

Permit by Rule (PBR) Registration Technical Review

Company:	Texas City Logistics LLC	Registration No.:	180834
Nearest City:	Texas City	Project No.:	395448
County:	Galveston	Project Type:	Initial
Project Reviewer:	Brittany Williams	Regulated Entity No.:	RN112246897
Unit Name:	TCX Dock 42/43	Customer Reference No.:	CN606405876
PBR No(s).:	106.261, 106.352 2012-NOV-22, 106.359, 106.492	Project Received Date:	July 14, 2025
Physical Location:	2201 Dock rd.		

Project Overview / Process Description

Texas City Logistics LLC owns and operates the TCX Dock 42/43 facility located in Galveston County, Texas.

With this project, Texas City Logistics LLC is authorizing the construction and operation of TCX Dock 42/43 under PBR 106.261, PBR 106.352, PBR 106.359, and PBR 106.492.

The facility will load refrigerated propane and butane into marine vessels. The facility also includes diesel fuel storage tanks and diesel lines feeding emergency engines.

The facility will receive refrigerated propane and butane by pipeline. The propane and butane will be metered and piped to new loading arms that will load the products into marine vessels. The marine vessels will be equipped with on-board boil-off gas (BOG) liquefaction equipment to prevent product loss. Product loading rates will not exceed the vessel's BOG control capacity.

The only routine emissions from these facilities are piping component fugitive leaks and loading arm disconnect emissions. The facility will also include new metering equipment, pig traps, firewater pump engines, and diesel storage tanks. Maintenance, startup, and shutdown (MSS) activities such as meter proving and pigging will generate emissions. These MSS emissions will be authorized as needed using PBR 106.359. A portable flare, vapor combustor, and/or thermal oxidizer will be used to control most MSS emissions.

This facility is not being authorized under the Marine Loading Standard Permit because it will be operating under SIC Code 4613. The facility Core Data Form was originally submitted with SIC Code 4612. However, Texas City Logistics LLC has determined that SIC Code 4613 will be used for the TCX Dock 42/43 facility instead. In this case, the SIC code is excluded from coverage under the Marine Loading Operations (MLO) Standard Permit per condition (a)(5).

Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 774761 / 582EA000676241
Is this registration certified?	Yes
Is planned MSS included in the registration?	Yes
Are there affected NSR or Title V authorizations for the project?	No
If there are affected Title V authorizations, is monitoring being submitted as part of this registration?	N/A
Are there any upstream or downstream affects associated with this registration?	No
Are associated upstream/downstream emissions either included in the registration OR within current permitted limits with no changes to underlying air authorizations for the applicable units regarding BACT, health and environmental impacts, or other representations.	N/A
Are emissions for each PBR authorized facility less than the § 106.4(a)(1) limits?	Yes
Are total emissions from all sitewide PBR authorized facilities less than the § 106.4(a)(4) limits, OR has the site been subject to public notice requirements?	Yes, less than the § 106.4(a)(4) limits.
Are there permit limits on using PBRs at the site?	No
Is the facility subject to the NO _x Mass Cap and Trade Program?	N/A, PTE is < 10 tpy of NO_x and firewater pump engines meet exemption outlined in 117.2003(a)(2)(I).
Is the facility in compliance with all other applicable rules and regulations?	Yes

Permit by Rule (PBR) Registration

Registration No. 180834
Page 2

Project No. 395448

Does the registration include an appropriate PBR workbook, and has the workbook been verified?	Yes
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Federal Applicability

Does this project trigger a PSD or Nonattainment review?	No
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Does the Major NSR applicability analysis include all associated upstream and/or downstream emissions?	N/A
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Are there any applicable standards under NSPS, NESHAP, or NESHAP for source categories (MACT)?	Yes
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If Yes, list applicable subparts:	NSPS IIII
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Note: NSPS Subparts OOOO, OOOOa, and OOOOb apply to onshore operations involving crude oil/natural gas production (e.g., wells), processing (e.g., gas plants), transmission (e.g., compressor stations), and storage. This facility does not qualify as an affected source under these subparts because it is a downstream distribution and loading operation handling processed NGL products, not an extraction, processing, or transmission site. See project file for additional federal applicability information.

Permit by Rule Requirements - Compliance Demonstrations

PBR 106.261 Facilities (Emission Limitations)

(a)(1) The facilities or changes will be located **> 100 ft** from any off-site receptor.

(a)(2) Total new or increased emissions authorized by this section are **below 6.0 pounds per hour (lb/hr) and ten tons per year**.

(a)(3) Total new or increased emissions authorized by this section are **below 1.0 lb/hr**.

(a)(4) There will not be any changes or additions of any existing abatement equipment.

(a)(5) Visible emissions will not exceed the 5.0 % opacity limit.

(a)(6)-(7) Notification and all required documentation have been submitted.

(b) This registration is not for authorization for construction or to change a facility authorized under another section of this chapter or under standard permit.

Notes: **FUG, LOADARM**

PBR 106.352(I) Oil and Gas Handling and Production Facilities

(I) The requirements in this subsection are applicable to new and modified facilities except those specified in subsection (a)(1) of this section. Any oil or gas production facility, carbon dioxide separation facility, or oil or gas pipeline facility consisting of one or more tanks, separators, dehydration units, free water knockouts, gunbarrels, heater treaters, natural gas liquids recovery units, or gas sweetening and other gas conditioning facilities, including sulfur recovery units at facilities conditioning produced gas containing less than two long tons per day of sulfur compounds as sulfur are permitted by rule, provided that the following conditions of this subsection are met. This subsection applies only to those facilities named which handle gases and liquids associated with the production, conditioning, processing, and pipeline transfer of fluids found in geologic formations beneath the earth's surface.

This site is not located in one of the Barnett-Shale counties and meets all other specified requirements. Therefore, this subsection is applicable, and all requirements below will be met.

(I)(1) Compressors and flares shall meet the requirements of §106.492 and §106.512 of this title (relating to Flares; and Stationary Engines and Turbines, respectively). Oil and gas facilities which are authorized under historical standard exemptions and remain unchanged maintain that authorization and the remainder of this subsection does not apply.

All flares will meet the applicable requirements of §106.492.

(I)(2) Total emissions, including process fugitives, combustion unit stacks, separator, or other process vents, tank vents, and loading emissions from all such facilities constructed at a site under this subsection shall not exceed 25 tpy each of SO₂, all other sulfur compounds combined, or all VOCs combined; and 250 tpy each of NO_x and CO. Emissions of VOC and sulfur compounds other than SO₂ must include gas lost by equilibrium flash as well as gas lost by conventional evaporation.

Total emissions authorized under this PBR will not exceed the specified emission limits.

(I)(3) Any facility handling sour gas shall be located at least one-quarter mile from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facility or the owner of the property upon which the facility is located.

Not applicable. This site does not handle sour gas.

(I)(4) Total emissions of sulfur compounds, excluding sulfur oxides, from all vents shall not exceed 4.0 pounds per hour (lb/hr)

Permit by Rule (PBR) Registration

Registration No. 180834
Page 3

Project No. 395448

and the height of each vent emitting sulfur compounds shall meet the following requirements, except in no case shall the height be less than 20 feet, where the total emission rate as H₂S, lb/hr, and minimum vent height (feet), and other values may be interpolated:

- (I)(4)(A) 0.27 lb/hr at 20 feet;
- (I)(4)(B) 0.60 lb/hr at 30 feet;
- (I)(4)(C) 1.94 lb/hr at 50 feet;
- (I)(4)(D) 3.00 lb/hr at 60 feet; and
- (I)(4)(E) 4.00 lb/hr at 68 feet.

Total emissions of sulfur, excluding sulfur oxides will not exceed 4 lb/hr. All vents emitting sulfur compounds and authorized under this PBR will meet the specified vent height requirements.

(I)(5) Before operation begins, facilities handling sour gas shall be registered with the executive director in Austin using Form **PI-7 CERT** along with supporting documentation that all requirements of this subsection will be met. For facilities constructed under §106.353 of this title (relating to Temporary Oil and Gas Facilities), the registration is required before operation under this subsection can begin. If the facilities cannot meet this subsection, a permit under Chapter 116 of this title (relating to Control of Air Pollution by Permits for New Construction or Modification) is required prior to continuing operation of the facilities.

This site handles sweet gas; therefore, the site is not subject to this requirement.

Notes: **EPNs: E-702, E-703, T-702, T-703 (Company has temporary Thermal Oxidizer and Vapor Combustor at the site that will be authorized under this rule)**

PBR 106.359 Planned Maintenance, Startup, And Shutdown (MSS) At Oil and Gas Handling and Production Facilities

(a) Applicability. This section applies to certain authorized oil and gas handling or production facilities or sites, and authorizes emissions from planned maintenance, startup, and shutdown (MSS) facilities and activities, and any associated emission capture and control facilities, if all of the applicable requirements of this section are met.

(a)(1) This section does not apply to oil and gas handling or production facilities or sites authorized under §106.352(a) - (k) of this title (relating to Oil and Gas Handling and Production Facilities), subsections (a) - (k) of the non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities, §106.355 of this title (relating to Pipeline Metering, Purging, and Maintenance), or Subchapter U of this chapter (relating to Tanks, Storage, and Loading).

(a)(2) This section may not be used to supersede an existing authorization for planned MSS under this chapter or §116.620 of this title (relating to Installation and/or Modification of Oil and Gas Facilities) unless any previously represented emission control methods, techniques, and devices remain in use and there is no resulting increase in hourly emissions.

(b) Activities. Planned MSS activities and facilities authorized by this section include the following:

- (b)(1) engine, compressor, turbine, and other combustion facilities maintenance;
- (b)(2) repair, adjustment, calibration, lubrication, and cleaning of site process equipment;
- (b)(3) replacement of piping components, pneumatic controllers, boiler refractories, wet and dry seals, meters, instruments, analyzers, screens, and filters;
- (b)(4) turbine or engine component swaps;
- (b)(5) piping used to bypass a facility during maintenance;
- (b)(6) planned MSS activities with the same character and quantity of emissions as those listed in paragraphs (1) - (5) of this subsection;
- (b)(7) pigging and purging of piping;
- (b)(8) blowdowns;
- (b)(9) emptying, purging, degassing, or refilling of process equipment, storage tanks and vessels (except landing floating roof tanks for convenience purposes), if subparagraphs (A) - (C) of this paragraph are met.
 - (b)(9)(A) all contents from process equipment or tanks must be removed to the maximum extent practicable prior to opening facilities to commence degassing and maintenance.
 - (b)(9)(B) facilities must be degassed using best management practices to ensure air contaminants are removed from the system to the extent allowed by facility design.
 - (b)(9)(C) tanks may be emptied or degassed by forced ventilation if:
 - (b)(9)(C)(i) only one vacuum truck is in use at any time;
 - (b)(9)(C)(ii) emissions are directed out the top of the tank; or
 - (b)(9)(C)(iii) emissions are routed through a closed system to a control device.

Permit by Rule (PBR) Registration

Registration No. 180834
Page 4

Project No. 395448

(b)(10) abrasive blasting, surface preparation, and surface coating of facilities and structures used at the site in oil and gas handling and production.

(c) Best Management Practices.

(c)(1) All facilities with the potential to emit air contaminants must be maintained in good condition and operated properly.

(c)(2) Each permit holder shall establish, implement, and update, as appropriate, a program to maintain and repair facilities as required by paragraph (1) of this subsection. The minimum requirements of this program must include:

(c)(2)(A) a maintenance program developed by the permit holder for all facilities that is consistent with good air pollution control practices, or alternatively, manufacturer's specifications and recommended programs applicable to facility performance and the effect on emissions;

(c)(2)(B) cleaning and routine inspection of all facilities;

(c)(2)(C) repair of facilities on timeframes that minimize failures and maintain performance;

(c)(2)(D) training of personnel who implement the maintenance program; and

(c)(2)(E) records of conducted planned MSS activities.

Notes: **EPNs: MSS, MSS-COMB**

PBR 106.492 Flares

Smokeless gas flares which meet the following conditions of this section are permitted by rule:

(1) design requirements.

(1)(A) The flare shall be equipped with a flare tip designed to provide good mixing with air, flame stability, and a tip velocity less than 60 feet per second (ft/sec) for gases having a lower heating value less than 1,000 British thermal units per cubic foot (Btu/ft³) or a tip velocity less than 400 ft/sec for gases having a lower heating value greater than 1,000 Btu/ft³.

The flare tip velocity and lower heating value will meet the specified requirements.

(1)(B) The flare shall be equipped with a continuously burning pilot or other automatic ignition system that assures gas ignition and provides immediate notification of appropriate personnel when the ignition system ceases to function. A gas flare which emits no more than 4.0 pounds per hour (lb/hr) of reduced sulfur compounds, excluding sulfur oxides, is exempted from the immediate notification requirement, provided the emission point height meets the requirements of §106.352(4) of this title (relating to Oil and Gas Production Facilities).

The flare tip will be equipped with a continuously burning pilot. The flare will emit less than 4 lb/hr of reduced sulfur compounds.

(1)(C) A flare which burns gases containing more than 24 parts per million by volume (ppmv) of sulfur, chlorine, or compounds containing either element shall be located at least 1/4 mile from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the flare or the owner of the property upon which the flare is located.

Not applicable. The flare will not burn gas containing more than 24 ppmv of sulfur or chlorine containing compounds.

(1)(D) The heat release of a flare which emits sulfur dioxide (SO₂) or hydrogen chloride (HCl) shall be greater than or equal to the following values:

For SO₂ $Q = 0.53 \times 10^5 \times \text{SO}_2$

Where Q = heat release, British thermal units per hour, based
on lower heating value

SO₂ = SO₂ emission rate, lb/hr

The heat release will meet the specified requirement. The maximum SO₂ emission rate is 0.10 lb/hr. Per 30 TAC 106.492(1)(D), the heat release at this emission rate must be greater than: $Q = 0.53 \times 10^5 \times 0.10 = 5,300$ Btu/hr

Per the provided emission calculations, the lowest heat release from any of the MSS activities is 0.52 MMBtu/hr = 520,000 Btu/hr. Therefore, the requirements of 106.492(1)(D) are satisfied.

(2) operational conditions.

(2)(A) The flare shall burn a combustible mixture of gases containing only carbon, hydrogen, nitrogen, oxygen, sulfur, chlorine, or compounds derived from these elements. When the gas stream to be burned has a net or lower heating value of more than 200 Btu/ft³ prior to the addition of air, it may be considered combustible.

The flare will combust gases that meet the specified requirements.

(2)(B) A flare which burns gases containing more than 24 ppmv of sulfur, chlorine, or compounds containing either element shall be registered with the commission's Office of Permitting, Remediation, and Registration in Austin using Form **PI-7 CERT** prior to construction of a new flare or prior to the use of an existing flare for the new service.

Permit by Rule (PBR) Registration

Registration No. 180834
Page 5

Project No. 395448

Not applicable. The flare will not burn gas containing more than 24 ppmv of sulfur or chlorine containing compounds.

(2)(C) Under no circumstances shall liquids be burned in the flare.

Liquids will not be burned in the flares.

Notes: **Company has temporary Flare at the site that will be authorized under this rule.**

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance history report was reviewed on:

July 15, 2025

Site rating / classification: **N/A**

Company rating / classification:

N/A

Has any action occurred on the basis of the compliance history or rating?

No

106.261(a)(2) Emissions

Chemical	Criteria Pollutant Designation	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Threshold?
Butane	VOC		6	10	5.30E+00	6.52E+00	Yes
Ethylene	VOC		6	10	1.60E-01	2.00E-01	Yes
Propane	VOC		6	10	5.30E+00	6.52E+00	Yes
Propylene	VOC		6	10	1.60E-01	2.00E-01	Yes
Refinery Petroleum Fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene	VOC		6	10	3.00E-03	1.00E-02	Yes

106.261(a)(3) Emissions

Chemical	Criteria Pollutant Designation	L Value (mg/m ³)	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Threshold ?
Pentane	VOC	350		1	4.38	5.00E-02	6.00E-02	Yes

Total 106.261 Emissions

	Total Hourly Emissions (lb/hr)	Total Annual Emissions (tpy)
Total Emissions:	10.97	13.51

Note: Speciated emissions are conservatively presented assuming the worst-case composition for either propane or butane products may be present in the line. Therefore, the speciated emissions in this workbook exceed the total VOC emissions claimed under PBR §106.261.

Emission Summary

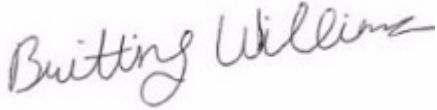
EPN / Emission Source	VOC		NOx		CO		PM/PM ₁₀ / PM _{2.5}		SO ₂		Other	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
FUG / Fugitives	1.43	6.26	-	-	-	-	-	-	-	-	-	-
LOADARM / Loading Arm Disconnects	3.87	0.28	-	-	-	-	-	-	-	-	-	-
E-702 / P-702 Diesel Firewater Pump Engine	1.99	0.10	1.98	0.10	1.72	0.09	0.66	0.03	0.62	0.03	-	-
E-703 / P-703 Diesel Firewater Pump Engine	1.99	0.10	1.98	0.10	1.72	0.09	0.66	0.03	0.62	0.03	-	-
T-702 / Diesel Tank	0.02	<0.01	-	-	-	-	-	-	-	-	-	-
T-703 / Diesel Tank	0.02	<0.01	-	-	-	-	-	-	-	-	-	-
MSS / MSS - Atmospheric	8.21	0.43	-	-	-	-	-	-	-	-	-	-
MSS-COMB / - MSS - Portable Control Device	34.67	2.94	4.70	0.40	9.39	0.80	0.26	0.02	0.10	0.01	-	-
TOTAL EMISSIONS (TPY):		10.11		0.60		0.98		0.08		0.07		-

Permit by Rule (PBR) Registration

Registration No. 180834
Page 6

Project No. 395448

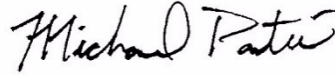
	MAXIMUM OPERATING SCHEDULE: Hours/Year	8,760
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08/28/2025

Date

Ms. Brittiny Williams
Permit Reviewer
Rule Registration Section



08/28/2025

Date

Michael Partee, Manager
Rule Registrations Section
Air Permits Division