From:	Donta, Jamie
To:	Ulises Luna
Subject:	RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility
Date:	Tuesday, April 8, 2025 3:06:18 PM
Attachments:	image009.png image001.png image002.png image003.png

Hi Ulises,

The final OP-CRO1 was just submitted in STEERS.

Best Regards,

Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

KINDER MORGAN
Delivering Energy to Improve Lives

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Friday, April 4, 2025 1:50 PM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good afternoon Jamie,

Please submit a final OP-CRO1 in STEERS for the updated Major NSR Summary Table. Please provide the information by ***April 9, 2025***

Thanks,
Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Thursday, February 27, 2025 1:34 PM

To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Hi Ulises,

Please see attached for the completed Major NSR Summary table. For EPNs EGEN-1 and FUG-LOAD, I also attached a copy of the NSR permit application pages referenced.

Best Regards,
Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Wednesday, February 26, 2025 5:34 PM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good afternoon Jamie,

During the QAQC review, we noticed that a Major NSR Summary table needed to be updated:

Please update the attached Major NSR Summary table according to the instructions found at http://www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html

Please provide your updates by **March 4, 2025 .**

Thanks,
Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Monday, February 24, 2025 1:44 PM
To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Great. The final OP-CRO1 has been submitted by our DAR in STEERS.

Best Regards,

Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Friday, February 21, 2025 11:00 AM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good morning,

Thank you for the attachment, this will be satisfactory.

Thank you,
Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Friday, February 21, 2025 8:36 AM
To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Ulises,

Thanks for clarifying. I provided our most recently submitted OP-REQ2 as an attachment, which does not list Kb negative applicability for those tanks. This was part of a 2020 Title V permit revision (project no. 30436). Will this be satisfactory, or do you need a resubmitted copy with a revised date?

Best Regards,

Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

KINDER MORGAN
Delivering Energy to Improve Lives

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Friday, February 21, 2025 8:28 AM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good morning Jamie,

Sorry about that, in our system the Units ID: 100-20, 100-21, and 120-22 has positive applicability /UA attributes for 40 CFR Part 60, Subpart Kb and negative applicability (OP-REQ2) for 40 CFR Part 60, Subpart Kb.

Thank,
Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Friday, February 21, 2025 7:51 AM
To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Hi Ulises,

Could you please clarify which regulation will now have positive applicability? On the copy of the REQ2 form I am looking at, I see negative applicability listed for MACT CC and MACT EEEE for those tanks, which will still be the case.

Best Regards,

Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

KINDER MORGAN
Delivering Energy to Improve Lives

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Thursday, February 20, 2025 3:36 PM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good afternoon Jamie,

I noticed that these Units ID: 100-20, 100-21, and 120-22 has positive applicability /UA attributes and negative applicability (OP-REQ2). Please remove the OP-REQ2 for those units.

Please provide an updated OP-REQ2 and submit an OP-CRO1 in STEERS by ***February 24, 2025***

Thanks,
Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Wednesday, February 19, 2025 12:12 PM
To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Hi Ulises,

Thank you, I reviewed the updated pages and have no further comments.

Best Regards,

Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

KINDER MORGAN
Delivering Energy to Improve Lives

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Wednesday, February 19, 2025 11:44 AM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good morning Jamie,

Here's the updated working draft permit.

Please provide the comments by ***February 24, 2025***

Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Wednesday, February 12, 2025 8:39 AM
To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Hi Ulises,

Please see attached for an updated Form OP-UA3 and OP-CRO1. I also attached a copy of the draft permit with comments on Pages 72-73.

Best Regards,

Jamie M. Donta
EHS Engineer III
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

KINDER MORGAN
Delivering Energy to Improve Lives

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Thursday, February 6, 2025 5:40 PM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good afternoon

I have conducted a technical review of *minor revision* application for *Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility*. 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, and any updates provided.

Please review the WDP and submit to me any comments you have on the working draft permit by ***February 14, 2025*** .

Additionally, the following deficiencies has been identified:

- **In Unit ID: 100-12 - Index Number: 60Kb-01 (OP-UA03 Form), the facility entered "IFR" WW Tank Control. It should be "None". Please provide an updated OP-UA3 form .**
- **In Unit ID: 100-13 - Index Number: 60Kb-01 (OP-UA03 Form), the facility entered "IFR" WW Tank Control. It should be "None". Please provide an updated OP-UA3 form .**
- **In Unit ID: 120-22 - Index Number: 60Kb-01 (OP-UA03 Form), the facility entered "IFR" WW Tank Control. It should be "None". Please provide an updated OP-UA3**

form .

- **In Unit ID: 100-15 - Index Number: 60Kb-01 (OP-UA03 Form), based on the attributes in the application, the facility put "IFR-SL" in the Storage Vessel Description. It should be either "CVS-CD or CVS-FL". Please provide an updated OP-UA3 form .**
- **In Unit ID: 120-24 - Index Number: 60Kb-01 (OP-UA03 Form), based on the attributes in the application, the facility put "IFR-SL" in the Storage Vessel Description. It should be either "CVS-CD or CVS-FL". Please provide an updated OP-UA3 form .**
- **In Unit ID: 120-25 - Index Number: 60Kb-01 (OP-UA03 Form), based on the attributes in the application, the facility put "IFR-SL" in the Storage Vessel Description. It should be either "CVS-CD or CVS-FL". Please provide an updated OP-UA3 form .**

Note- Some units/modifications/requested items where not include in the Working Draft Permit due to deficiencies being found in the application/permit.

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_factsheet.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,

Ulises Luna (He, Him)
Operating Permits Section
Air Permits Division – TCEQ
(512) 239-6640

From: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Sent: Tuesday, July 16, 2024 9:18 AM
To: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Subject: RE: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Hi Ulises,

Thank for reaching out. After reviewing the below, I do not believe I need to do any additional updates.

Best Regards,

Jamie M. Donta
Senior Air Permitting & Compliance Specialist
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

From: Ulises Luna <Ulises.Luna@tceq.texas.gov>
Sent: Friday, July 12, 2024 5:32 PM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: Technical Review -- FOP O3764/Project 36794, Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility

Good afternoon,

I have been assigned to the Federal Operating Permit (FOP) minor revision application of Permit No. O3764 for Kinder Morgan Crude & Condensate LLC/Galena Park Splitter Facility. This application has been assigned Project No. 36794. 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_factsheet.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,

Ulises Luna (he/him)
Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163
Austin, TX 78711
Phone: (512) 239-6640

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

Major NSR Summary Table

Permit Number 101199 and N158					Issuance Date: March 26, 2024		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
F-101	Naphtha Stabilizer Hot Oil Heater Train I	CO	9.13	—	1, 3, 4, 8, 9, 10, 11, 22	3, 4, 9, 10, 11	4, 22
		CO (6)	73.07	—			
		NO_X	3.71	—			
		NO_X (6)	16.06	—			
		VOC	1.33	—			
		SO_2	6.55	—			
		PM	1.11	—			
		PM_{10}	1.11	—			
		$PM_{2.5}$	1.11	—			
		NH_3	1.11	—			
		NH_3 (6)	1.66				
F-201	Naphtha Stabilizer Hot Oil Heater Train II	CO	9.13	—	1, 3, 4, 8, 9, 10, 11, 22	3, 4, 9, 10, 11	4, 22
		CO (6)	73.07	—			
		NO_X	3.71	—			
		NO_X (6)	16.06	—			
		VOC	1.33	—			
		SO_2	6.55	—			

Major NSR Summary Table

Permit Number 101199 and N158					Issuance Date: March 26, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM	1.11	—			
		PM_{10}	1.11	—			
		$PM_{2.5}$	1.11	—			

Major NSR Summary Table

					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		NH_3	1.11	—			
		NH_3 (6)	1.66				
F-101 F-201	Heater Annual Emission Cap (7)	CO	—	73.84	1, 3, 4, 8, 9, 10, 11, 22	3, 4, 9, 10, 11	4, 22
		NO_X	—	16.00			
		VOC	—	10.19			
		SO_2	—	18.89			
		PM	—	8.51			
		PM_{10}	—	8.51			
		$PM_{2.5}$	—	8.51			
		NH_3	—	8.63			
FL-101	Flare No. 101	CO	17.32	12.98	1, 3, 4, 9, 12, 35	3, 4, 9, 12, 35	4
		NO_X	4.35	3.26			
		VOC	25.89	1.75			
		SO_2	0.36	0.24			
		H_2S	<0.01	<0.01			
200-1	Tank No. 200-1	VOC	1.65	1.32	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
200-2	Tank No. 200-2	VOC	2.13	2.57	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6

Major NSR Summary Table

					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
200-3	Tank No. 200-3	VOC	1.68	1.40	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
100-20	Tank No. 100-20	VOC	0.81	0.23	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
150-10	Tank No. 150-10	VOC	0.68	0.27	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
120-24	Tank No. 120-24	VOC	1.00	0.92	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6

Major NSR Summary Table

					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
100-21	Tank No. 100-21	VOC	0.81	0.22	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
100-11	Tank No. 100-11	VOC	0.81	0.23	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
100-14	Tank No. 100-14	VOC	1.57	0.55	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
5-0	Tank No. 5-0	VOC	1.14	0.60	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
120-22	Tank No. 120-22	VOC	0.70	0.36	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
100-12	Tank No. 100-12	VOC	0.81	0.22	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
120-25	Tank No. 120-25	VOC	0.99	0.89	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
100-13	Tank No. 100-13	VOC	0.67	0.32	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
120-23	Tank No. 120-23	VOC	0.70	0.36	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
100-15	Tank No. 100-15	VOC	0.97	1.01	1, 4, 6, 16, 17	4, 6, 17, 18	4, 6
TK-101	Wastewater Sump	VOC	1.16	0.37	1, 16	18	
TK-102	Storm Water Sump	VOC	21.98	0.25	1, 16	18	
TK-108	Tank No. TK-108	VOC	0.02	0.01	1, 16, 17	17, 18	
FUG	Process Fugitive Components (5)	VOC	2.0	8.78	1, 4, 13, 14, 15	4, 13, 14, 15	4
		NH_3	0.04	0.19			
EGEN-1	Emergency Generator	CO	4.60	0.34	1, Proj: 358542, 06/09/2023, pages 115-116	Proj: 358542, 06/09/2023, pages 115-116	
		NO_X	6.13	0.46			

Major NSR Summary Table

					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		VOC	3.06	0.23			
		SO_2	0.01	<0.01			
		PM	0.19	0.01			
		PM_{10}	0.19	0.01			
		$PM_{2.5}$	0.19	0.01			
MSS	MSS Activities	VOC	327.20	3.44	1, 27, 28, 29, 31, 32, 33, 34, 35	26, 27, 29, 32, 33, 34, 35	
		NO_X	42.92	1.16			

Major NSR Summary Table

					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		CO	110.50	1.98			
		SO_2	15.01	0.01			
		PM	6.92	0.15			
		PM_{10}	6.92	0.15			
		$PM_{2.5}$	6.92	0.15			
FUG-LOAD	Material (solids) Drop Point	PM	0.01	0.01	1, Proj: 358542, 06/09/2023, page 116	Proj: 358542, 06/09/2023, page 116	
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name. (3)
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide
NH_3 - ammonia
(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) Rates apply to planned startup periods as specified in Special Condition 26.
(7) Heater annual emission cap includes annual MSS emissions for heaters.

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information	
RN: **RN108071325**	
CN: **CN603935248**	
Account No.: **HG-0262-H**	
Permit No.: **O3764**	
Project No.: **36794**	
Area Name: **Galena Park Splitter Facility**	
Company Name: **Kinder Morgan Crude & Condensate LLC**	
II. Certification Type *(Please mark appropriate box)*	
☐ Responsible Official Representative	☒ Duly Authorized Representative
III. Submittal Type *(Please mark appropriate box) (Only one response can be accepted per form)*	
☐ SOP/TOP Initial Permit Application	☐ Permit Revision, Renewal, or Reopening
☐ GOP Initial Permit Application	☒ Update to Permit Application
☐ Other:_____	

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

IV. Certification of Truth

This certification does not extend to information which is designated by TCEQ as information for reference only.

I, **Hayden Cross** certify that I am the **DAR**

(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:
Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From 2/24/2025 to 4/7/2025

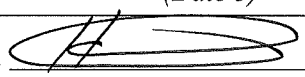
(Start Date) *(End Date)*

Specific Dates: _____ _____ _____ _____ _____

(Date 1) *(Date 2)* *(Date 3)* *(Date 4)*

_____ _____

(Date 5) *(Date 6)*

Signature:  Signature Date: 4/7/25

Title: **Manager of Operations**

Texas Commission on Environmental Quality

Title V Existing

3764

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	GALENA PARK SPLITTER FACILITY
Does the site have a physical address?	Yes
Physical Address	
Number and Street	407 CLINTON DR
City	GALENA PARK
State	TX
ZIP	77547
County	HARRIS
Latitude (N) (##.######)	29.732777
Longitude (W) (-###.######)	95.220277
Primary SIC Code	4226
Secondary SIC Code	
Primary NAICS Code	324110
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN108071325
What is the name of the Regulated Entity (RE)?	KINDER MORGAN CRUDE & CONDENSATE KMCC SPLITTER FACILITY
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	407 CLINTON DR
City	GALENA PARK
State	TX
ZIP	77547
County	HARRIS
Latitude (N) (##.######)	29.735833
Longitude (W) (-###.######)	-95.218611
Facility NAICS Code	
What is the primary business of this entity?	PRODUCTION OF PETROLEUM PRODUCTS FROM CRUDE CONDEN

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603935248
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Kinder Morgan Crude & Condensate LLC
Texas SOS Filing Number	801408626
Federal Tax ID	
State Franchise Tax ID	32045061218

State Sales Tax ID	
Local Tax ID	
DUNS Number	38009944
Number of Employees	
Independently Owned and Operated?	Yes

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MR
First	DANNY
Middle	
Last	MORGAN
Suffix	JR
Credentials	
Title	DIRECTOR OF OPERATIONS
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1001 LOUISIANA ST
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77002
Phone (###-###-####)	7134205845
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	danny_morgan@kindermorgan.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	HAYDEN CROSS(KINDER MORGAN C...)
Organization Name	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MR
First	HAYDEN
Middle	
Last	CROSS
Suffix	
Credentials	
Title	MANAGER OF OPERATIONS
Enter new address or copy one from list	
Mailing Address	

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	407 CLINTON DR
Routing (such as Mail Code, Dept., or Attn:)	
City	GALENA PARK
State	TX
Zip	77547
Phone (###-###-####)	8326905668
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	hayden_cross@kindermorgan.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	JAMIE DONTA(KINDER MORGAN C...)
Organization Name	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MRS
First	JAMIE
Middle	
Last	DONTA
Suffix	
Credentials	
Title	SENIOR AIR PERMITTING AND COMPLIANCE SPECIALIST
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	407 CLINTON DR
Routing (such as Mail Code, Dept., or Attn:)	
City	GALENA PARK
State	TX
ZIP	77547
Phone (###-###-####)	8326905623
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jamie_donta@kindermorgan.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	29 Deg 43 Min 58 Sec
3) Permit Longitude Coordinate:	95 Deg 13 Min 13 Sec
4) Is this submittal a new application or an update to an existing application?	Update

4.1. Select the permit/project number for which this update should be applied.	3764-36794
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) 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-ACPS (Application Compliance Plan and Schedule)

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 Void Request Form

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name	Form OP-CRO1 040725.pdf
Hash	174C6528A4D9349DF1BD96C9353A9E31C8E836779A304EC6682C86AC9002EF3C
MIME-Type	application/pdf

[File Properties]

File Name	Major NSR Summary Table 101199.docx
Hash	9012950C75E7D8B2055990DBB58675FE9408C7DB9ACE8805163B9ECF82FDFD53
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

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

Certification

I certify that I am the Duly Authorized Representative 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 Hayden Cross, the owner of the STEERS account ER111679.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 3764.
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: Hayden Cross OWNER OPERATOR

Account Number:	ER111679
Signature IP Address:	98.159.8.29
Signature Date:	2025-04-08
Signature Hash:	C0A0CA2F73E93B460F7BFF45BFBBBD11D4D9DD23A9DE5537BCD8D27BEC81F8FF
Form Hash Code at time of Signature:	30505C864E313E8C74C4AA27D2575D6CA2FA54B04056538BE36A08F3EFD1F40E

Submission

Reference Number:	The application reference number is 776463
Submitted by:	The application was submitted by ER111679/Hayden Cross
Submitted Timestamp:	The application was submitted on 2025-04-08 at 14:55:09 CDT
Submitted From:	The application was submitted from IP address 98.159.8.29
Confirmation Number:	The confirmation number is 645074
Steers Version:	The STEERS version is 6.89
Permit Number:	The permit number is 3764

Additional Information

Application Creator: This account was created by Jamie M Donta

Texas Commission on Environmental Quality

Title V Existing

3764

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	GALENA PARK SPLITTER FACILITY
Does the site have a physical address?	Yes
Physical Address	
Number and Street	407 CLINTON DR
City	GALENA PARK
State	TX
ZIP	77547
County	HARRIS
Latitude (N) (##.######)	29.732777
Longitude (W) (-###.######)	95.220277
Primary SIC Code	4226
Secondary SIC Code	
Primary NAICS Code	324110
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN108071325
What is the name of the Regulated Entity (RE)?	KINDER MORGAN CRUDE & CONDENSATE KMCC SPLITTER FACILITY
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	407 CLINTON DR
City	GALENA PARK
State	TX
ZIP	77547
County	HARRIS
Latitude (N) (##.######)	29.735833
Longitude (W) (-###.######)	-95.218611
Facility NAICS Code	
What is the primary business of this entity?	PRODUCTION OF PETROLEUM PRODUCTS FROM CRUDE CONDEN

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603935248
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Kinder Morgan Crude & Condensate LLC
Texas SOS Filing Number	801408626
Federal Tax ID	
State Franchise Tax ID	32045061218

State Sales Tax ID	
Local Tax ID	
DUNS Number	38009944
Number of Employees	
Independently Owned and Operated?	Yes

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MR
First	DANNY
Middle	
Last	MORGAN
Suffix	JR
Credentials	
Title	DIRECTOR OF OPERATIONS
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1001 LOUISIANA ST
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77002
Phone (###-###-####)	7134205845
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	danny_morgan@kindermorgan.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	New Contact
Organization Name	Kinder Morgan Crude & Condensate LLC
Prefix	MR
First	Hayden
Middle	
Last	Cross
Suffix	
Credentials	
Title	Manager of Operations
Enter new address or copy one from list	Site Physical Address
Mailing Address	
Address Type	Domestic

Mailing Address (include Suite or Bldg. here, if applicable)	407 CLINTON DR
Routing (such as Mail Code, Dept., or Attn:)	
City	GALENA PARK
State	TX
Zip	77547
Phone (###-###-####)	8326905668
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	hayden_cross@kindermorgan.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	JAMIE DONTA(KINDER MORGAN C...)
Organization Name	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MRS
First	JAMIE
Middle	
Last	DONTA
Suffix	
Credentials	
Title	SENIOR AIR PERMITTING AND COMPLIANCE SPECIALIST
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	407 CLINTON DR
Routing (such as Mail Code, Dept., or Attn:)	
City	GALENA PARK
State	TX
ZIP	77547
Phone (###-###-####)	8326905623
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jamie_donta@kindermorgan.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	29 Deg 43 Min 58 Sec
3) Permit Longitude Coordinate:	95 Deg 13 Min 13 Sec
4) Is this submittal a new application or an update to an existing application?	Update
4.1. Select the permit/project number for which this update should be applied.	3764-36794

5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) 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-ACPS (Application Compliance Plan and Schedule)

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)

[File Properties]

File Name	OP_DEL_TCEQ OP-DEL 021025.pdf
Hash	9CBFE9751430ABC7EA368960C263E3BBE0684253488CF72057E0894ACA215F09
MIME-Type	application/pdf

Attach Void Request Form

Attach any other necessary information needed to complete the permit.

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

Certification

I certify that I am the Duly Authorized Representative 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 Hayden Cross, the owner of the STEERS account ER111679.

2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 3764.
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: Hayden Cross OWNER OPERATOR

Account Number:	ER111679
Signature IP Address:	98.159.8.27
Signature Date:	2025-02-19
Signature Hash:	C0A0CA2F73E93B460F7BFF45BFBBBD11D4D9DD23A9DE5537BCD8D27BEC81F8FF
Form Hash Code at time of Signature:	469FD53C387183E5A14676D41A075B0116EB2E1E80411D7037B2856824A4FA64

Submission

Reference Number:	The application reference number is 759212
Submitted by:	The application was submitted by ER111679/Hayden Cross
Submitted Timestamp:	The application was submitted on 2025-02-19 at 08:22:20 CST
Submitted From:	The application was submitted from IP address 98.159.8.27
Confirmation Number:	The confirmation number is 630792
Steers Version:	The STEERS version is 6.87
Permit Number:	The permit number is 3764

Additional Information

Application Creator: This account was created by Jamie M Donta

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information	
RN: **RN108071325**	
CN: **CN603935248**	
Account No.: **HG-0262-H**	
Permit No.: **O3764**	
Project No.: **36794**	
Area Name: **Galena Park Splitter Facility**	
Company Name: **Kinder Morgan Crude & Condensate LLC**	
II. Certification Type *(Please mark appropriate box)*	
☐ Responsible Official Representative	☒ Duly Authorized Representative
III. Submittal Type *(Please mark appropriate box) (Only one response can be accepted per form)*	
☐ SOP/TOP Initial Permit Application	☐ Permit Revision, Renewal, or Reopening
☐ GOP Initial Permit Application	☒ Update to Permit Application
☐ Other:_____	

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

IV. Certification of Truth

This certification does not extend to information which is designated by TCEQ as information for reference only.

I, **Hayden Cross** certify that I am the **DAR**

(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:
Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From _____ to _____

(Start Date) *(End Date)*

Specific Dates: **2/10/2025** _____ _____ _____

(Date 1) *(Date 2)* *(Date 3)* *(Date 4)*

_____ _____

(Date 5) *(Date 6)*

Signature: _____ Signature Date: 2/10/25

Title: **Manager of Operations**

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.
2/10/2025	O-3764	RN108071325

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.
100-11	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
100-12	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
100-13	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
100-14	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
100-15	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
100-20	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
100-21	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
120-22	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
120-23	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
120-24	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
120-25	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
150-10	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				

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.
5/29/2024	O-3764	RN108071325

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.
200-1	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
200-2	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
200-3	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
5-0	60Kb-01	WASTE	40K+	NONE	0.75-11.1	IFR-SL				
TK-101	60Kb-01	PTLQ-3	10K-	NONE						
TK-102	60Kb-01	VOL	10K-	NONE						
TK-108	60Kb-01	VOL	10K-	NONE						
TK-201	60Kb-01	PTLQ-3	10K-	NONE						
TK-202	60Kb-01	VOL	10K-	NONE						

Form OP-DEL
Delegation of Responsible Official Information
Federal Operating Permit Program
Texas Commission on Environmental Quality

I. Identifying Information
Account Number: HGA416H
Regulated Entity Number: RN 108071325
Customer Reference Number: CN 603935248
Permit Number: O3764
Area Name: Galena Park Splitter Facility
Company Name: Kinder Morgan Crude & Condensate LLC
II. Duly Authorized Representative Information
Action Type: ☒ New DAR Identification ☐ Administrative Information Change
Conventional Title: ☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.
Name (Driver License/STEERS): Hayden Cross
Title: Manager of Operations
Delegation Effective Date: 1/20/2025
Telephone Number: (832) 690-5668
Fax Number:
Company Name: Kinder Morgan Crude & Condensate LLC
Mailing Address: 407 Clinton Drive
City: Galena Park
State: TX
ZIP Code: 77547
Email Address: Hayden_Cross@kindermorgan.com

Form OP-DEL
Delegation of Responsible Official Information
Federal Operating Permit Program
Texas Commission on Environmental Quality

III. Certification of Truth, Accuracy, and Completeness

I, Danny Morgan, Jr.

(Name printed or typed: RO for New DAR Identification; RO or DAR for Administrative Information Change)

Certify that, based on information and belief formed after reasonable inquiry, the statements, and information stated above are true, accurate, and complete. *(RO signature required for New DAR Identification only; DAR signature required for any Action Type)*

Responsible Official Signature: [signature]

Date: 02/18/2025

Duly Authorized Representative Signature: Hayden Cross [signature]

(Name(s) printed or typed)

Date: 2/10/2025.

IV. Removal of Duly Authorized Representative(s)

The following should be removed as Duly Authorized Representative(s):

Sean Duncan

(Name(s) printed or typed)

Effective Date: 1/20/2025

Responsible Official Signature: [signature]

Date: 02/18/2025

From: Donta, Jamie
To: Richard Suniga
Subject: RE: Kinder Morgan Crude & Condensate LLC, O3764
Date: Tuesday, July 2, 2024 12:24:21 PM
Attachments: image001.png
image006.png
OP-DEL Form 070224.pdf

Hi Richard,

The requested OP-DEL form signed by our RO and new DAR is attached. Please let me know if you need anything else.

Best Regards,

Jamie M. Donta
Senior Air Permitting & Compliance Specialist
Office: (832) 690-5623
Cell: (224) 374-2161
407 Clinton Drive | Galena Park, TX 77547

KINDER MORGAN
Delivering Energy to Improve Lives

From: Richard Suniga <richard.suniga@tceq.texas.gov>
Sent: Friday, June 28, 2024 1:24 PM
To: Donta, Jamie <Jamie_Donta@kindermorgan.com>
Subject: Kinder Morgan Crude & Condensate LLC, O3764

Mrs. Donta,

The TCEQ received your Streamline permit application for the above mentioned and need additional information. I'm not able to certify and complete the initial review at this time. Please email to me a completed and signed OP-DEL form appointing Mr. Sean Duncan as a DAR. Should you have any questions or concerns please don't hesitate to contact me.

Sincerely,

Richard Suniga, License & Permit Specialist
Texas Commission on Environmental Quality | Office of Air
Air Permits Division | Air Permits Initial Review Team
12100 Park 35 Circle, Bldg. C, Austin, TX 78753
Mail: MC-161, P.O. Box 13087, Austin TX 78711-3087
(512) 239-5325 | Richard.Suniga@tceq.texas.gov
Web Site: www.tceq.texas.com
Please consider whether it is necessary to print this e-mail
How are we doing? www.tceq.texas.gov/customersurvey

Texas Commission on Environmental Quality
Form OP-DEL
Delegation of Responsible Official Information
Federal Operating Permit Program

A Responsible Official (RO) may choose to delegate signature authority to a Duly Authorized Representative (DAR). Such delegation may be made to an individual that has responsibility for the overall operation of one or more manufacturing, production, or operating facilities applying for, or subject to, a federal operating permit. **Send this completed form to the TCEQ Central Office to the attention of the Air Permits Division.** Signature stamps can be accepted in place of an original signature. Faxes, photocopies, and electronic submittals can be accepted in place of an original Form OP-DEL; however, a follow-up submittal of the original Form OP-DEL is requested

I. Identifying Information		
Account No.: HGA416H	RN: 108071325	CN: 603935248
Permit No.: O3764	Area Name: Galena Park Splitter Facility	
Company Name: Kinder Morgan Crude & Condensate LLC		
II. Duly Authorized Representative Information		
Action Type: ☒ New DAR Identification ☐ Administrative Information Change		
Conventional Title: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)		
Name: Sean Duncan		
Title: Manager of Operations	Delegation Effective Date: 01/01/2023	
Telephone No.: (832) 690-5668	Fax No.:	
Company Name: Kinder Morgan Crude & Condensate LLC		
Mailing Address: 407 Clinton Drive		
City: Galena Park	State: TX	ZIP Code: 77547
E-mail Address: Sean_Duncan@kindermorgan.com		

III. Certification of Truth, Accuracy, and Completeness

I, Danny Morgan, Jr. ,certify that, based on

(Name printed or typed: RO for New DAR Identification; RO or DAR for Administrative Information Change)

information and belief formed after reasonable inquiry, the statements, and information stated above are true, accurate, and complete. *(RO signature required for New DAR Identification only; DAR signature required for any Action Type)*

Responsible Official Signature: _____ Date: 07/02/2024

Duly Authorized Representative Signature: _____ Date: 07/02/2024

IV. Removal of Duly Authorized Representative(s)

The following should be removed as Duly Authorized Representative(s):

_____ Effective Date: _____

(Name(s) printed or typed)

Responsible Official Signature: _____ Date: _____

From: Richard Suniga
To: jamie_donta@kindermorgan.com
Subject: Kinder Morgan Crude & Condensate LLC, O3764
Date: Friday, June 28, 2024 1:24:11 PM

Mrs. Donta,

The TCEQ received your Streamline permit application for the above mentioned and need additional information. I'm not able to certify and complete the initial review at this time. Please email to me a completed and signed OP-DEL form appointing Mr. Sean Duncan as a DAR. Should you have any questions or concerns please don't hesitate to contact me.

Sincerely,

Richard Suniga, License & Permit Specialist
Texas Commission on Environmental Quality | Office of Air
Air Permits Division | Air Permits Initial Review Team
12100 Park 35 Circle, Bldg. C, Austin, TX 78753
Mail: MC-161, P.O. Box 13087, Austin TX 78711-3087
(512) 239-5325 | Richard.Suniga@tceq.texas.gov
Web Site: www.tceq.texas.com
Please consider whether it is necessary to print this e-mail
How are we doing? www.tceq.texas.gov/customersurvey

Address not found. ZIP Code results displayed.

Congresswoman Sylvia R. Garcia
U.S. Congressional District 29

Representative Ana Hernandez
Texas House District 143

Senator Carol Alvarado
Texas Senate District 6

Ms. Staci Childs
State Board of Education District 4

Senator John Cornyn
U.S. Senate

Senator Ted Cruz
U.S. Senate

libraries.org

A directory of libraries throughout the world

Galena Park Branch Library

Harris County, TX

Address: 1500 Keene Street
Galena Park, **Texas**
77547-2400
United States

County: Harris

Region: Houston Area

Phone: 713-450-0982

Connect to: Library Web Site✓ Online Catalog

Library details: **Galena Park Branch Library** is a **Public** library.
This library is affiliated with **Harris County Public Library** (**view map**) . The collection of the library contains **36,141** volumes. The library circulates **60,884** items per year.

Permalink: **https://librarytechnology.org/library/24345**
(Use this link to refer back to this listing.)

Organizational structure: This is a publicly funded and managed library.

See also: **Directory of Public Libraries in the United States**

See also: **Directory of Public Libraries in Texas**

Collection size	36,141	**volumes**
Annual Circulation	60,884	**transactions**

Wireless: The library offers **wireless** access to the Internet.

Technology Profile		
	Product Name	**Year Contracted**
Current Automation System	**Symphony**	**2015**
Previous Automation System	**Horizon**	2001
Previous Automation System	**Dynix**	1994
Previous Automation System	**Carl**	1990
Previous Automation System	**UTLAS**	1985
Discovery Interface	**BiblioCore**	**2022**

Galena Park Branch Library

map location✓

Related Libraries

- Other members of **Harmonic Consortium**
- Libraries located in **Galena Park** (Texas)
- Libraries located in **Harris** county (Texas)
- **View map of libraries in Harris County**
- **all Public libs in Texas**
- **United States**
- **Automation systems in Texas**

About libraries.org

libraries.org is a free directory of libraries throughout the world.

Previous Discovery Interface	Enterprise	2015
Web Content Management	**BiblioWeb**	

The library participates in the shared automation system provided by the **Harmonic Consortium** (**view map**)

View Privacy and Security Report

Identifiers	
libraries.org ID	24345
OCLC Symbol	#ht
NCES FSCSKEY	**TX0101**
NCES LIBID	190.168

Record History: This listing was created on Oct 6, 2005 and was last modified on Mar 26, 2023.

Updates: Corrections or Updates? Registered members of Library Technology Guides can submit updates to library listings in libraries.org. **Registration** is free and easy. Already registered? **login**. Or, you can report corrections just by sending a message to **Marshall Breeding**.

This directory is a component of **Library Technology Guides**.

This entry is from the **Directory of Public Libraries in the United States**.

This entry is from the **Directory of Public Libraries in Texas** .

Please **contact Marshall Breeding** to report corrections about information listed for this library.

From: Johnny Bowers
To: Richard Suniga
Subject: FW: STEERS Title V Application Submittal (New Application)
Date: Wednesday, June 26, 2024 6:46:13 AM

Please process this streamline revision. Thanks!

-----Original Message-----
From: steers@tceq.texas.gov <steers@tceq.texas.gov>
Sent: Tuesday, June 25, 2024 7:17 AM
To: RFCAIR12 <RFCAIR12@tceq.texas.gov>; air_permits@pcs.hctx.net; TVAPPS <tvapps@tceq.texas.gov>
Subject: STEERS Title V Application Submittal (New Application)

The TV-E application has been successfully submitted by DANNY MORGAN. The submittal was received at 06/25/2024 07:16 AM.

The Reference number for this submittal is 662991

The confirmation number for this submittal is 547510.
The Area ID for this submittal is 3764.
The Project ID for this submittal is 36794.
The hash code for this submittal is 0AC3FB980A2EC8FD99F124D66F40EA580D5B04E967F861C98B9F40B62B6A478C.

You may access the original application submittal and the notice of final action documents from the COR Viewer which is available at https://ida.tceq.texas.gov/steersstaff/index.cfm?fuseaction=openadmin.submitlog&newsearch=yes.

If you have any questions, please contact the STEERS Help Line at 512-239-6925 or by e-mail at steers@tceq.texas.gov.

June 24, 2024 *Electronic Submittal*

Air Permits Initial Review Team (APIRT)
Texas Commission on Environmental Quality (TCEQ)
12100 Park 35 Circle, MC-161
Building C, Third Floor, Room 300 W
Austin, Texas 78753

RE: Title V Minor Revision Application
Kinder Morgan Crude & Condensate LLC
Galena Park, Harris County
Regulated Entity Number: RN108071325
Customer Reference Number: CN603935248
Title V Permit No. O-3764

Dear TCEQ APIRT:

Kinder Morgan Crude & Condensate LLC (KMCC) hereby submits the following Title V minor revision request in accordance with Title 30, Texas Administrative Code (30 TAC) § 122.215 for the Crude Condensate Splitter Facility (Splitter)'s Title V Permit Number O-3764. The Condensate Splitter is located in Galena Park, Harris County, Texas and consists of two trains which each process hydrocarbon condensates utilizing conventional distillation technology to obtain products suitable for commercial use.

With the proposed minor revision, KMCC seeks to update representations to mirror the permit amendment incorporated into the New Source Review (NSR) Permit No. 101199 (TCEQ Project No. 358542). In addition, KMCC is making several other ancillary changes and updates as part of this revision as outlined below:

- Incorporation of an alternate case ammonia slip limit on F-101 and F-201, approved on August 29, 2023 via AMOC No. 228 and made effective by the NSR Permit 101199 amendment issued March 26, 2024. The AMOC issued by US EPA Region 6 is included with this Title V minor revision application as Attachment 3.

- Removing references to Permit by Rule (PBR) Registration Numbers 131940, 150007, 157794, and 160950 incorporated into the NSR permit.

- Adding one claimed PBR, details in Form OP-2.

- Updating regulatory applicability for tanks 100-12, 100-13, and 120-22 to MACT WW.

Pursuant to this minor revision, this application includes the following forms:

- OP-1 (Site Information Summary)
- OP-2 (Application for Permit Revision/Renewal)
- OP-CRO1 (Certification by Responsible Official)

- OP-SUMR (Individual Unit Summary for Revisions)
- OP-REQ1 (Pages 87 and 88)
- OP-PBRSUP (Permits By Rule Supplemental Table)
- OP-UA2 (Stationary Reciprocating Internal Combustion Engine Attributes)
- OP-UA3 (Storage Tank/Vessel Attributes)

Should you have any questions regarding this minor revision, please contact me at (832) 690-5623 or via email at Jamie_Donta@KinderMorgan.com.

Sincerely,

Jamie Donta
Senior Air Permitting & Compliance Specialist

Attachments

cc: Air Section Manager, TCEQ Region 12 – Houston
Director, Harris County Pollution Control Services

Attachment 1
Title V Minor Revision Forms

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN: **RN108071325**	CN: **CN603935248**	Account No.: **HG-0262-H**
Permit No.: **O3764**	Project No.:	
Area Name: **Galena Park Splitter Facility**	Company Name: **Kinder Morgan Crude & Condensate LLC**	

II. Certification Type *(Please mark the appropriate box)*

☐ **Responsible Official** ☒ Duly Authorized Representative

III. Submittal Type *(Please mark the appropriate box) (Only one response can be accepted per form)*

☐ SOP/TOP Initial Permit Application ☐ Update to Permit Application

☐ GOP Initial Permit Application ☒ Permit Revision, Renewal, or Reopening

☐ **Other:** _____

IV. Certification of Truth

This certification does not extend to information which is designated by the TCEQ as information for reference only.

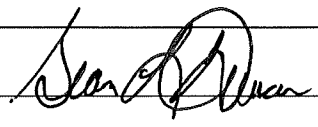
I, **Sean Duncan** certify that I am the **DAR**
(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:

Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From _____ to _____
Start Date *End Date*

Specific Dates: **6/24/2024** _____ _____ _____ _____ _____
Date 1 *Date 2* *Date 3* *Date 4* *Date 5* *Date 6*

Signature:  Signature Date: 06/19/2024

Title: **Manager of Operations**

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) 239-1250or 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: Kinder Morgan Crude & Condensate LLC
B.	Customer Reference Number (CN): **CN** 603935248
C.	Submittal Date *(mm/dd/yyyy):* 6/24/2024
II.	**Site Information**
A.	Site Name: Galena Park Splitter Facility
B.	Regulated Entity Reference Number (RN): **RN** 108071325
C.	Indicate affected state(s) required to review permit application: *(Check the appropriate box[es].)*
☐ AR ☐ CO ☐ KS ☐ LA ☐ NM ☐ OK ☒ N/A	
D.	Indicate all pollutants for which the site is a major source based on the site's potential to emit: *(Check the appropriate box[es].)*
☒ VOC ☐ NO_X ☐ SO_2 ☐ PM_{10} ☐ CO ☐ Pb ☐ HAPS	
Other:	
E.	Is the site a non-major source subject to the Federal Operating Permit Program? ☐ YES ☒ NO
F.	Is the site within a local program area jurisdiction? ☒ YES ☐ NO
G.	Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? ☐ YES ☒ NO
H.	Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:
III.	**Permit Type**
A.	Type of Permit Requested: *(Select only one response)*
☒ Site Operating Permit (SOP) ☐ Temporary Operating Permit (TOP) ☐ 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** *(Complete for Initial Issuance Applications Only.)*	
A.	Is this submittal an abbreviated or a full application?	☐ Abbreviated ☐ Full
B.	If this is a full application, is the submittal a follow-up to an abbreviated application?	☐ YES ☐ NO
C.	If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit?	☐ YES ☐ 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.)	☐ YES ☐ NO
V.	**Confidential Information**	
A.	Is confidential information submitted in conjunction with this application?	☐ YES ☑ NO
VI.	**Responsible Official (RO) Identifying Information**	
RO Name Prefix: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)		
RO Full Name: Danny Morgan, Jr.		
RO Title: Director of Operations		
Employer Name: Kinder Morgan Crude & Condensate LLC		
Mailing Address: 1001 Louisiana St		
City: Houston		
State: Texas		
ZIP Code: 77002		
Territory:		
Country:		
Foreign Postal Code:		
Internal Mail Code:		
Telephone No.: (713) 420-5845		
Fax No.:		
Email: Danny_Morgan@kindermorgan.com		

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

VII. Technical Contact Identifying Information *(Complete if different from RO.)*	
Technical Contact Name Prefix: (☐ Mr. ☒ Mrs. ☐ Ms. ☐ Dr.)	
Technical Contact Full Name:	Jamie Donta
Technical Contact Title:	Senior Air Permitting & Compliance Specialist
Employer Name:	Kinder Morgan Crude & Condensate LLC
Mailing Address:	407 Clinton Drive
City:	Galena Park
State:	Texas
ZIP Code:	77547
Territory:	
Country:	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.:	(832) 690-5623
Fax No.:	
Email:	Jamie_Donta@kindermorgan.com

VIII. Reference Only Requirements *(For reference only.)*		
A.	State Senator:	Carol Alvarado
B.	State Representative:	Ana Hernandez
C.	Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)?	☒ YES ☐ NO ☐ N/A
D.	Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?	☒ YES ☐ 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** *(Optional for applicants requesting to hold the FOP and records at an off-site location.)*
A.	Office/Facility Name:
B.	Physical Address:
City:	
State:	
ZIP Code:	
Territory:	
Country:	
Foreign Postal Code:	
C.	Physical Location:
D.	Contact Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)
Contact Full Name:	
E.	Telephone No.:
X.	**Application Area Information**
A.	Area Name: Galena Park Splitter Facility
B.	Physical Address: 407 Clinton Drive
City:	Galena Park
State:	Texas
ZIP Code:	77547
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' 58"
H.	Longitude (nearest second): 95° 13' 13"
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? ☐ YES ☒ NO
J.	Indicate the estimated number of emission units in the application area: 27
K.	Are there any emission units in the application area subject to the Acid Rain Program? ☐ YES ☒ NO
XI.	**Public Notice** *(Complete this section for SOP Applications and Acid Rain Permit Applications only.)*
A.	Name of a public place to view application and draft permit: Galena Park Library
B.	Physical Address: 1500 Keene St.
City: Galena Park	
ZIP Code: 77547	
C.	Contact Person (Someone who will answer questions from the public during the public notice period):
Contact Name Prefix: (☐ Mr. ☒ Mrs. ☐ Ms. ☐ Dr.):	
Contact Person Full Name: Jamie Donta	
Contact Mailing Address: 407 Clinton Drive	
City: Galena Park	
State: Texas	
ZIP Code: 77547	
Territory:	
Country:	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.: 832-690-5623	

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 the TCEQ or the Office of Attorney General on behalf of the 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: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ 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:

Print Form Reset Form

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

Date: 6/24/2024	
Permit No.: O-3764	
Regulated Entity No.: RN108071325	
Company Name: Kinder Morgan Crude & Condensate LLC	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	☒ YES ☐ NO
I. Application Type	
Indicate the type of application:	
☐ Renewal	
☒ 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	☒ YES ☐ NO
For GOP Revisions Only	☐ YES ☒ NO

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

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].)*						
☒ VOC	☐ NO_X	☐ SO_2	☐ PM_{10}	☐ CO	☐ Pb	☐ HAP
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)?					☒ 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: 6/24/2024
Permit No.: O-3764
Regulated Entity No.: RN108071325
Company Name: Kinder Morgan Crude & Condensate LLC

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

Revision No.	Revision Code	New Unit	Unit/Group ID No.	Process Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
1	MS-A	NO	N/A	OP-REQ1	101199, N158	Updating the issuance date to incorporate the newest amendment to the NSR permit.
2	MS-C	NO	EGEN-1	OP-UA2	101199, N158 106.264/09/04/2000	Updating the EGEN-1 OP-UA2 following engine replacement authorized by 30 TAC 106.264.
3	MS-C	NO	100-12 100-13 120-22	OP-UA3	101199, N158	Updating the regulatory applicability of multiple storage tanks that are now subject to MACT WW seal inspection requirements.
4	MS-C	NO	F-101 F-201	N/A	101199, N158	The process heaters at the facility (Unit IDs: F-101 and F-201) are now subject to an alternate case ammonia slip limit as approved in AMOC No. 228. It is requested that the attached AMOC (see Attachment 3) be referenced in regard to these two process heaters.

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

Date: 6/24/2024
Permit No.: O-3764
Regulated Entity No.: RN108071325
Company Name: Kinder Morgan Crude & Condensate LLC

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

Revision No.	Revision Code	New Unit	Unit/Group ID No.	Process Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
5	MS-A	NO	EGEN-1	OP-REQ1 OP-SUMR OP-PBRSUP	101199, N158 106.264/09/04/2000	Permit by Rule (PBR) authorized emergency engine (EGEN-1) replacement. This authorization did not result in any changes to existing applicable requirements.
6	MS-A	NO	FUG 5-0 FUG-LOAD 200-1 200-2 200-3 TK-108 100-14	OP-PBRSUP	101199, N158	Removing references to Permit by Rule (PBR) Registration Numbers 131940, 150007, 157794, and 160950 incorporated into the NSR permit.

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

Date:	06/24/2024
Permit No.:	O-3764
RN No.:	RN108071325

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

Form OP-REQ1: Page 87

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

E. PSD Permits and PSD Major Pollutants

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

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

NA Permit No.: N158	Issuance Date: 03/26/2024	Pollutant(s): VOC
NA Permit No.:	Issuance Date:	Pollutant(s):
NA Permit No.:	Issuance Date:	Pollutant(s):
NA 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:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:

♦ **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.: 101199	Issuance Date: 03/26/2024	Authorization No.:	Issuance Date:
Authorization No.: AMOC 22	Issuance Date: 08/29/2023	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

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

Date:	06/24/2024
Permit No.:	O-3764
RN No.:	RN108071325

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

Form OP-REQ1: Page 88	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
♦ **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.: 106.183	Version No./Date: 09/04/2000
PBR No.: 106.261	Version No./Date: 11/01/2003
PBR No.: 106.262	Version No./Date: 11/01/2003
PBR No.: 106.263	Version No./Date: 11/01/2001
PBR No.: 106.264	Version No./Date: 09/04/2000
PBR No.: 106.373	Version No./Date: 09/04/2000
PBR No.: 106.454	Version No./Date: 11/01/2001
PBR No.: 106.472	Version No./Date: 09/04/2000
PBR No.: 106.478	Version No./Date: 09/04/2000
PBR No.: 106.511	Version No./Date: 09/04/2000
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
♦ **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:
Permit No.:	Issuance Date:

Reset Form Print Form

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.
6/24/2024	O-3764	RN108071325

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
	2	EGEN-1	OP-UA2	Emergency Generator		101199, 106.264/09/04/2000	N158
	3	100-12	OP-UA3	Tank No. 100-12		101199	N158
	3	100-13	OP-UA3	Tank No. 100-13		101199	N158
	3	120-22	OP-UA3	Tank No. 120-22		101199	N158

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)
Federal Operating Permit Program
Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
6/24/2024	O-3764	RN108071325

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
EGEN-1	63ZZZZ-01	AREA	500+	06+			

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 8)
Federal Operating Permit Program
Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
6/24/2024	O-3764	RN108071325

Unit ID No.	SOP/GOP Index No.	Construction/ Reconstruction/ Modification Date	Test Cell	Exemption	Temp Replacement	Horsepower	Fuel	AEL No.	Lean Burn	Commencing
EGEN-1	60JJJJ-1	YES	NO	NONE	NO	500+E	NATGAS		NO	CON

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 9)
Federal Operating Permit Program
Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
6/24/2024	O-3764	RN108071325

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Displacement	Certified	Operation	Certified Modification	Service	Severe Duty	Optional Compliance
EGEN-1	60JJJJ-1	N0710+E		YES	YES		EMERG		

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.
6/24/2024	O-3764	RN108071325

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.
100-11	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
100-12	60Kb-01	PTLQ-3	40K+	IFR	0.5-	IFR-SL		SLEAVE		
100-13	60Kb-01	PTLQ-3	40K+	IFR	0.75-11.1	IFR-SL		SLEAVE		
100-14	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
100-15	60Kb-01	PTLQ-3	40K+	NONE	11.1+B	IFR-SL				
100-20	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
100-21	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
120-22	60Kb-01	PTLQ-3	40K+	IFR	0.75-11.1	IFR-SL		SLEAVE		
120-23	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
120-24	60Kb-01	PTLQ-3	40K+	NONE	11.1+B	IFR-SL				
120-25	60Kb-01	PTLQ-3	40K+	NONE	11.1+B	IFR-SL				
150-10	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				

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.
6/24/2024	O-3764	RN108071325

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.
200-1	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
200-2	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
200-3	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
5-0	60Kb-01	WASTE	40K+	NONE	0.75-11.1	IFR-SL				
TK-101	60Kb-01	PTLQ-3	10K-	NONE						
TK-102	60Kb-01	VOL	10K-	NONE						
TK-108	60Kb-01	VOL	10K-	NONE						
TK-201	60Kb-01	PTLQ-3	10K-	NONE						
TK-202	60Kb-01	VOL	10K-	NONE						

Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	Registration No.	PBR No.	Registration Date
FUG	136126	106.261	2/5/2016

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date
CHILLER	106.373	9/4/2000
DEGREASER	106.454	11/1/2001
FP ENG	106.511	9/4/2000
MISC-ADH	106.263	11/1/2001
TK-201	106.472	9/4/2000
TK-202	106.472	9/4/2000
100-13	106.478	9/4/2000
100-14	106.478	9/4/2000
200-1	106.478	9/4/2000
200-2	106.478	9/4/2000
200-3	106.478	9/4/2000
FL-101	106.263	11/1/2001
100-12	106.478	9/4/2000
100-21	106.478	9/4/2000
100-20	106.478	9/4/2000
EGEN-1	106.264	9/4/2000

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
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
06/24/2024	O-3764	RN108071325

PBR No.	Version No./Date

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FUG	106.261	136126	Emissions from fugitive component leaks are minimized through the 28LAER Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 101199. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring, and averaging times. "Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer ..." For more detail see NSR Permit No. 101199 (WCC content ID 6354903) Special Condition No. 13. Emissions should be less than 6.00 lb/hr and 10.00 tons per year as determined by 30 TAC §106.261 (a)(2) for n-butane and less than 1.00 lb/hr and 4.38 tons per year as determined by 30 TAC §106.261(a)(3) for isobutane. VOC emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Visible emissions to the atmosphere from fugitive source shall not exceed 5% opacity in any six-minute period using EPA Reference Test Method 22 monthly.

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
CHILLER	106.373	9/4/2000	Refrigerant use is limited to list of chemicals as provided under 30 TAC §106.373(1) or (2). VOC emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3).
DEGREASER	106.454	11/1/2001	Solvent makeup should not exceed 110 gallons per year. The unit shall be equipped with a cover which is closed whenever parts are not being handled in the cleaner. Permanent and conspicuous label summarizing proper operating procedures to minimize emissions shall be posted on or near the degreaser. Waste solvent from degreasing operation shall be stored in covered containers. Porous or absorbent materials, such as cloth, leather, wood, or rope shall not be degreased. Leaks shall be repaired immediately, or the degreaser shall be shut down until repairs are completed. VOC emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Solvent makeup records will be maintained monthly.

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FP ENG	106.511	9/4/2000	Maximum annual operating hours do not exceed 10% normal annual operating schedule. Emissions are based on EPA's AP-42 Chapter 3.3 (October 1996). Operating hour records will be maintained monthly.
MISC-ADH	106.263	11/1/2001	VOC, SO2, and PM emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). NOx and CO emissions should be less than 250 tons per year under 30 TAC §106.4(a)(1) - (3). Records will be maintained for all maintenance, start-up, shut-down activities to meet the requirements specified in 106.263(g). If control device is used to control MSS emissions, comply with applicable control device monitoring requirements under 30 TAC §106.263.
TK-201	106.472	9/4/2000	No visible emissions from hydrocarbon sump loading operation using EPA Reference Test Method 22 during loading operations. VOC emissions from sump loading activities should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Chemicals loaded to the sump are limited to list of chemicals provided under 30 TAC §106.472 (1)-(9). Monthly volume records of material storage will be maintained. Emissions will be based on EPA's AP-42 Chapter 7 (June 2020).
TK-202	106.472	9/4/2000	No visible emissions from hydrocarbon sump loading operation using EPA Reference Test Method 22 during loading operations. VOC emissions from sump loading activities should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Chemicals loaded to the sump are limited to list of chemicals provided under 30 TAC §106.472 (1)-(9). Monthly volume records of material storage will be maintained. Emissions will be based on EPA's AP-42 Chapter 7 (June 2020).

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FL-101	106.263	11/1/2001	Maximum annual operating hours do not exceed 10% normal annual operating schedule. Emissions are based on EPA's AP-42 Chapter 3.3 (October 1996). Operating hour records will be maintained monthly.
100-13, 100-14, 200-1, 200-2, 200-3, 100-12, 100-21, 100-20	106.478	9/4/2000	Chemicals stored in the tanks are limited to list of chemicals provided under 30 TAC 106.478(8). The true vapor pressure of the compound to be stored shall be less than 11.0 psia at the maximum storage temperature. VOC emissions from storage tanks operation should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Emissions will be based on EPA's AP-42 Chapter 7 (June 2020). Throughput records will be maintained monthly.
EGEN-1	106.264	9/4/2000	The emissions from the replacement facility will not exceed 25 tons per year of any air contaminant. Maximum annual operating hours do not exceed 10% normal annual operating schedule. Emissions are based on EPA's AP-42 Chapter 3.2 (August 2000). Operating hour records will be maintained monthly.

Attachment 2

Copy of Current NSR Permit Conditions

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 26, 2024

MR DANNY MORGAN JR
DIRECTOR OF OPERATIONS
KINDER MORGAN CRUDE & CONDENSATE LLC
1001 LOUISIANA ST
HOUSTON TX 77002-5089

Re: Permit Amendment and Renewal
Permit Number: 101199
Expiration Date: March 26, 2034
Kinder Morgan Crude & Condensate LLC
Galena Park Terminal
Galena Park, Harris County
Regulated Entity Number: RN108071325
Customer Reference Number: CN603935248
Associated Permit Number: N158

Dear Mr. Morgan:

Kinder Morgan Crude & Condensate LLC has requested to renew and amend Permit Number 101199. This letter serves as notice that your application for the above-referenced permit is technically complete as of March 14, 2023.

In accordance with Title 30 Texas Administrative Code Section 116.116(b), Permit Number 101199 is hereby amended. Also, in accordance with 30 TAC Section 116.314(a), your permit is hereby renewed. In addition, with this permitting action, Permit by Rule Registration Numbers 131940, 150007, 157794, and 160950 have been voided. This information will be incorporated into the existing permit file.

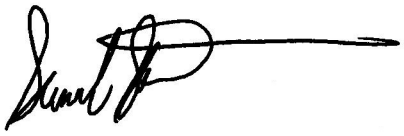
Enclosed are new general conditions, special conditions, and a maximum allowable emission rates table.

This permit will be in effect for ten years from the date this renewal was issued.

If you have any questions, please contact Mr. Marc Sturdivant at (512) 239-1313 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Re: Permit Number: 101199

Sincerely,



Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Director, Harris County, Pollution Control Services, Pasadena
Air Section Manager, Region 12 - Houston
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 358542

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Kinder Morgan Crude & Condensate LLC
Authorizing the Continued Operation of
Galena Park Terminal
Located at **Galena Park, Harris County, Texas**
Latitude 29.735833 Longitude -95.218611

Permits: 101199 and N158

Issuance Date: March 26, 2024

Expiration Date: March 26, 2034

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
$\mu g/m^3$ = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 101199 and N158

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources — Maximum Allowable Emission Rates" (MAERT) and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions.

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) or ammonia at a concentration of greater than 1 percent are not authorized by this permit. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC or ammonia at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions with the exception of those on floating or fixed roof storage tanks.

3. The following requirements apply to capture systems for the heater selective catalytic reduction (SCR) systems, flare.

   A. Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

   B. If there is a bypass for the control device, comply with either of the following requirements:

      (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

      (2) Once a month, inspect the valves, verifying that the position of the valves and the condition of the car seals prevent flow out of the bypass.

      A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

   C. The date and results of each inspection performed shall be recorded. If the results of any inspection are not satisfactory, the deficiencies shall be recorded and the permit holder shall promptly take necessary corrective action, recording each action with the date completed.

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):

   A. Subpart A, General Provisions.

B. Subpart Ja, Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after May 14, 2007.

C. Subpart Kb, Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

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

5. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61:

A. Subpart A, General Provisions.

B. Subpart FF, Benzene Waste Operations.

6. These facilities shall comply with all applicable requirement of the U.S. EPA regulation on National Emission Standards for HAPs for Source Categories in 40 CFR Part 63:

A. Subpart A: General Provisions

B. Subpart WW: Nation Emission Standards for Storage Vessels (Tanks) – Control Level 2.

7. If any condition of this permit is more stringent than the applicable regulations in Special Condition Nos. 4, 5, and 6 then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Heaters and Flare

8. Nitrogen oxides (NO_x), carbon monoxide (CO), and ammonia emissions from each heater (Emission Point Numbers [EPNs] F-101 and F-201) shall not exceed the following rates/concentrations (ppmv is corrected to 3 percent oxygen) except during activities identified in an Alternate Method of Compliance (AMOC No. 228) that was approved by TCEQ APD on August 29, 2023.

Pollutant	Hourly Average	Rolling 12 Month Average
NO_x	0.015 lb/MMBtu	0.008 lb/MMBtu
CO	50 ppmv	n/a
Ammonia	10 ppmv	n/a

9. Combustion units shall be fired with fuel gas containing no more than 9.4 grains of total sulfur per 100 dry standard cubic feet (dscf). Fuel gas shall consist of natural gas and uncondensed off-gas. The natural gas shall be sampled every 6 months to determine total sulfur and net heating value. Test results from the fuel supplier may be used to satisfy this requirement.

10. The permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of SO_2, CO, NO_x, and oxygen from the heaters (EPNs F-101 and F-201).

    A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.

    B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; section 2 applies to all other sources:

        (1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, Section 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.

        (2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

        Each monitor shall be quality-assured at least quarterly using Cylinder Gas Audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2, with the following exception: a relative accuracy test audit (RATA) is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

        All CGA exceedances of ±15 percent accuracy indicate that the CEMS is out of control.

    C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The permit holder shall install and operate a fuel flow meter to measure the gas fuel usage for each heater. The monitored data shall be reduced to an hourly average flow rate at least once every day, using a minimum of four equally-spaced data points from each one-hour period. Each fuel flow monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 5 percent. In lieu of monitoring fuel flow, the permit holder may monitor stack exhaust flow

using the flow monitoring specifications of 40 Code of Federal Regulations (CFR) Part 60, Appendix B, Performance Specification 6 or 40 CFR Part 75, Appendix A.

The individual average concentrations shall be reduced to units of pounds per hour and pounds per million BTU at least once every week as follows:

The measured hourly average concentration from the CEMS shall be multiplied by the exhaust flow rate as measured directly, or determined by monitoring fuel flow, stack oxygen concentration, and the natural gas heating value, to determine the hourly emission rate. The emission rate and fuel gas flow and heating value shall be used to determine the lb NO_x/MMBtu heat input.

D. All monitoring data and quality-assurance data shall be maintained by the permit holder. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.

F. Quality-assured (or valid) data must be generated when the heater is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the heater operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. Options to increase system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Regional Manager.

11. The permit holder shall continuously monitor ammonia emissions from the heater SCR systems (EPNs F-101 and F-201) using one of the following methods:

A. Install and operate two NO_x CEMS, one located upstream of the SCR system and the other located downstream of the SCR system, which are used in association with ammonia injection rate and the following calculation procedure to estimate ammonia slip.

Ammonia slip, ppmvd = ((a – (b x c / 1,000,000)) x 1,000,000 / b) x d

where:

a = ammonia injection rate (lb/hr)/17 (lb/lb-mole);

b = dry exhaust gas flow rate (lb/hr)/29 (lb/lb-mole);

c = change in measured NO_x concentration, ppmvd, across catalyst; and

d = correction factor.

The correction factor shall be derived during compliance testing by comparing the measured and calculated ammonia slip. The ammonia injection rate and exhaust gas flow rate shall be recorded at least every 15 minutes and be recorded as hourly

averages. Each flow monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, or at least annually, whichever is more frequent, and shall be accurate to within 2 percent of span or 5 percent of the design value.

B. Install and operate a dual stream system of NO_x CEMS at the exit of the SCR system. One of the exhaust streams would be routed, in an unconverted state, to one NO_x CEMS and the other exhaust stream would be routed through a NH_3 converter to convert NH_3 to NO_x and then to a second NO_x CEMS. The NH_3 slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted).

C. Install an ammonia CEMS approved by TCEQ.

D. All CEMS specified in this condition must meet the requirements of Special Condition No. 10. Quality-assured (or valid) data must be generated when gas is directed to the SCR system. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time that gas is directed to the SCR system over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

12. Flares shall be designed and operated in accordance with the following requirements:

A. The flare system shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications

C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of air assist to the flare

Leak Detection and Repair

13. Piping, Valves, Pumps, Agitators, and Compressors - Intensive Directed Maintenance — 28LAER

Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:

A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

   The exempted components may be identified by one or more of the following methods:

   (1) piping and instrumentation diagram (PID);

   (2) a written or electronic database or electronic file;

   (3) color coding;

   (4) a form of weatherproof identification; or

   (5) designation of exempted process unit boundaries.

B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance.

Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. In addition, all connectors shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program in accordance with items F thru J of this special condition.

In lieu of the monitoring frequency specified above, connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

The percent of connectors leaking shall be determined using the following formula:

(Cl + Cs) x 100/Ct = Cp

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe to monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all

other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Non accessible valves shall be monitored by leak-checking for fugitive emissions at least annually using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown. A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR Part 60, Appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, than the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

I. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times , test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

J. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS), and does not constitute approval of alternative standards for these regulations.

K. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

L. The percent of valves leaking used in paragraph K shall be determined using the following formula:

(Vl + Vs) x 100/Vt = Vp

Where:

Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe to monitor valves.

Vp = the percentage of leaking valves for the monitoring period.

M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 500 ppmv of VOC. If the component is found to be leaking in excess of 500 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

14. All components in heavy liquid service shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through in the same manner as required for connectors in Special Condition 13.E.

15. Piping, valves, pumps, and compressors in greater than one weight percent ammonia service are subject to the following requirements.

A. Audio, olfactory, and visual checks for ammonia leaks within the operating area shall be made every shift.

B. Immediately, but no later than twelve hours upon detection of a leak, plant personnel shall take the following actions:

(1) Isolate the leak.

(2) Commence repair or replacement of the leaking component.

(3) Use a leak collection/containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks.

Tanks

16. Tanks are authorized to store the liquids identified below with the maximum tank fill/drain rates.

Tank ID	Tank Type	Service	Maximum fill/drain rate (bbl/hr)
200-1 200-2 200-3	Internal floating roof	Condensate	15,000
150-10 100-11 100-12 100-20 100-21 120-22 120-23	Internal floating roof	Distillates	10,000
100-13	Internal floating roof	Distillates	10,000
100-14	Internal floating roof	Condensate and Light Naphtha	10,000
100-15 120-24 120-25	Internal floating roof	Light Naphtha and Heavy Naphtha	10,000
PV-410 PV-411	Pressurized	Y-grade product	n/a
5-0	Internal floating roof	Wastewater	5,000
TK-101	Underground Sump	Wastewater Sump	2
TK-102	Underground Sump	Stormwater Sump	190
TK-108	Fixed Roof Tank	Material Storage	1.2

"Distillates" may include Atmospheric Residuum ("Resid"), Kerosene, Diesel fuel and other heavy fuel oils.

17. Atmospheric storage tanks are subject to the following requirements:

A. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes.

B. Each tank shall be designed to completely drain its entire contents to a sump in a manner that leaves no more than 9 gallons of free-standing liquid in the tank sump.

C. Tanks with design capacity greater than 19,800 gallons storing liquids with VOC vapor pressures greater than 0.10 psia shall meet the following requirements.

(1) An internal floating deck or "roof" or equivalent control shall be installed in all tanks. The floating roof shall be equipped with two continuous seals mounted one above the other between the wall of the storage vessel and the edge of the internal floating roof:

(2) As an alternative to complying with the requirements of 40 CFR 60 Subpart Kb sections 60.112b through 60.117b, the facility has the option to comply with Part 63 Subpart WW by performing the visual inspections and any seal gap measurements in accordance with Title 40 Code of Federal Regulations § 63.1063 (40 CFR § 63.1063) floating roof requirements to verify fitting and seal integrity. Records shall be maintained of the dates the inspection was performed, any measurements made (including raw data), results of the inspections, and actions taken to correct any deficiencies notes.

(3) The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998 except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials. The floating roof shall be welded (not bolted).

(4) The concentration of organic vapor in the vapor space above the internal floating roof shall not exceed 30 percent of its lower explosive limit (LEL). The permit holder shall visually inspect the rim seal system and roof openings and use an explosimeter to measure the LEL on a semiannual basis. Records shall be maintained of the dates the inspections and measurements were made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

(5) Tanks shall be constructed or equipped with a connection to a vapor recovery system that routes vapors from the vapor space under the landed roof (roof not floating on liquid) to a control device.

D. For tanks with design capacity greater than 19,800 gallons storing liquids with VOC vapor pressures greater than 0.10 psia, an internal floating deck of welded design shall be installed.

E. The following requirements apply to storage tanks receiving or storing materials at above ambient temperature:

(1) The permit holder shall reduce the temperature and/or vapor pressure of the stored material as needed to maintain a vapor pressure of less than 11.0 psia at actual storage conditions in each storage tank.

(2) For products stored in bolted deck storage tanks (EPNs 150-10, 100-11, 100-12, 100-21, 120-22 and 120-23), the permit holder shall reduce the temperature and/or vapor pressure of the stored material as needed to maintain a vapor pressure of less than 0.50 psia at actual storage conditions.

(3) For all tanks storing compounds requiring temperature and/or vapor pressure monitoring per items (1)–(2) of this special condition, the following sampling, monitoring and recordkeeping requirements apply:

(1) The liquid surface temperature shall be measured and recorded on a daily basis. The temperature measurement device shall be calibrated on an annual basis. As an alternative, for permanent, welded-in-place temperature measurement devices, a portable temperature measuring device may be used biannually for verifying measurements of each permanent device. The portable device shall be accurate to and shall be calibrated at a frequency in accordance with the manufacturer's specifications. Measurements using a portable device shall conform to American Petroleum Institute Manual of Petroleum Measurement Standards Chapter 7 Section 2 (API 7.2) recommendations for calibration verification.

(2) No later than 90 days following the start of operation, the permit holder shall undertake sampling to determine the vapor pressure-temperature relationship for each product subject to temperature and/or vapor pressure monitoring per items (1)–(2) of this special condition.

Vapor pressure-temperature relationship shall be determined by ASTM D2879 (1997 or later revision). An alternate ASTM standard may be used if the permit holder determines the alternate standard to be more appropriate. Additional sampling methods can be approved by the TCEQ Regional Director.

Records of vapor pressure-temperature relationship sampling shall include an indication of the method employed for analysis, and the correlation equation developed.

(3) The permit holder shall repeat the sampling procedure required in (b) on a quarterly basis.

(4) Compliance with items (1)–(2) of this special condition shall be determined from temperature monitoring data using the most recent vapor pressure-temperature relationship, with the following exceptions:

i. Prior to 90 days following the start of operations, vapor pressure may be estimated from process knowledge.

ii. If changes in product specifications affecting the vapor pressure properties of the liquid have occurred since the most recent sampling event, a suitable vapor pressure-temperature relationship having been determined within the past two years can be used.

(4) If measured temperature and/or vapor pressure indicate an excursion above the maximum vapor requirements of items (1)–(2) of this special condition, the permit holder may take up to 72 hours to lower the product temperature such that the liquid vapor pressure is below the permissible level. The method used to lower the product temperature shall be documented.

18. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures. EPA Tanks 4.09 average monthly temperatures may be used for determining the monthly emissions from unheated tanks which receive liquids that are at or below ambient temperatures.

Emissions for tanks shall be calculated using the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. More specifically, refer to Section 4.1.3 of the amendment application for emission calculation methodology for tank emissions as well as Table A-3 and pages 8 - 25 of 25 of Appendix A for detailed tank calculation reports.

19. Construction of additional volatile organic liquid storage tanks can be authorized only through the mechanisms detailed in this special condition.

A. Construction permit or permit amendment.

B. Permit by Rule (PBR), provided that:

(1) New storage tanks comply with the design and operational requirements of Special Condition 17; and

(2) New floating roof storage tanks are designed to be drain dry, and designed with connections to control vapors under a landed roof.

20. Reserved.

Stack Sampling

21. Sampling ports and platform(s) shall be incorporated into the design of the heaters (EPNs F-101 and F-201) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

22. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the heaters (EPNs F-101 and F-201) to demonstrate compliance with the MAERT and with Special Condition 8. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

    Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60) testing which must have EPA approval shall be submitted to the TCEQ Regional Director.

    A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:

        (1) Proposed date for pretest meeting.

        (2) Date sampling will occur.

        (3) Name of firm conducting sampling.

        (4) Type of sampling equipment to be used.

        (5) Method or procedure to be used in sampling.

        (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.

        (7) Procedure/parameters to be used to determine worst case emissions during the sampling period.

        The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for the test reports. The TCEQ Regional Director must approve any deviation from specified sampling procedures.

    B. Air contaminants emitted from the heaters to be tested for include (but are not limited to) CO, NO_x, PM (condensable and filterable), and ammonia.

        Compliance with limits on VOC emissions from heaters F-101 and F-201 shall be assured by performance of a single initial sampling event in accordance with the protocol provided in EPA Method 18.

C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities and at such other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.

D. The heater being sampled shall operate at the maximum firing rate during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled “Chapter 14, Contents of Sampling Reports” of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office.

One copy to each local air pollution control program.

Offsets

23. Reserved.

24. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H.

A. The permit holder shall use 60.8 tons per year (tpy) of VOC emission credits (ECs) from TCEQ credit certificate numbers 3083 and 3085 to offset the 46.77 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.3 to 1.0.

(1) Naphtha Stabilizer Hot Oil Heater Train I (EPN: F-101) — 6.6 tpy

(2) Naphtha Stabilizer Hot Oil Heater Train II (EPN: F-102) — 6.6 tpy

(3) Flare No. 101 (EPN: FL-101) — 2.3 tpy

(4) Tank No. 200-1 (EPN: 200-1) — 2.5 tpy

(5) Tank No. 200-2 (EPN: 200-2) — 2.5 tpy

(6) Tank No. 200-3 (EPN: 200-3) — 2.5 tpy

(7) Tank No. 100-20 (EPN: 100-20) — 0.3 tpy

(8) Tank No. 150-10 (EPN: 150-10) — 0.4 tpy

(9) Tank No. 120-24 (EPN: 120-24) — 6.12 tpy

(10) Tank No. 100-21 (EPN: 100-21) — 0.3 tpy

(11) Tank No. 100-11 (EPN: 100-11) — 0.3 tpy

(12) Tank No. 100-14 (EPN: 100-14) — 1.0 tpy

(13) Tank No. 5-0 (EPN: 5-0) — 3.0 tpy

(14) Tank No. 120-22 (EPN: 120-22) — 0.4 tpy

(15) Tank No. 100-12 (EPN: 100-12) — 0.3 tpy

(16) Tank No. 120-25 (EPN: 120-25) — 6.12 tpy

(17) Tank No. 100-13 (EPN: 100-13) — 0.4 tpy

(18) Tank No. 120-23 (EPN: 120-23) — 0.4 tpy

(19) Tank No. 100-15 (EPN: 100-15) — 2.1 tpy

(20) Process Fugitive Components (EPN: FUG) — 11.0 tpy

(21) Emergency Generator (EPN: EGEN-1) — 0.3 tpy

(22) MSS Activities (EPN: MSS) — 4.65 tpy

(23) TK-101 — 0.4 tpy

(24) TK-102 — 0.3 tpy

B. The permit holder shall use 22.4 tpy of NOx ECs to offset the 17.22 tpy NOx project emission increase for the facilities authorized by this permit at a ratio of 1.3 to 1.0.

The permit holder shall use 0.6 tpy of NOx ECs to offset the 0.4 tpy NOx project emission increase for Emergency Engine (EPN EGEN-1) authorized by this permit at a ratio of 1.3 to 1.0.

Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number.

C. The Permit holder shall use 0.9 tpy of NOx ECs from TCEQ credit certificate numbers 3091 to offset the 0.69 tpy NOx project emission increase for Flare No. 101 (EPN FL 101) authorized by this permit at a ratio of 1.3 to 1.0.

D. In addition to, or in place of, using ECs as described in Special Condition Number 24(B), the permit holder may use up to 13.49 tpy of Mass Emission Cap and Trade (MECT) allowances to offset the 13.49 tpy NOx project emission increase for the following MECT facilities authorized by this permit at a ratio of 1.0 to 1.0 :

(1) Naphtha Stabilizer Hot Oil Heater Train I (EPN: F-101) – 5.62 tpy

(2) Naphtha Stabilizer Hot Oil Heater Train II (EPN: F-201) – 5.62 tpy

(3) MSS Emissions from sources subject to MECT (EPN: MSS) – 2.24 tpy

To satisfy the 0.3 portion of the 1.3:1 offset requirement for the project's increase of NOx emissions from facilities subject to the MECT program, the permit holder shall permanently transfer to the TCEQ 4.05 tpy of MECT allowances prior to the start of operation of the following facilities.

(4) Naphtha Stabilizer Hot Oil Train I (EPN: F-101) – 1.7 tpy

(5) Naphtha Stabilizer Hot Oil Train II (EPN: F-201) – 1.7 tpy

(6) MSS Emissions from sources subject to MECT (EPN: MSS) – 0.65 tpy

The offset requirement associated with paragraph D(6) is adjusted to ensure that the total offset requirement in paragraph D (4), (5), and (6) equals 4.1 tpy NO_x.

Maintenance, Startup, and Shutdown

25. This permit authorizes emissions from the following temporary facilities used to support the planned MSS activities identified in Special Condition 26 at permanent site facilities: frac tanks, vacuum trucks, portable control devices identified in Special Condition 35, and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities authorized by this permit, and (c) does not operate as a replacement for an existing authorized facility.

26. This permit authorizes the emissions from the facilities authorized by this permit for the planned maintenance, startup, and shutdown (MSS) activities summarized in the table below.

Facility	Activity	EPN
Process Line	Shutdown, depressurize, and degas to flare. Vent to atmosphere.	MSS
Heater	Heater startup.	F-101, F-201
Storage Tanks	Drain, degas, and open tank.	MSS
Storage Tanks	Refill empty tank with landed roof.	MSS
Vessels and Piping	Empty and degas to control.	MSS
Piping	Degas to atmosphere.	MSS
Piping	Drain liquid.	MSS
Air movers and vacuum trucks	Remove liquid from storage tanks, piping, and other facilities for planned maintenance.	MSS

Facility	Activity	EPN
Frac tanks	Store liquid from tanks, piping, and other facilities undergoing planned MSS.	MSS
Minor facilities: pumps, valves, piping, filters, etc. with an isolated volume of less than 85 cubic feet	Isolate, drain, degas to atmosphere, and refill to support planned maintenance.	MSS

Maintenance activities associated with minor facilities: pumps, valves, piping, filters, etc. with an isolated volume of less than 85 cubic feet in the table above may be tracked through work orders or equivalent. Emissions from these activities identified shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of and emissions associated with each planned MSS activity performed on the facilities identified as storage tanks, air movers, vacuum trucks, and frac tanks shall be documented in accordance with the applicable Special Condition(s).

The performance of each planned MSS activity associated with pressurized tanks and the facility identified as vessels and piping in the table above and the emissions associated with it shall be recorded and include at least the following information:

A. the process equipment at which emissions from the MSS activity occurred, including the emission point number and common name of the process equipment;

B. the type of planned MSS activity and the reason for the planned activity;

C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;

D. the date and time of the MSS activity and its duration;

E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly, and the rolling 12-month emissions shall be updated on a monthly basis. All MSS Emission shall be calculated using the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. More specifically, refer to Section 4.2.1, 4.2.2, and 4.2.4 of the amendment application for the emission calculation methodology for MSS emissions as well as Tables B-2, B-5, and B-6 of Appendix B.

27. Permanent facilities, with the exception of atmospheric storage tanks, shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.

A. Process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.

B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than 0.50 psi at either the normal process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the equipment is no longer vented to atmosphere.

C. All liquids from process equipment must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be transferred into a storage tank authorized by this permit or a vessel meeting the requirements of Special Condition 33 unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.

D. If the VOC partial pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. More specifically, refer to Section 4.2.2 and 4.2.4 of the amendment application for the emission calculation methodology for MSS emissions as well as Tables B-5 and B-6 of Appendix B.

(1) For MSS activities that may be tracked through work orders, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 5 percent of the lower explosive

limit (LEL) per documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures).

(2) The locations and/or identifiers where the purge gas or steam enters the process equipment and the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition 28. The sampling point shall be upstream of the inlet to the control device or controlled recovery system to determine whether VOC concentrations are acceptable for uncontrolled venting. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. If there is not a connection (such as a sample, vent, or drain valve) available from which a representative sample may be obtained, a sample may be taken upon entry into the system after degassing has been completed. The sample shall be taken from inside the vessel so as to minimize any air or dilution from the entry point. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 5,000 ppmv or 5 percent of the LEL, with the exception of the pressurized storage tanks which must be degassed to control until the VOC concentration is 2,000 ppmv or 2 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

28. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate (RF) shall be recorded.

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to

continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

(1) The air contaminant concentration measured as defined in (3) is less than 80 percent of the range of the tube and is at least 20 percent of the maximum range of the tube.

(2) The tube is used in accordance with the manufacturer's guidelines.

(3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

5,000*mole fraction of the total air contaminants present that can be detected by the tube.

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. Lower explosive limit measured with a lower explosive limit detector (5000 ppmv standard). If a LEL detector is used to verify compliance with this standard rather than a Method 21 instrument, it must read a LEL of 5 percent or lower.

(1) The detector shall be calibrated monthly with an appropriate certified gas standard at 10 percent of the lower explosive limit (LEL) for the appropriate gas. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.

(2) A daily functionality test shall be performed on each detector using the same type of certified gas standard. The LEL monitor shall read no lower than 90 percent of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

(3) A certified methane gas standard equivalent to 10 percent of the LEL for the appropriate gas may be used for calibration and functionality tests provided that the LEL response is within 95 percent of that for the appropriate gas.

(4) Definitions

(1) An appropriate gas is one which when used for calibration of the detector, ensures that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored is less than 1.2.

(2) The same type of certified gas standard is a standard consisting of the same gas as used for calibration, certified to be 10 percent of the LEL for that gas.

D. Lower explosive limit measured with a lower explosive limit detector (2 percent LEL standard). If a LEL detector is used to verify compliance with this standard rather than a Method 21 instrument, it must read a LEL of 1 percent or lower.

(1) The detector shall be calibrated monthly with an appropriate certified gas standard with a concentration between 2 and 3 percent of the lower explosive limit (LEL) for the appropriate gas. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.

(2) A daily functionality test shall be performed on each detector using the same type of certified gas standard. The LEL monitor shall read no lower than 90% of the calibration gas certified value in ppmv. Records, including the date/time and test results, shall be maintained.

(3) A certified methane gas standard equivalent to 2 to 3 percent of the LEL for the appropriate gas may be used for calibration and functionality tests provided that the concentration response is within 95 percent of that for the appropriate gas.

(4) Definitions

(1) An appropriate gas is one which when used for calibration of the detector, ensures that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored is less than 1.2.

(2) The same type of certified gas standard is a standard consisting of the same gas as used for calibration, certified to be the same concentration (between 2 and 3 percent of the LEL for that gas).

29. This permit authorizes MSS emissions (EPN MSS) from internal floating roof storage tanks during planned floating roof landings. Tank roof landings include all operations when the tank floating roof is on its supporting legs. The following requirements apply to tank roof landings.

A. If the tank is to be completely drained, the tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank and tank sump have been drained to the maximum extent practicable without the use of a sump stripping pump or entering the tank. The sump shall be emptied within 4 hours unless the vapor space is routed to control.

B. If the VOC vapor pressure of the liquid being drained from the tank is greater than 0.50 psia, a vapor recovery system shall be connected to the vapor space under the landed tank roof and the vapor space vented to a control device meeting the requirements of Special Condition 35. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. The vapor space shall be vented

to the control device during the period from the floating roof is landed until the tank has been degassed per part D of this condition or the tank has been filled so that the landed roof is floating on liquid. The vapor recovery system collection rate shall always be greater than 100 cubic feet per minute when the tank is idle and two times the fill rate when the tank is being refilled. There shall be no other gas/vapor flow out of the vapor space under the floating roof when the vapor space is directed to the control device. This shall be demonstrated as follows:

(1) The concentration of organic vapor in the vapor space above the internal floating roof shall be sampled and verified not to exceed 30 percent of its LEL.

(2) This sampling shall be performed annually on a tank being filled and on an idle tank, or as requested by the TCEQ Regional Office. The sampling shall be performed in the morning if the tank is idle or being filled, as applicable, during that period.

(3) The vapor collection recovery system shall be maintained at the minimum vapor collection system pressure set point required prior to and during sampling.

(4) The tank sampled, sampling results, flow rates, date and time shall be recorded. Sampling may be waived if a tank roof is not landed in a calendar year.

C. Tank roofs shall not be landed for more than 72 hours unless the tank has been completely drained and degassing commenced per part D of this condition.

D. If necessary, tanks shall be degassed as follows:

(1) If the tank had not been emptied, degassed, and entered within the last 24 months, the permit holder shall open at least one entry into the tank to perform a visual inspection of the tank floor and sump to confirm that there is no standing liquid present and the drain dry tank is operating as designed. This inspection shall be performed during controlled degassing, if applicable. If any standing liquid is noted, it must be removed prior to uncontrolled tank degassing.

(2) If the VOC vapor pressure of the liquid stored in the tank is greater than 0.10 psia, the gas or vapor removed from the vapor space under the floating roof must be routed to a control device through a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 5,000 ppmv or 5 percent of the LEL as measured per Special Condition 28. Degassing shall continue until the VOC concentration is less than 2,000 ppmv or 2 percent of the LEL if the tank will be opened or ventilated without control as allowed by part E of this condition. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device.

(3) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.

(4) The vent stream before the control device shall be sampled to determine whether VOC concentrations are acceptable for uncontrolled venting. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition 28.

(5) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

E. The tank may be opened without restriction and ventilated without control after all standing liquid has been removed from the tank and the vapor space VOC concentration is less than 2000 ppmv or 2 percent of the LEL or the liquid previously stored in the tank had a VOC vapor pressure less than or equal to 0.10 psia. A tank shall not be ventilated without control more than once in any rolling 12 month period and only one tank shall be ventilated without control at any time.

F. The following requirements apply to filling tanks with landed roofs until the roof is off its legs (floating on the liquid).

(1) The vapor space under the landed floating roof shall be vented to control per part B of this condition prior to commencing the filling of an empty tank unless the tank is being filled with liquid with a VOC vapor pressure less than 0.50 psia and the tank has verified dry by visual inspection of the tank floor and sump.

(2) Tanks shall be refilled as rapidly as practicable.

G. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:

(1) Identification of the tank and emission point number, liquid stored, and any control devices or recovery systems used to reduce emissions;

(2) reason for the tank roof landing;

(3) date, time, and the other information specified below for each of the following events:

(1) the roof was initially landed,

(2) volume in the tank when liquid withdrawal stopped or when the tank and sump were fully drained,

(3) vapor space volume under the floating roof vented to control device and ventilation flow rate to the control device,

(4) start and completion of controlled degassing, total volumetric flow, results of any tank inspection of the tank for liquid and any corrective actions taken, VOC concentration sampling results;

(5) all standing liquid was removed from the tank,

(6) tank refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and

(7) tank roof off supporting legs and floating on liquid;

(4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted while the roof was landed with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated June 2020. More specifically, the roof landing activities emissions shall use the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. Refer to Section 4.2.3 of the amendment application for the emission calculation methodology for roof landing emissions as well as Tables B-3 and B-4 of Appendix B.

30. Reserved.

31. All permanent facilities must comply with all operating requirements, limits, and representations this permit during planned startup and shutdown unless alternate requirements and limits are identified in this permit. Alternate requirements for NO_x and CO emissions from the heaters during planned startup and shutdown (burners alone, no SCR) are 0.065 lb/MMBtu and 400 ppmv corrected to 3 percent oxygen, respectively, if the startup period does not exceed 72 hours in duration per year per heater.

32. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:

A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document the VOC partial pressure. After each liquid transfer, identify the liquid, the volume transferred, and its VOC partial pressure.

B. The vacuum/blower exhaust shall be routed to a control device and the fill line intake equipped with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.

(1) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.

(2) If the vacuum truck exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition 28.A or B.

D. Record the volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.

E. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods outlined in the TCEQ’s *Air Permit Technical Guidance for Chemical Sources, Loading Operations, October 2000.* More specifically, the vacuum and air mover truck emissions shall use the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. Refer to Section 4.2.5 of the amendment application for emission calculation methodology for vacuum and air mover truck emissions as well as Tables B-7 and B-8 of Appendix B. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12-month vacuum truck emissions shall also be determined on a monthly basis.

33. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.

A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled, sampled, gauged, or when removing material.

B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom. The tank vapor space shall be vented to a control device meeting the requirements of Special Condition 35.

C. These requirements do not apply to vessels storing less than 450 gallons of liquid that are closed such that the vessel does not vent to atmosphere except when filling, sampling, gauging, or when removing material.

D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. This record must be updated by the last day of the month following. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and

VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources — Storage Tanks."

34. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity. Total VOC planned MSS emissions associated with the facilities authorized by this permit shall not exceed the quantity shown in the MAERT for EPN MSS.

35. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device. Storage tank emissions shall be controlled by a VCU or thermal oxidizer meeting the requirements of part B of this condition.

    Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

    A. Carbon Adsorption System (CAS).

        (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.

        (2) The CAS shall be sampled downstream of the first canister and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:

            (1) It may be extended to up to 30 percent of the minimum potential saturation time for a new canister of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.

            (2) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

(3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 28.A or B.

(4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.

(5) Records of CAS monitoring shall include the following:

(1) Sample time and date.

(2) Monitoring results (ppmv).

(3) Canister replacement log.

(6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Thermal Oxidizer/Vapor Combustor.

(1) If controlling storage tank emissions, the thermal oxidizer/vapor combustion unit shall provide no less than 99.8 percent DRE control of the waste gas directed to it, or allow a VOC exit stream concentration of no greater than 10 ppmv, dry corrected to 3 percent oxygen. This shall be demonstrated per by having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating to Approved Test Methods) at every 5 years and maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the oxidizer/combustor.

(2) If controlling MSS emissions from facilities other than atmospheric storage tanks, the thermal oxidizer/vapor combustion unit shall provide no less than 99.5 percent DRE control of the waste gas directed to it, or allow a VOC exit stream concentration of no greater than 10 ppmv, dry corrected to 3 percent oxygen. This may be demonstrated by:

(1) maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than 1400°F with waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer/combustor; or

(2) having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating

to Approved Test Methods) every 5 years and maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the oxidizer/combustor.

The thermal oxidizer/vapor combustor exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer/combustor. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ±0.75 percent of the temperature being measured expressed in degrees Fahrenheit or ±4.5ºF.

C. Internal Combustion Engine.

(1) The internal combustion engine shall have a VOC destruction efficiency of at least 99.5 percent.

(2) The engine must have been stack tested with butane or propane to confirm the required destruction efficiency within the period specified in item (3) below. VOC shall be measured in accordance with the applicable United States Environmental Protection Agency (EPA) Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack test report shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance that may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of Special Condition 28.A are also acceptable for this documentation.

(3) The engine shall be operated and monitored as specified below.

(1) If the engine is operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller, documentation for each AFR controller that the manufacturer's or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation. The engine must have been stack tested within the past 12 months in accordance with item (2) of this condition.

The test period may be extended to 24 months if the engine exhaust is sampled once an hour when waste gas is directed to the engine using a detector meeting the requirements of Special Condition 28.A. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the engine. The concentrations shall be recorded and the MSS activity shall be stopped as soon as possible if the VOC concentration exceeds 100 ppmv above background.

(2) If an oxygen sensor-based AFR controller is not used, the engine exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the engine. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the engine. The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 28.A. An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be stopped as soon as possible if the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded. The engine must have been stack tested within the past 24 months in accordance with part (2) of this condition.

D. The flare (EPN FL-101) shall be used to control the emissions from process train shutdowns. After the process train has been depressurized to the flare, the permit holder shall install and operate continuous flow monitors that provide a record of the exhaust vent stream and natural gas flows to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow shall be recorded each hour. The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be ±5.0%, temperature monitor shall be ±2.0% at absolute temperature, and pressure monitor shall be ±5.0 mm Hg. The exhaust vent gas from the process shall be assumed to have no net heating value so that the natural gas flow shall provide for sufficient heating value at the flare tip.

36. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit.

Authorization	Source or Activity
PBR No. 136126	Authorizes fugitive emissions associated with storage and truck loading of butanes. (FUG-BUS)
30 TAC § 106.478	Authorizes storage of "rerun" material (combination of petroleum products) for existing storage tanks 100-13 and 100-14. Authorizes storage of petroleum mixture for existing storage tanks 200-1, 200-2, and 200-3. (EPNs 100-13, 100-14, 200-1, 200-2, 200-3)

Date: March 26, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 101199 and N158

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
F-101	Naphtha Stabilizer Hot Oil Heater Train I	CO	9.13	—
		CO (6)	73.07	—
		NO_x	3.71	—
		NO_x (6)	16.06	—
		VOC	1.33	—
		SO_2	6.55	—
		PM	1.11	—
		PM_{10}	1.11	—
		$PM_{2.5}$	1.11	—
		NH_3	1.11	—
		NH_3 (6)	1.66	
F-201	Naphtha Stabilizer Hot Oil Heater Train II	CO	9.13	—
		CO (6)	73.07	—
		NO_x	3.71	—
		NO_x (6)	16.06	—
		VOC	1.33	—
		SO_2	6.55	—
		PM	1.11	—
		PM_{10}	1.11	—
		$PM_{2.5}$	1.11	—

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		NH_3	1.11	—
		NH_3 (6)	1.66	
F-101 F-201	Heater Annual Emission Cap (7)	CO	—	73.84
		NO_x	—	16.00
		VOC	—	10.19
		SO_2	—	18.89
		PM	—	8.51
		PM_{10}	—	8.51
		$PM_{2.5}$	—	8.51
		NH_3	—	8.63
FL-101	Flare No. 101	CO	17.32	12.98
		NO_x	4.35	3.26
		VOC	25.89	1.75
		SO_2	0.36	0.24
		H_2S	<0.01	<0.01
200-1	Tank No. 200-1	VOC	1.65	1.32
200-2	Tank No. 200-2	VOC	2.13	2.57
200-3	Tank No. 200-3	VOC	1.68	1.40
100-20	Tank No. 100-20	VOC	0.81	0.23
150-10	Tank No. 150-10	VOC	0.68	0.27
120-24	Tank No. 120-24	VOC	1.00	0.92

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
100-21	Tank No. 100-21	VOC	0.81	0.22
100-11	Tank No. 100-11	VOC	0.81	0.23
100-14	Tank No. 100-14	VOC	1.57	0.55
5-0	Tank No. 5-0	VOC	1.14	0.60
120-22	Tank No. 120-22	VOC	0.70	0.36
100-12	Tank No. 100-12	VOC	0.81	0.22
120-25	Tank No. 120-25	VOC	0.99	0.89
100-13	Tank No. 100-13	VOC	0.67	0.32
120-23	Tank No. 120-23	VOC	0.70	0.36
100-15	Tank No. 100-15	VOC	0.97	1.01
TK-101	Wastewater Sump	VOC	1.16	0.37
TK-102	Storm Water Sump	VOC	21.98	0.25
TK-108	Tank No. TK-108	VOC	0.02	0.01
FUG	Process Fugitive Components (5)	VOC	2.0	8.78
		NH_3	0.04	0.19
EGEN-1	Emergency Generator	CO	4.60	0.34
		NO_x	6.13	0.46
		VOC	3.06	0.23
		SO_2	0.01	<0.01
		PM	0.19	0.01
		PM_{10}	0.19	0.01
		$PM_{2.5}$	0.19	0.01
MSS	MSS Activities	VOC	327.20	3.44
		NO_x	42.92	1.16

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		CO	110.50	1.98
		SO_2	15.01	0.01
		PM	6.92	0.15
		PM_{10}	6.92	0.15
		$PM_{2.5}$	6.92	0.15
FUG-LOAD	Material (solids) Drop Point	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3)

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH_3 - ammonia

(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) Rates apply to planned startup periods as specified in Special Condition 26.
(7) Heater annual emission cap includes annual MSS emissions for heaters.

Date: March 26, 2024

Attachment 3
Copy of AMOC No. 228

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 29, 2023

MR DANNY MORGAN, JR
DIRECTOR OF OPERATIONS
KINDER MORGAN CRUDE & CONDENSATE LLC
1001 LOUISIANA ST
HOUSTON TX 77002-5089

Re: Alternative Method of Compliance (AMOC) No. 228
Galena Park Splitter
Alternative Ammonia Specification
Regulated Entity Number: RN108071325
Customer Reference Number: CN603935248
Associated Permit Numbers: 101199, N158, and O3764

Dear Mr. Morgan:

This correspondence is in response to Kinder Morgan Crude & Condensate LLC's (KMCC's) June 9, 2023 request for an alternative ammonia (NH_3) emission specification for two identical furnaces (EPNs F-101 and F-201) at the Galena Park Splitter as allowed under 30 TAC §117.325.
.
We understand that the furnaces identified as EPNs F-101 and F-201 use Selective Catalytic Reduction (SCR) for NOx control. The SCR catalysts operate to control NOx best at steady-state conditions. During the operations described below, the flue gas temperature rapidly changes and falls below the minimum flue gas temperature needed for the NH_3-NOx reaction to effectively occur. The company has requested NH_3 to be limited to 15 ppmv during the following activities up to a total of 150 hours/year for each furnace:

- *Hot standby* is when operating at less than or equal to 50% firing rate (123.5 MMBtu/hr) and no hydrocarbon feed is being charged;
- *Feed in* begins when hydrocarbon feed is introduced to the furnace and ends when furnace reaches 70% of maximum firing rate (173 MMBtu/hr);
- *Feed out* begins when furnace drops below 70% of maximum firing rate (173 MMBtu/hr) and ends when hydrocarbon feed is isolated from the furnace;
- *Start-up* is the period beginning when fuel is introduced to the furnace and ending when the SCR catalyst bed reaches its stable operating temperature;
- *Shutdown* is the period beginning when the SCR catalyst bed first drops below its stable operating temperature and ending when fuel is removed from the furnace; and
- *Transition periods* occur as the time to reach steady state operations after one of the above modes of operation.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. This alternative NH_3 limits during the above-specified activities is effective upon approval of Permit Amendment Project No. 358542.

The TCEQ has been delegated authority to enforce the above cited standards and is authorized to approve this AMOC. You are reminded that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC. By copy of this letter, we are informing the Environmental Protection Agency, Region 6, of this decision as required by TCEQ's delegation of authority.

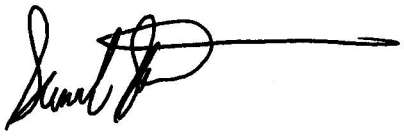
Re: Permit Numbers: 101199, N158, and O3764

This AMOC approval must be incorporated by reference in Permit Nos. 101199 and N158 during the pending Amendment review.

This approval may also change applicable requirements for the site, which are identified in the site operating permit (SOP) O3764. The TCEQ recommends the submittal of a SOP administrative revision if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 239-1276 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

cc: Director, Harris County, Pollution Control Services, Pasadena
Air Section Manager, Region 12 - Houston
Jesse E. Chacon, P.E., Manager, Operating Permits Section, Air Permits Division, OA: MC-163
Kristyn Campbell, Manager, Energy New Source Review Permits Section, Air Permits Division, OA: MC-163
Marc Sturdivant, Energy New Source Review Permits Section, Air Permits Division, OA: MC-163
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 358808

June 24, 2024 *Electronic Submittal*

Air Permits Initial Review Team (APIRT)
Texas Commission on Environmental Quality (TCEQ)
12100 Park 35 Circle, MC-161
Building C, Third Floor, Room 300 W
Austin, Texas 78753

RE: Title V Minor Revision Application
Kinder Morgan Crude & Condensate LLC
Galena Park, Harris County
Regulated Entity Number: RN108071325
Customer Reference Number: CN603935248
Title V Permit No. O-3764

Dear TCEQ APIRT:

Kinder Morgan Crude & Condensate LLC (KMCC) hereby submits the following Title V minor revision request in accordance with Title 30, Texas Administrative Code (30 TAC) § 122.215 for the Crude Condensate Splitter Facility (Splitter)'s Title V Permit Number O-3764. The Condensate Splitter is located in Galena Park, Harris County, Texas and consists of two trains which each process hydrocarbon condensates utilizing conventional distillation technology to obtain products suitable for commercial use.

With the proposed minor revision, KMCC seeks to update representations to mirror the permit amendment incorporated into the New Source Review (NSR) Permit No. 101199 (TCEQ Project No. 358542). In addition, KMCC is making several other ancillary changes and updates as part of this revision as outlined below:

- Incorporation of an alternate case ammonia slip limit on F-101 and F-201, approved on August 29, 2023 via AMOC No. 228 and made effective by the NSR Permit 101199 amendment issued March 26, 2024. The AMOC issued by US EPA Region 6 is included with this Title V minor revision application as Attachment 3.

- Removing references to Permit by Rule (PBR) Registration Numbers 131940, 150007, 157794, and 160950 incorporated into the NSR permit.

- Adding one claimed PBR, details in Form OP-2.

- Updating regulatory applicability for tanks 100-12, 100-13, and 120-22 to MACT WW.

Pursuant to this minor revision, this application includes the following forms:

- OP-1 (Site Information Summary)
- OP-2 (Application for Permit Revision/Renewal)
- OP-CRO1 (Certification by Responsible Official)

- OP-SUMR (Individual Unit Summary for Revisions)
- OP-REQ1 (Pages 87 and 88)
- OP-PBRSUP (Permits By Rule Supplemental Table)
- OP-UA2 (Stationary Reciprocating Internal Combustion Engine Attributes)
- OP-UA3 (Storage Tank/Vessel Attributes)

Should you have any questions regarding this minor revision, please contact me at (832) 690-5623 or via email at Jamie_Donta@KinderMorgan.com.

Sincerely,

Jamie Donta
Senior Air Permitting & Compliance Specialist

Attachments

cc: Air Section Manager, TCEQ Region 12 – Houston
Director, Harris County Pollution Control Services

Attachment 1
Title V Minor Revision Forms

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN: **RN108071325**	CN: **CN603935248**	Account No.: **HG-0262-H**
Permit No.: **O3764**	Project No.:	
Area Name: **Galena Park Splitter Facility**	Company Name: **Kinder Morgan Crude & Condensate LLC**	

II. Certification Type *(Please mark the appropriate box)*

☐ **Responsible Official** ☒ Duly Authorized Representative

III. Submittal Type *(Please mark the appropriate box) (Only one response can be accepted per form)*

☐ SOP/TOP Initial Permit Application ☐ Update to Permit Application

☐ GOP Initial Permit Application ☒ Permit Revision, Renewal, or Reopening

☐ **Other:** _____

IV. Certification of Truth

This certification does not extend to information which is designated by the TCEQ as information for reference only.

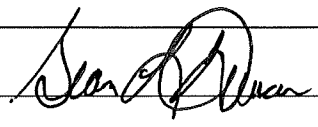
I, **Sean Duncan** certify that I am the **DAR**
(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:

Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From _____ to _____
Start Date *End Date*

Specific Dates: **6/24/2024** _____ _____ _____ _____ _____
Date 1 *Date 2* *Date 3* *Date 4* *Date 5* *Date 6*

Signature:  Signature Date: 06/19/2024

Title: **Manager of Operations**

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) 239-1250or 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: Kinder Morgan Crude & Condensate LLC
B.	Customer Reference Number (CN): **CN** 603935248
C.	Submittal Date *(mm/dd/yyyy):* 6/24/2024
II.	**Site Information**
A.	Site Name: Galena Park Splitter Facility
B.	Regulated Entity Reference Number (RN): **RN** 108071325
C.	Indicate affected state(s) required to review permit application: *(Check the appropriate box[es].)*
☐ AR ☐ CO ☐ KS ☐ LA ☐ NM ☐ OK ☒ N/A	
D.	Indicate all pollutants for which the site is a major source based on the site's potential to emit: *(Check the appropriate box[es].)*
☒ VOC ☐ NO_X ☐ SO_2 ☐ PM_{10} ☐ CO ☐ Pb ☐ HAPS	
Other:	
E.	Is the site a non-major source subject to the Federal Operating Permit Program? ☐ YES ☒ NO
F.	Is the site within a local program area jurisdiction? ☒ YES ☐ NO
G.	Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? ☐ YES ☒ NO
H.	Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:
III.	**Permit Type**
A.	Type of Permit Requested: *(Select only one response)*
☒ Site Operating Permit (SOP) ☐ Temporary Operating Permit (TOP) ☐ 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** *(Complete for Initial Issuance Applications Only.)*	
A.	Is this submittal an abbreviated or a full application?	☐ Abbreviated ☐ Full
B.	If this is a full application, is the submittal a follow-up to an abbreviated application?	☐ YES ☐ NO
C.	If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit?	☐ YES ☐ 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.)	☐ YES ☐ NO
V.	**Confidential Information**	
A.	Is confidential information submitted in conjunction with this application?	☐ YES ☑ NO
VI.	**Responsible Official (RO) Identifying Information**	
RO Name Prefix: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)		
RO Full Name: Danny Morgan, Jr.		
RO Title: Director of Operations		
Employer Name: Kinder Morgan Crude & Condensate LLC		
Mailing Address: 1001 Louisiana St		
City: Houston		
State: Texas		
ZIP Code: 77002		
Territory:		
Country:		
Foreign Postal Code:		
Internal Mail Code:		
Telephone No.: (713) 420-5845		
Fax No.:		
Email: Danny_Morgan@kindermorgan.com		

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

VII. Technical Contact Identifying Information *(Complete if different from RO.)*	
Technical Contact Name Prefix: (☐ Mr. ☒ Mrs. ☐ Ms. ☐ Dr.)	
Technical Contact Full Name:	Jamie Donta
Technical Contact Title:	Senior Air Permitting & Compliance Specialist
Employer Name:	Kinder Morgan Crude & Condensate LLC
Mailing Address:	407 Clinton Drive
City:	Galena Park
State:	Texas
ZIP Code:	77547
Territory:	
Country:	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.:	(832) 690-5623
Fax No.:	
Email:	Jamie_Donta@kindermorgan.com

VIII. Reference Only Requirements *(For reference only.)*		
A.	State Senator:	Carol Alvarado
B.	State Representative:	Ana Hernandez
C.	Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)?	☒ YES ☐ NO ☐ N/A
D.	Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?	☒ YES ☐ 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** *(Optional for applicants requesting to hold the FOP and records at an off-site location.)*
A.	Office/Facility Name:
B.	Physical Address:
City:	
State:	
ZIP Code:	
Territory:	
Country:	
Foreign Postal Code:	
C.	Physical Location:
D.	Contact Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)
Contact Full Name:	
E.	Telephone No.:
X.	**Application Area Information**
A.	Area Name: Galena Park Splitter Facility
B.	Physical Address: 407 Clinton Drive
City:	Galena Park
State:	Texas
ZIP Code:	77547
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' 58"
H.	Longitude (nearest second): 95° 13' 13"
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? ☐ YES ☒ NO
J.	Indicate the estimated number of emission units in the application area: 27
K.	Are there any emission units in the application area subject to the Acid Rain Program? ☐ YES ☒ NO
XI.	**Public Notice** *(Complete this section for SOP Applications and Acid Rain Permit Applications only.)*
A.	Name of a public place to view application and draft permit: Galena Park Library
B.	Physical Address: 1500 Keene St.
City: Galena Park	
ZIP Code: 77547	
C.	Contact Person (Someone who will answer questions from the public during the public notice period):
Contact Name Prefix: (☐ Mr. ☒ Mrs. ☐ Ms. ☐ Dr.):	
Contact Person Full Name: Jamie Donta	
Contact Mailing Address: 407 Clinton Drive	
City: Galena Park	
State: Texas	
ZIP Code: 77547	
Territory:	
Country:	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.: 832-690-5623	

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 the TCEQ or the Office of Attorney General on behalf of the 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: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ 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:

Print Form Reset Form

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

Date: 6/24/2024	
Permit No.: O-3764	
Regulated Entity No.: RN108071325	
Company Name: Kinder Morgan Crude & Condensate LLC	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	☒ YES ☐ NO
I. Application Type	
Indicate the type of application:	
☐ Renewal	
☒ 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	☒ YES ☐ NO
For GOP Revisions Only	☐ YES ☒ NO

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

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].)*						
☒ VOC	☐ NO_X	☐ SO_2	☐ PM_{10}	☐ CO	☐ Pb	☐ HAP
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)?					☒ 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: 6/24/2024
Permit No.: O-3764
Regulated Entity No.: RN108071325
Company Name: Kinder Morgan Crude & Condensate LLC

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

Revision No.	Revision Code	New Unit	Unit/Group ID No.	Process Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
1	MS-A	NO	N/A	OP-REQ1	101199, N158	Updating the issuance date to incorporate the newest amendment to the NSR permit.
2	MS-C	NO	EGEN-1	OP-UA2	101199, N158 106.264/09/04/2000	Updating the EGEN-1 OP-UA2 following engine replacement authorized by 30 TAC 106.264.
3	MS-C	NO	100-12 100-13 120-22	OP-UA3	101199, N158	Updating the regulatory applicability of multiple storage tanks that are now subject to MACT WW seal inspection requirements.
4	MS-C	NO	F-101 F-201	N/A	101199, N158	The process heaters at the facility (Unit IDs: F-101 and F-201) are now subject to an alternate case ammonia slip limit as approved in AMOC No. 228. It is requested that the attached AMOC (see Attachment 3) be referenced in regard to these two process heaters.

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

Date: 6/24/2024
Permit No.: O-3764
Regulated Entity No.: RN108071325
Company Name: Kinder Morgan Crude & Condensate LLC

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

Revision No.	Revision Code	New Unit	Unit/Group ID No.	Process Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
5	MS-A	NO	EGEN-1	OP-REQ1 OP-SUMR OP-PBRSUP	101199, N158 106.264/09/04/2000	Permit by Rule (PBR) authorized emergency engine (EGEN-1) replacement. This authorization did not result in any changes to existing applicable requirements.
6	MS-A	NO	FUG 5-0 FUG-LOAD 200-1 200-2 200-3 TK-108 100-14	OP-PBRSUP	101199, N158	Removing references to Permit by Rule (PBR) Registration Numbers 131940, 150007, 157794, and 160950 incorporated into the NSR permit.

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

Date:	06/24/2024
Permit No.:	O-3764
RN No.:	RN108071325

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

Form OP-REQ1: Page 87

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

E. PSD Permits and PSD Major Pollutants

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

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

NA Permit No.: N158	Issuance Date: 03/26/2024	Pollutant(s): VOC
NA Permit No.:	Issuance Date:	Pollutant(s):
NA Permit No.:	Issuance Date:	Pollutant(s):
NA 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:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:

♦ **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.: 101199	Issuance Date: 03/26/2024	Authorization No.:	Issuance Date:
Authorization No.: AMOC 22	Issuance Date: 08/29/2023	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

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

Date:	06/24/2024
Permit No.:	O-3764
RN No.:	RN108071325

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

Form OP-REQ1: Page 88	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
♦ **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.: 106.183	Version No./Date: 09/04/2000
PBR No.: 106.261	Version No./Date: 11/01/2003
PBR No.: 106.262	Version No./Date: 11/01/2003
PBR No.: 106.263	Version No./Date: 11/01/2001
PBR No.: 106.264	Version No./Date: 09/04/2000
PBR No.: 106.373	Version No./Date: 09/04/2000
PBR No.: 106.454	Version No./Date: 11/01/2001
PBR No.: 106.472	Version No./Date: 09/04/2000
PBR No.: 106.478	Version No./Date: 09/04/2000
PBR No.: 106.511	Version No./Date: 09/04/2000
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
♦ **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:
Permit No.:	Issuance Date:

Reset Form Print Form

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.
6/24/2024	O-3764	RN108071325

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
	2	EGEN-1	OP-UA2	Emergency Generator		101199, 106.264/09/04/2000	N158
	3	100-12	OP-UA3	Tank No. 100-12		101199	N158
	3	100-13	OP-UA3	Tank No. 100-13		101199	N158
	3	120-22	OP-UA3	Tank No. 120-22		101199	N158

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)
Federal Operating Permit Program
Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
6/24/2024	O-3764	RN108071325

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
EGEN-1	63ZZZZ-01	AREA	500+	06+			

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 8)
Federal Operating Permit Program
Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
6/24/2024	O-3764	RN108071325

Unit ID No.	SOP/GOP Index No.	Construction/ Reconstruction/ Modification Date	Test Cell	Exemption	Temp Replacement	Horsepower	Fuel	AEL No.	Lean Burn	Commencing
EGEN-1	60JJJJ-1	YES	NO	NONE	NO	500+E	NATGAS		NO	CON

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 9)
Federal Operating Permit Program
Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
6/24/2024	O-3764	RN108071325

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Displacement	Certified	Operation	Certified Modification	Service	Severe Duty	Optional Compliance
EGEN-1	60JJJJ-1	N0710+E		YES	YES		EMERG		

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.
6/24/2024	O-3764	RN108071325

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.
100-11	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
100-12	60Kb-01	PTLQ-3	40K+	IFR	0.5-	IFR-SL		SLEAVE		
100-13	60Kb-01	PTLQ-3	40K+	IFR	0.75-11.1	IFR-SL		SLEAVE		
100-14	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
100-15	60Kb-01	PTLQ-3	40K+	NONE	11.1+B	IFR-SL				
100-20	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
100-21	60Kb-01	PTLQ-3	40K+	NONE	0.75-11.1	IFR-SL				
120-22	60Kb-01	PTLQ-3	40K+	IFR	0.75-11.1	IFR-SL		SLEAVE		
120-23	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				
120-24	60Kb-01	PTLQ-3	40K+	NONE	11.1+B	IFR-SL				
120-25	60Kb-01	PTLQ-3	40K+	NONE	11.1+B	IFR-SL				
150-10	60Kb-01	PTLQ-3	40K+	NONE	0.5-	IFR-SL				

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.
6/24/2024	O-3764	RN108071325

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.
200-1	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
200-2	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
200-3	60Kb-01	PTCD-AF3	40K+	NONE	0.75-11.1	IFR-SL				
5-0	60Kb-01	WASTE	40K+	NONE	0.75-11.1	IFR-SL				
TK-101	60Kb-01	PTLQ-3	10K-	NONE						
TK-102	60Kb-01	VOL	10K-	NONE						
TK-108	60Kb-01	VOL	10K-	NONE						
TK-201	60Kb-01	PTLQ-3	10K-	NONE						
TK-202	60Kb-01	VOL	10K-	NONE						

Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	Registration No.	PBR No.	Registration Date
FUG	136126	106.261	2/5/2016

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date
CHILLER	106.373	9/4/2000
DEGREASER	106.454	11/1/2001
FP ENG	106.511	9/4/2000
MISC-ADH	106.263	11/1/2001
TK-201	106.472	9/4/2000
TK-202	106.472	9/4/2000
100-13	106.478	9/4/2000
100-14	106.478	9/4/2000
200-1	106.478	9/4/2000
200-2	106.478	9/4/2000
200-3	106.478	9/4/2000
FL-101	106.263	11/1/2001
100-12	106.478	9/4/2000
100-21	106.478	9/4/2000
100-20	106.478	9/4/2000
EGEN-1	106.264	9/4/2000

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
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
06/24/2024	O-3764	RN108071325

PBR No.	Version No./Date

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FUG	106.261	136126	Emissions from fugitive component leaks are minimized through the 28LAER Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 101199. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring, and averaging times. "Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer ..." For more detail see NSR Permit No. 101199 (WCC content ID 6354903) Special Condition No. 13. Emissions should be less than 6.00 lb/hr and 10.00 tons per year as determined by 30 TAC §106.261 (a)(2) for n-butane and less than 1.00 lb/hr and 4.38 tons per year as determined by 30 TAC §106.261(a)(3) for isobutane. VOC emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Visible emissions to the atmosphere from fugitive source shall not exceed 5% opacity in any six-minute period using EPA Reference Test Method 22 monthly.

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
CHILLER	106.373	9/4/2000	Refrigerant use is limited to list of chemicals as provided under 30 TAC §106.373(1) or (2). VOC emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3).
DEGREASER	106.454	11/1/2001	Solvent makeup should not exceed 110 gallons per year. The unit shall be equipped with a cover which is closed whenever parts are not being handled in the cleaner. Permanent and conspicuous label summarizing proper operating procedures to minimize emissions shall be posted on or near the degreaser. Waste solvent from degreasing operation shall be stored in covered containers. Porous or absorbent materials, such as cloth, leather, wood, or rope shall not be degreased. Leaks shall be repaired immediately, or the degreaser shall be shut down until repairs are completed. VOC emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Solvent makeup records will be maintained monthly.

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FP ENG	106.511	9/4/2000	Maximum annual operating hours do not exceed 10% normal annual operating schedule. Emissions are based on EPA's AP-42 Chapter 3.3 (October 1996). Operating hour records will be maintained monthly.
MISC-ADH	106.263	11/1/2001	VOC, SO2, and PM emissions should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). NOx and CO emissions should be less than 250 tons per year under 30 TAC §106.4(a)(1) - (3). Records will be maintained for all maintenance, start-up, shut-down activities to meet the requirements specified in 106.263(g). If control device is used to control MSS emissions, comply with applicable control device monitoring requirements under 30 TAC §106.263.
TK-201	106.472	9/4/2000	No visible emissions from hydrocarbon sump loading operation using EPA Reference Test Method 22 during loading operations. VOC emissions from sump loading activities should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Chemicals loaded to the sump are limited to list of chemicals provided under 30 TAC §106.472 (1)-(9). Monthly volume records of material storage will be maintained. Emissions will be based on EPA's AP-42 Chapter 7 (June 2020).
TK-202	106.472	9/4/2000	No visible emissions from hydrocarbon sump loading operation using EPA Reference Test Method 22 during loading operations. VOC emissions from sump loading activities should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Chemicals loaded to the sump are limited to list of chemicals provided under 30 TAC §106.472 (1)-(9). Monthly volume records of material storage will be maintained. Emissions will be based on EPA's AP-42 Chapter 7 (June 2020).

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

Date	Permit Number	Regulated Entity Number
06/24/2024	**O-3764**	**RN108071325**

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FL-101	106.263	11/1/2001	Maximum annual operating hours do not exceed 10% normal annual operating schedule. Emissions are based on EPA's AP-42 Chapter 3.3 (October 1996). Operating hour records will be maintained monthly.
100-13, 100-14, 200-1, 200-2, 200-3, 100-12, 100-21, 100-20	106.478	9/4/2000	Chemicals stored in the tanks are limited to list of chemicals provided under 30 TAC 106.478(8). The true vapor pressure of the compound to be stored shall be less than 11.0 psia at the maximum storage temperature. VOC emissions from storage tanks operation should be less than 25 tons per year under 30 TAC §106.4(a)(1) - (3). Emissions will be based on EPA's AP-42 Chapter 7 (June 2020). Throughput records will be maintained monthly.
EGEN-1	106.264	9/4/2000	The emissions from the replacement facility will not exceed 25 tons per year of any air contaminant. Maximum annual operating hours do not exceed 10% normal annual operating schedule. Emissions are based on EPA's AP-42 Chapter 3.2 (August 2000). Operating hour records will be maintained monthly.

Attachment 2

Copy of Current NSR Permit Conditions

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 26, 2024

MR DANNY MORGAN JR
DIRECTOR OF OPERATIONS
KINDER MORGAN CRUDE & CONDENSATE LLC
1001 LOUISIANA ST
HOUSTON TX 77002-5089

Re: Permit Amendment and Renewal
Permit Number: 101199
Expiration Date: March 26, 2034
Kinder Morgan Crude & Condensate LLC
Galena Park Terminal
Galena Park, Harris County
Regulated Entity Number: RN108071325
Customer Reference Number: CN603935248
Associated Permit Number: N158

Dear Mr. Morgan:

Kinder Morgan Crude & Condensate LLC has requested to renew and amend Permit Number 101199. This letter serves as notice that your application for the above-referenced permit is technically complete as of March 14, 2023.

In accordance with Title 30 Texas Administrative Code Section 116.116(b), Permit Number 101199 is hereby amended. Also, in accordance with 30 TAC Section 116.314(a), your permit is hereby renewed. In addition, with this permitting action, Permit by Rule Registration Numbers 131940, 150007, 157794, and 160950 have been voided. This information will be incorporated into the existing permit file.

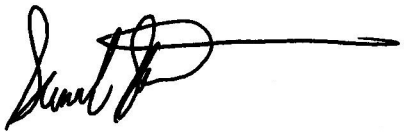
Enclosed are new general conditions, special conditions, and a maximum allowable emission rates table.

This permit will be in effect for ten years from the date this renewal was issued.

If you have any questions, please contact Mr. Marc Sturdivant at (512) 239-1313 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Re: Permit Number: 101199

Sincerely,



Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Director, Harris County, Pollution Control Services, Pasadena
Air Section Manager, Region 12 - Houston
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 358542

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Kinder Morgan Crude & Condensate LLC
Authorizing the Continued Operation of
Galena Park Terminal
Located at **Galena Park, Harris County, Texas**
Latitude 29.735833 Longitude -95.218611

Permits: 101199 and N158

Issuance Date: March 26, 2024

Expiration Date: March 26, 2034

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
$\mu g/m^3$ = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 101199 and N158

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources — Maximum Allowable Emission Rates" (MAERT) and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions.

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) or ammonia at a concentration of greater than 1 percent are not authorized by this permit. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC or ammonia at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions with the exception of those on floating or fixed roof storage tanks.

3. The following requirements apply to capture systems for the heater selective catalytic reduction (SCR) systems, flare.

   A. Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

   B. If there is a bypass for the control device, comply with either of the following requirements:

      (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

      (2) Once a month, inspect the valves, verifying that the position of the valves and the condition of the car seals prevent flow out of the bypass.

      A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

   C. The date and results of each inspection performed shall be recorded. If the results of any inspection are not satisfactory, the deficiencies shall be recorded and the permit holder shall promptly take necessary corrective action, recording each action with the date completed.

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):

   A. Subpart A, General Provisions.

B. Subpart Ja, Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after May 14, 2007.

C. Subpart Kb, Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

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

5. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61:

A. Subpart A, General Provisions.

B. Subpart FF, Benzene Waste Operations.

6. These facilities shall comply with all applicable requirement of the U.S. EPA regulation on National Emission Standards for HAPs for Source Categories in 40 CFR Part 63:

A. Subpart A: General Provisions

B. Subpart WW: Nation Emission Standards for Storage Vessels (Tanks) – Control Level 2.

7. If any condition of this permit is more stringent than the applicable regulations in Special Condition Nos. 4, 5, and 6 then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Heaters and Flare

8. Nitrogen oxides (NO_x), carbon monoxide (CO), and ammonia emissions from each heater (Emission Point Numbers [EPNs] F-101 and F-201) shall not exceed the following rates/concentrations (ppmv is corrected to 3 percent oxygen) except during activities identified in an Alternate Method of Compliance (AMOC No. 228) that was approved by TCEQ APD on August 29, 2023.

Pollutant	Hourly Average	Rolling 12 Month Average
NO_x	0.015 lb/MMBtu	0.008 lb/MMBtu
CO	50 ppmv	n/a
Ammonia	10 ppmv	n/a

9. Combustion units shall be fired with fuel gas containing no more than 9.4 grains of total sulfur per 100 dry standard cubic feet (dscf). Fuel gas shall consist of natural gas and uncondensed off-gas. The natural gas shall be sampled every 6 months to determine total sulfur and net heating value. Test results from the fuel supplier may be used to satisfy this requirement.

10. The permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of SO_2, CO, NO_x, and oxygen from the heaters (EPNs F-101 and F-201).

    A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.

    B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; section 2 applies to all other sources:

        (1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, Section 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.

        (2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

        Each monitor shall be quality-assured at least quarterly using Cylinder Gas Audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2, with the following exception: a relative accuracy test audit (RATA) is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

        All CGA exceedances of ±15 percent accuracy indicate that the CEMS is out of control.

    C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The permit holder shall install and operate a fuel flow meter to measure the gas fuel usage for each heater. The monitored data shall be reduced to an hourly average flow rate at least once every day, using a minimum of four equally-spaced data points from each one-hour period. Each fuel flow monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 5 percent. In lieu of monitoring fuel flow, the permit holder may monitor stack exhaust flow

using the flow monitoring specifications of 40 Code of Federal Regulations (CFR) Part 60, Appendix B, Performance Specification 6 or 40 CFR Part 75, Appendix A.

The individual average concentrations shall be reduced to units of pounds per hour and pounds per million BTU at least once every week as follows:

The measured hourly average concentration from the CEMS shall be multiplied by the exhaust flow rate as measured directly, or determined by monitoring fuel flow, stack oxygen concentration, and the natural gas heating value, to determine the hourly emission rate. The emission rate and fuel gas flow and heating value shall be used to determine the lb NO_x/MMBtu heat input.

D. All monitoring data and quality-assurance data shall be maintained by the permit holder. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.

F. Quality-assured (or valid) data must be generated when the heater is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the heater operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. Options to increase system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Regional Manager.

11. The permit holder shall continuously monitor ammonia emissions from the heater SCR systems (EPNs F-101 and F-201) using one of the following methods:

A. Install and operate two NO_x CEMS, one located upstream of the SCR system and the other located downstream of the SCR system, which are used in association with ammonia injection rate and the following calculation procedure to estimate ammonia slip.

Ammonia slip, ppmvd = ((a – (b x c / 1,000,000)) x 1,000,000 / b) x d

where:

a = ammonia injection rate (lb/hr)/17 (lb/lb-mole);

b = dry exhaust gas flow rate (lb/hr)/29 (lb/lb-mole);

c = change in measured NO_x concentration, ppmvd, across catalyst; and

d = correction factor.

The correction factor shall be derived during compliance testing by comparing the measured and calculated ammonia slip. The ammonia injection rate and exhaust gas flow rate shall be recorded at least every 15 minutes and be recorded as hourly

averages. Each flow monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, or at least annually, whichever is more frequent, and shall be accurate to within 2 percent of span or 5 percent of the design value.

B. Install and operate a dual stream system of NO_x CEMS at the exit of the SCR system. One of the exhaust streams would be routed, in an unconverted state, to one NO_x CEMS and the other exhaust stream would be routed through a NH_3 converter to convert NH_3 to NO_x and then to a second NO_x CEMS. The NH_3 slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted).

C. Install an ammonia CEMS approved by TCEQ.

D. All CEMS specified in this condition must meet the requirements of Special Condition No. 10. Quality-assured (or valid) data must be generated when gas is directed to the SCR system. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time that gas is directed to the SCR system over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

12. Flares shall be designed and operated in accordance with the following requirements:

A. The flare system shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications

C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of air assist to the flare

Leak Detection and Repair

13. Piping, Valves, Pumps, Agitators, and Compressors - Intensive Directed Maintenance — 28LAER

Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:

A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

   The exempted components may be identified by one or more of the following methods:

   (1) piping and instrumentation diagram (PID);

   (2) a written or electronic database or electronic file;

   (3) color coding;

   (4) a form of weatherproof identification; or

   (5) designation of exempted process unit boundaries.

B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance.

Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. In addition, all connectors shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program in accordance with items F thru J of this special condition.

In lieu of the monitoring frequency specified above, connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

The percent of connectors leaking shall be determined using the following formula:

(Cl + Cs) x 100/Ct = Cp

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe to monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all

other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Non accessible valves shall be monitored by leak-checking for fugitive emissions at least annually using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown. A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR Part 60, Appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, than the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

I. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times , test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

J. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS), and does not constitute approval of alternative standards for these regulations.

K. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

L. The percent of valves leaking used in paragraph K shall be determined using the following formula:

(Vl + Vs) x 100/Vt = Vp

Where:

Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe to monitor valves.

Vp = the percentage of leaking valves for the monitoring period.

M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 500 ppmv of VOC. If the component is found to be leaking in excess of 500 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

14. All components in heavy liquid service shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through in the same manner as required for connectors in Special Condition 13.E.

15. Piping, valves, pumps, and compressors in greater than one weight percent ammonia service are subject to the following requirements.

A. Audio, olfactory, and visual checks for ammonia leaks within the operating area shall be made every shift.

B. Immediately, but no later than twelve hours upon detection of a leak, plant personnel shall take the following actions:

(1) Isolate the leak.

(2) Commence repair or replacement of the leaking component.

(3) Use a leak collection/containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks.

Tanks

16. Tanks are authorized to store the liquids identified below with the maximum tank fill/drain rates.

Tank ID	Tank Type	Service	Maximum fill/drain rate (bbl/hr)
200-1 200-2 200-3	Internal floating roof	Condensate	15,000
150-10 100-11 100-12 100-20 100-21 120-22 120-23	Internal floating roof	Distillates	10,000
100-13	Internal floating roof	Distillates	10,000
100-14	Internal floating roof	Condensate and Light Naphtha	10,000
100-15 120-24 120-25	Internal floating roof	Light Naphtha and Heavy Naphtha	10,000
PV-410 PV-411	Pressurized	Y-grade product	n/a
5-0	Internal floating roof	Wastewater	5,000
TK-101	Underground Sump	Wastewater Sump	2
TK-102	Underground Sump	Stormwater Sump	190
TK-108	Fixed Roof Tank	Material Storage	1.2

"Distillates" may include Atmospheric Residuum ("Resid"), Kerosene, Diesel fuel and other heavy fuel oils.

17. Atmospheric storage tanks are subject to the following requirements:

A. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes.

B. Each tank shall be designed to completely drain its entire contents to a sump in a manner that leaves no more than 9 gallons of free-standing liquid in the tank sump.

C. Tanks with design capacity greater than 19,800 gallons storing liquids with VOC vapor pressures greater than 0.10 psia shall meet the following requirements.

(1) An internal floating deck or "roof" or equivalent control shall be installed in all tanks. The floating roof shall be equipped with two continuous seals mounted one above the other between the wall of the storage vessel and the edge of the internal floating roof:

(2) As an alternative to complying with the requirements of 40 CFR 60 Subpart Kb sections 60.112b through 60.117b, the facility has the option to comply with Part 63 Subpart WW by performing the visual inspections and any seal gap measurements in accordance with Title 40 Code of Federal Regulations § 63.1063 (40 CFR § 63.1063) floating roof requirements to verify fitting and seal integrity. Records shall be maintained of the dates the inspection was performed, any measurements made (including raw data), results of the inspections, and actions taken to correct any deficiencies notes.

(3) The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998 except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials. The floating roof shall be welded (not bolted).

(4) The concentration of organic vapor in the vapor space above the internal floating roof shall not exceed 30 percent of its lower explosive limit (LEL). The permit holder shall visually inspect the rim seal system and roof openings and use an explosimeter to measure the LEL on a semiannual basis. Records shall be maintained of the dates the inspections and measurements were made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

(5) Tanks shall be constructed or equipped with a connection to a vapor recovery system that routes vapors from the vapor space under the landed roof (roof not floating on liquid) to a control device.

D. For tanks with design capacity greater than 19,800 gallons storing liquids with VOC vapor pressures greater than 0.10 psia, an internal floating deck of welded design shall be installed.

E. The following requirements apply to storage tanks receiving or storing materials at above ambient temperature:

(1) The permit holder shall reduce the temperature and/or vapor pressure of the stored material as needed to maintain a vapor pressure of less than 11.0 psia at actual storage conditions in each storage tank.

(2) For products stored in bolted deck storage tanks (EPNs 150-10, 100-11, 100-12, 100-21, 120-22 and 120-23), the permit holder shall reduce the temperature and/or vapor pressure of the stored material as needed to maintain a vapor pressure of less than 0.50 psia at actual storage conditions.

(3) For all tanks storing compounds requiring temperature and/or vapor pressure monitoring per items (1)–(2) of this special condition, the following sampling, monitoring and recordkeeping requirements apply:

(1) The liquid surface temperature shall be measured and recorded on a daily basis. The temperature measurement device shall be calibrated on an annual basis. As an alternative, for permanent, welded-in-place temperature measurement devices, a portable temperature measuring device may be used biannually for verifying measurements of each permanent device. The portable device shall be accurate to and shall be calibrated at a frequency in accordance with the manufacturer's specifications. Measurements using a portable device shall conform to American Petroleum Institute Manual of Petroleum Measurement Standards Chapter 7 Section 2 (API 7.2) recommendations for calibration verification.

(2) No later than 90 days following the start of operation, the permit holder shall undertake sampling to determine the vapor pressure-temperature relationship for each product subject to temperature and/or vapor pressure monitoring per items (1)–(2) of this special condition.

Vapor pressure-temperature relationship shall be determined by ASTM D2879 (1997 or later revision). An alternate ASTM standard may be used if the permit holder determines the alternate standard to be more appropriate. Additional sampling methods can be approved by the TCEQ Regional Director.

Records of vapor pressure-temperature relationship sampling shall include an indication of the method employed for analysis, and the correlation equation developed.

(3) The permit holder shall repeat the sampling procedure required in (b) on a quarterly basis.

(4) Compliance with items (1)–(2) of this special condition shall be determined from temperature monitoring data using the most recent vapor pressure-temperature relationship, with the following exceptions:

i. Prior to 90 days following the start of operations, vapor pressure may be estimated from process knowledge.

ii. If changes in product specifications affecting the vapor pressure properties of the liquid have occurred since the most recent sampling event, a suitable vapor pressure-temperature relationship having been determined within the past two years can be used.

(4) If measured temperature and/or vapor pressure indicate an excursion above the maximum vapor requirements of items (1)–(2) of this special condition, the permit holder may take up to 72 hours to lower the product temperature such that the liquid vapor pressure is below the permissible level. The method used to lower the product temperature shall be documented.

18. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures. EPA Tanks 4.09 average monthly temperatures may be used for determining the monthly emissions from unheated tanks which receive liquids that are at or below ambient temperatures.

Emissions for tanks shall be calculated using the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. More specifically, refer to Section 4.1.3 of the amendment application for emission calculation methodology for tank emissions as well as Table A-3 and pages 8 - 25 of 25 of Appendix A for detailed tank calculation reports.

19. Construction of additional volatile organic liquid storage tanks can be authorized only through the mechanisms detailed in this special condition.

A. Construction permit or permit amendment.

B. Permit by Rule (PBR), provided that:

(1) New storage tanks comply with the design and operational requirements of Special Condition 17; and

(2) New floating roof storage tanks are designed to be drain dry, and designed with connections to control vapors under a landed roof.

20. Reserved.

Stack Sampling

21. Sampling ports and platform(s) shall be incorporated into the design of the heaters (EPNs F-101 and F-201) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

22. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the heaters (EPNs F-101 and F-201) to demonstrate compliance with the MAERT and with Special Condition 8. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

    Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60) testing which must have EPA approval shall be submitted to the TCEQ Regional Director.

    A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:

        (1) Proposed date for pretest meeting.

        (2) Date sampling will occur.

        (3) Name of firm conducting sampling.

        (4) Type of sampling equipment to be used.

        (5) Method or procedure to be used in sampling.

        (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.

        (7) Procedure/parameters to be used to determine worst case emissions during the sampling period.

        The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for the test reports. The TCEQ Regional Director must approve any deviation from specified sampling procedures.

    B. Air contaminants emitted from the heaters to be tested for include (but are not limited to) CO, NO_x, PM (condensable and filterable), and ammonia.

        Compliance with limits on VOC emissions from heaters F-101 and F-201 shall be assured by performance of a single initial sampling event in accordance with the protocol provided in EPA Method 18.

C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities and at such other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.

D. The heater being sampled shall operate at the maximum firing rate during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled “Chapter 14, Contents of Sampling Reports” of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office.

One copy to each local air pollution control program.

Offsets

23. Reserved.

24. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H.

A. The permit holder shall use 60.8 tons per year (tpy) of VOC emission credits (ECs) from TCEQ credit certificate numbers 3083 and 3085 to offset the 46.77 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.3 to 1.0.

(1) Naphtha Stabilizer Hot Oil Heater Train I (EPN: F-101) — 6.6 tpy

(2) Naphtha Stabilizer Hot Oil Heater Train II (EPN: F-102) — 6.6 tpy

(3) Flare No. 101 (EPN: FL-101) — 2.3 tpy

(4) Tank No. 200-1 (EPN: 200-1) — 2.5 tpy

(5) Tank No. 200-2 (EPN: 200-2) — 2.5 tpy

(6) Tank No. 200-3 (EPN: 200-3) — 2.5 tpy

(7) Tank No. 100-20 (EPN: 100-20) — 0.3 tpy

(8) Tank No. 150-10 (EPN: 150-10) — 0.4 tpy

(9) Tank No. 120-24 (EPN: 120-24) — 6.12 tpy

(10) Tank No. 100-21 (EPN: 100-21) — 0.3 tpy

(11) Tank No. 100-11 (EPN: 100-11) — 0.3 tpy

(12) Tank No. 100-14 (EPN: 100-14) — 1.0 tpy

(13) Tank No. 5-0 (EPN: 5-0) — 3.0 tpy

(14) Tank No. 120-22 (EPN: 120-22) — 0.4 tpy

(15) Tank No. 100-12 (EPN: 100-12) — 0.3 tpy

(16) Tank No. 120-25 (EPN: 120-25) — 6.12 tpy

(17) Tank No. 100-13 (EPN: 100-13) — 0.4 tpy

(18) Tank No. 120-23 (EPN: 120-23) — 0.4 tpy

(19) Tank No. 100-15 (EPN: 100-15) — 2.1 tpy

(20) Process Fugitive Components (EPN: FUG) — 11.0 tpy

(21) Emergency Generator (EPN: EGEN-1) — 0.3 tpy

(22) MSS Activities (EPN: MSS) — 4.65 tpy

(23) TK-101 — 0.4 tpy

(24) TK-102 — 0.3 tpy

B. The permit holder shall use 22.4 tpy of NOx ECs to offset the 17.22 tpy NOx project emission increase for the facilities authorized by this permit at a ratio of 1.3 to 1.0.

The permit holder shall use 0.6 tpy of NOx ECs to offset the 0.4 tpy NOx project emission increase for Emergency Engine (EPN EGEN-1) authorized by this permit at a ratio of 1.3 to 1.0.

Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number.

C. The Permit holder shall use 0.9 tpy of NOx ECs from TCEQ credit certificate numbers 3091 to offset the 0.69 tpy NOx project emission increase for Flare No. 101 (EPN FL 101) authorized by this permit at a ratio of 1.3 to 1.0.

D. In addition to, or in place of, using ECs as described in Special Condition Number 24(B), the permit holder may use up to 13.49 tpy of Mass Emission Cap and Trade (MECT) allowances to offset the 13.49 tpy NOx project emission increase for the following MECT facilities authorized by this permit at a ratio of 1.0 to 1.0 :

(1) Naphtha Stabilizer Hot Oil Heater Train I (EPN: F-101) – 5.62 tpy

(2) Naphtha Stabilizer Hot Oil Heater Train II (EPN: F-201) – 5.62 tpy

(3) MSS Emissions from sources subject to MECT (EPN: MSS) – 2.24 tpy

To satisfy the 0.3 portion of the 1.3:1 offset requirement for the project's increase of NOx emissions from facilities subject to the MECT program, the permit holder shall permanently transfer to the TCEQ 4.05 tpy of MECT allowances prior to the start of operation of the following facilities.

(4) Naphtha Stabilizer Hot Oil Train I (EPN: F-101) – 1.7 tpy

(5) Naphtha Stabilizer Hot Oil Train II (EPN: F-201) – 1.7 tpy

(6) MSS Emissions from sources subject to MECT (EPN: MSS) – 0.65 tpy

The offset requirement associated with paragraph D(6) is adjusted to ensure that the total offset requirement in paragraph D (4), (5), and (6) equals 4.1 tpy NO_x.

Maintenance, Startup, and Shutdown

25. This permit authorizes emissions from the following temporary facilities used to support the planned MSS activities identified in Special Condition 26 at permanent site facilities: frac tanks, vacuum trucks, portable control devices identified in Special Condition 35, and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities authorized by this permit, and (c) does not operate as a replacement for an existing authorized facility.

26. This permit authorizes the emissions from the facilities authorized by this permit for the planned maintenance, startup, and shutdown (MSS) activities summarized in the table below.

Facility	Activity	EPN
Process Line	Shutdown, depressurize, and degas to flare. Vent to atmosphere.	MSS
Heater	Heater startup.	F-101, F-201
Storage Tanks	Drain, degas, and open tank.	MSS
Storage Tanks	Refill empty tank with landed roof.	MSS
Vessels and Piping	Empty and degas to control.	MSS
Piping	Degas to atmosphere.	MSS
Piping	Drain liquid.	MSS
Air movers and vacuum trucks	Remove liquid from storage tanks, piping, and other facilities for planned maintenance.	MSS

Facility	Activity	EPN
Frac tanks	Store liquid from tanks, piping, and other facilities undergoing planned MSS.	MSS
Minor facilities: pumps, valves, piping, filters, etc. with an isolated volume of less than 85 cubic feet	Isolate, drain, degas to atmosphere, and refill to support planned maintenance.	MSS

Maintenance activities associated with minor facilities: pumps, valves, piping, filters, etc. with an isolated volume of less than 85 cubic feet in the table above may be tracked through work orders or equivalent. Emissions from these activities identified shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of and emissions associated with each planned MSS activity performed on the facilities identified as storage tanks, air movers, vacuum trucks, and frac tanks shall be documented in accordance with the applicable Special Condition(s).

The performance of each planned MSS activity associated with pressurized tanks and the facility identified as vessels and piping in the table above and the emissions associated with it shall be recorded and include at least the following information:

A. the process equipment at which emissions from the MSS activity occurred, including the emission point number and common name of the process equipment;

B. the type of planned MSS activity and the reason for the planned activity;

C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;

D. the date and time of the MSS activity and its duration;

E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly, and the rolling 12-month emissions shall be updated on a monthly basis. All MSS Emission shall be calculated using the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. More specifically, refer to Section 4.2.1, 4.2.2, and 4.2.4 of the amendment application for the emission calculation methodology for MSS emissions as well as Tables B-2, B-5, and B-6 of Appendix B.

27. Permanent facilities, with the exception of atmospheric storage tanks, shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.

A. Process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.

B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than 0.50 psi at either the normal process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the equipment is no longer vented to atmosphere.

C. All liquids from process equipment must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be transferred into a storage tank authorized by this permit or a vessel meeting the requirements of Special Condition 33 unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.

D. If the VOC partial pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. More specifically, refer to Section 4.2.2 and 4.2.4 of the amendment application for the emission calculation methodology for MSS emissions as well as Tables B-5 and B-6 of Appendix B.

(1) For MSS activities that may be tracked through work orders, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 5 percent of the lower explosive

limit (LEL) per documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures).

(2) The locations and/or identifiers where the purge gas or steam enters the process equipment and the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition 28. The sampling point shall be upstream of the inlet to the control device or controlled recovery system to determine whether VOC concentrations are acceptable for uncontrolled venting. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. If there is not a connection (such as a sample, vent, or drain valve) available from which a representative sample may be obtained, a sample may be taken upon entry into the system after degassing has been completed. The sample shall be taken from inside the vessel so as to minimize any air or dilution from the entry point. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 5,000 ppmv or 5 percent of the LEL, with the exception of the pressurized storage tanks which must be degassed to control until the VOC concentration is 2,000 ppmv or 2 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

28. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate (RF) shall be recorded.

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to

continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

(1) The air contaminant concentration measured as defined in (3) is less than 80 percent of the range of the tube and is at least 20 percent of the maximum range of the tube.

(2) The tube is used in accordance with the manufacturer's guidelines.

(3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

5,000*mole fraction of the total air contaminants present that can be detected by the tube.

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. Lower explosive limit measured with a lower explosive limit detector (5000 ppmv standard). If a LEL detector is used to verify compliance with this standard rather than a Method 21 instrument, it must read a LEL of 5 percent or lower.

(1) The detector shall be calibrated monthly with an appropriate certified gas standard at 10 percent of the lower explosive limit (LEL) for the appropriate gas. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.

(2) A daily functionality test shall be performed on each detector using the same type of certified gas standard. The LEL monitor shall read no lower than 90 percent of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

(3) A certified methane gas standard equivalent to 10 percent of the LEL for the appropriate gas may be used for calibration and functionality tests provided that the LEL response is within 95 percent of that for the appropriate gas.

(4) Definitions

(1) An appropriate gas is one which when used for calibration of the detector, ensures that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored is less than 1.2.

(2) The same type of certified gas standard is a standard consisting of the same gas as used for calibration, certified to be 10 percent of the LEL for that gas.

D. Lower explosive limit measured with a lower explosive limit detector (2 percent LEL standard). If a LEL detector is used to verify compliance with this standard rather than a Method 21 instrument, it must read a LEL of 1 percent or lower.

(1) The detector shall be calibrated monthly with an appropriate certified gas standard with a concentration between 2 and 3 percent of the lower explosive limit (LEL) for the appropriate gas. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.

(2) A daily functionality test shall be performed on each detector using the same type of certified gas standard. The LEL monitor shall read no lower than 90% of the calibration gas certified value in ppmv. Records, including the date/time and test results, shall be maintained.

(3) A certified methane gas standard equivalent to 2 to 3 percent of the LEL for the appropriate gas may be used for calibration and functionality tests provided that the concentration response is within 95 percent of that for the appropriate gas.

(4) Definitions

(1) An appropriate gas is one which when used for calibration of the detector, ensures that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored is less than 1.2.

(2) The same type of certified gas standard is a standard consisting of the same gas as used for calibration, certified to be the same concentration (between 2 and 3 percent of the LEL for that gas).

29. This permit authorizes MSS emissions (EPN MSS) from internal floating roof storage tanks during planned floating roof landings. Tank roof landings include all operations when the tank floating roof is on its supporting legs. The following requirements apply to tank roof landings.

A. If the tank is to be completely drained, the tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank and tank sump have been drained to the maximum extent practicable without the use of a sump stripping pump or entering the tank. The sump shall be emptied within 4 hours unless the vapor space is routed to control.

B. If the VOC vapor pressure of the liquid being drained from the tank is greater than 0.50 psia, a vapor recovery system shall be connected to the vapor space under the landed tank roof and the vapor space vented to a control device meeting the requirements of Special Condition 35. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. The vapor space shall be vented

to the control device during the period from the floating roof is landed until the tank has been degassed per part D of this condition or the tank has been filled so that the landed roof is floating on liquid. The vapor recovery system collection rate shall always be greater than 100 cubic feet per minute when the tank is idle and two times the fill rate when the tank is being refilled. There shall be no other gas/vapor flow out of the vapor space under the floating roof when the vapor space is directed to the control device. This shall be demonstrated as follows:

(1) The concentration of organic vapor in the vapor space above the internal floating roof shall be sampled and verified not to exceed 30 percent of its LEL.

(2) This sampling shall be performed annually on a tank being filled and on an idle tank, or as requested by the TCEQ Regional Office. The sampling shall be performed in the morning if the tank is idle or being filled, as applicable, during that period.

(3) The vapor collection recovery system shall be maintained at the minimum vapor collection system pressure set point required prior to and during sampling.

(4) The tank sampled, sampling results, flow rates, date and time shall be recorded. Sampling may be waived if a tank roof is not landed in a calendar year.

C. Tank roofs shall not be landed for more than 72 hours unless the tank has been completely drained and degassing commenced per part D of this condition.

D. If necessary, tanks shall be degassed as follows:

(1) If the tank had not been emptied, degassed, and entered within the last 24 months, the permit holder shall open at least one entry into the tank to perform a visual inspection of the tank floor and sump to confirm that there is no standing liquid present and the drain dry tank is operating as designed. This inspection shall be performed during controlled degassing, if applicable. If any standing liquid is noted, it must be removed prior to uncontrolled tank degassing.

(2) If the VOC vapor pressure of the liquid stored in the tank is greater than 0.10 psia, the gas or vapor removed from the vapor space under the floating roof must be routed to a control device through a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 5,000 ppmv or 5 percent of the LEL as measured per Special Condition 28. Degassing shall continue until the VOC concentration is less than 2,000 ppmv or 2 percent of the LEL if the tank will be opened or ventilated without control as allowed by part E of this condition. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device.

(3) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.

(4) The vent stream before the control device shall be sampled to determine whether VOC concentrations are acceptable for uncontrolled venting. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition 28.

(5) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

E. The tank may be opened without restriction and ventilated without control after all standing liquid has been removed from the tank and the vapor space VOC concentration is less than 2000 ppmv or 2 percent of the LEL or the liquid previously stored in the tank had a VOC vapor pressure less than or equal to 0.10 psia. A tank shall not be ventilated without control more than once in any rolling 12 month period and only one tank shall be ventilated without control at any time.

F. The following requirements apply to filling tanks with landed roofs until the roof is off its legs (floating on the liquid).

(1) The vapor space under the landed floating roof shall be vented to control per part B of this condition prior to commencing the filling of an empty tank unless the tank is being filled with liquid with a VOC vapor pressure less than 0.50 psia and the tank has verified dry by visual inspection of the tank floor and sump.

(2) Tanks shall be refilled as rapidly as practicable.

G. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:

(1) Identification of the tank and emission point number, liquid stored, and any control devices or recovery systems used to reduce emissions;

(2) reason for the tank roof landing;

(3) date, time, and the other information specified below for each of the following events:

(1) the roof was initially landed,

(2) volume in the tank when liquid withdrawal stopped or when the tank and sump were fully drained,

(3) vapor space volume under the floating roof vented to control device and ventilation flow rate to the control device,

(4) start and completion of controlled degassing, total volumetric flow, results of any tank inspection of the tank for liquid and any corrective actions taken, VOC concentration sampling results;

(5) all standing liquid was removed from the tank,

(6) tank refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and

(7) tank roof off supporting legs and floating on liquid;

(4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted while the roof was landed with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated June 2020. More specifically, the roof landing activities emissions shall use the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. Refer to Section 4.2.3 of the amendment application for the emission calculation methodology for roof landing emissions as well as Tables B-3 and B-4 of Appendix B.

30. Reserved.

31. All permanent facilities must comply with all operating requirements, limits, and representations this permit during planned startup and shutdown unless alternate requirements and limits are identified in this permit. Alternate requirements for NO_x and CO emissions from the heaters during planned startup and shutdown (burners alone, no SCR) are 0.065 lb/MMBtu and 400 ppmv corrected to 3 percent oxygen, respectively, if the startup period does not exceed 72 hours in duration per year per heater.

32. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:

A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document the VOC partial pressure. After each liquid transfer, identify the liquid, the volume transferred, and its VOC partial pressure.

B. The vacuum/blower exhaust shall be routed to a control device and the fill line intake equipped with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.

(1) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.

(2) If the vacuum truck exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition 28.A or B.

D. Record the volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.

E. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods outlined in the TCEQ’s *Air Permit Technical Guidance for Chemical Sources, Loading Operations, October 2000.* More specifically, the vacuum and air mover truck emissions shall use the methods used to determine the MAERT limits in the permit amendment application (TCEQ Project No. 272041 issued on March 31, 2020) for the facilities authorized by this permit. Refer to Section 4.2.5 of the amendment application for emission calculation methodology for vacuum and air mover truck emissions as well as Tables B-7 and B-8 of Appendix B. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12-month vacuum truck emissions shall also be determined on a monthly basis.

33. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.

A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled, sampled, gauged, or when removing material.

B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom. The tank vapor space shall be vented to a control device meeting the requirements of Special Condition 35.

C. These requirements do not apply to vessels storing less than 450 gallons of liquid that are closed such that the vessel does not vent to atmosphere except when filling, sampling, gauging, or when removing material.

D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. This record must be updated by the last day of the month following. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and

VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources — Storage Tanks."

34. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity. Total VOC planned MSS emissions associated with the facilities authorized by this permit shall not exceed the quantity shown in the MAERT for EPN MSS.

35. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device. Storage tank emissions shall be controlled by a VCU or thermal oxidizer meeting the requirements of part B of this condition.

    Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

    A. Carbon Adsorption System (CAS).

        (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.

        (2) The CAS shall be sampled downstream of the first canister and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:

            (1) It may be extended to up to 30 percent of the minimum potential saturation time for a new canister of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.

            (2) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

(3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 28.A or B.

(4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.

(5) Records of CAS monitoring shall include the following:

(1) Sample time and date.

(2) Monitoring results (ppmv).

(3) Canister replacement log.

(6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Thermal Oxidizer/Vapor Combustor.

(1) If controlling storage tank emissions, the thermal oxidizer/vapor combustion unit shall provide no less than 99.8 percent DRE control of the waste gas directed to it, or allow a VOC exit stream concentration of no greater than 10 ppmv, dry corrected to 3 percent oxygen. This shall be demonstrated per by having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating to Approved Test Methods) at every 5 years and maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the oxidizer/combustor.

(2) If controlling MSS emissions from facilities other than atmospheric storage tanks, the thermal oxidizer/vapor combustion unit shall provide no less than 99.5 percent DRE control of the waste gas directed to it, or allow a VOC exit stream concentration of no greater than 10 ppmv, dry corrected to 3 percent oxygen. This may be demonstrated by:

(1) maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than 1400°F with waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer/combustor; or

(2) having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating

to Approved Test Methods) every 5 years and maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the oxidizer/combustor.

The thermal oxidizer/vapor combustor exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer/combustor. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ±0.75 percent of the temperature being measured expressed in degrees Fahrenheit or ±4.5ºF.

C. Internal Combustion Engine.

(1) The internal combustion engine shall have a VOC destruction efficiency of at least 99.5 percent.

(2) The engine must have been stack tested with butane or propane to confirm the required destruction efficiency within the period specified in item (3) below. VOC shall be measured in accordance with the applicable United States Environmental Protection Agency (EPA) Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack test report shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance that may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of Special Condition 28.A are also acceptable for this documentation.

(3) The engine shall be operated and monitored as specified below.

(1) If the engine is operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller, documentation for each AFR controller that the manufacturer's or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation. The engine must have been stack tested within the past 12 months in accordance with item (2) of this condition.

The test period may be extended to 24 months if the engine exhaust is sampled once an hour when waste gas is directed to the engine using a detector meeting the requirements of Special Condition 28.A. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the engine. The concentrations shall be recorded and the MSS activity shall be stopped as soon as possible if the VOC concentration exceeds 100 ppmv above background.

(2) If an oxygen sensor-based AFR controller is not used, the engine exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the engine. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the engine. The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 28.A. An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be stopped as soon as possible if the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded. The engine must have been stack tested within the past 24 months in accordance with part (2) of this condition.

D. The flare (EPN FL-101) shall be used to control the emissions from process train shutdowns. After the process train has been depressurized to the flare, the permit holder shall install and operate continuous flow monitors that provide a record of the exhaust vent stream and natural gas flows to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow shall be recorded each hour. The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be ±5.0%, temperature monitor shall be ±2.0% at absolute temperature, and pressure monitor shall be ±5.0 mm Hg. The exhaust vent gas from the process shall be assumed to have no net heating value so that the natural gas flow shall provide for sufficient heating value at the flare tip.

36. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit.

Authorization	Source or Activity
PBR No. 136126	Authorizes fugitive emissions associated with storage and truck loading of butanes. (FUG-BUS)
30 TAC § 106.478	Authorizes storage of "rerun" material (combination of petroleum products) for existing storage tanks 100-13 and 100-14. Authorizes storage of petroleum mixture for existing storage tanks 200-1, 200-2, and 200-3. (EPNs 100-13, 100-14, 200-1, 200-2, 200-3)

Date: March 26, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 101199 and N158

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
F-101	Naphtha Stabilizer Hot Oil Heater Train I	CO	9.13	—
		CO (6)	73.07	—
		NO_x	3.71	—
		NO_x (6)	16.06	—
		VOC	1.33	—
		SO_2	6.55	—
		PM	1.11	—
		PM_{10}	1.11	—
		$PM_{2.5}$	1.11	—
		NH_3	1.11	—
		NH_3 (6)	1.66	
F-201	Naphtha Stabilizer Hot Oil Heater Train II	CO	9.13	—
		CO (6)	73.07	—
		NO_x	3.71	—
		NO_x (6)	16.06	—
		VOC	1.33	—
		SO_2	6.55	—
		PM	1.11	—
		PM_{10}	1.11	—
		$PM_{2.5}$	1.11	—

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		NH_3	1.11	—
		NH_3 (6)	1.66	
F-101 F-201	Heater Annual Emission Cap (7)	CO	—	73.84
		NO_x	—	16.00
		VOC	—	10.19
		SO_2	—	18.89
		PM	—	8.51
		PM_{10}	—	8.51
		$PM_{2.5}$	—	8.51
		NH_3	—	8.63
FL-101	Flare No. 101	CO	17.32	12.98
		NO_x	4.35	3.26
		VOC	25.89	1.75
		SO_2	0.36	0.24
		H_2S	<0.01	<0.01
200-1	Tank No. 200-1	VOC	1.65	1.32
200-2	Tank No. 200-2	VOC	2.13	2.57
200-3	Tank No. 200-3	VOC	1.68	1.40
100-20	Tank No. 100-20	VOC	0.81	0.23
150-10	Tank No. 150-10	VOC	0.68	0.27
120-24	Tank No. 120-24	VOC	1.00	0.92

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
100-21	Tank No. 100-21	VOC	0.81	0.22
100-11	Tank No. 100-11	VOC	0.81	0.23
100-14	Tank No. 100-14	VOC	1.57	0.55
5-0	Tank No. 5-0	VOC	1.14	0.60
120-22	Tank No. 120-22	VOC	0.70	0.36
100-12	Tank No. 100-12	VOC	0.81	0.22
120-25	Tank No. 120-25	VOC	0.99	0.89
100-13	Tank No. 100-13	VOC	0.67	0.32
120-23	Tank No. 120-23	VOC	0.70	0.36
100-15	Tank No. 100-15	VOC	0.97	1.01
TK-101	Wastewater Sump	VOC	1.16	0.37
TK-102	Storm Water Sump	VOC	21.98	0.25
TK-108	Tank No. TK-108	VOC	0.02	0.01
FUG	Process Fugitive Components (5)	VOC	2.0	8.78
		NH_3	0.04	0.19
EGEN-1	Emergency Generator	CO	4.60	0.34
		NO_x	6.13	0.46
		VOC	3.06	0.23
		SO_2	0.01	<0.01
		PM	0.19	0.01
		PM_{10}	0.19	0.01
		$PM_{2.5}$	0.19	0.01
MSS	MSS Activities	VOC	327.20	3.44
		NO_x	42.92	1.16

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		CO	110.50	1.98
		SO_2	15.01	0.01
		PM	6.92	0.15
		PM_{10}	6.92	0.15
		$PM_{2.5}$	6.92	0.15
FUG-LOAD	Material (solids) Drop Point	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3)

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH_3 - ammonia

(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) Rates apply to planned startup periods as specified in Special Condition 26.
(7) Heater annual emission cap includes annual MSS emissions for heaters.

Date: March 26, 2024

Attachment 3
Copy of AMOC No. 228

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 29, 2023

MR DANNY MORGAN, JR
DIRECTOR OF OPERATIONS
KINDER MORGAN CRUDE & CONDENSATE LLC
1001 LOUISIANA ST
HOUSTON TX 77002-5089

Re: Alternative Method of Compliance (AMOC) No. 228
Galena Park Splitter
Alternative Ammonia Specification
Regulated Entity Number: RN108071325
Customer Reference Number: CN603935248
Associated Permit Numbers: 101199, N158, and O3764

Dear Mr. Morgan:

This correspondence is in response to Kinder Morgan Crude & Condensate LLC's (KMCC's) June 9, 2023 request for an alternative ammonia (NH_3) emission specification for two identical furnaces (EPNs F-101 and F-201) at the Galena Park Splitter as allowed under 30 TAC §117.325.
.
We understand that the furnaces identified as EPNs F-101 and F-201 use Selective Catalytic Reduction (SCR) for NOx control. The SCR catalysts operate to control NOx best at steady-state conditions. During the operations described below, the flue gas temperature rapidly changes and falls below the minimum flue gas temperature needed for the NH_3-NOx reaction to effectively occur. The company has requested NH_3 to be limited to 15 ppmv during the following activities up to a total of 150 hours/year for each furnace:

- *Hot standby* is when operating at less than or equal to 50% firing rate (123.5 MMBtu/hr) and no hydrocarbon feed is being charged;
- *Feed in* begins when hydrocarbon feed is introduced to the furnace and ends when furnace reaches 70% of maximum firing rate (173 MMBtu/hr);
- *Feed out* begins when furnace drops below 70% of maximum firing rate (173 MMBtu/hr) and ends when hydrocarbon feed is isolated from the furnace;
- *Start-up* is the period beginning when fuel is introduced to the furnace and ending when the SCR catalyst bed reaches its stable operating temperature;
- *Shutdown* is the period beginning when the SCR catalyst bed first drops below its stable operating temperature and ending when fuel is removed from the furnace; and
- *Transition periods* occur as the time to reach steady state operations after one of the above modes of operation.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. This alternative NH_3 limits during the above-specified activities is effective upon approval of Permit Amendment Project No. 358542.

The TCEQ has been delegated authority to enforce the above cited standards and is authorized to approve this AMOC. You are reminded that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC. By copy of this letter, we are informing the Environmental Protection Agency, Region 6, of this decision as required by TCEQ's delegation of authority.

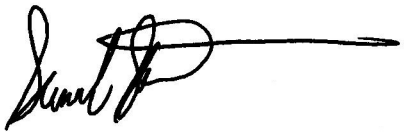
Re: Permit Numbers: 101199, N158, and O3764

This AMOC approval must be incorporated by reference in Permit Nos. 101199 and N158 during the pending Amendment review.

This approval may also change applicable requirements for the site, which are identified in the site operating permit (SOP) O3764. The TCEQ recommends the submittal of a SOP administrative revision if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 239-1276 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

cc: Director, Harris County, Pollution Control Services, Pasadena
Air Section Manager, Region 12 - Houston
Jesse E. Chacon, P.E., Manager, Operating Permits Section, Air Permits Division, OA: MC-163
Kristyn Campbell, Manager, Energy New Source Review Permits Section, Air Permits Division, OA: MC-163
Marc Sturdivant, Energy New Source Review Permits Section, Air Permits Division, OA: MC-163
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 358808

Texas Commission on Environmental Quality

Title V Existing

3764

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	GALENA PARK SPLITTER FACILITY
Does the site have a physical address?	Yes
Physical Address	
Number and Street	407 CLINTON DR
City	GALENA PARK
State	TX
ZIP	77547
County	HARRIS
Latitude (N) (##.######)	29.732777
Longitude (W) (-###.######)	95.220277
Primary SIC Code	4226
Secondary SIC Code	
Primary NAICS Code	324110
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN108071325
What is the name of the Regulated Entity (RE)?	KINDER MORGAN CRUDE & CONDENSATE KMCC SPLITTER FACILITY
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	407 CLINTON DR
City	GALENA PARK
State	TX
ZIP	77547
County	HARRIS
Latitude (N) (##.######)	29.735833
Longitude (W) (-###.######)	-95.218611
Facility NAICS Code	
What is the primary business of this entity?	PRODUCTION OF PETROLEUM PRODUCTS FROM CRUDE CONDEN

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603935248
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Kinder Morgan Crude & Condensate LLC
Texas SOS Filing Number	801408626
Federal Tax ID	
State Franchise Tax ID	32045061218

DUNS Number	38009944
Number of Employees	
Independently Owned and Operated?	Yes

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MR
First	DANNY
Middle	
Last	MORGAN
Suffix	JR
Credentials	
Title	DIRECTOR OF OPERATIONS
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1001 LOUISIANA ST
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77002
Phone (###-###-####)	7134205845
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Danny_Morgan@KinderMorgan.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	New Contact
Organization Name	Kinder Morgan Crude & Condensate LLC
Prefix	MR
First	Sean
Middle	
Last	Duncan
Suffix	
Credentials	
Title	Manager of Operations
Enter new address or copy one from list	Site Physical Address
Mailing Address	
Address Type	Domestic

City	GALENA PARK
State	TX
Zip	77547
Phone (###-###-####)	8326905668
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Sean_Duncan@kindermorgan.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	KINDER MORGAN CRUDE & CONDENSATE LLC
Prefix	MRS
First	Jamie
Middle	
Last	Donta
Suffix	
Credentials	
Title	Senior Air Permitting & Compliance Specialist
Enter new address or copy one from list:	Site Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	407 CLINTON DR
Routing (such as Mail Code, Dept., or Attn:)	
City	GALENA PARK
State	TX
ZIP	77547
Phone (###-###-####)	8326905623
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jamie_donta@kindermorgan.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	29 Deg 43 Min 58 Sec
3) Permit Longitude Coordinate:	95 Deg 13 Min 13 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

4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) 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	2024 Title V_O3764 Minor Revision Application.pdf
Hash	15C792A3B726A4BAF5C30CDEA78E87724BD2EA13DCA46EC724C578BC10550FD9
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	No

Certification

I certify that I am the Duly Authorized Representative 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 Sean L Duncan, the owner of the STEERS account ER104264.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 3764.
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: Sean L Duncan OWNER OPERATOR

Account Number:	ER104264
Signature IP Address:	98.159.8.29
Signature Date:	2024-06-25
Signature Hash:	95278C35143DA5EEA939678C4417CF8C8BCA3067D97513B255EA9B152FA15B38
Form Hash Code at time of Signature:	0AC3FB980A2EC8FD99F124D66F40EA580D5B04E967F861C98B9F40B62B6A478C

Submission

Reference Number:	The application reference number is 662991
Submitted by:	The application was submitted by ER104264/Sean L Duncan
Submitted Timestamp:	The application was submitted on 2024-06-25 at 07:16:36 CDT
Submitted From:	The application was submitted from IP address 98.159.8.29
Confirmation Number:	The confirmation number is 547510
Steers Version:	The STEERS version is 6.77
Permit Number:	The permit number is 3764

Additional Information

Application Creator: This account was created by Jamie M Donta