

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

NuStar Logistics, L.P.

AUTHORIZING THE OPERATION OF

Corpus Christi Terminal  
Petroleum Bulk Stations and Terminals

LOCATED AT

Nueces County, Texas

Latitude 27° 49' 0" Longitude 97° 24' 30"

Regulated Entity Number: RN102317658

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No:   O1238   Issuance Date:   June 15, 2012  

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For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
  - E. Emission units subject to 40 CFR Part 63, Subpart Y as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.300 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(1)(E)
  - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
  - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
    - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
    - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation

on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

- (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
- (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
- (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
- B. Title 40 CFR § 60.8 (relating to Performance Tests)
- C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
- D. Title 40 CFR § 60.12 (relating to Circumvention)
- E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
- F. Title 40 CFR § 60.14 (relating to Modification)
- G. Title 40 CFR § 60.15 (relating to Reconstruction)
- H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
6. For the bulk gasoline terminals specified in 40 CFR Part 63, Subpart R, the permit holder shall comply with 40 CFR § 63.420(a)(2) (Title 30 TAC Chapter 113, Subchapter C, § 113.230 incorporated by reference).
7. For the operations pertaining to the loading and unloading of marine tank vessels specified in 40 CFR Part 63, Subpart Y, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.300 incorporated by reference):
  - A. Title 40 CFR § 63.560(c) (relating to Designation of Affected Source), for applicability of the General Provisions of Subpart A
  - B. Title 40 CFR § 63.563(a)(4) (relating to Compliance and Performance Testing), for vapor tightness requirements of the marine vessels
  - C. Title 40 CFR § 63.564(a)(1) and (d) (relating to Monitoring Requirements)
  - D. Title 40 CFR § 63.565(a) (relating to Test Methods and Procedures), for performance testing requirements
  - E. Title 40 CFR § 63.565(c) (relating to Test Methods and Procedures), for vapor tightness requirements of the marine vessels
  - F. Title 40 CFR § 63.566 (relating to Construction and Reconstruction)
  - G. Title 40 CFR § 63.567(a) - (b) and (h) - (i) (relating to Reporting and Recordkeeping Requirements)
8. For each bulk gasoline terminal specified in 40 CFR Part 63, Subpart BBBBBB, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1370 incorporated by reference):
  - A. Title 40 CFR § 60.502(e) - (f), as required by Title 40 CFR § 63.11088(a)
  - B. Title 40 CFR § 63.11085(a), for operation and maintenance of the affected source
  - C. Title 40 CFR § 63.11089(a), for leak inspections at the facility
  - D. Title 40 CFR § 63.11089(b) and (c), for log book maintenance and recordkeeping
  - E. Title 40 CFR § 63.11089(d), for delay of repair

- F. Title 40 CFR § 63.11092(f) and (f)(1), for annual certification of gasoline cargo tanks
  - G. Title 40 CFR § 63.11093(a), for Initial Notification
  - H. Title 40 CFR § 63.11093(b), for Notification of Compliance Status
  - I. Title 40 CFR § 63.11094(d), for recordkeeping
  - J. Title 40 CFR § 63.11094(e), for recordkeeping
  - K. Title 40 CFR § 63.11094(g), for recordkeeping
  - L. Title 40 CFR § 63.11095(a), (a)(3), (b), (b)(5) and (d), for reporting
9. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

### **New Source Review Authorization Requirements**

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

### **Compliance Requirements**

13. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
14. Use of Discrete Emission Credits to comply with the applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
    - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability

requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

- (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

### **Protection of Stratospheric Ozone**

- 15. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone.
  - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

### **Permit Location**

- 16. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

### **Permit Shield (30 TAC § 122.148)**

- 17. A permit shield is granted for the emission units, groups, or processes specified in the attached “Permit Shield.” Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment “Permit Shield.” Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition on the basis of the term and condition changes.

## **Attachments**

**Applicable Requirements Summary**

**Permit Shield**

**New Source Review Authorization References**

## **Applicable Requirements Summary**

**Unit Summary ..... 12**

**Applicable Requirements Summary ..... 19**

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
B-1	LOADING/UNLOADING OPERATIONS	N/A	63Y-DOCK2L	40 CFR Part 63, Subpart Y	No changing attributes.
B-16	LOADING/UNLOADING OPERATIONS	N/A	63Y-DOCK16	40 CFR Part 63, Subpart Y	No changing attributes.
B-2	LOADING/UNLOADING OPERATIONS	N/A	63Y-DOCK2L	40 CFR Part 63, Subpart Y	No changing attributes.
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	10	30 TAC Chapter 115, Storage of VOCs	STORAGE CAPACITY = Capacity is greater than 40,000 gallons, TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia, PRODUCT STORED = Crude oil and/or condensate
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	11	30 TAC Chapter 115, Storage of VOCs	STORAGE CAPACITY = Capacity is greater than 40,000 gallons, TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia, PRODUCT STORED = Crude oil and/or condensate
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	12	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	7	30 TAC Chapter 115, Storage of VOCs	STORAGE CAPACITY = Capacity is greater than 40,000 gallons, TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia, PRODUCT STORED = VOC other than crude oil or condensate
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	8	30 TAC Chapter 115, Storage of VOCs	STORAGE CAPACITY = Capacity is greater than 40,000 gallons, TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia, PRODUCT STORED = VOC other than crude oil or condensate
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	2	40 CFR Part 60, Subpart Kb	PRODUCT STORED = Petroleum liquid (other than petroleum or condensate), MAXIMUM TVP = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	3	40 CFR Part 60, Subpart Kb	PRODUCT STORED = Petroleum liquid (other than petroleum or condensate), MAXIMUM TVP = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	5	40 CFR Part 60, Subpart Kb	PRODUCT STORED = Crude oil stored, processed, and/or treated after custody transfer, MAXIMUM TVP = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia, REID VAPOR PRESSURE = Reid vapor pressure is less than 2.0 psia
GRP-CRUDE	STORAGE TANKS/VESSELS	S-400M1, S- 400M2, S-400M3, S-400M4	6	40 CFR Part 60, Subpart Kb	PRODUCT STORED = Crude oil stored, processed, and/or treated after custody transfer, MAXIMUM TVP = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia, REID VAPOR PRESSURE = Reid vapor pressure is greater than or equal to 2.0 psia
GRP-CRUDE2	STORAGE TANKS/VESSELS	S-200M1, S- 200M2, S-200M3, S-200M7, S- 200M8, S-200M9	R5111-17	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-CRUDE2	STORAGE TANKS/VESSELS	S-200M1, S- 200M2, S-200M3, S-200M7, S- 200M8, S-200M9	R5112-18	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
GRP-CRUDE2	STORAGE TANKS/VESSELS	S-200M1, S- 200M2, S-200M3, S-200M7, S- 200M8, S-200M9	60Kb-13	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia, Reid Vapor Pressure = Reid vapor pressure is less than 2.0 psia
GRP-CRUDE2	STORAGE TANKS/VESSELS	S-200M1, S- 200M2, S-200M3, S-200M7, S- 200M8, S-200M9	60Kb-14	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia, Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia
GRP-CRUDE2	STORAGE TANKS/VESSELS	S-200M1, S- 200M2, S-200M3, S-200M7, S- 200M8, S-200M9	60Kb-15	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia, Reid Vapor Pressure = Reid vapor pressure is less than 2.0 psia

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-CRUDE2	STORAGE TANKS/VESSELS	S-200M1, S- 200M2, S-200M3, S-200M7, S- 200M8, S-200M9	60Kb-16	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia, Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia
GRP-VFR	STORAGE TANKS/VESSELS	S-101, S-102, S- 103, S-104	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
S-201	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia
S-201	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia
S-201	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
S-202	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia
S-202	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia
S-202	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S-203	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia
S-203	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia
S-203	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
S-204	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia
S-204	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia
S-204	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
S-205	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia
S-205	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia
S-205	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S-206	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia
S-206	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia
S-206	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
S-207	STORAGE TANKS/VESSELS	N/A	1	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is less than 1.0 psia, PRIMARY SEAL = Mechanical shoe, SECONDARY SEAL = Any/none
S-207	STORAGE TANKS/VESSELS	N/A	2	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia, PRIMARY SEAL = Mechanical shoe, SECONDARY SEAL = Any/none
S-207	STORAGE TANKS/VESSELS	N/A	3	30 TAC Chapter 115, Storage of VOCs	TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.5 psia
S-207	STORAGE TANKS/VESSELS	N/A	3	40 CFR Part 60, Subpart Kb	No changing attributes.

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
B-1	EU	63Y-DOCK2L	EXEMPT	40 CFR Part 63, Subpart Y	§ 63.560(a)(2) § 153.282 § 63.560(a)(4)	Existing sources with emissions less than 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282. This submerged fill requirement does not apply to petroleum refineries.	§ 63.565(l)	§ 63.567(j)(4)	None
B-16	EU	63Y-DOCK16	EXEMPT	40 CFR Part 63, Subpart Y	§ 63.560(a)(2) § 153.282 § 63.560(a)(4)	Existing sources with emissions less than 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282. This submerged fill requirement does not apply to petroleum refineries.	§ 63.565(l)	§ 63.567(j)(4)	None
B-2	EU	63Y-DOCK2L	EXEMPT	40 CFR Part 63, Subpart Y	§ 63.560(a)(2) § 153.282 § 63.560(a)(4)	Existing sources with emissions less than 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282. This submerged fill requirement does not apply to petroleum refineries.	§ 63.565(l)	§ 63.567(j)(4)	None
GRP-CRUDE	EU	10	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CRUDE	EU	11	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
GRP-CRUDE	EU	12	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
GRP-CRUDE	EU	7	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CRUDE	EU	8	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
GRP-CRUDE	EU	9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
GRP-CRUDE	EU	2	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction /modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CRUDE	EU	3	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP-CRUDE	EU	5	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction /modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(2)(ii)	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(2)(ii)	§ 60.116b(d)
GRP-CRUDE	EU	6	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP-CRUDE <sub>2</sub>	EU	R5111-17	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(b)(1) § 115.118(b)(4) § 115.118(b)(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CRUDE2	EU	R5112-18	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.112(b)(2)(F) § 115.114(b)(2)(A) § 115.114(b)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(b)(2) § 115.114(b)(3) § 115.114(b)(4) § 115.114(b)(4)(A) [G]§ 115.117	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(2)(B) § 115.114(b)(4)(B)
GRP-CRUDE2	EU	60Kb-13	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction /modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)
GRP-CRUDE2	EU	60Kb-14	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction /modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CRUDE2	EU	60Kb-15	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CRUDE2	EU	60Kb-16	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
GRP-VFR	EU	R5112	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-201	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-201	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-201	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor recover	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-202	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-202	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-202	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor reco	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-203	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-203	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-203	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor recover	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-204	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-204	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-204	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor recover	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-205	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-205	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-205	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor recover	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-206	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-206	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)(1)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-206	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor recover	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-207	EU	1	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-207	EU	2	EXEMPT	30 TAC Chapter 115, Storage of VOCs	§ 115.111(b)	In Nueces County, except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(b)	None
S-207	EU	3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)-(E) § 115.119(e)	In Nueces County, no person shall place, store, or hold in any storage tank any VOC, unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table I(a) in subsection (a)(1) of this section for VOC other than crude oil and condensate or Table II(a) in subsection (a)(1) of this section for crude oil and condensate. If a flare is used as a vapor recover	[G]§ 115.114(b)(1) [G]§ 115.116(b) [G]§ 115.117 § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	None
S-207	EU	3	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)

**Permit Shield**

**Permit Shield ..... 34**

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
B-1	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Marine vessel transfer operations exempt in covered attainment counties.
B-2	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Marine vessel transfer operations exempt in covered attainment counties.
F-1	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located at a petroleum refinery.
F-2	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located at a petroleum refinery.

**New Source Review Authorization References**

**New Source Review Authorization References ..... 36**

**New Source Review Authorization References by Emission Unit..... 37**

## New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX1258M1	Issuance Date: 08/11/2015
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 32769	Issuance Date: 08/11/2015
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.478	Version Date: 09/04/2000

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
B-16	OIL DOCK 16	32769, PSDTX1258M1
B-1	LOADING DOCK EMISSIONS	32769, PSDTX1258M1
B-2	LOADING DOCK EMISSIONS	32769, PSDTX1258M1
F-1	PIPING FUGITIVES	32769, PSDTX1258M1
F-2	CRUDE LOADING FUGITIVE COMPONENTS	32769, PSDTX1258M1
S-101	PRODUCT STORAGE TANK	32769, PSDTX1258M1
S-102	PRODUCT STORAGE TANK	32769, PSDTX1258M1
S-103	PRODUCT STORAGE TANK	32769, PSDTX1258M1
S-104	PRODUCT STORAGE TANK	32769, PSDTX1258M1
S-200M1	CRUDE OIL STORAGE TANK	106.478/09/04/2000
S-200M2	CRUDE OIL STORAGE TANK	106.478/09/04/2000
S-200M3	CRUDE OIL STORAGE TANK	106.478/09/04/2000
S-200M7	CRUDE OIL STORAGE TANK	106.478/09/04/2000
S-200M8	CRUDE OIL STORAGE TANK	106.478/09/04/2000
S-200M9	CRUDE OIL STORAGE TANK	106.478/09/04/2000
S-201	PRODUCTS STORAGE TANK	32769, PSDTX1258M1
S-202	PRODUCTS STORAGE TANK	32769, PSDTX1258M1
S-203	PRODUCTS STORAGE TANK	32769, PSDTX1258M1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Unit/Group/Process ID No.</b>	<b>Emission Unit Name/Description</b>	<b>New Source Review Authorization</b>
S-204	PRODUCTS STORAGE TANK	32769, PSDTX1258M1
S-205	PRODUCTS STORAGE TANK	32769, PSDTX1258M1
S-206	PRODUCTS STORAGE TANK	32769, PSDTX1258M1
S-207	PRODUCTS STORAGE TANK	32769, PSDTX1258M1
S-400M1	CRUDE OIL STORAGE TANK	32769, PSDTX1258M1
S-400M2	CRUDE OIL STORAGE TANK	32769, PSDTX1258M1
S-400M3	CRUDE OIL STORAGE TANK	32769, PSDTX1258M1
S-400M4	CRUDE OIL STORAGE TANK	32769, PSDTX1258M1

**Appendix A**

**Acronym List .....40**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC.....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA.....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
COMS.....	continuous opacity monitoring system
CVS.....	closed-vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
DR .....	Designated Representative
ELP .....	El Paso (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
GF.....	grandfathered
gr/100 scf.....	grains per 100 standard cubic feet
HAP.....	hazardous air pollutant
H/G/B.....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No.....	identification number
lb/hr .....	pound(s) per hour
MMBtu/hr.....	Million British thermal units per hour
MRRT.....	monitoring, recordkeeping, reporting, and testing
NA .....	nonattainment
N/A.....	not applicable
NADB .....	National Allowance Data Base
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR.....	New Source Review
ORIS.....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PM.....	particulate matter
ppmv .....	parts per million by volume
PSD .....	prevention of significant deterioration
RO .....	Responsible Official
SO <sub>2</sub> .....	sulfur dioxide
TCEQ.....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP.....	true vapor pressure
U.S.C. ....	United States Code
VOC.....	volatile organic compound

**Appendix B**

**Major NSR Summary Table..... 42**

**Major NSR Summary Table**

Permit Number: 32769 & PSDTX1258M1			Issuance Date: August 11, 2015				
Emission Point Number <sup>1</sup> (EPN)	Source Name <sup>2</sup>	Air Contaminant Name <sup>3</sup>	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	(TPY) <sup>4</sup>	Spec. Cond.	Spec. Cond.	Spec. Cond.
S-400M1	Storage Tank S-400M1	VOC H <sub>2</sub> S	21.90 0.38	21.24 0.06	3, 10, 13, 14	3, 10, 12, 13, 14, 29	3
S-400M2	Storage Tank S-400M2	VOC H <sub>2</sub> S	21.90 0.38	21.24 0.06	3, 10, 13, 14	3, 10, 12, 13, 14, 29	3
S-400M3	Storage Tank S-400M3	VOC H <sub>2</sub> S	21.90 0.38	21.24 0.06	3, 10, 13, 14	3, 10, 12, 13, 14, 29	3
S-400M4	Storage Tank S-400M4	VOC H <sub>2</sub> S	21.90 0.38	21.24 0.06	3, 10, 13, 14	3, 10, 12, 13, 14, 29	3
Storage Tanks S-400M1, S-400M2, S-400M3, and S-400M4 annual emission CAP		VOC	---	53.11			
S-101	Storage Tank 101	VOC	7.36	---		10, 12, 29	
S-102	Storage Tank 102	VOC	7.36	---		10, 12, 29	
S-103	Storage Tank 103	VOC	7.36	---		10, 12, 29	
S-104	Storage Tank 104	VOC	7.36	---		10, 12, 29	
S-201	Storage Tank 201	VOC	1.80	---	4, 10	4, 10, 12, 29	4
S-202	Storage Tank 202	VOC	1.43	---	4, 10	4, 10, 12, 29	4
S-203	Storage Tank 203	VOC	0.64	---	4, 10	4, 10, 12, 29	4
S-204	Storage Tank 204	VOC	1.91	---	4, 10	4, 10, 12, 29	4
S-205	Storage Tank 205	VOC	0.86	---	4, 10	4, 10, 12, 29	4
S-206	Storage Tank 206	VOC	1.57	---	4, 10	4, 10, 12, 29	4
S-207	Storage Tank 207	VOC	2.08	---	4, 10	4, 10, 12, 29	4
Storage Tanks S-101 through S-207 annual emission CAP		VOC	---	15.40			
F-1 and F-2	Fugitive Components <sup>5</sup>	VOC H <sub>2</sub> S	2.77 0.02	12.12 0.03	24, 25, 26	24, 25, 26, 29	25
F-16	Fugitive Components <sup>5</sup>	VOC H <sub>2</sub> S	0.92 <0.01	4.01 <0.01	24, 25	24, 25, 29	25
B-1	Oil Dock 1	VOC H <sub>2</sub> S	178.45 0.47	361.94 1.12	4, 16	4, 6, 7, 8, 16, 19, 29	4
B-2A	Oil Dock 2 (Refined Products)	VOC	178.45	25.51	4, 16	4, 6, 7, 8, 16, 19, 29	4

**Major NSR Summary Table**

Permit Number: 32769 & PSDTX1258M1			Issuance Date: August 11, 2015				
Emission Point Number <sup>1</sup> (EPN)	Source Name <sup>2</sup>	Air Contaminant Name <sup>3</sup>	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	(TPY) <sup>4</sup>	Spec. Cond.	Spec. Cond.	Spec. Cond.
B-16	NuStar Dock 16	VOC H <sub>2</sub> S	142.15 0.47	201.86 0.67	4, 16	4, 6, 7, 8, 16, 19, 29	4
B-1, B-2A, and B-16 combined annual emission CAP		VOC H <sub>2</sub> S	--- ---	361.94 1.12			
VCU-2	Vapor Combustor No. 2 (Refined Products from Oil Dock 2 Loading Arm B-2A)	VOC NO <sub>x</sub> CO PM PM <sub>10</sub> PM <sub>2.5</sub>	67.81 9.43 18.82 0.51 0.51 0.51	9.05 1.55 3.08 0.07 0.07 0.07	20, 22, 27	19, 20, 22, 27, 29	22
VCU-2	Vapor Combustor No. 2 (Crude/Condensate from Oil Dock 2 Loading Arm B-2B)	VOC NO <sub>x</sub> CO PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> H <sub>2</sub> S	28.43 8.64 17.25 0.47 0.47 0.47 16.50 0.09	38.14 18.93 37.79 1.02 1.02 1.02 21.39 0.12	18, 20, 22, 27	18, 19, 20, 22, 27, 29	22
VCU-2	Vapor Combustor No. 2	VOC NO <sub>x</sub> CO PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> H <sub>2</sub> S	-- -- -- -- -- -- -- --	47.19 20.48 40.87 1.09 1.09 1.09 21.39 0.12	20, 22, 27	19, 20, 22, 27, 29	22
VCU-3	Vapor Combustor No. 3	VOC NO <sub>x</sub> CO PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> H <sub>2</sub> S	27.51 12.72 25.39 0.69 0.69 0.69 16.65 0.09	64.10 23.98 47.88 1.29 1.29 1.29 39.38 0.21	20, 22, 27	19, 20, 22, 27, 29	22

**Major NSR Summary Table**

Permit Number: 32769 & PSDTX1258M1			Issuance Date: August 11, 2015				
Emission Point Number <sup>1</sup> (EPN)	Source Name <sup>2</sup>	Air Contaminant Name <sup>3</sup>	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	(TPY) <sup>4</sup>	Spec. Cond.	Spec. Cond.	Spec. Cond.
VCU-4	Vapor Combustor No. 4	VOC	36.22	50.96	20, 22, 27	19, 20, 22, 27, 29	22
		NO <sub>x</sub>	17.35	28.00			
		CO	34.63	55.91			
		PM	0.94	1.51			
		PM <sub>10</sub>	0.94	1.51			
		PM <sub>2.5</sub>	0.94	1.51			
		SO <sub>2</sub>	21.91	31.14			
H <sub>2</sub> S	0.12	0.17					
VCU-2, VCU-3, VCU-4, and VCU-5	Combined Annual Emission CAP	VOC	---	64.10	20, 22, 27	19, 20, 22, 27, 29	22
		NO <sub>x</sub>	---	28.00			
		CO	---	55.91			
		PM	---	1.51			
		PM <sub>10</sub>	---	1.51			
		PM <sub>2.5</sub>	---	1.51			
		SO <sub>2</sub>	---	39.38			
H <sub>2</sub> S	---	0.21					
VCU-5	Back-up Vapor Combustor No. 5 (Back-up for VCU-2) <sup>6,7</sup>	VOC	---	47.19	20, 22, 23, 28	19, 20, 22, 23, 28, 29	22
		NO <sub>x</sub>	---	20.48			
		CO	---	40.87			
		PM	---	1.09			
		PM <sub>10</sub>	---	1.09			
		PM <sub>2.5</sub>	---	1.09			
		SO <sub>2</sub>	---	21.39			
	H <sub>2</sub> S	---	0.12				
	Back-up Vapor Combustor No. 5 (Back-up for VCU-3) <sup>8</sup>	VOC	27.51	64.10	20, 22, 23, 28	19, 20, 22, 23, 28, 29	22
		NO <sub>x</sub>	12.72	23.98			
		CO	25.39	47.88			
		PM	0.69	1.29			
		PM <sub>10</sub>	0.69	1.29			
		PM <sub>2.5</sub>	0.69	1.29			
SO <sub>2</sub>		16.65	39.38				
H <sub>2</sub> S	0.09	0.21					

Footnotes:

<sup>1</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

<sup>2</sup> Specific point source name. For fugitive sources, use area name or fugitive source name.

<sup>3</sup> VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

## Major NSR Summary Table

CO	-	carbon monoxide
H <sub>2</sub> S	-	hydrogen sulfide
PM	-	particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
PM <sub>10</sub>	-	particulate matter equal to or less than 10 microns in diameter
PM <sub>2.5</sub>	-	particulate matter equal to or less than 2.5 microns in diameter

<sup>4</sup> Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

<sup>5</sup> Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

<sup>6</sup> Maximum hourly emissions are limited to the maximum hourly emissions authorized for each loading arm (B-2A and B-2B) for EPN VCU-2.

<sup>7</sup> Annual Emissions are a subcap of VCU-2

<sup>8</sup> Annual Emissions are a subcap of VCU-3



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



A Permit Is Hereby Issued To  
**NuStar Logistics, L.P.**  
Authorizing the Construction and Operation of  
**Corpus Christi Terminal**  
Located at **Corpus Christi, Nueces County, Texas**  
Latitude 27° 49' 5" Longitude -97° 24' 48"

Permits: 32769 and PSDTX1258M1

Amendment Date : August 11, 2015

Expiration Date: January 14, 2018

For the Commission

- 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 116.116 (30 TAC 116.116)]
- 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(a), (b) and (c)]
- 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)]
- 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)(iii)]
- 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; comply with any additional recordkeeping requirements specified in special conditions attached to 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)]
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 for upsets and maintenance 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, regulations, 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 a condition of "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.

## **Special Conditions**

Permit Numbers 32769 and PSDTX1258M1

### **Emission Limitations**

1. This permit authorizes marine terminal operations for the Corpus Christi Terminal located in Nueces County, Texas. **(12/14)**

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) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the MAERT. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions. **(12/14)**

### **Federal Applicability**

3. 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): **(12/14)**
  - A. Subparts A, General Provisions
  - B. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels
4. 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 for Source Categories in 40 CFR Part 63: **(12/14)**
  - A. Subpart A, General Provisions
  - B. Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations
  - C. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities
5. If any condition of this permit is more stringent than the applicable regulations in Special Condition Nos. 3 and 4, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated. **(12/14)**

**Loading and Operational Limitations**

6. The amount of refined product loaded from the permitted facility through Oil Docks 1 and 2 shall not exceed the amounts listed below. The operator of the facility shall record daily and monthly amounts of each product loaded to demonstrate compliance with the following limits: **(12/14)**

<b>Product</b>	<b>Rolling 12 Month Loading Limit (bbl/year)</b>
Gasoline	2,920,000
Turbine Fuel	1,825,000
Diesel	2,190,000
Toluene	1,460,000
Mixed Xylenes	2,555,000
Pipeline Slop	73,000

7. Crude oil and condensate loading is authorized for the following loading spots at the rates and for the vessel types indicated. The operator of the facility shall record daily and monthly amounts of each product loaded to demonstrate compliance with these limits. **(8/15)**

<b>Loading Spot</b>	<b>Vessel Type</b>	<b>Loading Rate (bbl/year)</b>
Oil Dock 1	Ship / Ocean Barge	73 MM
Oil Dock 2 (Loading Arm B-2B)	Coastal / Inland Barge	40 MM
NuStar Dock 16	Ship / Ocean Barge	109.5 MM
NuStar Dock 16	Coastal /Inland Barge	54.75 MM

8. The maximum fill rate at Oil Docks 1 & 2 and NuStar Dock 16 shall not exceed the following limits (bbl/hr) for the vessel types indicated: **(12/14)**

<b>Product</b>	<b><u>Oil Dock 1</u></b>	<b><u>Oil Dock 2 (Arm B-2A)</u></b>	<b><u>Oil Dock 2 (Arm B-2B)</u></b>	<b><u>NuStar Dock 16</u></b>	<b><u>Combined Oil Docks 1 &amp; 2 and NuStar Dock 16 (bbl/hr)</u></b>
Products other than Crude Oil and Condensate	12,000*	12,000**	_____	_____	12,000
Crude Oil and Condensate	8,500**	_____	12,000**	15,000**	72,000
	30,000*			30,000*	

\* Tankers, ships, and ocean barges.

\*\* Coastal/inland barges

9. Storage tank throughput and service shall be limited to the following: **(8/15)**

Tank(s)	Service	Fill/Withdrawal rate per tank (bbls/hour)	Rolling 12 Month Throughput (bbls/yr)
S-101, S-102, S-103, and S-104	Diesel fuel, turbine fuel, kerosene, and cycle oil with maximum true vapor pressures not exceeding 0.50 pounds per square inch, absolute (psia).	3,800	
Tanks S-201, S-202, S-203, S-204, S-205, S-206, and S-207	Gasoline, gasoline blendstocks, diesel fuel, xylene, toluene, naphtha, pipeline interface slop, alkylate, and raffinate products including n-hexane, benzene, cyclohexane, toluene, ethylbenzene, meta-xylene, para-xylene, orto-xyxylene, and isopropylbenzene. The maximum true vapor pressures for stored products shall not exceed 10.5 psia.	5,000 (Fill only) 3,800 (Withdraw only)	
S-400M1, S-400M2, S-400M3, and S-400M4	Crude oils and condensate with maximum true vapor pressures not exceeding 11.00 psia.	100,000	109,500,000

10. Storage tanks are subject to the following requirements. The control requirements specified in Paragraphs A - D of this condition shall not apply (1) where the volatile organic compound (VOC) has an aggregate partial pressure of less than 0.50 psia at the maximum feed temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons.
- A. An internal floating deck or “roof” or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.
  - B. An open-top tank containing a floating roof (external floating roof tank) which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a

mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim mounted. A weathershield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor tight.

- C. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and seal gap measurements as specified in Title 40 Code of Federal Regulations §60.113b (40 CFR §60.113b) Testing and Procedures (as amended at 54 FR 32973, Aug. 11, 1989) to verify fitting and seal integrity. Records shall be maintained of the dates seals were inspected and seal gap measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.
  - D. 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.
  - E. Uninsulated tank exterior surfaces exposed to the sun shall be white or aluminum. Storage tanks must be equipped with permanent submerged fill pipes.
  - F. 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.  
  
Emissions for tanks shall be calculated using: the Texas Commission on Environmental Quality (TCEQ) publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."
  - G. Operation without visible liquid leaks or spills shall be maintained at all loading or unloading facilities, regardless of vapor pressure. This does not apply to momentary dripping associated with the initial connection or disconnection of fittings. Sustained dripping from fittings during loading or unloading operations is not permitted. Any liquid spill that occurs during loading or unloading activities shall be reported pursuant to Title 30 Texas Administrative Code (30 TAC) §§101.6 or 101.7 and shall be cleaned up immediately to minimize air emissions.
11. Products containing more than 25,000 parts per million volume hydrogen sulfide (H<sub>2</sub>S) shall not be stored at this permitted facility.
12. The benzene content of any product stored shall not exceed the values listed for the specified tanks: **(4/12)**
- A. Products stored in Tanks S-101, S-102, S-103, S-104, S-201, S-202, S-203, S 204, S-205, S-206, and S-207 shall not exceed 5.0 percent benzene by weight. The 12-month

rolling average benzene content of the products stored in any of these tanks shall not exceed 2.0 percent by weight.

- B. Products stored in tanks S-400M1, S-400M2, S-400M3, and S-400M4 shall not exceed 1.2 percent benzene by weight. The 12-month rolling average benzene content of the products stored in any of these tanks shall not exceed 0.61 percent by weight. **(8/15)**
13. Products loaded onto marine vessels from tanks S-400M1, S-400M2, S-400M3, and S-400M4 shall not exceed 0.73 vapor weight percent benzene. The 12-month rolling average benzene content of the products loaded onto marine vessels from any of these tanks shall not exceed 0.45 vapor weight percent. **(8/15)**
  14. To demonstrate compliance with Special Condition Nos. 11 and 12.B samples shall be drawn from tanks S-400M1, S-400M2, S-400M3, and S-400M4 within the first seven days of each calendar month. For each tank, a record shall be maintained indicating: (1) the current true vapor pressure, (2) the 12-month rolling true vapor pressure, (3) the current benzene analysis in weight percent, (4) the 12-month rolling benzene analysis in weight percent, and (5) the current H<sub>2</sub>S analysis in parts per million.
  15. The loading or unloading of barges and tankers is authorized at this facility.
  16. Loading at this facility of products other than diesel or turbine fuel into barges or tankers shall be subject to the following conditions: **(4/13)**
    - A. Loading vapors shall be routed back to a vapor combustion unit (VCU). Oil Dock 1 shall route to EPN VCU-3. Both loading arms from Oil Dock 2 shall route to EPN VCU-2. NuStar Dock 16 shall route to EPN VCU-4. **(12/14)**
    - B. During periods that VCU-2 or VCU-3 is out of service, emissions normally vented to the vapor combustor shall be routed to the back-up VCU (EPN VCU-5). At no time shall both VCU-2 and VCU-3 be taken out of service simultaneously. **(12/14)**
    - C. Loading shall not commence unless the vapor collection system is properly connected and the entire vapor collection and recovery system is working as designed. **(12/14)**
    - D. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service until they are repaired to a leak-free state.
    - E. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections. Operations shall not be continued until the lines and connections are repaired to a leak-free state.
    - F. Before loading a barge or tanker with a VOC which has a vapor pressure equal to or greater than 0.50 pounds per square inch absolute under actual storage conditions, the owner or operator of the marine terminal shall verify that the marine vessel has passed an annual vapor tightness test as specified in 40 CFR §63.565(c) (September 19, 1995) or 40 CFR §61.304(f) (October 17, 2000).

- G. Records shall be kept at the plant site to demonstrate compliance with the requirements of Special Condition No. 16.F concerning barges and tankers being loaded at this facility. All records shall be maintained for at least two years and be made immediately available at the request of TCEQ personnel or any local air pollution program having jurisdiction. The records shall include as a minimum:
- (1) Date of loading.
  - (2) Name of the product loaded.
  - (3) Date the barge or tanker last passed the leak-tight test.
  - (4) Identification number of the barge, or name and port of registry of the tanker.
17. Loading at this facility of diesel or turbine fuel into barges or tankers in which the last previous product transported was a VOC with a maximum true vapor pressure which exceeds 0.50 psia shall be subject to Special Condition Nos. 16.A, B, C, D, and E.
18. The following additional requirements apply to loading crude oil and condensate from loading arm 2B at Dock 2 **(12/14)**
- A. All vapors associated with marine loading of crude oil and condensate from loading arm 2B at Dock 2 shall be routed through a vacuum-assisted collection system.
  - B. The marine loading vapor collection system shall be operated such that the vacuum maintained in the collection system during loading is no less than one inch of water and that the vessel being loaded is also under a vacuum.
  - C. A pressure measurement device shall be installed as close as possible to the vessel's vapor return port to continuously monitor and record the vacuum while loading is taking place. The collection system vacuum shall be continuously monitored and recorded at least once every 15 minutes while loading is occurring. The monitoring device shall be calibrated at least annually in accordance with, the manufacturer's specifications.
  - D. The vacuum monitor shall have an accuracy of the greater of  $\pm 5$  percent of the vacuum being measured or  $\pm 0.15$  inches of water.
  - E. Quality-assured (or valid) data must be generated when loading is occurring. 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 barge loading is occurring over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.
19. The permit holder shall maintain and update monthly an emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12 month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Records of VOC

temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids that are at or below ambient temperatures. Loading emissions shall be calculated using the methods used to determine the MAERT limits in the permit application for the facilities authorized by this permit. Sample calculations from the application shall be attached to a copy of the permit at the terminal. **(12/14)**

### **Vapor Combustion Units (VCUs)**

20. Except as may be provided for in the special conditions of this permit, all collected waste gas from barge and tanker loading vents containing VOC shall be routed to one of the site VCUs (EPN's: VCU-2, VCU-3, VCU-4, and VCU-5), which shall each be designed and operated in accordance with the following requirements: **(12/14)**
  - A. EPN's: VCU-2, VCU-3, VCU-4, and VCU-5 shall each achieve 99 percent control of the waste gas directed to it. This shall be ensured by maintaining the temperature in, or immediately downstream of, the combustion chamber above 1000°F prior to the initial stack test performed in accordance with Special Condition No. 22. Following the completion of that stack test, the six minute average temperature shall be maintained above the minimum one hour average temperature maintained during the last satisfactory stack test.
  - B. The temperature measurement device shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. The temperature monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of  $\pm 2$  percent of the temperature being measured expressed in degrees Celsius or  $\pm 2.5^\circ\text{C}$ .
  - C. Quality assured (or valid) data must be generated when a VCU 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 a VCU operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.
  - D. Each vapor combustor shall be operated with no visible emissions and have a constant pilot flame during all times waste gas could be directed to it. 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 maintained in accordance with, the manufacturer's specifications.
  - E. VCU-2, VCU-3, and VCU-5 shall achieve a set point temperature of at least 1000 °F or the temperature maintained during the last satisfactory stack test prior to the start of loading.

21. Fuel gas combusted at this site shall be sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet.

### **Determination of Compliance**

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 VCU-2, VCU-3, and VCU-4 to demonstrate compliance with the MAERT. 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. **(4/13)**

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 VCU-2, VCU-3, and VCU-4 to be tested for include (but are not limited to) VOC.
- C. Sampling of VCU-2 shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities, or 180 days after completion of construction of facilities authorized with issuance of the

permit dated April 10, 2012, and at such other times as may be required by the TCEQ Executive Director.

Sampling of VCU-3 shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities, or 180 days after completion of construction of facilities authorized with issuance of the permit dated November 16, 2012, and at such other times as may be required by the TCEQ Executive Director.

Sampling of VCU-4 shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities, or 180 days after completion of construction of facilities authorized with issuance of the permit dated April 22, 2013, and at such other times as may be required by the TCEQ Executive Director.

Requests for additional time to perform sampling for VCU-2, VCU-3, or VCU 4 shall be submitted to the appropriate regional office.

- D. Stack emission testing of VCU-2, VCU-3, and VCU-4 shall be made when marine loading is at the maximum rate. 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.

During subsequent operations, if the marine loading rate is greater than that recorded during the test period, stack sampling shall be performed at the new operating conditions within 120 days. This sampling may be waived by the TCEQ Air Section Manager for the region.

- 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.

Sampling ports and platform(s) shall be incorporated into the design of VCU-2, VCU-3, and VCU-4 according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the TCEQ Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

23. When in operation, VCU-5 shall maintain a minimum temperature of 1400°F in, or immediately downstream of the combustion chamber. The temperature shall be monitored in accordance with Special Condition 20.B. **(12/14)**

### **Fugitive Emissions Monitoring of Components in Petroleum Product Service**

24. The following shall be performed for piping, valves, pumps, and compressors in petroleum product service associated with storage tanks S-101 through S-104, and S-201 through S-207:
  - A. Audio, olfactory, and visual checks for petroleum product leaks within the operating area shall be made once per 24-hour period.
  - B. Every reasonable effort shall be made to repair or replace a leaking component within 5 days after a leak is found. If the repair or replacement of a leaking component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired or replaced until a scheduled shutdown shall be identified in a list to be made available to representatives of the TCEQ and of any local programs having jurisdiction, upon request.
  - C. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the TCEQ and of any local programs having jurisdiction, upon request.

### **Piping, Valves, Flanges, Connectors, Pumps, and Compressors in VOC Service - Intensive Directed Maintenance 28MID**

25. Except as may be provided for in the special conditions of this permit, the following requirements apply to fugitive components and marine loading associated with tanks S-400M1, S-400M2, S-400M3, and S-400M4: **(4/12)**
  - 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 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, agitators, 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 30 TAC Chapter 115, shall be identified in a list to be made 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.
- 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.

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. 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.

An approved 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, then 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. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be 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 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 shut down 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 shut down 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. 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.

- J. The percent of valves leaking used in Paragraph I shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

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.

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

### **Piping, Valves, Pumps and Compressors in H<sub>2</sub>S Service**

26. Audio, olfactory, and visual checks for H<sub>2</sub>S leaks within the operating area shall be made once per working shift of fugitive components and marine loading associated with tanks S-400M1, S-400M2, S-400M3, and S-400M4:

Immediately, but no later than one hour upon detection of a leak, plant personnel shall take the following actions:

- A. Isolate the leak.
- B. Commence repair or replacement of the leaking component.
- C. Use a leak collection/containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

The 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. These records shall be made available to representatives of the TCEQ upon request.

### **Compliance Assurance Monitoring**

27. The following requirements apply to capture systems for VCU-2, VCU-3, and VCU-4.  
**(4/13)**
- A. If used to control pollutants other than particulate, either:
    - (1) 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
    - (2) 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. The control device shall not have a bypass.

- 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.
28. Special Condition 27 shall apply to VCU-5 prior to initial use and after each month of continuous service. **(12/14)**

### **Recordkeeping**

29. Records required in order to demonstrate compliance with the MAERT and all other records required by the conditions of this permit are to be maintained electronically or in hard copy format for at least five years at the site and made available to representatives of the TCEQ or any local air pollution control program having jurisdiction. The five year record keeping requirement shall not apply to records generated before April 10, 2010. **(12/14)**

Date: August 11, 2015

Emission Sources - Maximum Allowable Emission Rates

Permit Number 32769 and PSDTX1258M1

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)
S-400M1	Storage Tank S-400M1	VOC	21.90	21.24
		H <sub>2</sub> S	0.38	0.06
S-400M2	Storage Tank S-400M2	VOC	21.90	21.24
		H <sub>2</sub> S	0.38	0.06
S-400M3	Storage Tank S-400M3	VOC	21.90	21.24
		H <sub>2</sub> S	0.38	0.06
S-400M4	Storage Tank S-400M4	VOC	21.90	21.24
		H <sub>2</sub> S	0.38	0.06
Storage Tanks S-400M1, S-400M2, S-400M3, and S-400M4 annual emission CAP		VOC	---	53.11
S-101	Storage Tank 101	VOC	7.36	---
S-102	Storage Tank 102	VOC	7.36	---
S-103	Storage Tank 103	VOC	7.36	---
S-104	Storage Tank 104	VOC	7.36	---
S-201	Storage Tank 201	VOC	1.80	---
S-202	Storage Tank 202	VOC	1.43	---
S-203	Storage Tank 203	VOC	0.64	---
S-204	Storage Tank 204	VOC	1.91	---
S-205	Storage Tank 205	VOC	0.86	---
S-206	Storage Tank 206	VOC	1.57	---
S-207	Storage Tank 207	VOC	2.08	---
Storage Tanks S-101 through S-207 annual emission CAP		VOC	---	15.40

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
F-1 and F-2	Fugitive Components (5)	VOC	2.77	12.12
		H <sub>2</sub> S	0.02	0.03
F-16	Fugitive Components (5)	VOC	0.92	4.01
		H <sub>2</sub> S	<0.01	<0.01
B-1	Oil Dock 1	VOC	178.45	361.94
		H <sub>2</sub> S	0.47	1.12
B-2A	Oil Dock 2 (Refined Products)	VOC	178.45	25.51
B-16	NuStar Dock 16	VOC	142.15	201.86
		H <sub>2</sub> S	0.47	0.67
B-1, B-2A, and B-16 combined annual emission CAP		VOC	---	361.94
		H <sub>2</sub> S	---	1.12
VCU-2	Vapor Combustor No. 2 (Refined Products from Oil Dock 2 Loading Arm B-2A)	VOC	67.81	9.05
		NO <sub>x</sub>	9.43	1.55
		CO	18.82	3.08
		PM	0.51	0.07
		PM <sub>10</sub>	0.51	0.07
		PM <sub>2.5</sub>	0.51	0.07
VCU-2	Vapor Combustor No. 2 (Crude/Condensate from Oil Dock 2 Loading Arm B-2B)	VOC	28.43	38.14
		NO <sub>x</sub>	8.64	18.93
		CO	17.25	37.79
		PM	0.47	1.02
		PM <sub>10</sub>	0.47	1.02
		PM <sub>2.5</sub>	0.47	1.02
		SO <sub>2</sub>	16.50	21.39
		H <sub>2</sub> S	0.09	0.12

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
VCU-2	Vapor Combustor No. 2	VOC	--	47.19
		NO <sub>x</sub>	--	20.48
		CO	--	40.87
		PM	--	1.09
		PM <sub>10</sub>	--	1.09
		PM <sub>2.5</sub>	--	1.09
		SO <sub>2</sub>	--	21.39
		H <sub>2</sub> S	--	0.12
VCU-3	Vapor Combustor No. 3	VOC	27.51	64.10
		NO <sub>x</sub>	12.72	23.98
		CO	25.39	47.88
		PM	0.69	1.29
		PM <sub>10</sub>	0.69	1.29
		PM <sub>2.5</sub>	0.69	1.29
		SO <sub>2</sub>	16.65	39.38
		H <sub>2</sub> S	0.09	0.21
VCU-4	Vapor Combustor No. 4	VOC	36.22	50.96
		NO <sub>x</sub>	17.35	28.00
		CO	34.63	55.91
		PM	0.94	1.51
		PM <sub>10</sub>	0.94	1.51
		PM <sub>2.5</sub>	0.94	1.51
		SO <sub>2</sub>	21.91	31.14
		H <sub>2</sub> S	0.12	0.17

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
VCU-2, VCU-3, VCU-4, and VCU-5	Combined Annual Emission CAP	VOC	---	64.10
		NO <sub>x</sub>	---	28.00
		CO	---	55.91
		PM	---	1.51
		PM <sub>10</sub>	---	1.51
		PM <sub>2.5</sub>	---	1.51
		SO <sub>2</sub>	---	39.38
		H <sub>2</sub> S	---	0.21
VCU-5	Back-up Vapor Combustor No. 5 (Back-up for VCU-2) (6)(7)	VOC	---	47.19
		NO <sub>x</sub>	---	20.48
		CO	---	40.87
		PM	---	1.09
		PM <sub>10</sub>	---	1.09
		PM <sub>2.5</sub>	---	1.09
		SO <sub>2</sub>	---	21.39
		H <sub>2</sub> S	---	0.12
	Back-up Vapor Combustor No. 5 (Back-up for VCU-3) (8)	VOC	27.51	64.10
		NO <sub>x</sub>	12.72	23.98
		CO	25.39	47.88
		PM	0.69	1.29
		PM <sub>10</sub>	0.69	1.29
		PM <sub>2.5</sub>	0.69	1.29
		SO <sub>2</sub>	16.65	39.38
H <sub>2</sub> S	0.09	0.21		

- (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<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide

Emission Sources - Maximum Allowable Emission Rates

- CO - carbon monoxide
  - H<sub>2</sub>S - hydrogen sulfide
  - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>
  - PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- (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) Maximum hourly emissions are limited to the maximum hourly emissions authorized for each loading arm (B-2A and B-2B) for EPN VCU-2.
  - (7) Annual Emissions are a subcap of VCU-2
  - (8) Annual Emissions are a subcap of VCU-3

Date: August 11, 2015