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August 5, 2022

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

RE: Permit by Rule §106.261 and §106.262 Registration
Targa Downstream LLC – Galena Park Terminal
Harris County, TX
TCEQ Account Number HG-0786-O
TCEQ Customer Reference Number (CN) 603592940
TCEQ Regulated Entity Reference Number (RN) 100214212

Dear APIRT:

Targa Downstream LLC (Targa) owns and operates the Galena Park Terminal located in Harris County, Texas. Targa is registered under Texas Commission on Environmental Quality (TCEQ) Customer Reference Number (CN) 603592940. The Galena Park Terminal is registered under TCEQ Regulated Entity Number (RN) 100214212. Air emissions from the Galena Park Terminal are authorized under TCEQ Permit No. 5414 and various standard permits and permit by rules (PBRs).

With the enclosed PBR registration, Targa is authorizing an increase in the throughput capacity of low ethane propane (LEP)1 and LEP2 from 15,000 lb/hr to 17,000 lb/hr. This PBR will result in the following changes:

- Addition of fugitive piping components (EPN FUG-PURITY1);
- Increase in total throughput of LEP and increase in ships loaded annually; and
- An actual heat input increase on heaters (Emission Point Numbers [EPNs] H-11 and H-13) from 13 MMBtu/hr to 17 MMBtu/hr. The potential heat input rating for the heaters is currently permitted at 21 MMBtu/hr and will remain unchanged.

The project will be authorized under Title 30 of the Texas Administrative Code (30 TAC) Chapter §106.261 – Facilities (Emission Limitations) and §106.262 – Facilities (Emission and Distance Limitations). This PBR registration is submitted in accordance with 30 TAC Chapter 106 and demonstrates that the operations meet the applicable regulatory requirements. The emissions from the proposed project will be consolidated by incorporation during the next permit amendment or renewal of Permit No. 5414.

The volatile organic compound (VOC) emissions increase as a result of the project are below the nonattainment new source review (NNSR) de minimis test threshold (i.e., less than 5 tons per year [<5 tpy]). The nitrogen dioxide (NO_X) emissions increases are above 5 tpy; as such, a netting analysis was completed and the net emissions increase is less than 25 tpy. Therefore, NNSR permitting does not apply. The Galena Park Terminal is considered a minor source with respect to the Prevention of Significant Deterioration (PSD) program. The project does not constitute a new major stationary source or a major modification. Therefore, this project does not trigger NNSR or PSD permitting.

This submittal contains the following attachments:

- Attachment 1: Permit by Rule Fee
- Attachment 2: Process Description and Process Flow Diagram
- Attachment 3: Emission Summary Tables
- Attachment 4: Emissions Data
- Attachment 5: General PBR Requirements
- Attachment 6: Specific PBR Requirements
- Attachment 7: State and Federal Applicability Review
- Attachment 8: NNSR and PSD Applicability Review
- Attachment 9: Product Stream Analyses
- Attachment 10: TCEQ PI-7 CERT Form and Checklists

The $450.00 PBR submittal and processing fee for the project at the Galena Park Terminal has been submitted to the TCEQ Revenue Section electronically via the State of Texas Electronic Emissions Reporting System (STEERS).

If you have any questions or comments about the information presented in this letter, please do not hesitate to call me at (972) 661-8100 or Mr. Jeff Myhra, Targa, at (713) 584-1597.

Sincerely,

TRINITY CONSULTANTS

Anu Krishnan
Senior Consultant

Attachments

cc: Mr. Joseph Doby, Air Section Manager, TCEQ Region 12
Mr. Bill Grantham, Vice President Operations, Targa Downstream LLC (electronic)
Mr. Jeff Myhra, Senior Environmental Specialist – Air Quality, Targa Downstream LLC (electronic)

ATTACHMENT 1: PERMIT BY RULE FEE

Per 30 TAC §106.50 – *Registration Fees for Permits by Rule*, a $450 fee is required to be submitted for this registration. This fee has been submitted to TCEQ Revenue Section in STEERS via electronic payment.

ATTACHMENT 2: PROCESS DESCRIPTION

This section of the registration presents an overview of the Galena Park Terminal.

The Galena Park Terminal is located on the Houston Ship Channel in Galena Park, Texas. The Terminal serves as a shipping and receiving facility for a variety of petroleum hydrocarbon products, primarily liquefied petroleum gases (LPGs), olefin feedstock, and natural gasoline type products. The facility also supplies short term storage for these products, as well as temperature adjustment and dehydration as needed. No processing equipment is used at the facility, and no liquid processing is done at the subject facility.

ATTACHMENT 3: EMISSIONS SUMMARY TABLES

Targa Downstream LLC - Galena Park Terminal
ESTIMATED EMISSIONS

EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NO_x		CO		PM_{10}		$PM_{2.5}$		SO_2		HAP		H_2S	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
FL-1 - Loading		4.20	0.05	0.62	<0.01	1.23	0.02							--	--	--	--
FUG-PURITY1		0.35	1.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL EMISSIONS (TPY):			**1.59**		**<0.01**		**0.02**		**<0.01**		**<0.01**		**<0.01**		**<0.01**		**<0.01**
MAXIMUM OPERATING SCHEDULE		**HOURS/DAY**	24	**DAYS/WEEK**	7	**WEEKS/YEAR**	52	**HOURS/YEAR**	8760								

The following section describes the emission calculation methodology for the proposed project sources.

4.1 Equipment Leak Fugitives

Fugitive emissions (EPN FUG-PURITY1) are calculated based on emission factors from TCEQ's *Air Permit Technical Guidance for Chemical Sources: Fugitive Guidance* and the component count associated with this project.[1] New piping components associated at the site will be monitored under either the 28MID program which is consistent with Leak Detection and Repair (LDAR) monitoring for these EPNs at the plant. Control efficiencies claimed due to this LDAR program are claimed according to TCEQ's *Control Efficiencies for TCEQ Leak Detection and Repair Programs guidance*.[2] In addition, Targa performs quarterly OVA monitoring of flanges at a leak definition of 500 ppmv, which allows for an additional control efficiency of 97% claim per TCEQ's guidance *Air Permit Technical Guidance for Chemical Sources: Fugitive Guidance*.[3] Detailed emission calculations are presented at the end of this section.

4.2 Loading Operations

The pressurized loading operations at the Galena Park Terminal will be controlled by a flare with a DRE of 98%. These pressurized loading losses are calculated based on the volume of gas escaping from the disconnects (emissions per disconnect) and the number of disconnects on an hourly and annual basis.

4.3 Heaters

While the regen heaters (EPNs H-11 and H-13) maximum heat input ratings of 21 MMBtu/hr or potential emissions will not be impacted by the project, the project will result in an actual increase in heat release which needs quantification for purposes of PSD and NNSR applicability. As such, this section describes the emission calculation methodology used in estimating the projected actual emission rates represented in TCEQ Table 2F (Attachment 11). The projected actual heat input for the project is 17 MMBtu/hr for both units, which is the basis for these calculations. The units are assumed to be operational 8,760 hours per year.

Combustion of natural gas results in emissions of NO_X, carbon monoxide (CO), VOCs, particulate matter (PM), particulate matter with aerodynamic diameter less than 10 microns (PM_{10}), particulate matter with aerodynamic matter less than 2.5 microns ($PM_{2.5}$), sulfur dioxide (SO_2), and hazardous air pollutants (HAPs).

Emission factors for NO_X, CO and VOC are based on manufacturer guarantees; $PM/PM_{10}/PM_{2.5}$, and SO_2 emission factors are obtained from U.S. EPA AP-42 Section 1.4, Table 1.4-2.[4] HAPs emissions are obtained from U.S. EPA AP-42, Section 1.4, Tables 1.4-3 and 1.4-4.[5]

[1] TCEQ, *Air Permit Technical Guidance for Chemical Sources: Fugitive Guidance* APDG 6422, June 2018.
[2] Ibid.
[3] Ibid.

[4] U.S. EPA AP-42 Section 1.4, Natural Gas Combustion from External Combustion Sources (July 1998).

[5] U.S. EPA AP-42 Section 1.4, Natural Gas Combustion from External Combustion Sources (July 1998).

Targa Downstream LLC - Galena Park Terminal
Fugitives Emissions Calculations

Product Stream Fugitive Component Counts and VOC Contents [1]

Product Stream	Number of Valves		Number of Flanges		Number of Pumps		Number of Compressors	Number of Relief Valves	VOC Content (%)
	Gas/Vapor	Liquid	Gas/vapor	Liquid	Gas/vapor	Light Liquid			
Low Ethane Propane	280	390	302	365	-	6	4	2	100
Butane	280	390	302	365	-	6	4	2	100

[1] Per component count sheet as provided on 9/28/12. Leakless relief valves assumed to have zero emissions to the atmosphere.

Oil and Gas Production Operations Emission Factors

Equipment	Units	Gas [1]	Liquid [1]
Valves	(lb/hr)/component	0.00992	0.0055
Flanges	(lb/hr)/component	0.00086	0.000243
Pumps	(lb/hr)/component	0.00529	0.02866
Compressors	(lb/hr)/component	0.0194	0.0165
Relief Valves	(lb/hr)/component	0.0194	0.0165

[1] Oil and Gas Production emission factors obtained from TCEQ guidance: https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/fugitive-guidance.pdf Table II, accessed June 2022.

TCEQ LDAR Control Efficiencies

LDAR Program	Units	Gas [1]	Liquid [1]
Valves	%	97	97
Flanges	%	97	97
Pumps	%	0	93
Compressors	%	0	95
Relief Valves	%	97	0

[1] Control efficiencies for 28 MID LDAR program obtained from TCEQ guidance (pumps associated with the project are in light liquid service):
https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/fugitive-guidance.pdf, accessed June 2022.
Targa will monitor flanges using quarterly OVA monitoring at the same leak definition for valves; therefore, the 97% control efficiency may be used for flanges.

Targa Downstream LLC - Galena Park Terminal
Fugitives Emissions Calculations

Proposed Hourly and Annual Emissions from Fugitive Components

FIN	EPN	Product Stream	Hourly Emissions (lb/hr)[1, 3]								Annual Emissions (tpy)[2, 3]							
			Valves		Flanges				Relief		Valves		Flanges				Relief	
			Gas	Liquid	Gas	Liquid	Pumps	Compressors	Valves	Total	Gas	Liquid	Gas	Liquid	Pumps	Compressors	Valves	Total
FUG-PURITY1	FUG-PURITY1	Low Ethane Propane	0.08	0.06	7.79E-03	2.66E-03	0.01	3.30E-03	1.98E-03	0.18	0.36	0.28	0.03	0.01	0.05	0.01	8.67E-03	0.77
FUG-PURITY1	FUG-PURITY1	Butane	0.08	0.06	7.79E-03	2.66E-03	0.01	3.30E-03	1.98E-03	0.18	0.36	0.28	0.03	0.01	0.05	0.01	8.67E-03	0.77
		Total	0.17	0.13	0.02	5.32E-03	0.02	6.60E-03	3.96E-03	0.35	0.73	0.56	0.07	0.02	0.11	0.03	0.02	1.54

[1] Hourly Emissions (lb/hr) = Component Count x Emission Factor [(lb/hr)/ component] x VOC Content (%) / 100 x (1 - (28 MID Control (%)) / 100)

Hourly Emissions from Product Stream HD-5 (lb/hr) = $\frac{280 \times 0.00992 \text{ lb/hr-component} \times 100 \times 1-(97/100)}{100}$ = 0.08 lb/hr

[2] Annual Emissions (tpy) = Hourly Emissions (lb/hr) x 8,760 (hr/yr) x 1 ton /2,000 lb

Annual Emissions for Product Stream HD-5 (tpy) = $\frac{0.08 \text{ lb} \times 8{,}760 \text{ hr} \times 1 \text{ ton}}{\text{hr} \times \text{yr} \times 2{,}000 \text{ lb}}$ = 0.36 tpy

[3] Emissions of propane and butane are conservatively estimated by assuming that all component counts are in 100% propane or butane service.

Targa Downstream LLC - Galena Park Terminal
Loading Operation Emissions Calculations

Loading Operation Emissions:

FIN	EPN	Product loaded	Emissions [1] (lbs/disconnect)	Disconnects/hr [1]	Disconnects/year	Flare Efficiency (%)	Hourly Emissions [2] VOC (lb/hr)	Annual emissions [3] VOC (tpy)
FL-1	FL-1	Low Ethane Propane	210.21	1	25	98	4.20	0.05

[1] Maximum hourly emissions estimated by assuming all emissions associated with a single disconnect can be emitted in a single hour.
[2] Hourly emissions (lb/hr) = emissions (lb/disconnect) x No. of disconnects/hr x (1 -flare efficiency %)

$$\text{Hourly VOC emissions from Propane (lb/hr)} = \frac{210.21 \text{ lb}}{\text{disconnect}} \times \frac{1 \text{ disconnect}}{\text{hr}} \times (1-98/100) = 4.2 \text{ lb/hr}$$

[3] Annual emissions (tpy) = emissions (lb/disconnect) x No. of disconnects/yr x (1-flare efficiency %) x 1 ton/2000 lbs

$$\text{Annual VOC emissions from Propane (tpy)} = \frac{210.21 \text{ lb}}{\text{disconnect}} \times \frac{25 \text{ disconnects}}{\text{yr}} \times (1-98/100) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 0.05 \text{ tpy}$$

Emissions Speciations

Component	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Ethane - 56550	0.08	9.98E-04
Ethylene - 55300	--	--
Propane - 56775	4.12	0.05
Propylene - 55600	--	--
Isobutane - 56625	0.02	2.79E-04
n-Butane - 56725	7.57E-03	9.46E-05
Isopentane - 56700	--	--
n-Pentane - 56750	--	--
Other Hexanes + - 50001	--	--
1,3-Butadiene - 55150	--	--

Targa Downstream LLC
Galena Park Terminal
Flare Normal Operation Emissions

Pollutant	Emission Factor[1] (lb/MMBtu)
NO_X	0.1380
CO	0.2755

Gas Stream	Heating Value	Maximum Hourly Flow Rate	Annual Flow Rate
Ethylene	21,640.0 Btu/lb	-- lb/hr	-- lb/yr
Propane	21,520.0 Btu/lb	205.82 lb/hr	5145.42 lb/yr
Propylene	20,872.0 Btu/lb	-- lb/hr	-- lb/yr
Iso-Butane	21,222.4 Btu/lb	1.11 lb/hr	27.85 lb/yr
n-Butane	21,286.0 Btu/lb	0.38 lb/hr	9.46 lb/yr
Iso-Pentane	21,028.2 Btu/lb	-- lb/hr	-- lb/yr
n-Pentane	21,068.7 Btu/lb	-- lb/hr	-- lb/yr
1,3-Butadiene	20,200.8 Btu/lb	-- lb/hr	-- lb/yr
Other Hexanes	24,990.0 Btu/lb	-- lb/hr	-- lb/yr

Gas Stream	Hourly Emission Rates		Annual Emission Rates	
	NO_X (lb/hr)	CO (lb/hr)	NO_X (tpy)	CO (tpy)
Ethylene	--	--	--	--
Propane	0.61	1.22	7.64E-03	0.02
Propylene	--	--	--	--
Iso-Butane	3.26E-03	6.51E-03	4.08E-05	8.14E-05
n-Butane	1.11E-03	2.22E-03	1.39E-05	2.77E-05
Iso-Pentane	--	--	--	--
n-Pentane	--	--	--	--
1,3-Butadiene	--	--	--	--
Other Hexanes	--	--	--	--
Total	0.62	1.23	7.70E-03	0.02

Notes:
[1] Emission factors for NO_X and CO are from TCEQ's *Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers*, October 2000. These factors are for non-steam assisted flares burning high-Btu waste streams (greater than 1,000 Btu/scf).

Targa Downstream LLC - Galena Park Terminal
HEATER EMISSIONS DATA

Heater Units Information

EPN	FIN	UNIT	Projected Actual Heat Rate (MMBtu/hr)	RUNTIME (hr/yr)	FUEL HEAT VALUE (Btu/scf)
H-11	H-11	Regen Heater	17	8,760	1,020
H-13	H-13	Regen Heater	17	8,760	1,020

Projected Actual Emission Rates

EPN	FIN	MAXIMUM HOURLY EMISSIONS					ANNUAL EMISSIONS				
		$PM/PM_{10}/PM_{2.5}$ (lb/hr)	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	VOC (lb/hr)	$PM/PM_{10}/PM_{2.5}$ (tpy)	NO_X (tpy)	CO (tpy)	SO_2 (tpy)	VOC (tpy)
H-11	H-11	1.27E-01	0.68	0.68	1.00E-02	3.23E-01	0.55	2.98	2.98	4.38E-02	1.41
H-13	H-13	1.27E-01	0.68	0.68	1.00E-02	3.23E-01	0.55	2.98	2.98	4.38E-02	1.41

Natural Gas Combustion Emission Factors

Emission Factors [1] (<100 MMBtu/hr Heat Input) (lb/MMscf)					Low NO_X burner data (lb/MMBtu)		
$PM/PM_{10}/PM_{2.5}$ [1]	NO_X	CO	SO_2	VOC	NO_X	CO	VOC
7.6			0.6	5.5	0.04	0.040	0.019

[1] Emission factors based on AP-42 Section 1.4 Tables 1.4-1 & 1.4-2.

[2] Regen Heater CO, NOx and VOC emission factors (ppmv) per manufacturer specifications. Factors are corrected to 3% O2 (dry basis at design heat release).

[3] Emissions factor converted from ppmvd to lb/MMBtu, based on U.S. EPA Modified Method 19 & a mol. weight of

CO	28	lb/lb-mol.
NOx (as NO2)	46.01	lb/lb-mol.
VOC	16.17	lb/lb-mol.

[4] The Fd factor 8710 dscf/MMBtu for natural gas is from U.S. EPA, Method 19, Table 19-2.

[5] Per the ideal gas law at standard conditions, [14.7 (psia) / (10.73 (scf x psia / lb-mol x R) x (68 (°F) + 459.67 R) x 106)] = 2.6E-09 lb-mol/dscf.

[6] CO Emission Factor (lb/MMBTU) = ppmvd x Molecular Weight (lb/lb-mol) x (2.60 lb-mol/dscf) * Fd x [20.9/(20.9 - %O2)]

CO Emission Factor (lb/MMBtu) =	50 ppmvd	28 lb / lb-mol	2.60E-09 lb-mol / dscf	8,710 dscf / MMBtu	20.9 / (20.9 - 3%O2)	=	0.04 lb/MMBtu

[7] Per AP-42 Table 1.4-2, footnote 'a': emission factors converted to the facility heating value by multiplying by the ratio of the fuel specific higher heating value to the average heating value (1,015/1,020).
Emission factors converted from MMscf to MMBtu, based on the facility heating value of 1015 MMBtu/MMscf.

ATTACHMENT 5: GENERAL PBR REQUIREMENTS

This section lists the general requirements for authorization under a PBR with a description of how the Galena Park Terminal will comply with each requirement. Requirements of the specific PBRs claimed in this registration are identified and discussed in Attachment 6 of this registration. A PBR §106.4 checklist is provided in Attachment 10.

REQUIREMENTS FOR PERMITTING BY RULE (30 TAC §106.4) EFFECTIVE APRIL 17, 2014

Pursuant to the Texas Health and Safety Code, Texas Clean Air Act (TCAA), §382.057, the facilities or types of facilities listed in 30 TAC Chapter 106 are exempt from the permitting requirements of the TCAA, §382.0518, because such facilities will not make a significant contribution of air contaminants to the atmosphere. A facility shall meet the following conditions to be exempt from TCAA, §382.0518.

(a) To qualify for a permit by rule, the following general requirements must be met.

(1) Total actual emissions authorized under permit by rule from the facility shall not exceed the following limits, as applicable:

(A) 250 tons per year (tpy) of carbon monoxide (CO) or nitrogen oxides (NO_X);

(B) 25 tpy of volatile organic compounds (VOC), sulfur dioxide (SO_2), or inhalable particulate matter (PM);

(C) 15 tpy of particulate matter with diameters of 10 microns or less (PM_{10});

(D) 10 tpy of particulate matter with diameters of 2.5 microns or less ($PM_{2.5}$); or

(E) 25 tpy of any other air contaminant except:

(i) water, nitrogen, ethane, hydrogen, and oxygen; and

(ii) notwithstanding any provision in any specific permit by rule to the contrary, greenhouse gases as defined in §101.1 of this title (relating to Definitions).

As presented in Attachment 3 and Attachment 4 of this registration, the total emissions from the project will not exceed the emission limitations set forth in this section.

(2) Any facility or group of facilities, which constitutes a new major stationary source, as defined in §116.12 of this title (relating to Nonattainment and Prevention of Significant Deterioration Review Definitions), or any modification which constitutes a major modification, as defined in §116.12 of this title, under the new source review requirements of the Federal Clean Air Act (FCAA), Part D (Nonattainment) as amended by the FCAA Amendments of 1990, and regulations promulgated thereunder, must meet the permitting requirements of Chapter 116, Subchapter B of this title (relating to New Source Review Permits) and cannot qualify for a permit by rule under this chapter. Persons claiming a permit by rule under this chapter should see the requirements of §116.150 of this title (relating to New Major Source or Major Modification in Ozone Nonattainment Areas) to ensure that any applicable netting requirements have been satisfied.

The Galena Park Terminal is located in Harris County, which has been designated as a serious and marginal nonattainment area for the 2008 8-hour and 2015 8-

hour ozone standard, respectively. The Galena Park Terminal is considered an existing major source with respect to NO_X and VOC emissions under the NNSR program. The VOC emissions increases from the project are not above the de minimis test threshold (i.e., emissions are less than 5 tpy). NO_X emissions increases associated with this project are above 5 tpy, and as such, a netting analysis is completed and the net emissions increase is below 25 tpy. Therefore, the facility does not trigger NNSR permitting and may be authorized under PBR provisions.

(3) *Any facility or group of facilities, which constitutes a new major stationary source, as defined in 40 Code of Federal Regulations (CFR) §52.21, or any change which constitutes a major modification, as defined in 40 CFR §52.21, under the new source review requirements of the FCAA, Part C (Prevention of Significant Deterioration) as amended by the FCAA Amendments of 1990, and regulations promulgated thereunder because of emissions of air contaminants other than greenhouse gases, must meet the permitting requirements of Chapter 116, Subchapter B of this title and cannot qualify for a permit by rule under this chapter. Notwithstanding any provision in any specific permit by rule to the contrary, a new major stationary source or major modification which is subject to Chapter 116, Subchapter B, Division 6 of this title due solely to emissions of greenhouse gases may use a permit by rule under this chapter for air contaminants that are not greenhouse gases. However, facilities or projects which require a prevention of significant deterioration permit due to emissions of greenhouse gases may not commence construction or operation until the prevention of significant deterioration permit is issued.*

The Galena Park Terminal is considered a minor source with respect to the PSD program. The affected facility under this PBR authorization does not constitute a new major stationary source or a major modification. Therefore, PSD review is not triggered.

(4) *Unless at least one facility at an account has been subject to public notification and comment as required in Chapter 116, Subchapter B or Subchapter D of this title (relating to New Source Review Permits or Permit Renewals), total actual emissions from all facilities permitted by rule at an account shall not exceed 250 tpy of CO or NO_X ; or 25 tpy of VOC or SO_2 or PM; or 15 tpy of PM_{10} ; or 10 tpy of $PM_{2.5}$; or 25 tpy of any other air contaminant except water, nitrogen, ethane, hydrogen, oxygen, and GHGs (as specified in §106.2 of this title (relating to Applicability)).*

The Galena Park Terminal has gone through public notice as required in Chapter 116, Subchapter B for related case-by-case NSR permits at the site. Therefore, this requirement does not apply. The total emissions from the project are below the emission limits specified in 30 TAC 106.4(a)(1).

(5) *Construction or modification of a facility commenced on or after the effective date of a revision of this section or the effective date of a revision to a specific permit by rule in this chapter must meet the revised requirements to qualify for a permit by rule.*

The Galena Park Terminal meets the requirements under the PBR currently in effect. In the event that the facilities are modified, Targa will re-evaluate the applicability of the PBR in effect at the time of modification.

(6) *A facility shall comply with all applicable provisions of the FCAA, §111 (Federal New Source Performance Standards) and §112 (Hazardous Air Pollutants), and the new source review requirements of the FCAA, Part C and Part D and regulations promulgated thereunder.*

Additional detail on the federal requirements is provided in Attachment 7 of this registration.

(7) *There are no permits under the same commission account number that contain a condition or conditions precluding the use of a permit by rule under this chapter.*

The Galena Park Terminal has no TCEQ permits that preclude the use of a PBR under this chapter.

(8) *The proposed facility or group of facilities shall obtain allowances for NO_X if they are subject to Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program).*

The Galena Park Terminal is located in the Houston-Galveston-Brazoria nonattainment area. The project does not include an increase of NO_X emissions. Therefore, the project is not subject to the requirements of 30 TAC Chapter 101, Subchapter H, Division 3.

(b) *No person shall circumvent by artificial limitations the requirements of §116.110 of this title (relating to Applicability).*

The affected facilities meet all the requirements of Chapter 106; therefore, a state permit is not required, and the requirements of 116.110 will not be circumvented.

(c) *The emissions from the facility shall comply with all rules and regulations of the commission and with the intent of the Texas Clean Air Act (TCAA), including protection of health and property of the public, and all emissions control equipment shall be maintained in good condition and operated properly during operation of the facility.*

Targa will be in compliance with the rules and regulations of the TCAA. In addition, compliance with the requirements of 30 TAC Chapter 106 ensures protection of health and property of the public.

(d) *Facilities permitted by rule under this chapter are not exempted from any permits or registrations required by local air pollution control agencies. Any such requirements must be in accordance with TCAA, §382.113 and any other applicable law.*

The Galena Park Terminal will comply with all applicable requirements defined by the Harris County Pollution Control Services Department and City of Houston.

REQUIREMENTS FOR RECORDKEEPING (30 TAC §106.8) EFFECTIVE NOVEMBER 1, 2001

(a) *Owners or operators of facilities and sources that are de minimis as designated in §116.119 of this title (relating to De Minimis Facilities or Sources) are not subject to this section.*

The equipment and activities covered in this registration are not *de minimis* facilities and are subject to the requirements of this section.

(b) Owners or operators of facilities operating under a permit by rule (PBR) in Subchapter C of this chapter (relating to Domestic and Comfort Heating and Cooling) or under those PBRs that only name the type of facility and impose no other conditions in the PBR itself do not need to comply with specific recordkeeping requirements of subsection (c) of this section. A list of these PBRs will be available through the commission's Austin central office, regional offices, and the commission's website. Upon request from the commission or any air pollution control program having jurisdiction, claimants must provide information that would demonstrate compliance with §106.4 of this title (relating to Requirements for Permitting by Rule), or the general requirements, if any, in effect at the time of the claim, and the PBR under which the facility is authorized.

Targa is not requesting authorization of activities under PBRs that only name the type of facility and impose no other conditions; therefore, this section does not apply.

(c) Owners or operators of all other facilities authorized to be constructed and operate under a PBR must retain records as follows:

(1) maintain a copy of each PBR and the applicable general conditions of §106.4 of this title or the general requirements, if any, in effect at the time of the claim under which the facility is operating. The PBR and general requirements claimed should be the version in effect at the time of construction or installation or changes to an existing facility, whichever is most recent. The PBR holder may elect to comply with a more recent version of the applicable PBR and general requirements;

Targa will maintain copies of the PBRs claimed in this registration, including a copy of the general conditions of 30 TAC §106.4, as required by this provision. The PBRs claimed are the most recent versions as of the date of this document.

(2) maintain records containing sufficient information to demonstrate compliance with the following: all applicable general requirements of §106.4 of this title or the general requirements, if any, in effect at the time of the claim; and all applicable PBR conditions;

Targa will maintain records containing sufficient information to demonstrate compliance with the general requirements of 30 TAC §106.4 and the conditions of the specific PBRs claimed.

(3) keep all required records at the facility site. If however, the facility normally operates unattended, records must be maintained at an office within Texas having day-to-day operational control of the plant site;

Targa will maintain all records needed to demonstrate compliance with this section at the Galena Park Terminal.

(4) make the records available in a reviewable format at the request of personnel from the commission or any air pollution control program having jurisdiction;

Targa will maintain records in a reviewable format and will make them available to the TCEQ or any other air pollution control program having jurisdiction upon request.

(5) *beginning April 1, 2002, keep records to support a compliance demonstration for any consecutive 12-month period. Unless specifically required by a PBR, records regarding the quantity of air contaminants emitted by a facility to demonstrate compliance with §106.4 of this title prior to April 1, 2002 are not required under this section; and*

As required, Targa will maintain records to support a compliance demonstration for any consecutive 12-month period.

(6) *for facilities located at sites designated as major in accordance with §122.10(13) of this title (relating to General Definitions) or subject to or potentially subject to any applicable federal requirement, retain all records demonstrating compliance for at least five years. For facilities located at all other sites, all records demonstrating compliance must be retained for at least two years. These record retention requirements supersede any retention conditions of an individual PBR.*

Targa will maintain records for a period of at least five years.

ATTACHMENT 6: SPECIFIC PBR REQUIREMENTS

Targa is proposing to authorize fugitive components installed during calendar year 2021 at the Galena Park Terminal under PBRs §106.261 and §106.262. This attachment identifies the applicable requirements of the PBRs being claimed and how the Galena Park Terminal will comply with each requirement. General requirements for authorization under a PBR are discussed in Attachment 5 of this registration. The 106.261/262 workbook for this project is included in the STEERS submittal.

REQUIREMENTS FOR FACILITIES (EMISSION LIMITATIONS) (30 TAC §106.261) EFFECTIVE NOVEMBER 1, 2003

(a) *Except as specified under subsection (b) of this section, facilities, or physical or operational changes to a facility, are permitted by rule provided that all of the following conditions of this section are satisfied.*

(1) *The facilities or changes shall be located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located.*

The facilities are located at least 100 feet from any off-property recreational area, residence, or other structure not occupied or used solely by the Galena Park Terminal.

(2) *Total new or increased emissions, including fugitives, shall not exceed 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials: acetylene, argon, butane, crude oil, refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene, carbon monoxide, cyclohexane, cyclohexene, cyclopentane, ethyl acetate, ethanol, ethyl ether, ethylene, fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116, helium, isohexane, isopropyl alcohol, methyl acetylene, methyl chloroform, methyl cyclohexane, neon, nonane, oxides of nitrogen, propane, propyl alcohol, propylene, propyl ether, sulfur dioxide, alumina, calcium carbonate, calcium silicate, cellulose fiber, cement dust, emery dust, glycerin mist, gypsum, iron oxide dust, kaolin, limestone, magnesite, marble, pentaerythritol, plaster of paris, silicon, silicon carbide, starch, sucrose, zinc stearate, or zinc oxide.*

The following contaminants from the list above are emitted as a result of this project at the Galena Park Terminal:

- **Carbon monoxide;**
- **Nitrogen dioxide;**
- **Propane; and**
- **Butane.**

The emissions from these contaminants do not exceed 6.0 pounds per hour (lb/hr) or 10 tpy. Please refer to Attachment 4 for the specific chemicals and associated emissions.

(3) *Total new or increased emissions, including fugitives, shall not exceed 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of §106.262 of this title (relating to Facilities (Emission and Distance Limitations)) or of any other chemical not listed or referenced in Table 262. Emissions of a chemical with a limit value of less than 200 mg/m^3 are not allowed under this section.*

Targa understands that emissions of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of 30 TAC §106.262 or of any other chemical not listed or referenced in Table 262 is not to exceed 1 lb/hr. This project does not emit any chemicals that meet this criteria. Targa proposes to authorize all other contaminants under §106.262. This requirement does not apply to those emissions authorized directly under PBR §106.262.

(4) *For physical changes or modifications to existing facilities, there shall be no changes to or additions of any air pollution abatement equipment.*

The project does not involve physical changes to or additions of any air pollution abatement equipment to existing facilities.

(5) *Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.*

Targa understands that visible emissions from any point and fugitive sources are limited to 5.0% opacity in any six-minute averaging period.

(6) *For emission increases of five tons per year or greater, notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any.*

The total emissions authorized under this section are less than five (5) tpy. Therefore, this section does not apply.

(7) *For emission increases of less than five tons per year, notification must be provided using either:*

(A) *Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any; or*

(B) *Form PI-7 by March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year. This annual notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any.*

The total emissions authorized under this section are less than five (5) tpy. Targa is submitting this PBR registration within ten days of installation or modification of the facilities.

(b) *The following are not authorized under this section:*

(1) *construction of a facility authorized in another section of this chapter or for which a standard permit is in effect; and*

(2) *any change to any facility authorized under another section of this chapter or authorized under a standard permit.*

The proposed project sources are not authorized in another section of this chapter or for which a standard permit is in effect.

REQUIREMENTS FOR FACILITIES (EMISSION AND DISTANCE LIMITATIONS) (30 TAC §106.262) EFFECTIVE NOVEMBER 1, 2003

(a) *Facilities, or physical or operational changes to a facility, are permitted by rule provided that all of the following conditions of this section are satisfied.*

(1) *Emission points associated with the facilities or changes shall be located at least 100 feet from any off-plant receptor. Off-plant receptor means any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located.*

The location of the project emission sources is at least 100 feet from the closest off-property recreational area, residence, or other structure not occupied or used solely by the Galena Park Terminal.

(2) *New or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation E = L/K and the following table.*

D, Feet	K	
100	326	E = maximum allowable hourly emission, and
200	200	never to exceed 6 pounds per hour.
300	139	
400	104	
500	81	L = value as listed or referenced in Table 262
600	65	
700	54	
800	46	K = value from the table on this page.
900	39	(interpolate intermediate values)
1,000	34	
2,000	14	D = distance to the nearest off-plant receptor.
3,000 or more	8	

TABLE 262

LIMIT VALUES (L) FOR USE WITH EXEMPTIONS FROM PERMITTING §106.262

The values are not to be interpreted as acceptable health effects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for New Construction or Modification).

Compound	*Limit (L) Milligrams Per Cubic Meter*
Acetone	*590.*
Acetaldehyde	*9.*
Acetone Cyanohydrin	*4.*
Acetonitrile	*34.*
Acetylene	*2662.*
N-Amyl Acetate	*2.7*
Sec-Amyl Acetate	*1.1*
Benzene	*3.*
Beryllium and Compounds	*0.0005*
Boron Trifluoride, as HF	*0.5*
Butyl Alcohol, -	*76.*
Butyl Acrylate	*19.*
Butyl Chromate	*0.01*
Butyl Glycidyl Ether	*30.*
Butyl Mercaptan	*0.3*
Butyraldehyde	*1.4*
Butyric Acid	*1.8*
Butyronitrile	*22.*
Carbon Tetrachloride	*12.*
Chloroform	*10.*
Chlorophenol	*0.2*
Chloroprene	*3.6*
Chromic Acid	*0.01*
Chromium Metal, Chromium II and III Compounds	*0.1*
Chromium VI Compounds	*0.01*
Coal Tar Pitch Volatiles	*0.1*
Creosote	*0.1*
Cresol	*0.5*
Cumene	*50.*
Dicyclopentadiene	*3.1*
Diethylaminoethanol	*5.5*
Diisobutyl Ketone	*63.9*
Dimethyl Aniline	*6.4*
Dioxane	*3.6*
Dipropylamine	*8.4*
Ethyl Acrylate	*0.5*
Ethylene Dibromide	*0.38*
Ethylene Glycol	*26.*
Ethylene Glycol Dinitrate	*0.1*
Ethylidene-2-norbornene, 5-	*7.*

Compound	Limit (L) Milligrams Per Cubic Meter
Ethyl Mercaptan	*0.08*
Ethyl Sulfide	*1.6*
Glycolonitrile	*5.*
Halothane	*16*
Heptane	*350*
Hexanediamine, 1,6-	*0.32*
Hydrogen Chloride	*1.*
Hydrogen Fluoride	*0.5*
Hydrogen Sulfide	*1.1*
Isoamyl Acetate	*133.*
Isoamyl Alcohol	*15.*
Isobutyronitrile	*22.*
Kepone	*0.001*
Kerosene	*100.*
Malononitrile	*8.*
Mesityl Oxide	*40.*
Methyl Acrylate	*5.8*
Methyl Amyl Ketone	*9.4*
Methyl-t-butyl ether	*45.*
Methyl Butyl Ketone	*4.*
Methyl Disulfide	*2.2*
Methylenebis (2-chloroaniline) (MOCA)	*0.003*
Methylene Chloride	*26.*
Methyl Isoamyl Ketone	*5.6*
Methyl Mercaptan	*0.2*
Methyl Methacrylate	*34.*
Methyl Propyl Ketone	*530.*
Methyl Sulfide	*0.3*
Mineral Spirits	*350.*
Naphtha	*350.*
Nickel, Inorganic Compounds	*0.015*
Nitroglycerine	*0.1*
Nitropropane	*5.*
Octane	*350.*
Parathion	*0.05*
Pentane	*350.*
Perchloroethylene	*33.5*
Petroleum Ether	*350*
Phenyl Mercaptan	*0.4*
Propionitrile	*14.*
Propyl Acetate	*62.6*
Propylene Oxide	*20.*
Propyl Mercaptan	*0.23*
Silica-amorphous-precipitated, silica gel	*4.*
Silicon Carbide	*4.*

Compound	*Limit (L) Milligrams Per Cubic Meter*
Stoddard Solvent	*350.*
Styrene	*21.*
Succinonitrile	*20.*
Tolidine	*0.02*
Trichloroethylene	*135.*
Trimethylamine	*0.1*
Valeric Acid	*0.34*
Vinyl Acetate	*15.*
Vinyl Chloride	*2.*

NOTE: The time weighted average (TWA) Threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs guide (1997 Edition) shall be used for compounds not included in the table. The Short Term Exposure Level (STEL) or Ceiling Limit (annotated with a "C") published by the ACGIH shall be used for compounds that do not have a published TWA TLV. This section cannot be used if the compound is not listed in the table or does not have a published TWA TLV, STEL, or Ceiling Limit in the ACGIH TLVs and BEIs guide.

The Galena Park Terminal has compared the contaminants emitted from the project to the list of compounds contained in Figure 2: 30 TAC §106.262(a)(2), as well as to the compounds included in the *ACGIH TLVs and BEIs guide (1997 Edition).*[6] Emissions to be authorized under §106.262 do not exceed the respective "E" determined in the equation "E = L/K" or six (6) lb/hr and five (5) tpy, as documented in Attachment 4, whichever is lower.

(3) Notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, D values, and a description of pollution control equipment, if any.

This registration is being submitted to authorize an increase in throughput capacity for LEP 1 and LEP2 at the Galena Park Terminal under PBR and includes the following items:

- **Emissions Calculations (Attachment 3 and Attachment 4);**
- **Identification of the emitted compounds (Attachment 4); and**
- **Applicable limit values (Attachment 4).**

(4) The facilities in which the following chemicals will be handled shall be located at least 300 feet from the nearest property line and 600 feet from any off-plant receptor and the cumulative amount of any of the following chemicals resulting from one or more authorizations under this section (but not including permit authorizations) shall not exceed 500 pounds on the plant property and all listed chemicals shall be handled only in unheated containers operated in compliance with the United States Department of Transportation regulations (49 Code of

[6] American Conference of Governmental Industrial Hygienists, TLVs and BEIs Guide, 1997 Edition.

Federal Regulations, Parts 171-178): acrolein, allyl chloride, ammonia (anhydrous), arsine, boron trifluoride, bromine, carbon disulfide, chlorine, chlorine dioxide, chlorine trifluoride, chloroacetaldehyde, chloropicrin, chloroprene, diazomethane, diborane, diglycidyl ether, dimethylhydrazine, ethyleneimine, ethyl mercaptan, fluorine, formaldehyde (anhydrous), hydrogen bromide, hydrogen chloride, hydrogen cyanide, hydrogen fluoride, hydrogen selenide, hydrogen sulfide, ketene, methylamine, methyl bromide, methyl hydrazine, methyl isocyanate, methyl mercaptan, nickel carbonyl, nitric acid, nitric oxide, nitrogen dioxide, oxygen difluoride, ozone, pentaborane, perchloromethyl mercaptan, perchloryl fluoride, phosgene, phosphine, phosphorus trichloride, selenium hexafluoride, stibine, liquified sulfur dioxide, sulfur pentafluoride, and tellurium hexafluoride. Containers of these chemicals may not be vented or opened directly to the atmosphere at any time.

The proposed project sources at the Targa Galena Park Terminal do not emit any of the pollutants listed in this citation; therefore, this requirement does not apply.

(5) *For physical changes or modifications to existing facilities, there shall be no changes or additions of air pollution abatement equipment.*

The project does not involve physical changes to or additions of air pollution abatement equipment.

(6) *Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.*

Visible emissions from the facilities affected by this PBR registration will not exceed five percent (5.0%) opacity in any six-minute period.

(b) *The following are not authorized under this section except as noted in subsection (c) of this section:*

(1) *construction of a facility authorized in another section of this chapter or for which a standard permit is in effect; and*

(2) *any change to any facility authorized under another section of this chapter or authorized under a standard permit.*

None of the facilities associated with this PBR are authorized under another section of Chapter 106 or standard permit.

(c) *If a facility has been authorized under another section of this chapter or under a standard permit, subsection (a)(2) and (3) of this section may be used to qualify the use of other chemicals at the facility.*

None of the existing equipment associated with this PBR are authorized under another section of Chapter 106 or standard permit; therefore, this section does not apply and this authorization can be used.

§106.261/262 EMISSION LIMITS EVALUATION
TARGA DOWNSTREAM LLC
FACILITY: GALENA PARK TERMINAL

§106.261/262 Emission Limits Evaluation

Compounds	Loading Emissions from Flare (FL-1) lb/hr	Loading Emissions from Flare (FL-1) tpy	Fugitive Emissions (FUG-PURITY1) lb/hr	Fugitive Emissions (FUG-PURITY1) tpy	Proposed Worst-Case Emissions [1] lb/hr	Proposed Worst-Case Emissions [1] tpy	PBR Claimed	Listed in 106.261(a)(2)?	L = 106.262 Limit or TLV TWA [2] (mg/m^3)	Maximum Short-term Limit (E) [3] (lb/hr)	Annual Limit [4] (tpy)	Hourly Emissions Increases < E (lb/hr)?	Annual Emissions Increases < Limit (tpy)?
Carbon Monoxide	1.2290	0.0154			1.2290	0.0154	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
Oxides of Nitrogen	0.6156	0.0077			0.6156	0.0077	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
Ethane	0.0799	0.0010	0.0033	0.0146	0.0832	0.0156	106.261(a)(3)	No	--	1.00	4.38	Yes	Yes
Ethylene	--	--	--	--	--	--	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
Propane	4.1163	0.0515	0.1718	0.7525	4.2881	0.8039	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
Propylene	--	--	--	--	--	--	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
Iso-butane	0.0223	0.0003	0.0050	0.0220	0.2052	0.7684	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
Normal-Butane	0.0076	<0.0001	0.1703	0.7461			106.261(a)(2)						
Butenes					--	--	106.261(a)(3)	No	--	1.00	4.38	Yes	Yes
Isopentane	--	--	0.0005	0.0023	0.0013	0.0058	106.262(a)(2)	No	350	2.52	5.00	Yes	Yes
n-Pentane	--	--	0.0008	0.0034			106.262(a)(2)	No					
n-Hexane					--	--	106.262(a)(2)	No	176	1.27	5.00	Yes	Yes
Benzene					--	--	106.262(a)(2)	No	3	0.02	0.09	Yes	Yes
Toluene					--	--	106.262(a)(2)	No	188	1.35	5.00	Yes	Yes
Ethylbenzene					--	--	106.262(a)(2)	No	434	3.12	5.00	Yes	Yes
Xylenes-u					--	--	106.262(a)(2)	No	434	3.12	5.00	Yes	Yes
Cyclohexane					--	--	106.261(a)(2)	Yes	--	6.00	10.00	Yes	Yes
1,3-Butadiene	--	--	--	--	--	--	106.262(a)(2)	No	4.4	0.0317	0.14	Yes	Yes
Other Hexanes +	--	--	--	--	--	--	106.262(a)(2)	No	1760	6.00	5.00	Yes	Yes

[1] The proposed worst-case hourly and annual emissions include the emissions increases from the FL-1 by adding the new Dock 2B and 4B emissions plus the addition of the Dock 2B and Dock 4B fugitives.

[2] Limit values (L) per Table 262 or the time weighted average (TWA) Threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs guide (1997 Edition).

[3] Maximum Short-term Emission Limit (E) = *6 lb/hr* *Per 106.261(a)(2), total new or increased emissions, including fugitives, shall not exceed 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials: acetylene, argon, **butane**, crude oil, refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene, **carbon monoxide, cyclohexane**, cyclohexene, cyclopentane, ethyl acetate, ethanol, ethyl ether, **ethylene**, fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116, helium, isohexane, isopropyl alcohol, methyl acetylene, methyl chloroform, methyl cyclohexane, neon, nonane, **oxides of nitrogen**, **propane**, propyl alcohol, **propylene**, propyl ether, sulfur dioxide, alumina, calcium carbonate, calcium silicate, cellulose fiber, cement dust, emery dust, glycerin mist, gypsum, iron oxide dust, kaolin, limestone, magnesite, marble, pentaerythritol, plaster of paris, silicon, silicon carbide, starch, sucrose, zinc stearate, or zinc oxide.*

OR *1.0 lb/hr* *Per 106.261(a)(3), total new or increased emissions, including fugitives, shall not exceed 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of §106.262 of this title (relating to Facilities (Emission and Distance Limitations)) or of any other chemical not listed or referenced in Table 262.*

OR *L/K* *Per 106.262(a)(2), new or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation E = L/K and Table 262.*

where: *L = See footnote 1*
K = *139.00* *Based on distance to off-property receptor of* *300.00* *ft*
E=

[4] Maximum Annual Limit (tpy) = *10 tpy* *Per 106.261(a)(2) for listed chemicals*
4.38 tpy *Per 106.261(a)(3) for chemicals using equation E = L/K*

ATTACHMENT 7: STATE AND FEDERAL APPLICABILITY REVIEW

This attachment summarizes the state and federal applicable requirements for the project at the Galena Park Terminal.

STATE REQUIREMENTS REVIEW

- 30 TAC Chapter 115 – Control of Air Pollution from Volatile Organic Compounds
  - Targa will comply with all requirements of 30 Chapter 115, Subchapter D, Division 3 and Subchapter H, Division 3, as applicable to fugitive emissions.
  - None of the product streams noted within this registration are subject to the requirements within 30 TAC Chapter 115, Subchapter H, Division 3 since they contain less than 5 percent of HRVOCs. Per 30 TAC §115.787(a), process fluids containing less than 5.0% HRVOCs by weight on an annual average basis are exempt from the requirements of this division except for recordkeeping requirements (i.e., 30 TAC §115.786(e) and (g)).

FEDERAL REQUIREMENTS REVIEW

- NSPS Subpart A – General Provisions
  - Any source subject to a source-specific NSPS is also subject to the general provisions of NSPS Subpart A. Unless specifically excluded by the source-specific NSPS, Subpart A generally requires initial construction notification, initial startup notification, performance tests, performance test date initial notification, general monitoring requirements, general recordkeeping requirements, and semiannual monitoring and/or excess emission reports. Since this project is not subject to any applicable NSPS Subpart, NSPS Subpart A is not applicable to this particular project at the Galena Park Terminal.

- NSPS Subpart OOOO – Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution
  - NSPS OOOO applies to emission sources constructed, reconstructed, or modified after August 23, 2011 and on or before September 18, 2015, which operate in crude oil and natural gas production, transmission, and distribution facilities that are HAP major or HAP area sources. The Galena Park Terminal serves as a shipping and receiving facility and does not meet the definition of a natural gas processing plant. Therefore, the fugitive components are not subject to NSPS OOOO requirements

- NSPS Subpart OOOOa – Standards of Performance for Crude Oil and Natural Gas Facilities
  - NSPS OOOOa applies to emission sources constructed, reconstructed, or modified after September 18, 2015, which operate in crude oil and natural gas production, transmission, and distribution facilities that are HAP major or HAP area sources. Per 40 CFR §60.5430a, fugitive emissions components include any component (e.g., valves, connectors, etc.) that has the potential to emit emissions of methane or VOC at a well site or compressor station. The Galena Park Terminal serves as a shipping and receiving facility and does not meet the definition of a well site or compressor station. Furthermore, the Terminal does not meet the definition of a natural gas processing plant. Therefore, the fugitive components are not subject to NSPS OOOOa requirements.

- MACT Subpart A – General Provisions
  - Any source subject to a source-specific National Emission Standards for Hazardous Air Pollutants (NESHAP) is also subject to the general provisions of NESHAP Subpart A. Unless specifically excluded by the source-specific NESHAP, Subpart A generally requires initial construction

notification, initial startup notification, performance tests, performance test date initial notification, general monitoring requirements, general recordkeeping requirements, and semiannual monitoring and/or excess emission reports. The Galena Park Marine Terminal is a major source of HAPs. However, since the emission source affected by this project is not subject to any applicable MACT Subpart, MACT Subpart A is not applicable to this particular project at the Galena Park Terminal.

ATTACHMENT 8: NNSR AND PSD APPLICABILITY REVIEW

Under United States (U.S.) Environmental Protection Agency (EPA) and TCEQ rules, sites located in areas that are designated in attainment of the National Ambient Air Quality Standards (NAAQS) for a criteria pollutant are potentially regulated under the PSD program if they are considered major sources. Major source thresholds are defined in 40 CFR §52.21(b)(1)(i). The Galena Park Terminal is considered an existing minor source under PSD.

The facility is located in Harris County, which has been designated as a serious nonattainment area for the 2008 8-hour ozone standard and marginal nonattainment area for the 2015 8-hour ozone standard. VOC and NO_X are considered to be precursors to ground-level ozone formation; therefore, NNSR review is required if a modification of an existing major source results in a significant net emission rate increase of a regulated pollutant. The Galena Park Terminal is classified as an existing major source under NNSR for NO_X and VOC.

The following sections describe the PSD and NNSR applicability analysis for the addition of fugitive components.

PSD APPLICABILITY

The Galena Park Terminal is an existing minor source with respect to criteria pollutants under the PSD program. The project emission increases are below the major source thresholds. Therefore, PSD permitting is not required.

NNSR APPLICABILITY

The Galena Park Terminal is an existing major source under the NNSR program with respect to NO_X and VOC emissions. NNSR applicability is determined based on the increase in emissions of NO_X and VOCs from the project. The increase in VOC emissions are less than the *de minimis* threshold test (i.e., emissions are less than five [5] tpy); therefore, NNSR permitting is not required. The NO_X emissions increases associated with this project are greater than 5 tpy; therefore, a netting analysis was completed. The net project increases are less than 25 tpy; therefore, the project does not trigger NNSR permitting.

Targa Midstream Services LLC - Mont Belvieu Plant
PSD & NNSR Summary

PSD Applicability Analysis

FIN	EPN	Description	Status	Emissions Increases for Project-Affected Sources (tpy)							
				CO	NO_2	VOC	PM	PM_{10}	$PM_{2.5}$	H_2S	SO_2
H-11	H-11	Regen Heater	Increased heat rate	2.97	2.83	1.32	0.42	0.42	0.42	-	0.03
H-13	H-13	Regen Heater	Increased heat rate	2.42	2.87	1.15	0.45	0.45	0.45	-	0.04
FUG-PURITY1	FUG-PURITY1	Fugitives	New Components	-	-	1.54	-	-	-	-	-
FL-1	FL-1	Loading	Increased loading	0.02	7.70E-03	0.05	-	-	-	-	-
			Total Project Emissions Increase	5.41	5.70	4.06	0.87	0.87	0.87	0.00E+00	0.07
			PSD Significant Emission Rate	100	40	40	25	15	10	10	40
			PSD Netting Analysis Needed (Yes/No)?	No	No	No	No	No	No	No	No

NNSR Applicability Analysis

Pollutant	LEP Debottleneck Project		Net Emissions Increase (tpy) [1]	NNSR Threshold	NNSR Review?
	Total Project Emissions Increases (tpy)	Above 5 tpy Netting Threshold?			
VOC	4.06	No	N/A	25	No
NO_x	5.70	Yes	9.70	25	No

[1] The net emission increase is based on the sum of the creditable increase and decrease column of Table 3F.

TABLE 2F
PROJECT EMISSION INCREASE

Pollutant[1]: VOC	**Permit:** 5414
Baseline Period: 2019 to 2020	

	Affected or Modified Facilities [2]		Permit No.	Actual Emissions[3]	Baseline Emissions [4]		Proposed Emissions [5]	Projected Actual Emissions	Difference (B-A) [6]	Correction [7]	Project Increase [8]
	FIN	EPN									
					A		B				
1.	H-11	H-11	5414	0.10	2019-2020	0.10		1.41	1.32		1.32
2.	H-13	H-13	5414	0.26	2019-2020	0.26		1.41	1.15		1.15
3.	FUG-PURITY1	FUG-PURITY1	5414	0.00	2019-2020	0.00	1.54		1.54		1.54
4.	FL-1	FL-1	5414	0.00	2019-2020	0.00	0.05		0.05		0.05
									Page Subtotal [9]		4.06

1 Individual Table 2F's should be used to summarize the project emission increase for each criteria pollutant

2 Emission Point Number as designated in NSR Permit or Emissions Inventory

3 All records and calculations for these values must be available upon request

4 Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement

5 If projected actual emission is used it must be noted in the next column and the basis for the projection identified in the Table 2F supplement

6 Proposed Emissions (column B) minus Baseline Emissions (column A)

7 Correction made to emission increase for what portion could have been accommodated during the baseline period. The justification and basis for this estimate must be provided in the Table 2F supplement

8 Obtained by subtracting the correction from the difference. Must be a positive number.

9 Sum all values for this page.

TABLE 2F
PROJECT EMISSION INCREASE

Pollutant[1]: CO	**Permit:** 5414
Baseline Period: 2019 to 2020	

	Affected or Modified Facilities [2]		Permit No.	Actual Emissions[3]	Baseline Emissions [4]		Proposed Emissions [5]	Projected Actual Emissions	Difference (B-A) [6]	Correction [7]	Project Increase [8]
	FIN	EPN									
					A		B				
1.	H-11	H-11	5414	0.00	2019-2020	0.00		2.98	2.97		2.97
2.	H-13	H-13	5414	0.56	2019-2020	0.56		2.98	2.42		2.42
3.	FL-1	FL-1	5414	0.00	2019-2020	0.00	0.02		0.02		0.02
									Page Subtotal [9]		5.41

1 Individual Table 2F's should be used to summarize the project emission increase for each criteria pollutant

2 Emission Point Number as designated in NSR Permit or Emissions Inventory

3 All records and calculations for these values must be available upon request

4 Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement

5 If projected actual emission is used it must be noted in the next column and the basis for the projection identified in the Table 2F supplement

6 Proposed Emissions (column B) minus Baseline Emissions (column A)

7 Correction made to emission increase for what portion could have been accommodated during the baseline period. The justification and basis for this estimate must be provided in the Table 2F supplement

8 Obtained by subtracting the correction from the difference. Must be a positive number.

9 Sum all values for this page.

TABLE 2F
PROJECT EMISSION INCREASE

Pollutant[1]: NO_X	**Permit:** 5414
Baseline Period: 2019 to 2020	

	Affected or Modified Facilities [2]		Permit No.	Actual Emissions[3]	Baseline Emissions [4]		Proposed Emissions [5]	Projected Actual Emissions	Difference (B-A) [6]	Correction [7]	Project Increase [8]
	FIN	EPN									
					A		B				
1.	H-11	H-11	5414	0.15	2019-2020	0.15		2.98	2.83		2.83
2.	H-13	H-13	5414	0.11	2019-2020	0.11		2.98	2.87		2.87
3.	FL-1	FL-1	5414	0.00	2019-2020	0.00	0.01		0.01		0.01
									Page Subtotal [9]		5.70

1 Individual Table 2F's should be used to summarize the project emission increase for each criteria pollutant

2 Emission Point Number as designated in NSR Permit or Emissions Inventory

3 All records and calculations for these values must be available upon request

4 Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement

5 If projected actual emission is used it must be noted in the next column and the basis for the projection identified in the Table 2F supplement

6 Proposed Emissions (column B) minus Baseline Emissions (column A)

7 Correction made to emission increase for what portion could have been accommodated during the baseline period. The justification and basis for this estimate must be provided in the Table 2F supplement

8 Obtained by subtracting the correction from the difference. Must be a positive number.

9 Sum all values for this page.

TABLE 2F
PROJECT EMISSION INCREASE

Pollutant[1]: SO_2	**Permit:** 5414
Baseline Period: 2019 to 2020	

					A		B				
Affected or Modified Facilities [2]			**Permit No.**	**Actual Emissions[3]**	**Baseline Emissions [4]**		**Proposed Emissions [5]**	**Projected Actual Emissions**	**Difference (B-A) [6]**	**Correction [7]**	**Project Increase [8]**
	FIN	**EPN**									
1.	H-11	H-11	5414	0.01	2019-2020	0.01		0.04	0.03		0.03
2.	H-13	H-13	5414	0.01	2019-2020	0.01		0.04	0.04		0.04
									Page Subtotal [9]		0.07

1 Individual Table 2F's should be used to summarize the project emission increase for each criteria pollutant

2 Emission Point Number as designated in NSR Permit or Emissions Inventory

3 All records and calculations for these values must be available upon request

4 Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement

5 If projected actual emission is used it must be noted in the next column and the basis for the projection identified in the Table 2F supplement

6 Proposed Emissions (column B) minus Baseline Emissions (column A)

7 Correction made to emission increase for what portion could have been accommodated during the baseline period. The justification and basis for this estimate must be provided in the Table 2F supplement

8 Obtained by subtracting the correction from the difference. Must be a positive number.

9 Sum all values for this page.

TABLE 2F
PROJECT EMISSION INCREASE

Pollutant[1]: PM/PM_{10}/$PM_{2.5}$	**Permit:** 5414
Baseline Period: 2019 to 2020	

	Affected or Modified Facilities [2]		Permit No.	Actual Emissions[3]	Baseline Emissions [4]		Proposed Emissions [5]	Projected Actual Emissions	Difference (B-A) [6]	Correction [7]	Project Increase [8]
	FIN	EPN									
					A		B				
1.	H-11	H-11	5414	0.13	2019-2020	0.13		0.55	0.42		0.42
2.	H-13	H-13	5414	0.11	2019-2020	0.11		0.55	0.45		0.45
									Page Subtotal [9]		0.87

1 Individual Table 2F's should be used to summarize the project emission increase for each criteria pollutant

2 Emission Point Number as designated in NSR Permit or Emissions Inventory

3 All records and calculations for these values must be available upon request

4 Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement

5 If projected actual emission is used it must be noted in the next column and the basis for the projection identified in the Table 2F supplement

6 Proposed Emissions (column B) minus Baseline Emissions (column A)

7 Correction made to emission increase for what portion could have been accommodated during the baseline period. The justification and basis for this estimate must be provided in the Table 2F supplement

8 Obtained by subtracting the correction from the difference. Must be a positive number.

9 Sum all values for this page.

TABLE 3F
PROJECT CONTEMPORANEOUS CHANGES[1]

Company:	**Targa Downstream LLC**
Permit Application Number:	**Criteria Pollutant:** NO_X

Facility Where Change Occured[3]				Permit No.	Permit Action	Project Name or Activity	Baseline Period	B	A	Difference (A-B)[5]	Creditable Decrease or Increase[6]
#	Project Date[2]	FIN	EPN					Baseline Emissions (tons/year)	Proposed Emissions (tons/year)		
5	04/01/17	FL-3	FL-3	146939	PCP SP	Replacement of Flare (FL-3C)		0.213	0.298	0.09	0.09
1	06/23/17	MSSTANK FL-1/TO	MSSTANK FL-1/TO	139811	PBR 263	MSS Update			1.110	1.11	1.11
2	05/10/18	FL-1	FL-1	146939	PCP SP	Temp. Flare Replacement (FL-1)			0.010	0.01	0.01
3	06/07/18	FL-1	FL-1	151509	PBR 261/262	Dock 2 loading arms			-	-	-
4	06/01/18	FL-3	FL-3	146939	PCP SP	Addition of Natural gasoline W-20			0.310	0.31	0.31
5	10/05/18	H-13	H-13	153250	PBR	LEP-3			3.700	3.70	3.70
6	10/05/18	FL-1	FL-1	153250	PBR	LEP-3			0.030	0.03	0.03
7	10/05/18	FL-1	FL-1	153250	PBR	LEP-3			0.010	0.01	0.01
8	11/12/18	H-02	H-02	5414	Permit Alteration	H-02 removal	2007-2008	-	-	-	-
9	11/12/18	H-03	H-03	5414	Permit Alteration	H-03 removal	2007-2008	0.164	-	(0.16)	(0.16)
10	11/12/18	H-04	H-04	5414	Permit Alteration	H-04 removal	2007-2008	0.269	-	(0.27)	(0.27)
11	08/13/19	FL-1	FL-1	158048	PBR 261	Moisture Analyzers			0.070	0.07	0.07
12	12/01/19	FL-1	FL-1	159227	PBR 261/262, 263,	Butane Dehydration system			0.010	0.01	0.01
13	04/22/20	FL-TEMP	FL-TEMP	161043	PBR 492/263	LEP-3 tie-ins			0.010	0.01	0.01
14	04/22/20	FL-1	FL-1	161043	PBR 492/263	LEP-3 tie-ins			0.010	0.01	0.01
15	01/12/21	FL-1	FL-1	163654	PBR 106.264	Replacement of Dock 4 and Dock 5 Loading			0.000	0.00	0.00
16	3/19/2021	W-12	FL-1	5414	SB1126	Crude Butadiene			0.080	0.08	0.08
17	05/06/21	FL-1	FL-1	151509	PBR 261/262	Revise representations Dock 2 (2 disconnects/hr)			-	-	-
18	11/17/21	FL-1	FL-1	166727	PBR 261/262	Dock 2B and Dock 4B			0.200	0.20	0.20
							Page Subtotal[7]				**4.00**
							Table Total				**4.00**
										Project Emission Increase(from Table 2F)	
Summary of Contemporaneous Changes										**Total (Includes Project Increases):**	**4.00**

1. Individual Table 3F's should be used to summarize the project emission increase and net emission increase for each criteria pollutant.
2. The start of operation date for the modified or new facilities. Attach Table 4F for each project reduction claimed.
3. Emission Point No. as designated in NSR Permit or Emissions Inventory.
4. All records and calculations for these values must be available upon request.
5. Allowable (column A) - Baseline (column B).
6. If portion of the decrease not creditable, enter creditable amount. If all of decrease is creditable or if this line is an increase, enter column C again.
7. Sum all values for this page.

* The approval date of the permit by TCEQ for the modified or new facilities

ATTACHMENT 9: PRODUCT STREAM ANALYSIS

Galena Park Terminal
Product Stream Analyses (Wt. %)

Component		STREAMS WEIGHT %										
	Naphtha	**Propane**	**HD-5 Propane**	**Low Ethane Propane**	**P-P Mix**	**Isobutane**	**Normal Butane**	**Mixed Butanes**	**Crude Butadiene**	**Raffinates**	**Natural Gasoline**	**B-B Mix**
Ethane	-	4.9970	5.2900	1.9000	0.6146	0.0029	-	0.0015	0.0928	-	-	-
Ethylene	-	-	-	-	0.0227	-	-	-	-	-	-	-
Propane	-	94.3752	94.0200	97.9100	21.5556	0.6038	0.0089	0.3064	0.0579	-	-	-
Propylene	-	0.0502	-	-	76.5777	-	-	-	-	-	-	-
Iso-butane	-	0.5292	0.5100	0.5300	0.7387	96.5242	2.3265	49.4253	11.0656	25.4600	-	37.5000
Normal-Butane	-	0.0484	0.1800	0.1800	0.4058	2.8691	96.9129	49.8910	14.0250	72.2800	2.0950	37.5000
Butenes	-	-	-	-	-	-	-	-	17.4697	1.9800	-	75.0000
Isopentane	-	-	-	-	0.0362	-	0.3046	0.1523	1.2200	0.2200	27.8850	-
n-Pentane	-	-	-	-	0.0487	-	0.4471	0.2235	0.9540	-	22.9690	-
n-Hexane	-	-	-	-	-	-	-	-	-	-	8.1220	-
Benzene	-	-	-	-	-	-	-	-	-	-	2.4090	-
Toluene	-	-	-	-	-	-	-	-	-	-	0.4540	-
Ethylbenzene	-	-	-	-	-	-	-	-	-	-	0.0120	-
Xylenes-u	-	-	-	-	-	-	-	-	-	-	0.0580	-
Cyclohexane	-	-	-	-	-	-	-	-	-	-	2.8740	-
1,3-Butadiene	-	-	-	-	-	-	-	-	70.0000	0.0600	-	1.0000
Isoprene		-	-	-	-	-	-	-	-	-	-	-
Naphtha	100.0000	-	-	-	-	-	-	-	-	-	-	-
Ethanol	-	-	-	-	-	-	-	-	-	-	-	-
Other Hexanes +	-	-	-	-	-	-	-	-	-	-	33.1220	-
Refinery Petroleum Fractions		-	-	-	-	-	-	-	-	-	-	-
Heat Content (Btu/lb)	**18,200**	**21,520**			**21,016**	**21,083**	**21,134**	**21,108**	**20,465**	**20,863**	**21,584**	

ATTACHMENT 10: TCEQ PI-7 CERT FORM AND PBR 106.4 CHECKLIST

Texas Commission on Environmental Quality
Certification and Registration for Permits by Rule
Form PI-7-CERT
(Page 1)

I. Registrant Information		
A. Company or Other Legal Customer Name: **Targa Downstream LLC**		
B. Company Official Contact Information (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other _____)		
Name: **Bill Grantham**		
Title: **Vice President Operations**		
Mailing Address: **811 Louisiana Street; Suite 2100**		
City: **Houston**	State: **TX**	ZIP Code: **77002**
Phone: **713-584-1457**	Fax: **713-584-1522**	
E-mail Address: bgrantham@targaresources.com		
All PBR registration responses will be sent via e-mail.		
C. Technical Contact Information (☒ Mr. ☐ Mrs. ☐Ms. ☐ Other _____)		
Name: **Jeff Myhra**		
Title: **Senior Environmental Specialist**		
Company Name: **Targa Midstream Services LLC**		
Mailing Address: **811 Louisiana Street; Suite 2100**		
City: **Houston**	State: **TX**	ZIP Code: **77002**
Phone: **713-584-1597**	Fax: **713-584-1522**	
E-mail: jmyhra@targaresources.com		
II. Facility and Site Information		
A. Name and Type of Facility		
Facility Name: **Galena Park Terminal**		
Type of Facility:	☒ Permanent	☐ Temporary
For portable units, please provide the serial number of the equipment being authorized below.		
Serial No:	Serial No:	
B. Facility Location Information		
Street Address: **12510 American Petroleum Road**		
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).		
City: **Galena Park**	County: **Harris**	ZIP Code: **77547**

II. Facility and Site Information *(continued)*		
C. TCEQ Core Data Form		
Is the Core Data Form (TCEQ Form Number 10400) attached?		☐ YES ☒ NO
If "NO," provide customer reference number (CN) and regulated entity number (RN) below.		
Customer Reference Number (CN): **CN603592940**		
Regulated Entity Number (RN): **RN100214212**		
D. TCEQ Account Identification Number (if known): **HG-0786-O**		
E. Type of Action:		
☒ Initial Application ☐ Change to Registration		
For Change to Registration provide the Registration Number:		
F. PBR number(s) claimed under 30 TAC Chapter 106		
(List all the individual rule number(s) that are being claimed.)		
106.**261**	106.	
106.**262**	106.	
106.	106.	
G. Historical Standard Exemption or PBR		
Are you claiming a historical standard exemption or PBR?		☐ YES ☒ NO
If "YES," enter rule number(s) and associated effective date in the spaces provided below.		
Rule Number(s)	Effective Date	
H. Previous Standard Exemption or PBR Registration Number		
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?		☐ YES ☒ NO
If "YES," enter previous standard exemption number(s) and PBR registration number(s), and associated effective dates in the spaces provided below.		
Standard Exemption and PBR Registration Number(s)	Effective Date	

II. Facility and Site Information *(continued)*	
I. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit	
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?	☒ YES ☐ NO
If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.	
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s)	Effective Date
111565(08/16/2013), **118083**(09/24/2014), **139811**(11/18/21), **144834**(01/16/2017), **146065**(05/08/2017), **146939**(07/20/2018), **151158**(05/09/2018), **151509**(06/07/2018), **153250**(10/05/2018), **156207**(04/25/2019), **157751**(08/09/2019), **158048**(08/22/2019), **159227**(12/17/2019), **160739** (05/05/20), **161043** (05/05/20), **163654** (01/12/21), **164546** (05/06/21), **166727** (11/27/21), **168477** (05/06/22)	
J. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site?	☒ YES ☐ NO
If "YES," enter permit number(s) in the spaces provided below.	
5414	
K. Affected Air Preconstruction Permits	
Does the PBR being claimed directly affect any permitted facility?	☒ YES ☐ NO
If "YES," enter the permit number(s) in the spaces provided below.	
5414	
L. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability)	
1. Is this facility located at a site that is required to obtain an FOP pursuant to 30 TAC Chapter 122?	☒ YES ☐ NO ☐ To Be Determined
If the site currently has an existing FOP, enter the permit number: **O-614**	
Check the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted. *(check all that apply)*	
☐ Initial Application for an FOP ☐ Significant Revision for an SOP ☒ Minor Revision for an SOP	
☐ Operational Flexibility/Off Permit Notification for an SOP ☐ Revision for a GOP	
☐ To be Determined ☐ None	
2. Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. *(check all that apply)*	
☒ SOP ☐ GOP ☐ GOP application/revision (submitted or under APD review)	
☐ N/A ☐ SOP application/revision (submitted or under APD review)	

III.	**Fee Information (***See Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online.)*	
A.	Fee Requirements	
Is a fee required per Title 30 TAC § 106.50?		☒ YES ☐ NO
If "NO," specify the exception. There are three exceptions to paying a PBR fee.	(*check all that apply*)	
1.	Registration is solely to establish a federally enforceable emission limit.	☐
2.	Registration is within six months of an initial PBR review, and it is addressing deficiencies, administrative changes, or other allowed changes.	☐
3.	Registration is for a remediation project (30 TAC § 106.533).	☐
B.	Fee Amount	
1.	A $100 fee is required if *any* of the answers in III.B.1 are "YES."	
This business has less than 100 employees.		☐ YES ☒ NO
This business has less than $6 million dollars in annual gross receipts.		☐ YES ☒ NO
This registration is submitted by a governmental entity with a population of less than 10,000.		☐ YES ☒ NO
This registration is submitted by a non-profit organization.		☐ YES ☒ NO
2.	A $450 fee is required for all other registrations.	
C.	Payment Information	
Check/money order/transaction or voucher number:		
Individual or company name on check:		
Fee Amount: **$450.00**		
Was fee paid online?		☒ YES ☐ NO
IV.	**Technical Information Including State And Federal Regulatory Requirements** **Check the appropriate box to indicate what is included in your submittal.** **NOTE:** *Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project.*	
A.	PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)	
Did you demonstrate that the general requirements in 30 TAC § 106.4 are met?		☒ YES ☐ NO
Did you demonstrate that the individual requirements of the specific PBR are met?		☒ YES ☐ NO
B.	Confidential Information Included (If confidential information is submitted with this registration, all confidential pages must be properly marked "CONFIDENTIAL.")	☐ YES ☒ NO

IV. Technical Information Including State and Federal Regulatory Requirements *(continued)* **Check the appropriate box to indicate what is included in your submittal.** **Note:** Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project.		
C. Process Flow Diagram		☒ YES ☐ NO
D. Process Description		☒ YES ☐ NO
E. Maximum Emissions Data and Calculations		☒ YES ☐ NO
Note: *If the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under* ***30 TAC Chapter 101, Subchapter H, Division 3,*** *the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x, emissions from these facilities.*		
F. Is this certification being submitted to certify the emissions for the entire site?		☒ YES ☐ NO
If "NO," include a summary of the specific facilities and emissions being certified.		
G. Table 1(a) (Form 10153) Emission Point Summary		☒ YES ☐ NO
H. Distances from Property Line and Nearest Off-Property Structure		
Distance from this facility's emission release point to the nearest property line:		feet
Distance from this facility's emission release point to the nearest off-property structure:		**>300** feet
I. Project Status		
Has the company implemented the project or waiting on a response from TCEQ?		☐ Implemented ☒ Waiting
J. Projected Start of Construction and Projected Start of Operation Dates		
Projected Start of Construction (provide date):	**August 2022**	
Projected Start of Operation (provide date):	**June 2023**	
V. Delinquent Fees		
This form **will not be processed** until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at: www.tceq.texas.gov/agency/financial/fees/delin/index.html.		

VI. Signature For Registration And Certification
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which this application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382, the Texas Clean Air Act (TCAA); the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.
Name (printed): **Bill Grantham**
Signature (original signature required):
_____ Date

VII. Submitting Copies of the Certification and Registration

Copies must be sent as listed below.
Processing delays may occur if copies are not sent as noted.

Who	Where	What
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC 161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753	Originals Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits[1].
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check, Copy of Form PI-7-CERT, and Core Data Form. Not required if fee was paid using ePay[2].
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ website at www.tceq.texas.gov/agency/directory/region, or call (512) 239-1250.	Copy of Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits[1]
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD website at www.tceq.texas.gov/permitting/air/local_programs.html, or call (512)-239-1250	Copy of Form PI-7-CERT, Core Data Form, and all attachments.

[1] ePermits located at www3.tceq.texas.gov/steers/
[2] ePay located at www.tceq.texas.gov/epay

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division website at: www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

1. 30 TAC § 106.4(a)(1) and (4): Emission Limits	**Answer**
List emissions in tpy for **each** facility (add additional pages or table if needed):	
Are the SO_2, PM_{10}, VOC, or other air contaminant emissions claimed for **each** facility in this PBR submittal less than 25 tpy?	☒ YES ☐ NO
Are the NO_x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	☒ YES ☐ NO
*If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a **PBR cannot be claimed**.*	
Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.)	☒ YES ☐ NO
If "Yes," skip to Section 2. If "No," continue to the questions below.	
If the site has had no public notice, please answer the following:	
Are the SO_2, PM_{10}, VOC, or other emissions claimed for **all** facilities in this PBR submittal less than 25 tpy?	☐ YES ☐ NO
Are the NO_x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	☐ YES ☐ NO
If the answer to both questions is "Yes," continue to Section 2.	
*If the answer to either question is "No," **a PBR cannot be claimed**. A permit will be required under Chapter 116.*	

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2. 30 TAC § 106.4(a)(2): Nonattainment Check	Answer
Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?	☒ YES ☐ NO
If "Yes," please indicate which county by checking the appropriate box to the right.	
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	☒ HGB
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties:	☐ DFW
If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.	
Does this project trigger a nonattainment review?	☐ YES ☒ NO
Is the project's potential to emit (PTE) for emissions of VOC or NO_x increasing by 100 tpy or more?	☐ YES ☒ NO
PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rules, or made federally enforceable by a certification.	
Is the site an existing major nonattainment site and are the emissions of VOC or NO_x increasing by 40 tpy or more?	☐ YES ☒ NO
If needed, attach contemporaneous netting calculations per nonattainment guidance.	
Additional information can be found at: www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
*If "Yes," to any of the above, the project is a major source or a major modification and **a PBR may not be used**. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.*	
3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check	
Does this project trigger a review under PSD rules?	
To determine the answer, review the information below:	
Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?	☐ YES ☒ NO
Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	☐ YES ☒ NO
Are emissions increasing above significance levels at an existing major site?	☐ YES ☒ NO
PSD information can be found at: www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
*If "Yes," to any of the above, **a PBR may not be used**. A PSD Permit review must be completed to authorize the project.*	
If "No," continue to Section 4.	

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4. 30 TAC § 106.4(a)(6): Federal Requirements	Answer
Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.	
5. 30 TAC § 106.4(a)(7): PBR prohibition check	
Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?	☐ YES ☒ NO
If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.	
List permit number(s):	
6. 30 TAC § 106.4(a)(8): NO_x Cap and Trade	
Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	☒ YES ☐ NO
If "Yes," answer the question below.	
If "No," continue to Section 7.	
Will the proposed facility or group of facilities obtain required allowances for NO_x if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	☐ YES ☒ NO

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7. Highly Reactive Volatile Organic Compounds (HRVOC) check		
Is the facility located in Harris County?		☒ YES ☐ NO
If "Yes," answer the next question. If "No," skip to the box below.		
Will the project be constructed after June 1, 2006?		☒ YES ☐ NO
If "Yes," answer the next question.		
If "No," skip to the box below.		
Will one or more of the following HRVOC be emitted as a part of this project?		☐ YES ☒ NO
If "Yes," complete the information below:		
Information	**lb/hr**	**tpy**
► 1,3-butadiene		
► all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])		
► alpha-butylene (ethylethylene)		
► beta-butylene (dimethylethylene, including both cis- and trans-isomers)		
► ethylene		
► propylene		
Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?		☐ YES ☒ NO
If "Yes," answer the next question. If "No," the checklist is complete.		
Will the project be constructed after June 1, 2006?		☐ YES ☐ NO
If "Yes," answer the next question. If "No," the checklist is complete.		
Will one or more of the following HRVOC be emitted as a part of this project?		☐ YES ☐ NO
If "Yes," complete the information below:		
Information	**lb//hr**	**tpy**
► ethylene		
► propylene		