Acronyms (add to list as needed for your project)

Targa	Targa Terminals
VOC	volatile organic compounds
O2	Oxygen
bbls	barrel
lb	pound
hr	hour
MMBtu	million British thermal units
bbls/day	barrels per day
bbls/yr	barrels per year
tpy	tons per year
psia	pounds per square inch absolute
mg/L	milligram per liter
gpm	gallons per minute
scf/yr	standard cubic feet per year
ppmw	parts per million by weight
ppbw	parts per billion by weight

lb/MMBtu	pounds per million British thermal units
MMBtu/hr	million British thermal units per hour
EPN	emission point number
MSS	maintenance, startup and shutdown
LAER	Lowest Achievable Emission Rate
AVO	audio, visual and olfactory
DRE	destruction efficiency
LEL	lower explosive limit
LPG	Liquefied petroleum gas
AGO	Atmospheric gas oil
MLSS	mixed liquor total suspended solids
VCU	vapor combustor unit
IFR	internal floating roof
VFR	vertical fixed roof
HFR	horizontal fixed roof

Facility Information

Company Name	Targa Terminals LLC
Facility Name	Channelview Terminal
Project Description (only address units requiring federal review)	Targa operates the Channelview Terminal in Harris County, Texas. The site is able to refine up to 38,000 bbls/day of condensate. The condensate is received via pipe, truck and/or barge. The condensate is refined into LPG, light and heavy naphtha, kerosene, diesel and residual fuel oil; the products are transferred from the site via pipe, truck and/or barge. The site uses a series of separation towers, collectively known as a condensate splitter. The separation towers are heated via three crude process heaters and one hot oil heater. The hot oil heater is also a control facility that is able to handle off-gas as refinery fuel. Emissions vapors from daily operations and MSS activities are controlled either by a VCU or the site's flare. A retrospective review was conducted on the initial authorization of the Channelview Terminal and determined that the project changes to the site exceed severe nonattainment thresholds for VOC as ozone (25 tpy). Please see below for the control methods for VOC emitting facilities.
Facility County	Harris
Facility Contact (Name, Phone Number)	Mr Vincent J Dicosimo, (713) 584-1235
Your Contact Info (Name, Phone, Email)	Ms. Miranda Duncan, (512) 239-3402, Miranda.Duncan@tceq.texas.gov
Permit Numbers (this list should match your CND header)	124662 and N262
Title V Permit Number (or not yet available)	Not Yet Available
Permit Type (All Major & Minor permits)	Modify Existing Process at Existing Facility
Projected Second Public Notice Issuance Date	02/28/2018
Projected Final Issuance Date	04/02/2018
SIC Code	4226
NAICS Industry Code	493190
Facility Registry System Number (or not found)	Not found
Nearest Class I Area	Caney Creek, AR
Distance from Facility to Nearest Class I Area	Greater than 250 km

Pollutants triggering major NSR permitting with this action

VOC	* BACT * LAER * MACT

Source of emissions		**Flare - Refinery**			
Process code for emission source listed above		**19.330**			
Primary fuel fired (if applicable)		**Natural Gas**			
Throughput with units (leave blank if confidential)		**10,410,099 scf/yr**			
Source notes (optional)		**Authorized for the control of normal operations and MSS produced waste gas.** **The site produces off-gas intermittently as part of normal operations. A portion of the off-gas can contain contaminates that will affect the quality of the off-gas being used as refinery fuel. In event the off-gas may not be routed to the hot oil heater (EPN: H-4) due to the intermittent production and/or low quality, the flare is the only effective facility to control waste gas emissions.**		
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provisions and Subpart Ja, Petroleum Refineries * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	40 CFR §60.18	*Pollution Prevention *Add On Control *No control	The flare designed to meet 40 CFR §60.18 with a VOC DRE of 98% for compounds with four carbons and more, and 99% for compounds with three or less. The flare has installed a continuous flow monitor and composition analyzer. Operation conditions and flaring of off-gas shall be re-evaluated every two-years.		Pilot Gas – 0.01 tpy for VOC Normal Operations – 4.00 tpy for VOC Planned MSS – 3.08 tpy for VOC

Source of emissions		**Hot Oil Heater**			
Process code for emission source listed above		**19.800**			
Primary fuel fired (if applicable)		**Natural Gas/Refinery Fuel**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**Hot oil heater provides supplemental heat to the condensate splitter. The hot oil heater is able to combust natural gas or refinery fuel.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provisions, Subpart Dc, Small Industrial Steam Generating Units and Subpart Ja, Petroleum Refineries * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Stack testing required within 60 days of achieving the maximum operation rate.	*Pollution Prevention *Add On Control *No control	The heater has a maximum heating capacity of less than 100 MMBtu. Good combustion practices will be used to reduce VOC including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. Fuel usage is monitored continuously.		0.002 lb/MMBtu for VOC

Source of emissions		**Crude Process Heaters**			
Process code for emission source listed above		**19.330**			
Primary fuel fired (if applicable)		**Natural Gas only**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**Crude Process heaters (EPNs: H-1, H-2 and H-3) provide homogeneous heat to the pre-flash, LPG and crude towers.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provisions, Subpart Dc, Small Industrial Steam Generating Units and Subpart Ja, Petroleum Refineries * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Stack testing required within 60 days of achieving the maximum operation rate.	*Pollution Prevention *Add On Control *No control	The heaters have a maximum heating capacity of less than 100 MMBtu/hr. Good combustion practices will be used to reduce VOC including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. Fuel usage is monitored continuously.		0.0013 lb/MMBtu

Source of emissions		**Internal Combustion Engine**			
Process code for emission source listed above		**17.210**			
Primary fuel fired (if applicable)		**Diesel**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**Firewater pump engines and emergency generator.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provisions, Subpart Dc, Small Industrial Steam Generating Units, Subpart Ja, Petroleum Refineries and Subpart IIII, Compression Ignition Internal Combustion Engines. * NESHAP N/A * MACT Subpart A, General Provisions and Subpart ZZZZ, Reciprocating Internal Combustion Engines * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	N/A	*Pollution Prevention *Add On Control *No control	O2 monitor installed. Emergency use only.		0.34 tpy for VOC

Source of emissions		**Storage Tank – Internal Floating (IFR)**			
Process code for emission source listed above		**42.006**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**31,830,071 bbls/yr**			
Source notes (optional)		**The condensate is received and stored in an IFR storage tanks (EPNs: 604, 700, 701 and 702). IFR tank 604 may also store transmix or AGO. Final products of the condensate splitter are stored in several other IFR tanks as follows: EPN 500 is authorized for diesel and AGO/residual oil; EPN 704 is authorized for heavy virgin naphtha; EPN 705 is authorized for kerosene and jet fuel/kerosene; and EPN 706 is authorized for light virgin naphtha.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart Kb, VOC Liquid Storage Vessels * NESHAP N/A * MACT Subpart A, General Provision and Subpart Y, Marine Tank Vessels Loading Operations * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Seal visual inspections	*Pollution Prevention *Add On Control *No control	IFR tanks are equipped with welded decks as well as a mechanical shoe and rim-mounted secondary seal systems. During tank landings, the vapor space is routed to a vapor recovery system and limited to 30% LEL. Store materials with less than 11.0 psia.		500 – 0.18 tpy for VOC 604 – 1.40 tpy for VOC 700 – 1.23 tpy for VOC 701 – 1.23 tpy for VOC 702 – 1.23 tpy for VOC 703 – 4.72 tpy for VOC 705 – 0.12 tpy for VOC 706 – 2.38 tpy for VOC

Source of emissions		**Storage Tank – HFR**			
Process code for emission source listed above		**42.005**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**201 bbls**			
Source notes (optional)		**HFR storage tank EPNs 902, 903 and 904 store diesel to fuel the site's emergency engines.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart Kb, VOC Liquid Storage Vessels * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	N/A	*Pollution Prevention *Add On Control *No control	The tanks are painted white and will store materials below 0.5 psia or will be less than 25,000 gallon capacity. Each tanks is required to loaded via submerge fill.		0.01 tpy of VOC for each tank

Source of emissions		**Storage Tank – VFR**			
Process code for emission source listed above		**42.005**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**5,754,659 bbls**			
Source notes (optional)		**VFR tank EPNs 707 and 703 are heated tanks. The tanks are authorized to store refined diesel where EPN 703 is also authorized to store residual, atmospheric and gas oil. Tank EPN 900 store caustic chemical used in the LPG tower's product wash and tank EPN 901 stores the spent caustic chemical.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart Kb, VOC Liquid Storage Vessels * NESHAP N/A * MACT Subpart A, General Provision and Subpart Y, Marine Tank Vessels Loading Operations * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	N/A	*Pollution Prevention *Add On Control *No control	The tanks are painted white and will store materials below 0.5 psia or will be less than 25,000 gallon capacity psia. Each tanks is required to loaded via submerge fill.		703 – 4.72 tpy for VOC 707 – 2.20 tpy for VOC

Source of emissions		**Cooling Tower**			
Process code for emission source listed above		**99.009**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**2,000 gpm**			
Source notes (optional)		**The cooling tower (EPN: CT) provides cooling for the process units.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart QQQ, Petroleum Refinery Wastewater Systems * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Monthly sampling for VOC and quarterly sampling for PM	*Pollution Prevention *Add On Control *No control	Non-contact design. The cooling towers are equipped with drift eliminators with a drift less than 0.001%.		50 ppbw for VOC 5,500 ppmw for PM

Source of emissions		**Truck Loading**			
Process code for emission source listed above		**50.999**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**554,800 bbl/yr**			
Source notes (optional)		**Truck loading (EPN L-2) is authorized for LPG only.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: N/A * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Leak check via 49 CFR §180.407	*Pollution Prevention *Add On Control *No control	Pressurized loading required and minimize loading line disconnections.		3,200 trucks per 12-rolling months 0.17 tpy for VOC

Source of emissions		**Marine (Barge) Loading**			
Process code for emission source listed above		**50.999**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**17,315,200 bbl/yr; limited short-term loading per product**			
Source notes (optional)		**Inland barge vacuum loading only.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart Y, Marine Tank Vessel Loading Operations * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Initial sampling after 60 days	*Pollution Prevention *Add On Control *No control	Limited marine loading throughput and required monthly emission recordkeeping. Barge marine loading is performed under a vacuum and materials with a vapor pressure greater than 0.1 psia at 95°F are routed to the marine VCU.		4.86 tpy for VOC

Source of emissions		**Marine Vapor Combustor (EPN: VC-1)**			
Process code for emission source listed above		**19.900**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**1,382,606 lb/yr**			
Source notes (optional)		**Authorized to control marine loading emissions for materials with a vapor pressure less than 0.1 psia at 95°F.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: N/A * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Stack testing required within 60 days of achieving the maximum operation rate.	*Pollution Prevention *Add On Control *No control	Control efficiency of 99.9% and temperature monitoring. AVO inspection.		1.25 tpy for VOC

Source of emissions		**Wastewater Treatment Facility/ CPI Separator**			
Process code for emission source listed above		**50.009**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**N/A**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart QQQ, Petroleum Refinery Wastewater Systems * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Samples collected via EPA 624.1 and 625.1.	*Pollution Prevention *Add On Control *No control	1000 mg/L minimum MLSS concentration, wastewater flow monitored daily, and CP separator vented to a carbon adsorption system.		0.34 tpy of VOC

Source of emissions		**Floating Roof and Tank Convenience Landings, and Tank Degassing**			
Process code for emission source listed above		**42.0006**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)					
Source notes (optional)		**Materials with a vapor pressure greater than 0.1 psia at 95°F only.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart Kb, VOC Liquid Storage Vessels * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Vapor space sampling via VOC analyzer	*Pollution Prevention *Add On Control *No control	Routed to a control device (flare or vapor combustor) until VOC concentration is 2,000 ppm or 2% of the LEL. May vent to atmosphere upon confirmation that the aforementioned LEL has been met.		0.02 tpy for VOC

Source of emissions		**Startup and Shutdowns – Heaters**			
Process code for emission source listed above		**19.333**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**Startup and shutdown of crude process heaters (EPN: H1, H2 and H3) and the hot oil heater (EPN: H4).**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: N/A * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	N/A	*Pollution Prevention *Add On Control *No control	Vent to flare. CO emissions should not exceed either 0.037 lb/MMBtu for H1, H2 or H3, and 0.030 lb/MMBtu for H4; or 425 ppmv at 3% O_2. Startups and shutdowns should not exceed 8 and 4 hours, respectively.		3.08 tpy of VOC to the flare 0.63 tpy of VOC to atmosphere

Source of emissions		**Startup and Shutdown – Other facilities**			
Process code for emission source listed above		**50.999**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**N/A**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provision and Subpart Kb, VOC Liquid Storage Vessels * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	N/A	*Pollution Prevention *Add On Control *No control	Vent to flare. Vent to atmosphere if impractical, no connection to the plant control system and less than 22 lb of VOC will be emitted. Records are maintained for emission vented without control. Minimize VOC emissions via good engineering practices.		3.08 tpy of VOC to the flare 0.63 tpy of VOC to atmosphere

Source of emissions		**Other MSS activities**			
Process code for emission source listed above					
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**MSS activities include but not limited to, barge sampling, tank water wash, manual tank gauging and tank seal inspections.**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: N/A * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	N/A	*Pollution Prevention *Add On Control *No control	Vent to flare with the ability to vent to atmosphere upon less than 5% of the LEL confirmed. Otherwise, vented to the flare. Minimize VOC emissions via good engineering practices.		3.08 tpy of VOC to the flare 0.63 tpy of VOC to atmosphere

Source of emissions		**Fugitives**			
Process code for emission source listed above		**50.999**			
Primary fuel fired (if applicable)		**N/A**			
Throughput with units (leave blank if confidential)		**N/A**			
Source notes (optional)		**N/A**			
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS: Subpart A, General Provisions and Subpart GGGa, Equipment Leaks of VOC in Petroleum Refineries * NESHAP N/A * MACT N/A * Ch. 115 or 117 N/A			
Pollutant	**Test Method Blank = unspecified**	**Control Method (select more than one as needed)**	**Control Method Description**	**Other factors considered (health effects, etc.) Blank = none**	**Numeric Limit with units (required)**
VOC	Method 21 and AVO	*Pollution Prevention *Add On Control *No control	28 LAER Fugitives Program		7.50 tpy for VOC