Table. The high level terms are sometimes used in SOPs when unit attribute forms have not yet been updated due to regulatory amendments.
- d. Accuracy of PBR information provided on the supplemental table and in the permit – please refer to Forms OP-PBRSUP and OP-REQ1 Instructions.

If you have any questions or concerns on any of these items or think you need to do any additional updates, let me know and we can discuss further.

Application updates may now be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1.

Please notify me when these updates have been submitted.

As required on Form OP-1, question IV.D, please remember the FOP application and all application updates must be submitted to EPA Region 6 at R6AirPermitsTX@epa.gov and to the TCEQ regional office having jurisdiction. This submittal information can be found on our website at [Where to Submit FOP Applications and Permit-Related Documents](#).

Please review the “SOP Technical Review Fact Sheet” located at http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_facsheet.pdf. This guidance contains important information regarding the review process and

application update procedures. Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit.

Thank you for your cooperation.

Sincerely,

Tusar Swami, P.E.

Texas Commission on Environmental Quality

OA/APD/Operating Permits Section

12100 Park 35 Circle, Bldg. C, Austin, TX 78753

Mail: MC-163, P. O. Box 13087, Austin, TX 78711-3087

Phone: 512/239-1581 Fax: 512/239-1400

Email: tusar.swami@tceq.texas.gov



How are we doing? Fill out our online customer satisfaction survey
at www.tceq.texas.gov/customersurvey

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 30)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	The application area includes benzene transfer operations at tank-truck loading racks.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H. Subpart FF - National Emission Standard for Benzene Waste Operations		
<i>Applicability</i>		
1.	The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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). <i>If the responses to Questions VII.H.1 and VII.H.2 are both "No," go to Section VIII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.	The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. <i>If the response to Question VII.H.3 is "Yes," go to Section VIII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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). <i>If the response to Question VII.H.4 is "Yes," go to Section VIII</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. <i>If the response to Question VII.H.5 is "Yes," go to Section VIII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 31)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Applicability (continued)</i>	
6.	The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7.	The application area has waste streams with flow-weighted annual average water content of 10% or greater. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Waste Stream Exemptions</i>	
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). <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11.	The application area transfers waste off-site for treatment by another facility. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12.	The application area is complying with 40 CFR § 61.342(d). <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13.	The application area is complying with 40 CFR § 61.342(e). <i>If the response to Question VII.H.13 is "No," go to Question VII.H.15.</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
14.	The application area has facility waste with a flow weighted annual average water content of less than 10%. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 32)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Container Requirements</i>	
15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. <i>If the response to Question VII.H.15 is "No," go to Question VII.H.18.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VII.H.16 is "Yes," go to Question VII.H.18.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>Individual Drain Systems</i>	
18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. <i>If the response to Question VII.H.18 is "No," go to Question VII.H.25.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VII.H.19 is "Yes," go to Question VII.H.25.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
20. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VII.H.20 is "No," go to Question VII.H.22.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 33)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Individual Drain Systems (continued)</i>	
22. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VII.H.22 is "No," go to Question VII.H.25.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input type="checkbox"/> No
24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Remediation Activities</i>	
25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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. <i>See instructions for 40 CFR Part 63 subparts made applicable only by reference.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> 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). <i>If the response to Question VIII.B.1 is "No," go to Section VIII.D.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 88)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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 (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

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 89)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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
<u>106.355</u>	<u>11/01/2001</u>	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

**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.:	O1381														
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-PBR SUP 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.

From: apirt@tceq.texas.gov
Sent: Friday, August 15, 2025 8:01 AM
To: Miguel Gallegos
Cc: Sean Wheeler
Subject: STEERS / TV Assignment Report (Daily - Morning)
Attachments: SI_NAME%2025-08-15-08-00-57.xlsx

Please see the attached report for STEERS Title V applications assigned to you.

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 enforcement 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 01381



**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	1-1
2. ADMINISTRATIVE FORMS	2-1
3. UNIT ATTRIBUTE FORMS	3-1
4. APPLICABLE REQUIREMENTS SUMMARY FORMS	4-1

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.:	O1381														
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-PBR SUP 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	ISOCTENE 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- <u>106.371/09/04/2000</u> [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]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>
	7	30FUG	OP-UA12	REFINERY FLARE AND FL GAS RECOVERY UNIT FUG		2501A, 106.261/11/01/2003- [109315, 118800, 92272, 95584, 101936]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>

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]	<u>PSDTX767M2</u>
	7	40FUG	OP-UA12	ULSD UNIT FUGITIVES		2501A, 106.261/11/01/2003 [101936, 109315, 118800, 139777, 81526, 92272, 95584]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>

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	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]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>
	7	45AFUG	OP-UA12	SWS UNIT FUGITIVES		2501A, 106.261/11/01/2003 [84930, 101936]	<u>PSDTX767M2</u>

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]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>
	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]	<u>PSDTX767M2</u>

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

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	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}	<u>PSDTX767M2</u>
	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}	<u>PSDTX767M2</u>
	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}	<u>PSDTX767M2</u>

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	<u>PSDTX767M2</u>
	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

Texas Commission on Environmental Quality
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

Texas Commission on Environmental Quality
 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

Texas Commission on Environmental Quality
 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
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

Texas Commission on Environmental Quality
 Permit By Rule Supplemental Table (Page 3)

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

**Texas Commission on Environmental Quality
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).

**Texas Commission on Environmental Quality
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
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).

**Texas Commission on Environmental Quality
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
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).

**Texas Commission on Environmental Quality
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
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).

**Texas Commission on Environmental Quality
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
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.

Texas Commission on Environmental Quality
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
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.

**Texas Commission on Environmental Quality
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
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.

Texas Commission on Environmental Quality
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
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.

Texas Commission on Environmental Quality
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
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.

**Texas Commission on Environmental Quality
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
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.

Texas Commission on Environmental Quality
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
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 Commission 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 Environmental 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 Commission 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	63CCW-PRDLO1	YES	YES	
GRP-FUG	63CCW-PRDLO2	YES	YES	
GRP-FUG	63CCW-PRDLO3	YES	YES	
GRP-FUG	63CCW-PRDLO4	YES	YES	
GRP-FUG	63CCW-PRDLO5	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 Commission 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 Commission 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 12: 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.	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	63CCV-PRDGV01	YES		NO		YES
GRP-FUG	63CCV-PRDGV02	YES		NO		YES
GRP-FUG	63CCV-PRDGV03	YES		NO		YES
GRP-FUG	63CCV-PRDGV04	YES		NO		YES
GRP-FUG	63CCV-PRDGV05	YES		NO		YES
GRP-FUG	63CCV-PRDGV06	YES		NO		YES
GRP-FUG	63CCV-PRDGV07	YES		NO		YES
GRP-FUG	63CCV-PRDGV08	YES		NO		YES
GRP-FUG	63CCV-PRDGV09	YES		NO		YES
GRP-FUG	63CCV-PRDGV10	YES		NO		YES
GRP-FUG	63CCV-PRDGV11	YES		NO		YES
GRP-FUG	63CCV-PRDLL01		YES	NO		YES
GRP-FUG	63CCV-PRDLL02		YES	NO		YES
GRP-FUG	63CCV-PRDLL03		YES	NO		YES
GRP-FUG	63CCV-PRDLL04		YES	NO		YES
GRP-FUG	63CCV-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 Commission 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	63CCV-PRDGV01								
GRP-FUG	63CCV-PRDGV02								
GRP-FUG	63CCV-PRDGV03								
GRP-FUG	63CCV-PRDGV04								
GRP-FUG	63CCV-PRDGV05								
GRP-FUG	63CCV-PRDGV06								
GRP-FUG	63CCV-PRDGV07								
GRP-FUG	63CCV-PRDGV08								
GRP-FUG	63CCV-PRDGV09								
GRP-FUG	63CCV-PRDGV10								
GRP-FUG	63CCV-PRDGV11								
GRP-FUG	63CCV-PRDLL01								
GRP-FUG	63CCV-PRDLL02								
GRP-FUG	63CCV-PRDLL03								
GRP-FUG	63CCV-PRDLL04								
GRP-FUG	63CCV-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 Commission 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	63CCV-PRDGV01									
GRP-FUG	63CCV-PRDGV02									
GRP-FUG	63CCV-PRDGV03									
GRP-FUG	63CCV-PRDGV04									
GRP-FUG	63CCV-PRDGV05									
GRP-FUG	63CCV-PRDGV06									
GRP-FUG	63CCV-PRDGV07									
GRP-FUG	63CCV-PRDGV08									
GRP-FUG	63CCV-PRDGV09									
GRP-FUG	63CCV-PRDGV10									
GRP-FUG	63CCV-PRDGV11									
GRP-FUG	63CCV-PRDLL01									
GRP-FUG	63CCV-PRDLL02									
GRP-FUG	63CCV-PRDLL03									
GRP-FUG	63CCV-PRDLL04									
GRP-FUG	63CCV-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 Commission on Environmental Quality

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

Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with MACT VV									
Unit ID No.	SOP Index No.	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	63CCV-PRDGV01								
GRP-FUG	63CCV-PRDGV02								
GRP-FUG	63CCV-PRDGV03								
GRP-FUG	63CCV-PRDGV04								
GRP-FUG	63CCV-PRDGV05								
GRP-FUG	63CCV-PRDGV06								
GRP-FUG	63CCV-PRDGV07								
GRP-FUG	63CCV-PRDGV08								
GRP-FUG	63CCV-PRDGV09								
GRP-FUG	63CCV-PRDGV10								
GRP-FUG	63CCV-PRDGV11								
GRP-FUG	63CCW-PRDLO1								
GRP-FUG	63CCW-PRDLO2								
GRP-FUG	63CCW-PRDLO3								
GRP-FUG	63CCW-PRDLO4								
GRP-FUG	63CCW-PRDLO5								

Fugitive Emission Unit Attributes
 Form OP-UA12 (Page 93)
 Federal Operating Permit Program
 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 Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.				
8/13/2025	01381	RN100219310				
Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV						
Unit ID No.	SOP Index No.	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-PRDLO1					
GRP-FUG	63CCVV-PRDLO2					
GRP-FUG	63CCVV-PRDLO3					
GRP-FUG	63CCVV-PRDLO4					
GRP-FUG	63CCVV-PRDLO5					

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 Commission 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-PRDLO1					
GRP-FUG	63CCVV-PRDLO2					
GRP-FUG	63CCVV-PRDLO3					
GRP-FUG	63CCVV-PRDLO4					
GRP-FUG	63CCVV-PRDLO5					

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 95)
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 Commission 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)					
		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
Form OP-UA12 (Page 96)
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 Commission 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	63CCV-PRDGV01	NO	YES								
GRP-FUG	63CCV-PRDGV02	NO	NO	YES		PROCESS					
GRP-FUG	63CCV-PRDGV03	NO	NO	YES		FUEL					
GRP-FUG	63CCV-PRDGV04	NO	NO	YES		FLARE		NO			
GRP-FUG	63CCV-PRDGV05	NO	NO	NO	YES	PROCESS					
GRP-FUG	63CCV-PRDGV06	NO	NO	NO	YES	FUEL					
GRP-FUG	63CCV-PRDGV07	NO	NO	NO	YES	FLARE		NO			
GRP-FUG	63CCV-PRDGV08	NO	NO	NO	NO						
GRP-FUG	63CCV-PRDGV09	YES				PROCESS					
GRP-FUG	63CCV-PRDGV10	YES				FUEL					
GRP-FUG	63CCV-PRDGV11	YES				FLARE		NO			
GRP-FUG	63CCV-PRDLL01										
GRP-FUG	63CCV-PRDLL02										
GRP-FUG	63CCV-PRDLL03										
GRP-FUG	63CCV-PRDLL04										
GRP-FUG	63CCV-PRDLL05										

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 97)
Federal Operating Permit Program

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 Commission 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								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 Operated 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
Form OP-UA13 (Page 6)
Federal Operating Permit Program

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

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 30)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	The application area includes benzene transfer operations at tank-truck loading racks.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H. Subpart FF - National Emission Standard for Benzene Waste Operations		
<i>Applicability</i>		
1.	The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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). <i>If the responses to Questions VII.H.1 and VII.H.2 are both "No," go to Section VIII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.	The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. <i>If the response to Question VII.H.3 is "Yes," go to Section VIII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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). <i>If the response to Question VII.H.4 is "Yes," go to Section VIII</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. <i>If the response to Question VII.H.5 is "Yes," go to Section VIII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 31)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Applicability (continued)</i>	
6. The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7. The application area has waste streams with flow-weighted annual average water content of 10% or greater.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Waste Stream Exemptions</i>	
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).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. The application area transfers waste off-site for treatment by another facility.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12. The application area is complying with 40 CFR § 61.342(d).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13. The application area is complying with 40 CFR § 61.342(e). <i>If the response to Question VII.H.13 is "No," go to Question VII.H.15.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
14. The application area has facility waste with a flow weighted annual average water content of less than 10%.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 32)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Container Requirements</i>	
15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. <i>If the response to Question VII.H.15 is "No," go to Question VII.H.18.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VII.H.16 is "Yes," go to Question VII.H.18.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>Individual Drain Systems</i>	
18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. <i>If the response to Question VII.H.18 is "No," go to Question VII.H.25.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VII.H.19 is "Yes," go to Question VII.H.25.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
20. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VII.H.20 is "No," go to Question VII.H.22.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 33)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Individual Drain Systems (continued)</i>	
22. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VII.H.22 is "No," go to Question VII.H.25.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input type="checkbox"/> No
24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Remediation Activities</i>	
25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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. <i>See instructions for 40 CFR Part 63 subparts made applicable only by reference.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> 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). <i>If the response to Question VIII.B.1 is "No," go to Section VIII.D.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 88)
Federal Operating Permit Program
Texas Commission on Environmental Quality**

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 (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

Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1 (Page 89)
Federal Operating Permit Program
Texas Commission on Environmental Quality

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
<u>106.355</u>	<u>11/01/2001</u>	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)
Federal Operating Permit Program**

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)
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)
Federal Operating Permit Program**

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
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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program**

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)
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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program**

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	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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program**

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)
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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program**

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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program**

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

**Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program**

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
5	F-01	63CCV-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	63CCV-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	63CCV-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	63CCV-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	63CCV-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	63CCV-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	63CCV-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	63CCV-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	63CCV-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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program**

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	63CCVW-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	63CCVW-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	63CCVW-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	63CCVW-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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program**

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
5	F-01	63CCV-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	63CCV-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	63CCV-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	63CCV-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)

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program**

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	63CCVW-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

**Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program**

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
5	F-01	63CCW-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 ₂ S	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 ₂ S	0.01	---			
		CO	1.10	---			
		PM	0.10	---			
		PM ₁₀	0.10	---			
		PM _{2.5}	0.10	---			
		VOC	0.10	---			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025 <u>March 22, 2023</u>		
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, <u>8</u> , 53	3, 5, 66
		SO ₂	---	9.50			
		H ₂ S	---	0.04			
		CO	---	12.30			
		<u>PM</u>	<u>---</u>	<u>0.90</u>			
		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, <u>8</u> , 53, 61, 64	3, 5, 61, 66
		CO	14.28	62.55			
		VOC	1.93	8.43			
		SO ₂	9.52	20.85			
		H ₂ S	0.03	0.13			
		<u>PM</u>	<u>2.66</u>	<u>11.65</u>			
		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, <u>8</u> , 53	3, 5, 66
		CO	3.21	11.18			
		VOC	0.21	0.73			
		SO ₂	1.04	1.10			
		H ₂ S	<0.01	0.01			
		<u>PM</u>	<u>0.29</u>	<u>1.01</u>			

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, <u>8</u> , 53	3, 5, 66
		CO	2.31	10.10			
		VOC	0.15	0.66			
		SO ₂	0.75	0.88			
		H ₂ S	<0.01	0.01			
		<u>PM</u>	<u>0.21</u>	<u>0.91</u>			
		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, <u>8</u> , 53, 67	3, 5, 66, 67
		CO	2.47	10.82			
		VOC	0.16	0.71			
		SO ₂	0.80	0.92			
		H ₂ S	<0.01	0.01			
		<u>PM</u>	<u>0.22</u>	<u>0.98</u>			
		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, <u>8</u> , 9, 53, 57	3, 5, 57, 66
		CO	7.56	33.13			
		VOC	0.62	2.72			
		SO ₂	3.09	13.53			
		H ₂ S	0.01	0.06			
		<u>PM</u>	<u>0.86</u>	<u>3.76</u>			

Major NSR Summary Table

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 <u>March 22, 2023</u>		
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, <u>8</u> , 53, 67	3, 5, 66, 67
		CO	1.65	7.21			
		VOC	0.11	0.47			
		SO ₂	0.53	0.61			
		H ₂ S	<0.01	0.01			
		<u>PM</u>	<u>0.15</u>	<u>0.65</u>			
		PM ₁₀	0.15	0.65			
		PM _{2.5}	0.15	0.65			
41BA102	" D-GDU " Unifiner Rerun Tower Reboiler <u>Stabilizer Heater</u>	NO _x	2.65	11.59	3, 5, 7, 8, 67	3, 5, 7, <u>8</u> , 53, 67	3, 5, 66, 67
		CO	2.22	9.74			
		VOC	0.15	0.64			
		H ₂ S	<0.01	0.01			
		SO ₂	0.72	0.79			
		<u>PM</u>	<u>0.20</u>	<u>0.88</u>			
		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 <u>Topper</u> Heater	NO _x	7.77	8.76	3, 5, 7, 8, 10, 58, 59, 61	3, 5, 7, <u>8</u> , 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 ₂ S	0.02	0.07			
		<u>PM</u>	<u>1.86</u>	<u>6.53</u>			
		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 , <u>689</u>	3, 5, 15, 53, 56,-61, 64, <u>67, 678, 689</u>	3, 5, 56, 61, 66, <u>67, 678</u>
		CO	269.00	198.00 <u>246.83</u>			
		VOC	13.00	37.00			
		SO ₂	29.65	129.89			
		<u>PM</u>	<u>75.50</u>	<u>240.00</u>			
		PM ₁₀	75.50	240.00			
		PM _{2.5}	75.50	240.00			
		H ₂ SO 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 ₂ S	0.48	---			
		NH ₃	0.01	---			
		NO _x	5.51	---			
		SO ₂	93.95	---			
		<u>PM</u>	<u>0.44</u>	---			
		PM ₁₀	<u>0.200.44</u>	---			
		PM _{2.5}	<u>0.200.44</u>	---			
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 ₂ S	0.44	---			
		NH ₃	0.01	---			
		NO _x	5.01	---			
		SO ₂	85.15	---			
		<u>PM</u>	<u>0.40</u>	---			
		PM ₁₀	<u>0.180.40</u>	---			
		PM _{2.5}	<u>0.180.40</u>	---			

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 ₂ S	---	1.84			
		NH ₃	---	0.01			
		NO _x	---	20.94			
		SO ₂	---	354.28			
		PM	---	<u>2.55</u>			
		PM ₁₀	---	<u>0.55</u> <u>2.55</u>			
		PM _{2.5}	---	<u>0.55</u> <u>2.55</u>			
Cooling Towers							
27CWT2	Cooling Tower No. 2 (5)	VOC	6.24	2.87	5, 29	5, 29	5
		PM	<u>15.61</u>	<u>63.38</u>			
		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	<u>0.60</u>	<u>2.63</u>			
		PM ₁₀	0.54	2.37			
23CWT7	Cooling Tower No. 7 (5)	VOC	4.52	2.08	5, 29	5, 29	5
		PM	<u>0.23</u>	<u>0.99</u>			
		PM ₁₀	<u>40.18</u> <u>0.20</u>	<u>44.58</u> <u>0.89</u>			

Major NSR Summary Table

44CWT9	Cooling Tower No. 9 (5)	PM _{2.5}	0.14<0.01	0.500.01	5, 29	5, 29	5
		VOC	3.00	1.38			
		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 <u>March 22, 2023</u>		
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
		<u>PM</u>	<u>0.80</u>	<u>3.51</u>			
		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
		<u>PM</u>	<u>0.38</u>	<u>1.67</u>			
		PM ₁₀	0.34	1.50			
		PM _{2.5}	<0.01	0.02			
Storage Tanks							
22FB747	Storage Tank 22FB747	H ₂ SO ₄	<u>0.060.26</u>	0.01	30, 31	30, 62	
42FB2802	Storage Tank 42FB2802	VOC	0.10	0.04 <u>0.07</u>	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 ₂ S	0.01	0.03			
46FB6301	Storage Tank 46FB6301	VOC	0.01	0.01	30, 31	30, 62	
91FB922	Storage Tank 91FB922	VOC	<u>0.450.49</u>	<u>0.430.52</u>	3, 5, 30, 31	3, 5, 30, 62	3, 5
90FB735	Storage Tank 90FB735	VOC	<u>0.120.32</u>	<u>0.370.69</u>	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 ₂ S	0.02	0.07			
47AD5409	DAF Unit	VOC	5.51	24.15	37		
		H ₂ S	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 ₂ S	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 ₂ S	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 <u>103.62</u>	388.04 <u>449.89</u>	3, 5, 41, 42, 47	2, 3, 5, 41, 42, 47, 62	3, 5, 41, 66
		Benzene	0.03	0.15			
		H ₂ S	0.21	0.91 <u>0.92</u>			
		NH ₃	0.05	0.16 <u>0.17</u>			
		NaOH	<u>0.14</u>	<u>0.60</u>			
		H ₂ O ₂	<u>0.03</u>	<u>0.13</u>			
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	0.04			
SMALL-MSS	Small Equipment MSS Emissions	VOC	2.08	1.56	44, 45, 46	44, 45, 46, 63	
		Benzene	0.04	0.04			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: July 22, 2025 <u>March 22, 2023</u>		
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	0.04			
		NH ₃	0.01	0.01			
		H ₂ S	0.01	0.01			
FRAC-MSS	Frac Tank MSS Emissions	VOC	0.88	5.36	44, 54	44, 51, 54, 63	
		Benzene	0.04	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	0.04			
		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 ₂ S	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 ₂ S	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	0.04	0.04			
		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	0.04			
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					

Major NSR Summary Table

	H ₂ S	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
 - SO₂ - sulfur dioxide
 - H₂S - hydrogen sulfide
 - NH₃ - ammonia
 - PM - total particulate matter, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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
 - H₂SO₄ - sulfuric acid
 - HCN - hydrogen cyanide
 - NaOH - sodium hydroxide
 - H₂O₂ - 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. [4648.F\(4\)](#).
- (7) Annual emissions of NO_x and CO from activities authorized by EPN BOILER-MSS will be accommodated as part of the annual allowable NO_x and CO caps for the boilers ~~(EPN BOILER_CAP) authorized in Permit 124424.~~
- (8) Hourly emissions are authorized by EPN TANK-MSS.