Texas GulfLink, LLC
Texas GulfLink Project

Title V Permit Application for Deepwater Port

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Table of Contents

Sec **Page**

1.0 INTRODUCTION 1
1.1 Project Description 1
1.2 Purpose 3
1.3 Company Identifying Information 3
1.4 Area Map 3
2.0 PROCESS DESCRIPTION 4
3.0 EMISSION RATE CALCULATION METHODS 6
3.1 Emissions Summary 6
3.2 Marine Loading [EPN (P) M-1] 8
3.3 Offshore Service Vessel (OSV) Emission Sources 9
3.3.1 Gas-Fired Electric Generator Engines [EPNs (OSV) GT-1 and (OSV) GT-2] 9
3.3.2 Diesel-Fired Electric Generator Engines [EPNs (OSV) EDG-1 and (OSV) EDG-3] 9
3.3.3 Fugitive Emissions from Vapor Processing Module [EPN (OSV) F-1] 10
3.3.4 Fugitive Emissions from Hose Disconnects [EPN (OSV) F-2] 11
3.3.5 Uncontrolled VLCC Loading Due to Bad Weather [EPN (OSV) UM-1] 11
3.3.6 Other Miscellaneous Maintenance Activities [EPN (OSV) MSS-2] 11
3.4 Platform Emission Sources 12
3.4.1 Diesel-Fired Electric Generator Engines [EPNs (P) G-1 and (P) G-2] 12
3.4.2 Diesel-Fired Portal Crane Engine [EPNs (P) C-1] 12
3.4.3 Day Tank Storing Diesel Fuel [EPN (P) DT-1] 12
3.4.4 Belly Tanks Storing Diesel Fuel [EPNs (P) BT-1, BT-2, BT-3, BT-4] 12
3.4.5 Crude Oil Surge Tank [EPN (P) T-1] 13
3.4.6 Firewater Pump Engine [EPN (P) FWP-1] 13
3.4.7 Pipeline Pigging Operations [EPN (P) P-1] 13
3.4.8 Platform Fugitive Emissions [EPN (P) F-1] 14
3.4.9 SPM System Fugitive Emissions [EPN (P) F-2] 14
3.4.10 Crude Sampling Activities [EPN (P) S-1] 15
3.4.11 Routine Pump Maintenance [EPN (P) PM-1] 15
3.4.12 Abrasive Blasting / Painting [EPN (P) MSS-1] 15
4.0 REGULATORY APPLICABILITY 17
4.1 Federal Air Regulations – 40 CFR 17
4.2 Texas Air Regulations – 30 TAC 24
5.0 STATE-BACT SUMMARY 26
6.0 PART 71 FORMS 29
7.0 CERTIFICATION OF COMPLIANCE 30

TABLES

2-1 Summary of Emission Sources at Deepwater Port Facility
3-1 Summary of Annual Criteria and GHG PTE Rates for Deepwater Port Facility
3-2 Summary of Annual H_2S and HAP PTE Rates for Deepwater Port Facility
5-1 Summary of Tier I BACT
5-2 Summary of Tier II BACT

FIGURES (APPENDIX B)

1 Area Map
2 Simplified Process Flow Diagram (PFD)

APPENDICES

A Company Identifying Information (TCEQ Core Data Form)
B Application Figures (Area Map and PFD)
C Detailed Emission Rate Calculations (includes specification sheets)
D Detailed Regulatory Analysis (TCEQ Title V Forms)
E EPA Part 71 Forms (includes Certification of Compliance)

1.0 INTRODUCTION

Texas GulfLink, LLC plans to develop the Texas GulfLink Deepwater Crude Export Terminal project ("Project"), a proposed deepwater crude oil export terminal, located near Freeport, Texas, in Brazoria County. The Project will provide critical infrastructure to the Houston market to clear over supplied crude oil volumes from West Texas and the Midcontinent. As United States crude oil exports continue to increase, critical infrastructure along the Gulf Coast will be necessary to provide an efficient and safe solution for large-scale exporting to international markets. The completed facility will be capable of fully loading Very Large Crude Carrier (VLCC) vessels for the purpose of exporting crude oil to international markets.

1.1 Project Description

The Texas GulfLink Terminal Project will construct a Deepwater Oil Port near Freeport, Texas, capable of loading deep draft VLCC vessels. The Deepwater Port will deliver crude oil via an onshore crude pipeline to above-ground crude oil storage tanks. Upon nomination from the crude oil shipper, the oil will be transported to one of two floating Single Point Mooring (SPM) buoys in the Gulf of Mexico, approximately 26.6 nautical miles (30.6 miles) offshore, via a 42-inch pipeline. The SPM buoys will allow for VLCC vessels to moor and receive up to 2 million barrels of crude oil each to be transported internationally. VOC vapors from VLCC loading will be controlled up to 98% reduction. A manned offshore platform, equipped with round-the-clock port monitoring, custody transfer metering, and surge relief will provide assurance that shippers' commercial risks are mitigated and that the port is protected from security threats and environmental risks.

The Deepwater Port *offshore* facility will consist of the following assets:

- One 42-inch outside diameter, 26.6 nautical mile long crude oil pipeline will be constructed from the shoreline crossing in Brazoria County, Texas, to the Texas GulfLink Deepwater Port, for crude oil delivery. The pipeline, in conjunction with 12.3 statute miles of new-build 42-in onshore pipeline, will connect the onshore crude oil storage facility and pumping station (Jones Creek Crude Storage Terminal) to the offshore Texas GulfLink Deepwater Port. The crude oil will be metered departing the onshore terminal as it leaves the tank and again at the offshore platform, providing custody transfer and line surveillance.
- One fixed offshore platform structure, with 4 piles, located in the Galveston Outer Continental Shelf lease block 423, approximately 26.6 nautical miles off the coast of Brazoria County, Texas, in a water depth of approximately 105 feet. The fixed platform will be constructed with three decks, including generators, pig receivers, lease automatic custody transfer (LACT) unit, oil displacement prover loop, living quarters, electrical and instrumentation building, portal cranes, helideck, and a vessel traffic control room utilizing a state-of-the-art radar system.

- The Deepwater Port will utilize two (2) Single Point Moring (SPM) buoys, each having:
    - Two (2) 24-inch inside diameter crude oil subsea hoses interconnecting with the crude oil pipeline end manifold (PLEM)
    - Two (2) 24-inch inside diameter floating crude oil hoses connecting the moored VLCC or other crude oil carrier for loading to the SPM buoy – The floating hoses will be approximately 1,100 feet in length and rated for 285 psig. Each floating hose will contain an additional 200 feet of 16-inch "rail tail hose" designed to be lifted and robust enough for hanging over the edge railing of the VLCC or other crude oil carrier. The subsea hoses will be approximately 160 feet in length and rated for 285 psig.
- Two (2) PLEMs will provide the interconnection between the pipelines and the SPM buoys. Each SPM buoy will have one (1) PLEM for crude oil export. Each crude oil loading PLEM will be supplied with crude oil by one (1) 42-inch outside diameter pipeline, each approximately 1.25 nautical miles in length.
- VOC emissions resulting from VLCC loading will be controlled by using an Offshore Service Vessel (OSV) that will contain a vapor processing module. For the entire duration of VLCC loading, the VRV will be positioned alongside the VLCC, and a flexible hose will connect the VLCC's vapor manifold to the VRV's vapor processing module. The vapor processing module will compress and condense the VOC vapor to produce liquid-VOC (L-VOC) and surplus-VOC (S-VOC). The L-VOC will be stored in pressure tanks and the S-VOC may be used as fuel for onboard gas turbine generators. After 2 VLCC loads, the L-VOC tanks will be nearly full, the VRV will head to port to offload the tanks, then return to the Deepwater Port for continued VLCC loading.

The Deepwater Port *onshore* project components will consist of the following:

- New installed 9.45 miles of 36" pipeline from the Department of Energy (DOE) facility at Bryan Mound to the Texas GulfLink Jones Creek Crude Storage Terminal.
- The proposed Jones Creek Crude Storage Terminal located in Brazoria County, Texas, on approximately 200 acres of land consisting of twelve (12) above-ground domed external floating roof (DEFR) storage tanks, with a site-wide maximum storage capacity of approximately 8.5 million barrels of "sweet" crude oil.
- The Jones Creek Terminal will also include:
    - Six (6) electric-driven mainline crude oil pumps
    - Three (3) electric driven booster crude oil pumps
    - One (1) crude oil pipeline pig launcher
    - One (1) crude oil pipeline pig receiver
    - Two (2) measurement skids for measuring crude oil – one (1) skid located at the incoming pipeline from the Bryan Mound facility and one (1) skid installed for the outgoing crude oil barrels leaving the tank storage to be loaded on the VLCC
    - Ancillary facilities, to include an operations control center, electrical substation, offices, and warehouse building.

1.2 Purpose

Texas GulfLink, LLC respectfully submits this initial Title V permit application to authorize operation of the proposed offshore Deepwater Port, which is part of the Texas GulfLink Project. Title V of the Clean Air Act (CAA) requires operating permits for major stationary sources of emissions, which are regulated under Title 40 of the Code of Federal Regulations, Part 70 (40 CFR 70) for the state administered program, and 40 CFR 71 for the federally administered program. The operating permit outlines the emission limits, applicable regulatory requirements, compliance, and operating conditions applicable to the emission units at a major source of emissions. As shown in Section 3.0 of this application, the proposed Deepwater Port Facility will be a major source under Title V because regulated pollutants will be emitted in an amount greater than 100 tons per year (tpy). Therefore, the proposed facility will require a federal Title V operating permit under Part 71. For sources located outside of the state seaward boundary on the Outer Continental Shelf (OCS), the US EPA administers the Title V permit program. Therefore, Texas GulfLink, LLC is submitting this initial Title V operating permit application to the US EPA (Region 6). This application is being submitted using the TCEQ's Title V forms and the US EPA's Part 71 forms (Appendices D and E, respectively).

The requirements of a complete Title V permit application are defined in 40 CFR §71.5. The information presented in this application follows these requirements. Based on the requirements described in 40 CFR §71.9, each permit application requires an application fee that is based upon the actual emissions from the project. Form 5900-03 of Appendix E provides the application fee calculation worksheet. Because this permit application is being submitted as part of a Deepwater Port license application (i.e., submitted prior to the proposed project's operation), per US EPA guidance, there is no application fee associated with this submittal.

1.3 Company Identifying Information

Company identifying information is provided in this permit application, per the requirements of 40 CFR §71.5(c)(1). The TCEQ's CORE Data form (Appendix A) and OP-1 form (Appendix D) are used to provide this company information.

1.4 Area Map

Figure 1 in Appendix B is an area map showing the proposed Texas GulfLink Deepwater Port facility to be located approximately 26.6 nautical miles offshore the coast of Brazoria County, Texas. As shown in the map, the proposed facility will consist of a fixed platform and two Single Point Mooring (SPM) buoys for loading the VLCCs. Additionally, the facility will consist of an Offshore Service Vessel (OSV) containing a vapor processing module that will connect to the VLCC during loading operations.

2.0 PROCESS DESCRIPTION

This section provides a process description of the proposed Texas GulfLink Deepwater Port Facility, as required by 40 CFR 71.5(c)(2). As described in detail in Section 1.1 of this application, the proposed Texas GulfLink Deepwater Port facility will consist of a permanently manned offshore platform with two associated single point mooring (SPM) buoys for the loading of Very Large Crude Carriers (VLCCs). Sweet crude oil, with a maximum Reid Vapor Pressure (RVP) of 10 psi, will be pumped via pipeline from the onshore Jones Creek Crude Storage Terminal to the Deepwater Port facility to be loaded into the VLCC vessels. An Offshore Service Vessel (OSV) will be positioned alongside the VLCCs during loading to capture and compress VOC emissions resulting from crude oil loading. Air pollutant emissions from Deepwater Port facility operation will result from the following emission sources (Emission Point Number, EPN, given):

<u>VLCC Loading</u>

- VOC emissions from marine loading of crude oil into VLCCs [EPN (P) M-1]. Up to 98% of these emissions will be recovered and processed by a vapor processing module on board an OSV stationed alongside the VLCC during loading.

<u>Offshore Service Vessel (OSV)</u>

- Combustion emissions from 2 non-emergency gas-fired turbine generators associated with the vapor processing module [EPNs (OSV) GT-1 and (OSV) GT-2].
- Combustion emissions from 2 non-emergency diesel-fired electric generators associated with the OSV [EPNs (OSV) EDG-1 and (OSV) EDG-3].
- Fugitive VOC emissions from vapor processing module piping [EPN (OSV) F-1].
- Fugitive VOC emissions from VLCC/OSV hose disconnects [EPN (OSV) F-2].
- VOC emissions from uncontrolled VLCC loading due to bad weather [EPN (OSV) UM-1].
- VOC emissions from other miscellaneous maintenance activities (e.g. filter changes, clearing vapor module lines, etc.) [EPN (OSV) MSS-2].

<u>Stationary Platform</u>

- Combustion emissions from 2 diesel electric generator engines [EPNs (P) G-1 and (P) G-2]
- Combustion emissions from 1 diesel portal crane engine [EPN (P) C-1]
- VOC emissions from 1 fixed roof tank storing diesel fuel [EPN (P) DT-1]
- VOC emissions from 4 “belly” tanks (i.e., diesel fuel tanks for electric generators, FWP, and crane engines) [(P) BT-1, BT-2, BT-3, and BT-4]
- VOC emissions from 1 fixed roof crude oil surge tank [EPN (P) T-1]
- Combustion emissions from 1 diesel emergency firewater pump engine [EPN (P) FWP-1]
- VOC emissions from pipeline pigging operations [EPN (P) P-1]
- Fugitive VOC emissions from the platform piping components [EPN (P) F-1]
- Fugitive VOC emissions from piping components on 2 SPM loading buoys [EPN (P) F-2]
- VOC emissions from crude oil sampling activities [EPN (P) S-1]
- VOC emissions from pump maintenance [EPN (P) PM-1]
- VOC/PM emissions from maintenance-related abrasive blasting/painting [EPN (P) MSS-1]

A summary of each EPN, its description, and expected pollutants is presented in Table 2-1.

Table 2-1: Summary of Emission Sources at Deepwater Port Facility

EPN *	Description	Pollutant
VLCC Loading		
(P) M-1	Marine loading into VLCCs (controlled)	VOC **
OSV		
(OSV) GT-1	Gas-fired electric generator engine (non-emergency)	Combustion ***
(OSV) GT-2	Gas-fired electric generator engine (non-emergency)	Combustion
(OSV) EDG-1	Diesel-fired electric generator engine (non-emergency)	Combustion
(OSV) EDG-3	Diesel-fired electric generator engine (non-emergency)	Combustion
(OSV) F-1	Fugitives from vapor processing module piping leaks	VOC
(OSV) F-2	Fugitives from hose disconnects	VOC
(OSV) UM-1	Uncontrolled VLCC loading due to bad weather	VOC
(OSV) MSS-2	Other miscellaneous maintenance activities (*MSS activity*)	VOC
Platform		
(P) G-1	Diesel-fired electric generator engine (non-emergency)	Combustion
(P) G-2	Diesel-fired electric generator engine (non-emergency)	Combustion
(P) C-1	Diesel-fired portal crane engine	Combustion
(P) DT-1	Day tank storing diesel fuel (fixed roof)	VOC
(P) BT-1	Belly Tank 1	VOC
(P) BT-2	Belly Tank 2	VOC
(P) BT-3	Belly Tank 3	VOC
(P) BT-4	Belly Tank 4	VOC
(P) T-1	Crude oil surge tank (covered)	VOC
(P) FWP-1	Diesel-fired emergency firewater pump engine *(MSS activity*)	Combustion
(P) P-1	Pipeline pigging operations (*MSS activity*)	VOC
(P) F-1	Fugitives from platform piping component leaks	VOC
(P) F-2	Fugitives from SPM piping component leaks	VOC
(P) S-1	Crude oil sampling activities	VOC
(P) PM-1	Routine pump maintenance (*MSS activity*)	VOC
(P) MSS-1	Abrasive Blasting/Painting (*MSS activity*)	VOC, PM_{10}/$PM_{2.5}$

* (P) stands for Platform and (OSV) stands for Offshore Service Vessel

** VOC emissions include speciated hazardous air pollutants (HAPs) such as benzene

*** Combustion pollutants are NOx, CO, SO_2, PM, PM_{10}, $PM_{2.5}$, GHG (CO_2e), and un-combusted VOC

A simplified process flow diagram illustrating the offshore Deepwater Port's process is provided as Figure 2 in Appendix B of this application.

3.0 EMISSION RATE CALCULATION METHODS

As required by 40 CFR 71.5(c)(3), this section provides a description of the estimated emission rates for the proposed Deepwater Port Facility of the Texas GulfLink Project. Operation of the offshore facility will result primarily in emissions of volatile organic compounds (VOC) and oxides of nitrogen (NOx). Lesser amounts will be emitted of sulfur dioxide (SO_2), carbon monoxide (CO), hydrogen sulfide (H_2S), particulate matter (PM), including PM with an aerodynamic diameter of 10 microns or less (PM_{10}) and 2.5 microns or less ($PM_{2.5}$), and hazardous air pollutants (HAPs). Greenhouse gas (GHG) emissions, expressed as carbon dioxide equivalents (CO_2e), were also estimated. Maximum hourly (pounds per hour, lb/hr) and annual average (tons per year, tpy) emission rates were estimated for each source of emissions. The emissions are on a Potential-to-Emit (PTE) basis. A summary of the site-wide total annual rates for criteria and GHG pollutants is given in Table 3-1 below. A summary of site-wide total annual hydrogen sulfide (H_2S) and HAP emission rates is given in Table 3-2 below. Detailed emission rate calculations are provided in Appendix C of this application.

Note that only those offshore pollutant emissions associated with the Deepwater Port Facility that can be permitted are addressed in this Title V permit application. Other offshore emissions associated with the Texas GulfLink Project, including those from construction and "indirect" sources (e.g. tug/pilot boats, other vessels, etc.), are not included in this permit application; however, these emissions are addressed in the Emission Impacts Analysis section of the Deepwater Port license application.

3.1 Emissions Summary

Table 3-1 summarizes the site-wide total annual PTE emission rates of the criteria and greenhouse gas (CO_2e) pollutants for the proposed Deepwater Port Facility.

Per 40 CFR 71.2 (Definitions), a stationary source of emissions is major under Title V if it has annual Potential-to-Emit (PTE) emission equaling or exceeding any of the following thresholds:

- 100 tons per year (tpy) of a regulated air pollutant (except GHGs);
- 10 tpy of an individual Hazardous Air Pollutant (HAP); or
- 25 tpy of any combination of total HAPs.

The facility-wide PTE emission rates shown in Table 3-1 below indicate that the Deepwater Port Facility will be subject to Title V air permitting because VOC and NOx will each exceed the 100 tpy major source threshold. However, the facility will be considered minor with respect to Title V for all other non-HAP pollutants because their emission rates will all be under the 100 tpy major source threshold. GHG emissions, expressed as carbon dioxide equivalent (CO_2e), will be less than 100,000 tpy; therefore, the facility will be considered minor for Title V with respect to GHG.

Table 3-1: Summary of Annual Criteria and GHG PTE Rates for Deepwater Port Facility

EPN *	Source	CO_2e	PM_{10}	$PM_{2.5}$	SO_2	NOx	CO	Total VOC
		(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
(P) M-1	Marine Loading							208.10
(P) G-1	Generator 1	2,428	0.70	0.70	0.03	21.72	12.20	0.58
(P) G-2	Generator 2	2,428	0.70	0.70	0.03	21.72	12.20	0.58
(P) C-1	Crane 1	2,132	0.61	0.61	0.02	11.32	10.71	0.92
(P) DT-1	Day Tank 1							0.01
(P) BT-1	Belly Tank 1							0.001
(P) BT-2	Belly Tank 2							0.001
(P) BT-3	Belly Tank 3							0.001
(P) BT-4	Belly Tank 4							0.0001
(P) T-1	Surge Tank							1.74
(P) FWP-1	MSS - Emerg Firewater Pump Maintenance	20	0.01	0.01		0.11	0.10	0.01
(P) P-1	MSS - Pigging Operations							0.50
(P) F-1	Platform Fugitive Emissions							0.12
(P) F-2	SPM System Fugitives							0.44
(P) S-1	Sampling Activities							0.05
(P) PM-1	MSS - Pump Maintenance							0.002
(P) MSS-1	MSS - Abrasive Blasting / Painting		0.06	0.01				0.26
(OSV) UM-1	Uncontrolled Marine Loading (Bad Weather)							31.03
(OSV) GT-1	GT Generator 1	3,860	1.31	1.31	0.19	8.16	6.21	0.98
(OSV) GT-2	GT Generator 2	3,860	1.31	1.31	0.19	8.16	6.21	0.98
(OSV) EDG-1	CAT 3516C - No. 1	5,642	1.46	1.46	0.054	45.44	25.51	1.21
(OSV) EDG-3	CAT 3512C - No. 1	1,018	0.21	0.21	0.008	6.40	3.59	0.17
(OSV) F-1	OSV Fugitive Emissions							0.11
(OSV) F-2	OSV Fugitive Emissions - Hose Disconnects							0.03
(OSV) MSS-2	MSS - Other Misc. Maintenance							0.81
	TOTAL EMISSIONS (TPY)	**21,388**	**6.37**	**6.31**	**0.51**	**123.04**	**76.73**	**248.64**

* P stands for Platform and OSV stands for Offshore Service Vessel

As shown in Table 3-1, each regulated pollutant, including VOC, has a total site-wide emission rate less than the PSD major source threshold of 250 tpy, making the site "minor" with respect to PSD. Total VOC is less than 250 tpy primarily because VOC emissions from VLCC loading will be recovered using a vapor processing module on board an Offshore Service Vessel positioned alongside the VLCC. Without the recovery of VOC emissions from VLCC loading, the site would be considered major. Therefore, the site is a "synthetic" minor facility with respect to PSD. The synthetic minor permit application for the proposed Texas GulfLink Project is submitted under separate cover.

Table 3-2 summarizes the site-wide total annual (tpy) PTE emission rates of H_2S and HAP pollutants for the proposed Deepwater Port Facility. As described above, the major source threshold for HAPs is 10 tpy for an individual HAP or 25 tpy of the aggregate of all HAPs. As shown in Table 3-2 above, no individual HAP will have an emission rate greater than or equal to 10 tpy. Additionally, the aggregate total emissions from all HAPs is 17.5 tpy, which is less than 25 tpy. Therefore, the proposed Deepwater Port Facility is considered minor with respect to HAPs. As described in Section 4.0 of this application, the applicability of federal and state air quality rules

was determined based upon the Deepwater Port Facility being considered a minor ("area") source for HAPs.

Table 3-2: Summary of Annual H_2S and HAP PTE Rates for Deepwater Port Facility

EPN *	Source	H_2S	1,3-Butadiene	Acetaldehyde	Acrolien	Benzene	Isopropylbenzene	Ethylbenzene	Formaldehyde	Hexane (-n)	Naphthalene	PAH	Propylene Oxide	2,2,4-Trimethylpentane (isooctane)	Toluene	Xylene (-m)
		(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
(P) M-1	Marine Loading	0.0012				0.92	0.01	0.52		6.76				3.64	1.73	1.40
(P) G-1	Generator 1			0.001		0.02			0.002						0.01	0.01
(P) G-2	Generator 2			0.001		0.02			0.002						0.01	0.01
(P) C-1	Crane 1								0.02							
(P) DT-1	Day Tank 1															
(P) BT-1	Belly Tank 1															
(P) BT-2	Belly Tank 2															
(P) BT-3	Belly Tank 3															
(P) BT-4	Belly Tank 4															
(P) T-1	Surge Tank					0.01		0.001		0.04					0.004	0.002
(P) FWP-1	MSS - Emerg Firewater Pump Maintenance															
(P) P-1	MSS - Pigging Operations					0.002				0.01					0.001	
(P) F-1	Platform Fugitive Emissions					0.00071				0.002					0.001177	0.002
(P) F-2	SPM System Fugitives															
(P) S-1	Sampling Activities															
(P) PM-1	MSS - Pump Maintenance															
(P) MSS-1	MSS - Abrasive Blasting / Painting															
(OSV) UM-1	Uncontrolled Marine Loading (Bad Weather)	0.0002				0.14	0.001	0.08		1.01				0.54	0.26	0.21
(OSV) GT-1	GT Generator 1		0.00002	0.002	0.0003	0.0006		0.002	0.038		0.0001	0.0001	0.002		0.007	0.003
(OSV) GT-2	GT Generator 2		0.0000	0.0022	0.0003	0.001		0.0017	0.038		0.000	0.000	0.0016		0.007	0.003
(OSV) EDG-1	CAT 3516C - No. 1			0.0008		0.024			0.002						0.009	0.006
(OSV) EDG-3	CAT 3512C - No. 1			0.0001		0.003			0.000						0.001	0.001
(OSV) F-1	OSV Fugitive Emissions	0.000001				0.001	0.0001	0.0004		0.002				0.0001	0.001	0.002
(OSV) F-2	OSV Fugitive Emissions - Hose Disconnects	0.0000002				0.0002	0.000001	0.00001		0.001				0.00001	0.0001	0.00003
(OSV) MSS-2	MSS - Other Misc. Maintenance															
	TOTAL EMISSIONS (TPY)	**0.001**	**0.000**	**0.007**	**0.0007**	**1.148**	**0.008**	**0.602**	**0.099**	**7.828**	**0.0001**	**0.0002**	**0.0031**	**4.180**	**2.030**	**1.637**

* P stands for Platform and OSV stands for Offshore Service Vessel

3.2 Marine Loading [EPN (P) M-1]

Crude oil will be loaded into VLCCs at the Deepwater Port at a proposed annual rate of 365 million barrels per year (bbl/yr). The maximum hourly rate (lb/hr) for crude loading will be 85,000 bbl/hr. Uncontrolled VOC emissions from loading were estimated using EPA emission factors from AP-42, Chapter 5, Section 5.2. Equation (2) in this section was developed specifically for estimating emissions from the loading of crude oil into ships and ocean barges. Up to 98% of the VOC vapors from the VLCC due to crude loading will be captured and routed to a vapor processing module onboard the Offshore Service Vessel positioned alongside the VLCC.

Based upon expected crude oil slates, a Reid Vapor Pressure (RVP) of 10 psi was assumed for the marine loading emission rate calculations. The maximum and average H_2S concentrations in the sweet crude were assumed to be 25 parts per million by volume (ppm_v) and 5 ppm_v, respectively.

Detailed crude oil assays from producers are not normally available to the public. Some basic parameters such as specific gravity, viscosity, and sulfur content can be found on-line, but detailed data (e.g. HAP speciation) are typically not available. Nevertheless, Texas GulfLink attempted to collect what HAP speciation data could be found for particular crudes. A worst-case HAP speciation profile was obtained by reviewing the assays of crudes that could potentially be loaded (e.g. various West Texas Intermediate crudes) and obtaining the HAP concentrations that were available in them (e.g. for benzene, n-hexane, toluene). To address n-hexane from

crudes that did not specifically list it, the weight fraction of "C6 Paraffins" (in which category n-hexane would be included) was conservatively assumed to be entirely n-hexane.

Crude assay HAP concentrations were compared to the default speciation profile for crude oil in EPA's Tanks 4.09d program (which gives the most comprehensive list of HAP compounds). The highest HAP concentration (weight fraction) was chosen from all profiles gathered, to yield a worst-case HAP speciation profile. VOC emissions from crude oil loading (uncontrolled and controlled) make up 96% of the total VOC emissions from the proposed deepwater port facility (all emission sources). For these loading calculations, this worst-case HAP speciation profile was used.

3.3 Offshore Service Vessel (OSV) Emission Sources

3.3.1 Gas-Fired Electric Generator Engines [EPNs (OSV) GT-1 and (OSV) GT-2]

Two 1,800 kilowatt (KW) non-emergency gas turbine (GT) electric generators will be installed on the OSV along with the vapor recovery system (processing module). These GT generators will be used to supply electricity to the OSV's main buss. Exhaust gas heat from the GTs will be recovered for a water/glycol heating system used for vapor processing module drier regeneration and L-VOC vaporization. A dedicated heat recovery unit will be installed on the exhaust of each GT. The 2 GTs will be combined-cycle GTs. The two diesel electric generators on the OSV (described next) will operate in backup mode to the two GT generators during VLCC loading. Fuel for the GT generators will consist of L-VOC only at loads less than 90%, and a 60/40 mixture of L-VOC/S-VOC when the generators are at 90% load. The generators will operate at 90% load for the entire time of VLCC loading (approximately 33 hours). For the approximate 1 hour time for connecting the transfer hose from the VLCC to the OSV, the GT generators will operate at less than 90% load. The generators can operate at 100% load, but this would only be for very short duration spikes in operation (e.g. during generator startup). The startup time for the GT generators will be very short, on the order of 5 to 8 minutes.

Pollutant emissions were conservatively estimated assuming the 2 generators operate at 90% load for the entire 34 hours (i.e., 1 hour for hose connection and 33 hours for VLCC loading). Maximum emission rates for the combustion pollutants of NOx, CO, $PM/PM_{10}/PM_{2.5}$, and un-combusted VOC were estimated using emission factors from the GT generator manufacturer (OPRA Turbines) based on 15% O_2 correction. Maximum SO_2 emissions were estimated using EPA's AP-42 emission factor in Table 3.2-2a for natural gas combustion. Maximum greenhouse gas emissions, expressed as CO_2e, were estimated using the emissions factors for natural gas and the CO_2, CH_4, and N_2O factors from Tables C-1 and C-2 of 40 CFR 98 Subpart C, and the global warming potentials of these compounds from Table A-1 of 40 CFR 98, Subpart A.

3.3.2 Diesel-Fired Electric Generator Engines [EPNs (OSV) EDG-1 and (OSV) EDG-3]

There will be a total of 4 non-emergency diesel-fired generators on the OSV: 2 Caterpillar 3516C generators at 2,000 kW each and 2 Caterpillar 3512C generators at 1,700 kW each. These generators will also supply electricity to the OSV. However, only 2 generators will operate at a

time (one Cat 3516C and one Cat 3512C) during VLCC loading. Therefore, for permitting purposes, emissions from only the 2 operating generators were included in the emission rate calculations. Maximum emission rates for the combustion pollutants of NOx, CO, $PM/PM_{10}/PM_{2.5}$, and un-combusted VOC were estimated using emission factors from 40 CFR 89.112(a) Table 1, as referenced by 40 CFR 60, NSPS IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The maximum emission rate for the combustion pollutant SO_2 was estimated using the emission factor from AP-42, Chapter 3.4 (for "large" stationary diesel-fired generators), Table 3.4-1. The SO_2 factor was obtained by multiplying the factor in the table (0.00809 lb/hp-hr) with S_1, which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG (CO_2e) were obtained from 40 CFR 98, Tables C-1 and C-2, assuming natural gas combustion.

3.3.3 Fugitive Emissions from Vapor Processing Module [EPN (OSV) F-1]

Small fugitive VOC emissions will result from assumed emission leaks from vapor processing module piping components such as valves and connectors (flanges). Emission factors from TCEQ's guidance document, *Air Permit Technical Guidance for Chemical Sources – Fugitive Guidance* (APDG 6422, June 2018), were used to estimate VOC emissions. Specifically, the "Petroleum Marketing Terminal" (PMT) factors from Table II of the document were used, which factors assume a 28 PET leak detection and repair (LDAR) program will be implemented. The PMT emission factors were chosen based on the TCEQ's memo dated 12/5/2005 allowing these factors for equipment components in pipeline breakout stations for crude oil and fuel service (gasoline, diesel, and jet fuel). The proposed Texas GulfLink *onshore* tank terminal is a pipeline breakout station, and the crude oil from that facility is transferred directly to the offshore platform for loading into the VLCCs. So, the crude oil vapors collected from VLCC loading by the OSV vapor processing module will be vapors from a crude pipeline breakout station.

The 28PET leak detection and repair (LDAR) program involves an audio, visual, and olfactory (AVO) inspection of the module piping. An emissions control credit is included in the emission factors, so no other control credits were applied.

For the emission calculations, based on vapor pressure, condensed crude oil vapor (L-VOC and S-VOC) is assumed to be a "Light Liquid". The total VOC emission rate was obtained by multiplying the count of a particular component (e.g. valve) by the component's emission factor in Light Liquid service, then summing the emissions from all components. To be conservative, the gas/vapor emission factor was used for those piping components not addressed by Table II in the TCEQ guidance document. The average H_2S concentration in sweet crude was assumed to be 5 ppm_v. The HAP speciation profile was obtained from the default speciation for crude oil in the TANKS 4.09d program, and then modified for site-specific assays to include n-hexane as a speciated HAP. Liquid-side (as opposed to vapor-side) weight fractions were used for the emission calculation because fugitive emissions occur directly from the liquid in the piping (i.e., from assumed pin hole leaks from a valve packing gland, a gasket in between two flange connections, etc.). There is no vapor space for a vapor-side speciation profile to form. For non-fugitive emission sources (e.g. VLCC hold tank, pipeline pig receiver, hose ending for disconnects, etc.), a vapor space can form which allows a vapor concentration profile to be established.

3.3.4 Fugitive Emissions from Hose Disconnects [EPN (OSV) F-2]

Small fugitive VOC emissions will result from disconnecting the 16-inch flexible hose between the VLCC and the OSV vapor processing module. Although the flexible hose will be approximately 250 feet long, only the 2 feet at the end of the hose at the connection point would release a small amount of vapor upon disconnect before the hose is flushed with nitrogen back to the VLCC crude oil storage hold.

VOC emissions were estimated by, first, calculating the actual volume inside of the 2 foot long hose section, using the inside diameter and length of the section. Because the hose will be under pressure (1 psig) when disconnected, it is assumed that the entire volume of gas inside the hose section will be emitted to atmosphere. In the calculation, the volume of gas inside the hose (actual cubic feet) is corrected to standard volume (standard cubic feet).

VOC emissions were calculated by dividing the standard volume (scf) of the hose vapor to the molal volume of an ideal gas (385.3 scf/lb-mol) to obtain the lb-mole of emitted vapor when the hose section is opened to the atmosphere. Then, to obtain the mass rate, the vapor molecular weight of crude oil (50 lb/lb-mol) was multiplied to the lb-mole of emitted vapor. This calculation results in a mass rate per receiving event (lb/event). To obtain maximum hourly (lb/hr) and annual average (tpy) rates, it was assumed that a single hose disconnect event will last for a one hour, and that the maximum number of hose disconnects per year will be 180 events (i.e., 180 VLCC loads per year each having one hose disconnect).

3.3.5 Uncontrolled VLCC Loading Due to Bad Weather [EPN (OSV) UM-1]

Throughout the year, there may be occasions where a VLCC is being loaded and inclement weather arises that creates an unsafe loading condition. For such a situation, it is safer to disconnect the vapor collection hose between the VLCC and OSV, finish loading the VLCC, and have both the OSV and VLCC depart the Deepwater Port for a safer area. Such weather-driven evacuations are extremely rare, maybe once every 2 – 3 years. Nevertheless, VOC emissions were estimated for such a rare event. For this estimation, it was conservatively assumed that an unsafe loading event would occur three (3) times a year, and that each event would last a maximum six (6) hours. The same AP-42 marine loading calculation method used for normal (controlled) VLCC loading was used for this uncontrolled situation (i.e., emission factors from AP-42, Chapter 5, Section 5.2, Equation (2) for loading crude oil into ships). The same worst-case HAP speciation profiled used for controlled VLCC loading was used for this uncontrolled situation (see description of how the worst-case HAP speciation profile was obtained in Sec. 3.2 above).

3.3.6 Other Miscellaneous Maintenance Activities [EPN (OSV) MSS-2]

VOC emissions were estimated for miscellaneous maintenance activities of the equipment onboard the OSV (e.g. oil/filter changes, clearing vapor processing module lines, etc.). Oil/filter and other maintenance activity events are expected to occur every 60 days (or about 6 maintenance events per year), to last 4 hours per event, and emit 1 kg (2.2 lbs) of VOC per event.

Module line clearing is expected to occur after each VLCC load (180 loads per year), last 1 hour per event, and emit 4 kg (8.8 lbs) of VOC per event.

3.4 Platform Emission Sources

3.4.1 Diesel-Fired Electric Generator Engines [EPNs (P) G-1 and (P) G-2]

Two 650 KW non-emergency electric generators will be used to supply electricity to the platform. Maximum emission rates for the combustion pollutants of NOx, CO, $PM/PM_{10}/PM_{2.5}$, and un-combusted VOC were estimated using emission factors from 40 CFR 89.112(a) Table 1, as referenced by 40 CFR 60, NSPS IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The maximum emission rate for the combustion pollutant SO_2 was estimated using the emission factor from AP-42, Chapter 3.4 (for "large" stationary diesel-fired generators), Table 3.4-1. The SO_2 factor was obtained by multiplying the factor in the table (0.00809 lb/hp-hr) with S_1, which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG were obtained from 40 CFR 98, Tables C-1 and C-2, assuming Distillate Fuel Oil No. 2 (for diesel).

3.4.2 Diesel-Fired Portal Crane Engine [EPNs (P) C-1]

A 425 hp (317 KW) portal crane will be used on the platform. Maximum emission rates for the combustion pollutants of NOx, CO, $PM/PM_{10}/PM_{2.5}$, and un-combusted VOC were estimated using emission factors from 40 CFR 89.112(a) Table 1, as referenced by 40 CFR 60, NSPS IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The maximum emission rate for the combustion pollutant SO_2 was estimated using the emission factor from AP-42, Chapter 3.4 (for "large" stationary diesel-fired generators), Table 3.4-1. The SO_2 factor was obtained by multiplying the factor in the table (0.00809 lb/hp-hr) with S_1, which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG were obtained from 40 CFR 98, Tables C-1 and C-2, assuming Distillate Fuel Oil No. 2 (for diesel).

3.4.3 Day Tank Storing Diesel Fuel [EPN (P) DT-1]

The Deepwater Port will include a fixed-roof tank used to store diesel fuel, with a storage capacity of 20,000 gallons. VOC emissions were calculated using U.S. EPA's TANKS 4.09d program. The throughput is proposed to be 300,000 gallons per year. The HAP speciation profile was obtained from the default speciation for diesel in the TANKS 4.09d program.

3.4.4 Belly Tanks Storing Diesel Fuel [EPNs (P) BT-1, BT-2, BT-3, BT-4]

VOC emissions were estimated from 4 "belly" tanks (i.e., tank is part of the equipment and not stand-alone) storing diesel fuel. These tanks are associated with the 2 electric generators, the portal crane, and the firewater pump. The belly tanks associated with the electric generators and portal crane are expected to have a maximum diesel throughput of approximately 100,000 gal/year. Because the firewater pump is emergency use only, the diesel fuel throughput for it

was assumed much less, approximately 1,000 gal/year. The EPA's TANKS 4.09d program was used to estimate VOC emissions from all 4 tanks. The HAP speciation profile was obtained from the default speciation for diesel in the TANKS 4.09d program.

3.4.5 Crude Oil Surge Tank [EPN (P) T-1]

The proposed Deepwater Port will include one fixed roof tank used as a surge tank, with a storage capacity of 84,000 gallons. VOC emissions were calculated using U.S. EPA's TANKS 4.09d program. Based upon expected crude slates, a Reid Vapor Pressure (RVP) of 10 psi was assumed for the surge tank emission calculation. The throughput is proposed to be 84,000 gallons per year. The average H_2S concentration in the sweet crude was assumed to be 5 ppm_v. The HAP speciation profile was obtained from the default speciation for crude oil in the TANKS 4.09d program and then modified for site-specific assays to include n-hexane as a speciated HAP.

3.4.6 Firewater Pump Engine [EPN (P) FWP-1]

The emergency-use firewater pump (FWP) engine will be started periodically to ensure its proper operation. Maximum emission rates for the combustion pollutants of NOx, CO, PM_{10}/$PM_{2.5}$, and un-combusted VOC were estimated using emission factors from 40 CFR 60, Subpart IIII, Table 4 [225<=kW<450 (300<=Hp<600)]. The PM factor in this table was used for both PM_{10} and $PM_{2.5}$. The NMHC + NOx factor in the table was used for VOC and NOx by assuming 92% NOx and 8% VOC, based on the ratio of the NOx to VOC AP-42 emission factors. The maximum emission rate for the combustion pollutant SO_2 was estimated using the emission factor from AP-42, Chapter 3.4 (for "large" stationary diesel-fired generators), Table 3.4-1. The SO_2 factor was obtained by multiplying the factor in the table (0.00809 lb/hp-hr) with S_1, which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG were obtained from 40 CFR 98, Tables C-1 and C-2, assuming Distillate Fuel Oil No. 2 (for diesel). The engine will be operated as part of reliability testing for no more than 100 hours per year. This reliability testing is considered a Maintenance, Startup, and Shutdown (MSS) activity.

3.4.7 Pipeline Pigging Operations [EPN (P) P-1]

VOC emissions will result from pipeline pigging operations at the offshore Deepwater Port. Emissions were estimated for pig launching and receiving using the worst-case operation as the emissions basis for the application. The volume (actual cubic feet) of each pig launcher and receiver was calculated based on the inside diameter and length. Because the receiver is at pressure (≤ 1 psig) before it is opened, the volume of gas inside (assumed to be entirely emitted to atmosphere) is corrected to standard volume (standard cubic feet).

VOC emissions were calculated by, first, dividing the standard volume (scf) of the chamber vapor to the molal volume of an ideal gas (385.3 scf/lb-mol) to obtain the lb-mol of emitted vapor when the chamber is opened to the atmosphere. Then, to obtain the mass rate, the vapor molecular weight of crude oil (50 lb/lb-mol) was multiplied to the lb-mol of emitted vapor. This calculation results in a mass rate per receiving event (lb/event). To obtain a maximum hourly rate (lb/hr) and annual average rate (tpy), it was assumed that a single pigging event will last for a half hour,

and that the maximum number of pigging events per year will be 12 events.

3.4.8 Platform Fugitive Emissions [EPN (P) F-1]

Fugitive VOC emissions will result from assumed small emission leaks from piping components such as valves, connectors (flanges), and pump seals. Emission factors from TCEQ's guidance document, *Air Permit Technical Guidance for Chemical Sources – Fugitive Guidance* (APDG 6422, June 2018), were used to estimate VOC emissions. Specifically, the "Petroleum Marketing Terminal" (PMT) factors from Table II of the document were used, which factors assume a 28 PET leak detection and repair (LDAR) program will be implemented. The PMT emission factors were chosen based on the TCEQ's memo dated 12/5/2005 allowing these factors for equipment components in pipeline breakout stations for crude oil and fuel service (gasoline, diesel, and jet fuel). The proposed Texas GulfLink *onshore* tank terminal is a pipeline breakout station, and the crude oil from that facility is transferred directly to the offshore platform for loading into ships. So, the crude oil in the offshore platform piping is, by extension, oil from a crude pipeline breakout station.

The 28PET leak detection and repair (LDAR) program is specific to petroleum marketing terminals and involves an audio, visual, and olfactory (AVO) inspection of the above-ground pipeline system. An emissions control credit is included in the emission factors, so no other control credits were applied.

For the calculations, based on vapor pressure, crude oil is assumed to be a "Light Liquid". The total VOC emission rate was obtained by multiplying the count of a particular component (e.g. valve) by the component's emission factor in Light Liquid service, then summing the emissions from all components. The average H_2S concentration in the sweet crude was assumed to be 5 ppm_v. The HAP speciation profile was obtained from the default speciation for crude oil in the TANKS 4.09d program and then modified for site-specific assays to include n-hexane as a speciated HAP. Liquid-side (as opposed to vapor-side) weight fractions were used for the emission calculation because fugitive emissions occur directly from the liquid in the piping (i.e., from assumed pin hole leaks from a valve packing gland, a gasket in between two flange connections, etc.). There is no vapor space for a vapor-side speciation profile to form. For non-fugitive emission sources (e.g. VLCC hold tank, pipeline pig receiver, hose ending for disconnects, etc.), a vapor space can form which allows a vapor concentration profile to be established.

3.4.9 SPM System Fugitive Emissions [EPN (P) F-2]

Valves and flanges associated with the 2 Single Point Mooring (SPM) buoys are assumed to emit VOC. To estimate these emissions, emission factors were obtained from *Table 4, Average Emission Factors – Petroleum Industry (Oil & Gas Production Operations) of TCEQ's Addendum to RG-360A, Emission Factors for Equipment Leak Fugitives Components*, January 2008. Specifically, the factors for Oil and Gas Production Operations, for Light Oil > 20° API were used because none of the emission factor source categories (i.e., for SOCMI, Oil and Gas Production, Refinery, or Petroleum Marketing Terminal) reasonably apply to an SPM system. The worst-case (highest) factors for the valves and flanges making up the two SPM systems were chosen, which were the

Oil and Gas Production Operation factors for Light Oil > 20° API. Note that use of these factors does not require a monthly AVO; therefore, Texas GulfLink does not plan on conducting an AVO inspection of the two SPMs. Light liquid emission factors were used, and emissions were conservatively estimated to be 100% VOC.

3.4.10 Crude Sampling Activities [EPN (P) S-1]

Crude oil assay quality testing will occur at the offshore platform. The crude oil will be sampled, and its physical and chemical properties will be determined for quality assurance. Very small VOC emissions will occur as a result of this sampling activity. To estimate VOC emissions, it was assumed that 1 sample would be taken each work shift, with 3 shifts per day. A VOC emission of 0.1 lb/sample was assumed.

3.4.11 Routine Pump Maintenance [EPN (P) PM-1]

The 4 proposed electric-driven crude oil pumps at the offshore platform will need periodic maintenance. Very small amounts of VOC emissions will result from opening and draining the pumps. The emissions were estimated assuming 1 lb of VOC will be emitted per maintenance event, and that there will be one maintenance event for each of the four pumps per year.

3.4.12 Abrasive Blasting / Painting [EPN (P) MSS-1]

The proposed offshore platform coatings will have a designed life of 20+ years. Sandblasting and recoating of the platform structure should not be required within this period, other than spot maintenance where coatings may be damaged by contact with metal objects such as hammers, wrenches, or scaffolding. However, to comply with NEPA requirements, potential maximum hourly (lb/hr) and annual average (tons/yr) emission rates were estimated for PM emissions from abrasive blasting and VOC emissions from painting.

For PM_{10}/$PM_{2.5}$ emissions from abrasive blasting, an application rate of 2,000 lb/hr was assumed. Per industry expertise and best management practices, it was assumed that sandblasting would occur for 8 hours per day and a cumulative total 5 days per year (i.e., a total of 40 hours per year). An uncontrolled PM_{10} emission factor of 0.0014 lb/lb usage was assumed based on the TCEQ's Abrasive Blast Cleaning technical guidance document (RG-169, March 2001). This factor assumes silica sand is used as the blasting media and the factor is higher (more conservative) than the PM_{10} factor of 0.00034 lb/lb usage assuming coal slag is used as the blasting media. Finally, based on this TCEQ guidance, the $PM_{2.5}$ emissions factor is assumed to be equal to 15% of the PM_{10} emissions factor.

Potential VOC and PM emissions were estimated from miscellaneous painting activities. VOC emissions were estimated for the manual application of paint for touch-ups and the use of aerosol cans containing spray paints, primers, degreasers, cleaners and other solvents, and rust inhibitors. VOC and PM emissions were estimated for the spray painting of fixed structures (e.g. tanks). Conservatively, 100% of the VOC content (lb VOC/gal) of all painting materials was assumed to evaporate to the atmosphere. PM emissions from spray painting were estimated

using assumed $PM_{10/2.5}$ content, transfer efficiency, and droplet factors for overspray. The detailed painting calculations are shown in Appendix C of this PSD application.

4.0 REGULATORY APPLICABILITY

In this section, potentially applicable federal and state air regulations are reviewed for the proposed Texas GulfLink Deepwater Port Facility. Note that the US Environmental Protection Agency (EPA) does not normally administer the Clean Air Act (CAA) in the western Gulf of Mexico because under CAA Section 328, the Department of Interior's Bureau of Ocean Energy Management (BOEM) is responsible for regulating outer continental shelf (OCS) sources, as defined by the OCS Lands Act, in that area. However, because the proposed Deepwater Port Facility will not be a defined OCS source, Section 328 does not apply. Instead, the EPA is the CAA permitting authority for non-OCS sources in federal waters.

The EPA regards a provision of the Deepwater Port Act (DPA), 33 U.S.C. §1501, *et seq,* as the primary source of its authority to apply the CAA to activities associated with deepwater ports. The DPA applies federal law, and applicable State law, to deepwater ports and further designates deepwater ports as "new sources" for CAA purposes. Accordingly, for the source's pre-construction and operating permits, EPA will rely on the provisions of Title 1 and Title V, respectively, of the CAA supporting applicable regulations, and on the State's law to the extent applicable and not inconsistent with federal law.

Section 4.1 below describes the potentially applicable federal air regulations in Title 40 of the Code of Federal Regulations (40 CFR). Section 4.2 below describes the potentially applicable Texas air regulations in Title 30 of the Texas Administrative Code (30 TAC), as administered by the Texas Commission on Environmental Quality (TCEQ). Appendix D of this application contains a detailed regulatory analysis of the applicable regulations summarized in the sections below. Because Texas is the nearest adjacent state to the proposed offshore Texas GulfLink Deepwater Port Facility, TCEQ Title V forms are used to document this detailed analysis.

4.1 Federal Air Regulations – 40 CFR

The federal air regulations reviewed include New Source Performance Standards (NSPS) in 40 CFR Part 60, National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 61, and NESHAP for Source Categories (which outlines Maximum Achievable Control Technology, “MACT”) in 40 CFR Part 63. Note that the applicability of 40 CFR Parts 70 (State) and71 (Federal) Title V programs was described in Section 1.2 of this permit application.

NSPS – 40 CFR Part 60

<u>Subpart A: General Provisions</u>
Any emission source subject to a specific NSPS is also subject to applicable general provisions in this subpart. Unless specifically excluded by the source-specific NSPS, Subpart A generally requires initial construction notification, initial startup notification, performance tests/notifications, general monitoring requirements, general recordkeeping requirements, and semi-annual monitoring and/or excess emission reports. Because the proposed Texas GulfLink

Deepwater Port Facility will be subject to one or more source-specific NSPS, the facility will comply with the applicable general provisions under Subpart A.

Subparts D, Da, Db, Dc: Steam Generating Units

The proposed Deepwater Port Facility (OSV or platform) will not operate a defined steam generating unit (SGU). Therefore, these rules that apply to SGUs do not apply.

Subpart Kb: Petroleum Liquid Storage Vessels Constructed, Reconstructed, or Modified after July 23, 1984

This subpart applies to a storage vessel with a capacity greater than or equal to 20,000 gallons that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification commenced after July 23, 1984. However, the subpart does not apply to a storage vessel with a capacity greater than or equal to 40,000 gallons storing a liquid with a maximum true vapor pressure (TVP) less than 0.5 psia, or with a capacity between 20,000 and 40,000 gallons storing a liquid with a maximum TVP less than 2.2 psia.

OSV

The two L-VOC pressure storage tanks (part of the vapor processing module) will each have a storage capacity of 1,940 bbl (81,480 gal) and store a VOL with a maximum TVP greater than 0.5 psia. However, per 40 CFR 60.110b(d)(3), Subpart Kb does not apply to vessels that are "permanently attached to mobile vehicles such as truck, railcars, barges, or ships". Therefore, this subpart does not apply to the two L-VOC storage tanks on the OSV.

Platform

Although the proposed crude surge tank on the platform [EPN (P) T-1] will have a capacity greater than 40,000 gallons, it will not be operated as a storage tank. Surge/relief tanks are different from traditional storage tanks since they do not typically hold liquids during normal operations. Such tanks will receive liquids only during a sudden surge event for which the tank will serve as "relief" and quickly receive the excess liquids for a brief period prior to being returned to the pipeline. The surge tank will not typically contain any crude oil. Therefore, this subpart does not apply to the surge tank.

Additionally, the proposed fixed roof diesel-fuel storage tank [EPN (P) DT-1] will have a storage capacity of 20,000 gallons, but the TVP of diesel is significantly less than 2.2 psia. Therefore, the diesel-fuel tank will also not be subject to this rule. Finally, the "belly" tanks shown in the emission calculations are tanks that are part of the electric generators, portal crane, and firewater pump engine housing. They are not considered stand-alone tanks and are not subject to this regulation.

Subpart GG: Stationary Gas Turbines

The provisions of this subpart apply to all stationary gas turbines with a heat input at peak load greater than or equal to 10 MMBtu/hr based on the lower heating value (LHV) of the fuel. Any gas turbine which commences construction, modification, or reconstruction after October 3, 1977, is subject to requirements of this subpart.

The OSV will operate 2 stationary gas turbine electric generators each with a maximum heat input greater than 10 MMBtu/hr, whether firing L-VOC or S-VOC fuel. The platform will not operate a stationary gas turbine. Therefore, this rule applies to the 2 OSV gas turbine electric generators. However, as shown later, the 2 gas turbine generators are subject to NSPS KKKK and, therefore, are exempt from the requirements of this subpart.

Subpart IIII: Stationary Compression Ignition IC Engines

This subpart applies to compression ignition (CI), or diesel-fired, engines. There will be a total of 4 CI engines driving 4 non-emergency electric generators onboard the OSV, but only 2 of the engines will be operating during VLCC loading (i.e., emissions from the 2 operating engines are included in the air permit application). Additionally, there will be 4 CI engines located on the platform driving 2 non-emergency electric generators, 1 emergency firewater pump, and 1 portal crane. All 8 engines will be constructed after the applicable date of July 11, 2005. Therefore, the Deepwater Port Facility will comply with the applicable provisions of this subpart for these 8 CI engines.

Subpart JJJJ: Stationary Spark Ignition IC Engines

This subpart applies to spark ignition (SI), or gas (gasoline)-fired, engines that are constructed (ordered) after June 12, 2006 and that have a maximum engine power rating > 500 hp. There will be 2 gas turbine (GT) generators on board the OSV associated with the vapor processing module. These 2 GT generators will each have a power rating > 500 hp and combust L-VOC and S-VOC waste gas from the vapor processing module. The GT generators will supply electricity to the OSV and provide usable heat for the vapor recovery process. The Deepwater Port Facility will comply with applicable provisions of this subpart for the 2 GT generators on the OSV.

Subpart KKKK: Stationary Combustion Turbines

This subpart applies to stationary combustion turbines with a heat input at peak load equal to or greater than 10 MMBtu/hour based on the higher heating value (HHV) of the fuel, where only the heat input to the turbine is counted when determining peak heat input for applicability (i.e., additional heat input from an associated HRSG or duct burners are not counted). However, this subpart does apply to emissions from any associated HRSG and duct burners. To be subject to this subpart, the combustion turbine must have commenced construction, modification, or reconstruction after February 18, 2005.

The 2 GT electric generators onboard the OSV will each have a peak heat input of greater than 10 MMBtu/hr, whether firing L-VOC or S-VOC. Therefore, they are subject to applicable requirements of this subpart and, therefore, are exempt from requirements of NSPS Subpart GG.

NESHAP – 40 CFR Part 61

Subpart A: General Provisions

Any emission source subject to a specific NESHAP is also subject to applicable general provisions in this subpart. The proposed Deepwater Port Facility will have emissions of benzene as a result of handling and storing crude oil. Benzene is a listed applicable substance in 40 CFR 61.01(a).

Therefore, a review of potentially applicable NESHAP rules was performed for the facility's emission sources.

Subpart V: Equipment Leaks of VHAP Service

The crude to be handled and loaded at the proposed Deepwater Port Facility will contain benzene at less than 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate "In VHAP Service", as defined in 40 CFR 61.241. Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply as well.

NESHAP for Source Categories ("MACT") – 40 CFR Part 63

Subpart A: General Provisions

This subpart applies to any facility that is subject to an individual subpart under 40 CFR 63. Because the diesel (compression ignition) engines at the proposed Deepwater Port Facility will be subject to Subpart ZZZZ, the facility will comply with applicable requirements in Subpart A.

Subpart H: Equipment Leaks of Organic HAPs

The provisions of this subpart apply to pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port Facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP). Therefore, this subpart does not apply.

Subpart Y: National Emission Standards for Marine Tank Vessel Loading Operations

As shown in Table 3-2 above, Texas Gulflink's proposed DWP is not expected to emit greater than 10 tons per year (tpy) of a single hazardous air pollutant (HAP) or greater than 25 tpy of an aggregate of all speciated HAPs. Therefore, the facility is considered a minor (area) source of HAPs. There are requirements under this subpart that apply to an area source, for marine tank vessel loading operations. For example, 40 CFR 63.562(b)(1)(i)–(iii) describe requirements for marine terminal vapor collection systems, the compatibility of marine vessel vapor collection equipment, and marine vessel vapor tightness. The proposed Deepwater Port Facility will meet these area source requirements by using the OSV vapor collection and processing module. However, as described below, it is Texas GulfLink's position that Subpart Y does not apply to the proposed Deepwater Port Facility.

For some marine tank vessel loading operations, 40 CFR Part 63, Subpart Y (referred to generally as "Subpart Y") provides the regulatory framework for setting HAP emissions limits. However,

for the reasons stated below, Subpart Y does not apply to Texas GulfLink's proposed DWP. Rather, Texas GulfLink asserts that the HAP emissions from its proposed facility are more appropriately considered through a case-by-case MACT analysis (40 CFR Part 63, Subpart B), rather than under Subpart Y.

a. Hazardous Air Pollution Regulation

The Clean Air Act (CAA) section 112 authorizes the EPA to regulate the emission of HAPs. CAA section 112(d) requires EPA to promulgate regulations establishing emission standards for each category or subcategory of major sources listed by the EPA under Section 112(c) of the CAA (Listed Sources). The emission standards for Listed Sources are referred to as National Emission Standards for Hazardous Air Pollutants (NESHAP).

The NESHAP establish Maximum Achievable Control Technology (MACT) standards for setting emissions limits for new and existing Listed Sources. In those instances where EPA has not established a MACT standard applicable to a major source of HAPs (i.e. for sources that are not a Listed Source), CAA section 112(g) applies. Under section 112(g), the MACT emission limitation is developed on a "case-by-case" basis.

In 1995, EPA promulgated a specific MACT standard for HAP emissions from the "marine tank vessel loading operations" source category – a Listed Source. That standard is found in Subpart Y. Under Subpart Y, new, major "offshore loading terminals" are required to reduce HAP emissions from marine tank loading operations by 95 weight-percent. HAP emissions can be controlled using one of two primary methods: vapor recovery or vapor combustion (VR/VC). See 59 Federal Register 25004, 25007 (May 13, 1994).

However, VR/VC is an onshore or near-shore control technology that has never been achieved in practice at a DWP. VR/VC creates significant and unique human and environmental safety concerns at DWPs, especially those like Texas GulfLink that are located in unprotected waters and plan to use a manned platform for port security, surge protection and emergency/environmental response. Texas GulfLink proposes to control VOC and HAP emissions during VLCC loading operations by recovering up to 98% of the crude oil vapors and routing them to a vapor processing module onboard an Offshore Service Vessel (OSV) stationed alongside the VLCC for the duration of loading. Unlike VR/VC, this VOC vapor recovery and processing method has been successfully demonstrated for crude ship loading operations in the North Sea and elsewhere.

Furthermore, and importantly, the proposed Texas GulfLink project does not meet the definition of an "offshore loading terminal" as that term is defined in Subpart Y. Therefore, Subpart Y is not applicable to Texas GulfLink's proposed project.

b. Texas GulfLink's Proposed DWP Does Not Meet the Definition of "Offshore Loading Terminal"

EPA's Subpart Y regulations define an "offshore loading terminal" in 40 CFR §63.561 as follows:

> *Offshore loading terminal means a location that has at least one loading berth that is 0.81 km (0.5 miles) or more from the shore that is used for* ***mooring*** *a marine tank vessel and loading liquids from shore*. (emphasis added)

A critical part of the definition of an offshore loading terminal is the need for at least one "loading berth." The term "loading berth" is defined as follows:

> *Loading berth means the loading arms, pumps, meters, shutoff valves, relief valves, and other piping and* ***valves necessary to fill marine tank vessels.*** *The loading berth includes those items* ***necessary for an offshore loading terminal****.* (emphasis added).

Finally, a "terminal" is defined as "all loading berths at any land or sea based structure(s) that loads liquids in bulk onto marine tank vessels." Based on these definitions, an *offshore* loading terminal subject to Subpart Y requires at least one loading berth at a sea based structure. The Texas GulfLink project will not be an offshore loading terminal as contemplated by these definitions.

The Texas GulfLink DWP will load tankers using an SPM buoy system. The tankers will be physically moored to the floating SPMs, not any platform. Once a ship is moored to the SPM, the oil is loaded directly into the crude oil tankers using 1,100-foot flexible hoses. The equipment "necessary" for Texas GulfLink to "fill marine tank vessels" or to "load liquids in bulk" include the pumps (located and controlled onshore), the subsea pipeline, the PLEMs, the SPMs, and the 1,100-foot flexible hoses connecting the SPMs to the tankers. There are no "loading arms" or "pumps" at the SPM, only the lengthy floating flexible cargo hoses. The SPM-system proposed by Texas GulfLink does not fall within the meaning of a loading berth.

Although it is part of the overall design of the Texas GulfLink project, the offshore fixed platform is not necessary for loading operations and not a loading berth. The flow of oil from shore to the tankers is driven by nine (9) mainline crude pumps and three (3) booster pumps located onshore and fully controlled from an onshore control room—not the platform. Likewise, system shut-off valves are located onshore downstream of the main pumps. There are no "loading arms" or "pumps" on the platform itself. In fact, no equipment critical to loading is located solely on the platform. The platform itself will be 1.25 nautical miles (1.43 miles) away from the 2 SPM buoys where the tankers are moored.

While all DWP applicants propose to load tankers in the same manner – via an SPM system, some DWP applicants, like Texas GulfLink, recognize the benefits of incorporating a manned platform (at significant additional cost) into their projects. The platform provides support in the event of

a discharge, accident, pipeline surge, or security event. The platform will not be necessary to the loading operation conducted through the SPM, as evidenced by the DWP applicants that propose an SPM-only DWP.

c. Case-by-Case MACT Analysis Under CAA 112(g)

Because the platform does not constitute a "loading berth" and because the DWP project proposed by Texas GulfLink does not fit within the meaning of an "offshore loading terminal" as those terms are defined in Subpart Y, a case-by-case MACT analysis under CAA 112(g) is the technically and legally more appropriate approach for establishing an emissions limit. Further, under a case-by-case MACT analysis, the Texas GulfLink project can be evaluated based on the unique aspects of its proposed design while taking into account the safety and operational issues.

Subpart VV: Oil-Water Separators and Organic-Water Separators

The provisions of this subpart apply to the control of air emissions from oil-water separators and organic-water separators for which another subpart of 40 CFR 60, 61, or 63 references the use of this subpart for such air emission control. No Part 60, 61, or 63 subpart that applies to the proposed Deepwater Port Facility references Subpart VV. In addition, the facility will not operate an affected source under Subpart VV. Therefore, this rule does not apply.

Subpart YYYY: Stationary Combustion Turbines

This MACT subpart applies to stationary combustion turbines located at a major source of HAP. As shown in Table 3-2 above, the proposed Deepwater Port Facility is considered a minor (area) source of HAP. Therefore, this subpart does not apply.

Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines (RICE)

The proposed Deepwater Port Facility will operate 2 compression ignition (CI) engines (out of 4 on the OSV) driving 2 electric generators (2,100 hp and 1,500 hp) during VLCC loading. Additionally, on board the OSV will be 2 spark ignition (SI) engines driving the 2 GT generators associated with the vapor processing module. On the platform, the Facility will operate 4 CI engines driving 2 electric generators (968 hp each), 1 emergency firewater pump (350 hp), and 1 portal crane (425 hp).

Per 40 CFR 63.6590(c), an affected source that meets any of the criteria in paragraphs (c)(1) through (7) of the section must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60 (NSPS) Subpart IIII for CI engines or Subpart JJJJ for SI engines, and no further requirements apply under this subpart. Because the proposed Deepwater Port Facility will be an area source of HAP, all 8 CI engines and the 2 SI engines meet the condition of 40 CFR 63.6590(c)(1); therefore, compliance with NSPS Subparts IIII and JJJJ demonstrates compliance with this subpart.

4.2 Texas Air Regulations – 30 TAC

As previously mentioned, for deepwater port license applications, the US EPA administers CAA requirements and reviews air permit applications using the nearest adjacent State's regulations. Because Texas is the nearest adjacent state to the proposed Deepwater Port Facility, the TCEQ rules and regulations would potentially apply to the Deepwater Port Facility. The TCEQ air quality regulations in 30 TAC Chapters 101 through 122 were reviewed for potentially applicable requirements.

Chapter 101: General Air Quality Rules

Chapter 101 covers general rules that may apply to the Deepwater Port Facility. Some items included in Chapter 101 are nuisance rules, inspection fees, emission fees, emission events, scheduled maintenance, and expedited permitting. The proposed Deepwater Port Facility will comply with applicable requirements listed in this chapter.

Chapter 111: Control of Air Pollution from Visible Emissions and Particulate Matter

Chapter 111 establishes standards for visible emissions and opacity from stationary vents, gas flares, ships, and other sources, and for particulate matter (PM) emissions from selected sources, including material handling and construction. In general, the opacity from a new stationary vent or stack must not exceed 20%, averaged over a 6-minute period. The opacity from a ship stack must not exceed 30%, averaged over a 5-minute period, except during reasonable periods of engine startup. Although not applicable, gas flares must not have visible emissions for more than 5 minutes in any consecutive 2-hour period. The Deepwater Port Facility will comply with applicable opacity and PM emission limits specified in this chapter.

Chapter 112: Control of Air Pollution from Sulfur Dioxide

Chapter 112 outlines emission limits as well as monitoring, reporting, recordkeeping requirements, and net ground-level concentration limits for sulfur compounds. The proposed Deepwater Port Facility will demonstrate compliance with the net ground-level concentration of applicable sulfur compounds (e.g. SO_2, H_2S) through air dispersion modeling analysis.

Chapter 113: Standards of Performance for Hazardous Air Pollutants and for Designated Facilities and Pollutants

Chapter 113 incorporates by reference the federal NESHAP for Source Category standards contained in 40 CFR Part 63. The applicability analysis for the federal NESHAP regulations is presented in Section 4.1.

Chapter 115: Control of Air Pollution from Volatile Organic Compounds

Chapter 115 establishes rules for VOC emissions from specific sources, including vent gases, loading, and unloading of VOCs. Chapter 115 applies to emission sources located in designated nonattainment counties, and specific covered attainment counties listed in §115.10. The requirements listed in Chapter 115 do not apply to the proposed Deepwater Port Facility because the facility will not be located in a designated nonattainment area, nor in one of the specifically listed attainment counties.

Chapter 116: Control of Air Pollution by Permits for New Construction or Modification

Through Chapter 116, the TCEQ administers the New Source Review (NSR) air permitting programs in Texas, including NNSR and PSD. However, for sources located on the OCS outside of the state seaward boundary, the US EPA administers the PSD (pre-construction) program, using nearest adjacent state regulations. Therefore, Texas GulfLink is applying to the US EPA (Region 6) for a synthetic minor permit prior to commencing construction.

Chapter 117: Control of Air Pollution from Nitrogen Compounds

Chapter 117 Subchapter B establishes emission limits for nitrogen compounds emitted from major industrial, commercial, and institutional sources located in ozone nonattainment areas. Because the proposed Deepwater Port Facility will not be a major source nor located in a designated nonattainment area, the requirements of this chapter to not apply.

Chapter 118: Control of Air Pollution Episodes

Chapter 118 establishes requirements for generalized and local air pollution episodes. The requirements listed in Chapter 118 do not apply to the proposed Deepwater Port Facility because the facility's location will not be in any geographical area that might be affected by an air pollution episode.

Chapter 122: Federal Operating Permits Program

The proposed Texas GulfLink Deepwater Port Facility will be a Title V major source of regulated pollutants (i.e., single pollutant with emissions greater than 100 tons per year, see Table 3-1); thus, it will require a federal Title V operating permit. For sources located on the OCS outside of the state seaward boundary, the US EPA administers the Title V permit program, using nearest adjacent state regulations. Therefore, the Deepwater Port Facility is required to submit an initial Title V operating permit application to the US EPA (Region 6) prior to starting operation of the facility. This application is being submitted to meet this requirement.

5.0 STATE-BACT SUMMARY

Per the requirements of 40 CFR 71.5(c)(3)(v), a federal Part 71 application must identify and describe air pollution equipment and compliance monitoring devices or activities. Because the proposed Deepwater Port Facility will be a synthetic minor source (i.e., not subject to federal PSD permitting), federal Best Available Control Technology (BACT) does not apply. However, the nearest adjacent state to the proposed facility is Texas, which has a state-BACT program for minor NSR sources. Therefore, this Title V permit application provides a summary of applicable Texas state-BACT as defined by the Texas Commission on Environmental Quality (TCEQ).

Unlike other US states that require *federal* Best Available Control Technology (BACT) evaluations for major new source or modification permitting only, the TCEQ requires a BACT review even for minor new source (state-only) permitting. The TCEQ uses a three-tiered approach to evaluate State-BACT. The evaluation begins at the first tier and progresses in sequence to the second and third tiers only if necessary. The TCEQ has defined Tier I BACT levels, and if an applicant agrees to Tier I BACT, then no further review is required. If the applicant does not meet Tier I BACT, then the Tier II BACT level is evaluated. If the applicant does not meet either Tier I or Tier II BACT, then a full Tier III BACT review is required. TCEQ's Tier III BACT review is equivalent to the federal BACT review involving a "top-down" approach to identify an emissions control that is considered BACT taking into consideration technical feasibility, cost, energy, safety, and other concerns.

As described more fully in the minor source permit application for the Texas GulfLink Project (submitted under separate cover), a review of TCEQ's Tier I and Tier II BACT was performed for the proposed Deepwater Port Facility emission sources. Note that GHG was not included in the review because the TCEQ has not defined BACT for GHG.

Table 5-1 provides a summary of the Tier I BACT review for applicable project emission sources.

Table 5-1: Summary of Tier I BACT

Emissions Unit Category	Pollutant	Tier I BACT
Platform (EPN)		
Marine Vessel Loading [(P) M-1]	VOC	• Route VOC to control device and meet the specific control device requirements • Annual vapor tightness test for marine vessel • AVO checks for leaks on marine vessel every 8 hours during loading • Loading rate and pressure at vapor collection connection monitored and recorded
Emergency Diesel FW Pump Engine [(P) FWP-1]	VOC, NOx, CO, SO_2	• Meeting applicable requirements of 40 CFR 60 Subpart IIII • ULSD (< 15 ppm_W sulfur content) • ≤ 100 hours non-emergency operation • Non-resettable runtime meter
	$PM_{10/2.5}$	• Same requirements as for VOC, NO, CO, and SO_2 • No visible emissions > 30 sec in any 6-min period

Emissions Unit Category	Pollutant	Tier I BACT
Pipeline Fugitives [(P) F-1, (P) F-2]	VOC	• No control (site-wide total Fugitive emissions < 10 tpy)
Storage Tank < 25K gal or TVP < 0.5 psia [(P) DT-1, BT-1, BT-2, BT-3, BT-4]	VOC	• Fixed roof with submerged fill • Uninsulated exterior surface exposed to the sun either aluminum or white
Storage Tank > 25K gal and 0.5 < TVP < 11.0 psia	--	• N/A
MSS for Piping with TVP > 0.5 psia [(P) P-1]	VOC	• Send material to slop. Drain remaining to pan, then pump to closed container (Alternative 2)
MSS for Pumps/Valves with TVP > 0.5 psia [(P) PM-1]	VOC	• Send material to slop. Drain remaining to pan, then pump to closed container (Alternative 1)
MSS for Abrasive Blasting/Painting [(P) MSS-1]	VOC, PM	• Use of high transfer efficiency equipment (for spot coating) • Use of a shroud when practical (for coating) • Good housekeeping and best management practices • Collect spent abrasive blast media and place in covered containers prior to disposal • No visible emissions crossing property line
OSV (EPN)		
Pipeline Fugitives [(OSV) F-1]	VOC	• No control (site-wide total Fugitive emissions < 10 tpy)
General MSS [(OSV) MSS-2]		• Use of good air pollution control and safe operating practices • Limiting duration and frequency of activities

Table 5-2 provides a summary of the Tier II BACT review for applicable project emission sources.

Table 5-2: Summary of Tier II BACT

Emissions Unit Category	Pollutant	Tier II BACT Selection
Platform and OSV (EPN)		
Diesel Generators [(P) G-1, (P) G-2, (OSV) EDG-1, (OSV) EDG-3]	VOC	• Compliance with applicable requirements of 40 CFR 60 Subpart IIII • Good combustion practices following manufacturer's specifications
	NOx	• Compliance with applicable requirements of 40 CFR 60 Subpart IIII • Lean burn combustion • Good combustion practices following manufacturer's specifications
	CO	• Compliance with applicable requirements of 40 CFR 60 Subpart IIII • Good combustion practices following manufacturer's specifications
	SO_2	• Use of ULSD fuel with no more than 15 ppm_w sulfur content
	$PM_{10/2.5}$	• Compliance with applicable requirements of 40 CFR 60 Subpart IIII • Use of ULSD fuel with no more than 15 ppm_w sulfur content • Good combustion practices following manufacturer's specifications

Emissions Unit Category	Pollutant	Tier II BACT Selection
OSV (EPN)		
GT Generators [(OSV) GT-1, (OSV) GT-2]	VOC	• Compliance with applicable requirements of 40 CFR 60 Subpart JJJJ • Good combustion practices following manufacturer's specifications
	NOx	• Adherence to IMO Tier III limit for NOx • Lean burn combustion • Compliance with applicable requirements of 40 CFR 60 Subpart JJJJ • Good combustion practices following manufacturer's specifications
	CO	• Compliance with applicable requirements of 40 CFR 60 Subpart JJJJ • Good combustion practices following manufacturer's specifications
	SO_2	• Fuel with sulfur content ≤ 5 gr/100 scf (hourly), 1 gr/100 scf (annual) • Good combustion practices
	$PM_{10/2.5}$	• Good combustion practices following manufacturer's specifications

6.0 PART 71 FORMS

Appendix E of this application contains the US EPA's Part 71 forms. These forms provide general information on the proposed Deepwater Port Facility of the Texas GulfLink Project. In addition, information is provided on the specific combustion pollutant and VOC-emitting process units and estimated maximum emission rates. Finally, a certification of compliance to be signed by a responsible official is included certifying the truth, accuracy, and completeness of the Part 71 permit application.

7.0 CERTIFICATION OF COMPLIANCE

Per 40 CFR 71.5(c)(9), a federal Title V permit application must contain a certification of compliance by a responsible official of truth, accuracy, and completeness, consistent with the requirements of §71.5(d). The Part 71 forms included in Appendix E of this application contains the applicable certification of compliance.

APPENDICES

Appendix A
Company Identifying Information
(TCEQ Core Data Form)

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal (*Core Data Form should be submitted with the renewal form*) ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 605724657		RN

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 4/1/2022

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*) *If new Customer, enter previous Customer below:*

Texas GulfLink, LLC

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
803289302	32070364859	83-4468810	

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	8333 Douglas Ave., Ste. 400						
	City	Dallas	State	TX	ZIP	77525	ZIP + 4

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(214) 712-2140		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (*Enter name of the site where the regulated action is taking place.*)

Deepwater Port

23. Street Address of the Regulated Entity: *(No PO Boxes)*								
	City		State		ZIP		ZIP + 4	
24. County	Brazoria							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Approximately 32.5 nautical miles off the coast of Brazoria County, southwest of Freeport, TX.		
26. Nearest City		State	Nearest ZIP Code
Freeport		TX	77541

27. Latitude (N) In Decimal:	28.552494		28. Longitude (W) In Decimal:	-95.028431	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
28	33	08.98	95	01	42.35

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
4612		486110	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Deepwater Port

34. Mailing Address:								
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
( ) -		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☒ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	James Smith	41. Title:	Air Program Manager

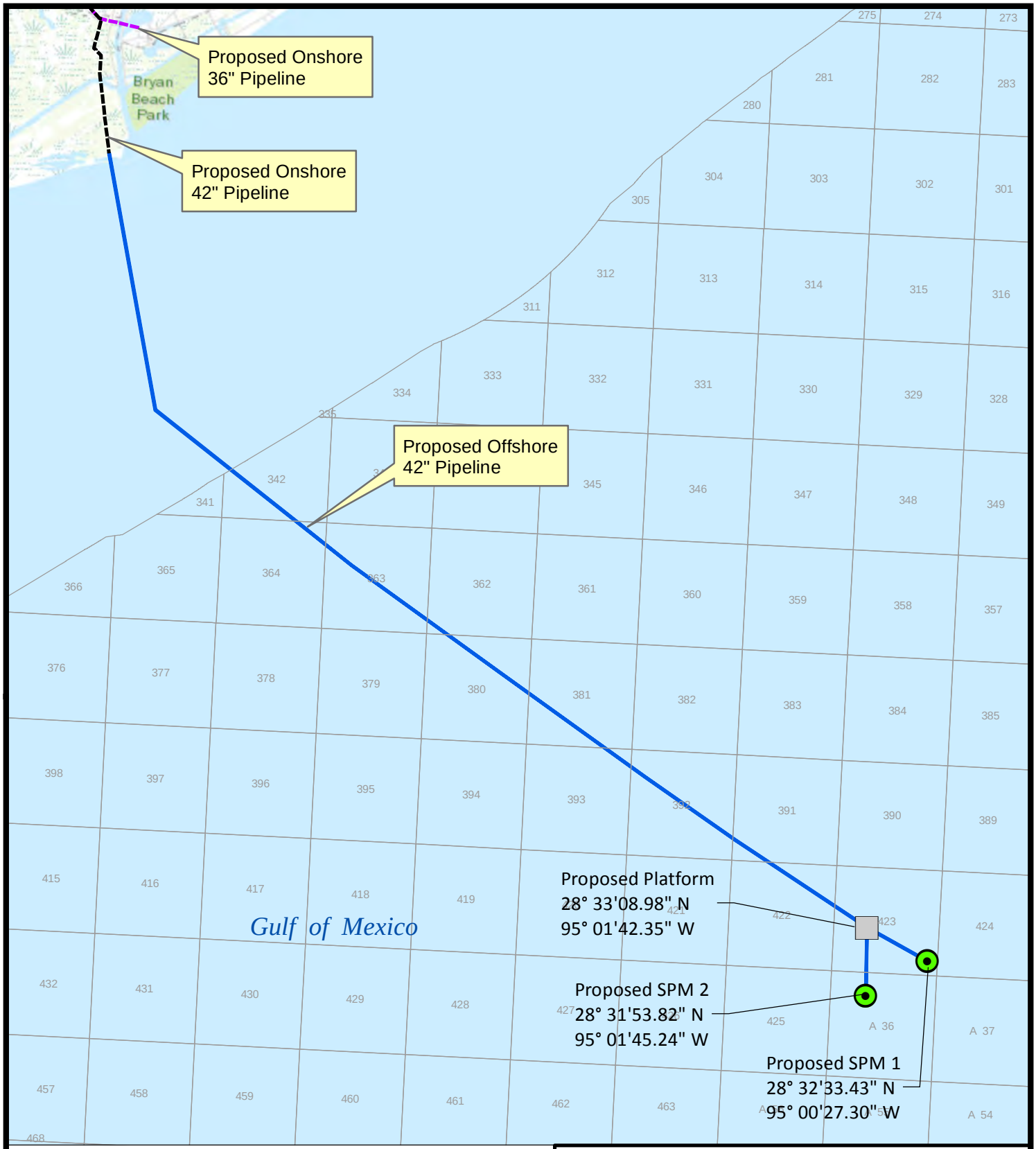
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 885-5458		( ) -	james.smith@c-ka.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Texas GulfLink, LLC	Job Title:	President and CEO
Name *(In Print)*:	Jeff Ballard	Phone:	(214) 712- **2140**
Signature:		Date:	

Appendix B
Application Figures (Area Map and PFD)



Texas GulfLink, LLC
Dallas, Texas

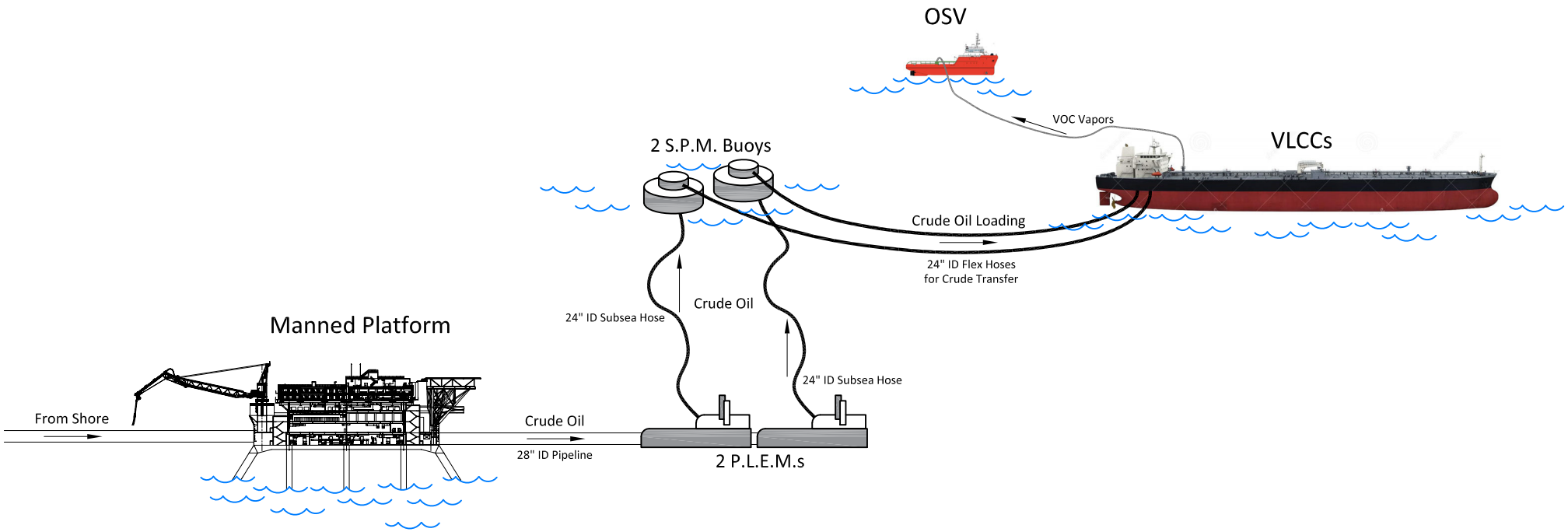
Texas GulfLink

Offshore Location Map

N

0 3
Miles

Drawn: CAL	Checked: JLS
Date: 5/7/2019	Approved: JLS
Dwg. No.: A17073-60	**Figure 1**



SENTINEL MIDSTREAM

Sentinel Midstream
Dallas, Texas

Texas GulfLink

Simplified Process Flow Diagram

N	NOT TO SCALE	Drawn: CPL	Checked: JLS
		Date: 05/09/19	Approved: JLS
		Dwg. No.: A17073-62	**Figure 2**

Appendix C
Detailed Emission Rate Calculations
(includes specification sheets)

Texas GulfLink, LLC
Facility Emissions Summary

EPN *	Source	CO_2e		PM_{10}		$PM_{2.5}$		SO_2		NOx		CO		Total VOC	
		(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
(P) M-1	Marine Loading													101.26	208.10
(P) G-1	Generator 1	-	2,428	0.16	0.70	0.16	0.70	0.01	0.03	4.96	21.72	2.78	12.20	0.13	0.58
(P) G-2	Generator 2	-	2,428	0.16	0.70	0.16	0.70	0.01	0.03	4.96	21.72	2.78	12.20	0.13	0.58
(P) C-1	Crane 1	-	2,132	0.14	0.61	0.14	0.61	0.01	0.02	2.59	11.32	2.45	10.71	0.21	0.92
(P) DT-1	Day Tank 1													0.001	0.01
(P) BT-1	Belly Tank 1													0.0002	0.001
(P) BT-2	Belly Tank 2													0.0002	0.001
(P) BT-3	Belly Tank 3													0.0002	0.001
(P) BT-4	Belly Tank 4													0.00002	0.0001
(P) T-1	Surge Tank													0.40	1.74
(P) FWP-1	MSS - Emerg Firewater Pump Maintenance	-	20	0.12	0.01	0.12	0.01			2.12	0.11	2.01	0.10	0.18	0.01
(P) P-1	MSS - Pigging Operations													83.76	0.50
(P) F-1	Platform Fugitive Emissions													0.03	0.12
(P) F-2	SPM System Fugitives													0.10	0.44
(P) S-1	Sampling Activities													0.10	0.05
(P) PM-1	MSS - Pump Maintenance													4.00	0.002
(P) MSS-1	MSS - Abrasive Blasting / Painting			0.01	0.06	0.002	0.01							0.06	0.26
(OSV) UM-1	Uncontrolled Marine Loading (Bad Weather)													3,601.55	31.03
(OSV) GT-1	GT Generator 1	-	3,860	0.30	1.31	0.30	1.31	0.25	0.19	3.48	8.16	2.65	6.21	0.42	0.98
(OSV) GT-2	GT Generator 2		3,860	0.30	1.31	0.30	1.31	0.14	0.19	3.48	8.16	2.65	6.21	0.42	0.98
(OSV) EDG-1	CAT 3516C - No. 1	-	5,642	0.33	1.46	0.33	1.46	0.01	0.054	10.37	45.44	5.82	25.51	0.28	1.21
(OSV) EDG-3	CAT 3512C - No. 1	-	1,018	0.05	0.21	0.05	0.21	0.002	0.008	1.46	6.40	0.82	3.59	0.04	0.17
(OSV) F-1	OSV Fugitive Emissions													0.02	0.11
(OSV) F-2	OSV Fugitive Emissions - Hose Disconnects													0.39	0.03
(OSV) MSS-2	MSS - Other Misc. Maintenance													9.37	0.81
	TOTAL EMISSIONS (TPY)	**0**	**21,388**	**1.57**	**6.37**	**1.56**	**6.31**	**0.41**	**0.51**	**33.42**	**123.04**	**21.97**	**76.73**	**3,802.85**	**248.64**

* P stands for Platform and OSV stands for Offshore Service Vessel

Texas GulfLink, LLC
Facility Emissions Summary

EPN *	Source	H_2S		1,3-Butadiene		Acetaldehyde		Acrolien		Benzene		Isopropylbenzene		Ethylbenzene		Formaldehyde		Hexane (-n)		Naphthalene		PAH		Propylene Oxide		2,2,4-Trimethylpentane (isooctane)		Toluene		Xylene (-m)	
		(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
(P) M-1	Marine Loading	0.0025	0.0012							0.45	0.92	0.003	0.01	0.25	0.52			3.29	6.76							1.77	3.64	0.84	1.73	0.68	1.40
(P) G-1	Generator 1					0.0002	0.001			0.01	0.02					0.001	0.002											0.002	0.01	0.002	0.01
(P) G-2	Generator 2					0.0002	0.001			0.01	0.02					0.001	0.002											0.002	0.01	0.002	0.01
(P) C-1	Crane 1															0.004	0.02														
(P) DT-1	Day Tank 1																														
(P) BT-1	Belly Tank 1																														
(P) BT-2	Belly Tank 2																														
(P) BT-3	Belly Tank 3																														
(P) BT-4	Belly Tank 4																														
(P) T-1	Surge Tank									0.002	0.01			0.0001	0.001			0.01	0.04									0.001	0.004	0.0003	0.002
(P) FWP-1	MSS - Emerg Firewater Pump Maintenance																														
(P) P-1	MSS - Pigging Operations									0.37	0.002							1.91	0.01									0.18	0.001		
(P) F-1	Platform Fugitive Emissions										0.00071							0.0005	0.002										0.001177	0.0004	0.002
(P) F-2	SPM System Fugitives																														
(P) S-1	Sampling Activities																														
(P) PM-1	MSS - Pump Maintenance																														
(P) MSS-1	MSS - Abrasive Blasting / Painting																														
(OSV) UM-1	Uncontrolled Marine Loading (Bad Weather)	0.09	0.0002							15.99	0.14	0.12	0.001	9.00	0.08			117.05	1.01							62.96	0.54	29.93	0.26	24.20	0.21
(OSV) GT-1	GT Generator 1			0.00003	0.00002	0.0029	0.002	0.0005	0.0003	0.0009	0.0006			0.0023	0.002	0.051	0.038			0.00009	0.0001	0.00016	0.0001	0.0021	0.002			0.009	0.007	0.005	0.003
(OSV) GT-2	GT Generator 2			0.0000	0.0000	0.0029	0.0022	0.0005	0.0003	0.0009	0.001			0.0023	0.0017	0.051	0.038			0.0001	0.000	0.0002	0.000	0.0021	0.0016			0.009	0.007	0.0046	0.003
(OSV) EDG-1	CAT 3516C - No. 1					0.0002	0.0008			0.005	0.024					0.0006	0.002											0.002	0.009	0.001	0.006
(OSV) EDG-3	CAT 3512C - No. 1					0.00003	0.0001			0.001	0.003					0.0001	0.000											0.000	0.001	0.0002	0.001
(OSV) F-1	OSV Fugitive Emissions	0.0000001	0.000001							0.0001	0.001	0.00002	0.0001	0.0001	0.0004			0.0005	0.002							0.00002	0.0001	0.0002	0.001	0.0003	0.002
(OSV) F-2	OSV Fugitive Emissions - Hose Disconnects	0.00000004	0.0000002							0.002	0.0002	0.00001	0.000001	0.0001	0.00001			0.01	0.001							0.0001	0.00001	0.001	0.0001	0.0003	0.00003
(OSV) MSS-2	MSS - Other Misc. Maintenance																														
	TOTAL EMISSIONS (TPY)	**0.093**	**0.001**	**0.000**	**0.000**	**0.006**	**0.007**	**0.0009**	**0.0007**	**16.832**	**1.148**	**0.125**	**0.008**	**9.262**	**0.602**	**0.108**	**0.099**	**122.273**	**7.828**	**0.0002**	**0.0001**	**0.0003**	**0.0002**	**0.0042**	**0.0031**	**64.725**	**4.180**	**30.978**	**2.030**	**24.899**	**1.637**

* P stands for Platform and OSV stands for Offshore Service Vessel

Texas GulfLink, LLC
Offshore Platform
Marine Loading

EPN	Description
(P) M-1	Marine Loading

AP-42, Chapter 5, Section 5.2
Transportation and Marketing of Petroleum Liquids
Equation 2 was developed specifically for estimating emissions from the loading of crude oil into ships and ocean barges.

$C_L = C_A + C_G$
C_L = total loading loss (lb/10^3 gal of crude oil loaded)

C_A = arrival emission factor (lb/10^3 gal loaded)

C_A =	0.86	Taken from Table 5.2-3, based on "Uncleaned" and "Volatile", assumes no ballasting. Vapor pressure is > 1.5 psia.

C_G = generated emission factor (lb/10^3 gal loaded)
Equation 3: C_G = 1.84*(0.44P-0.42)*((MG)/T)

P =	8.98	psia	Average true vapor pressure for Crude Oil estimated using TANKS 4.09d and information provided by Abadie-Williams LLC.
P =	10.00	psia	Maximum true vapor pressure for Crude Oil estimated using AP-42, Figure 7.1-13 and information provided by Abadie-Williams LLC. Based on 80 deg F and RVP10.
M =	50	lb/lb-mol	VMW of loaded crude
G =	1.02	dimensionless	AP-42
T =	529.67	deg R	Average temperature of loaded crude provided by Abadie-Williams LLC.
T =	539.67	deg R	Maximum temperature of loaded crude provided by Abadie-Williams LLC.
C_G =	0.63	**ANNUAL EMISSION FACTOR**	
C_G =	0.69	**MAXIMUM EMISSION FACTOR**	

ANNUAL

C_L =	1.49	lb TOC/10^3 gal loaded	1.26	lb VOC/10^3 gal loaded

MAXIMUM

C_L =	1.55	lb TOC/10^3 gal loaded	1.32	lb VOC/10^3 gal loaded

Per Chapter 5, emission factors derived from Equation 3 and Table 5.2-3 represent TOC. When specific vapor composition information is not available, the VOC emission factor can be estimated by taking 85% of the TOC factor.

Pollutant	Maximum Emission Factor (lb/10^3 gal)	Annual Emission Factor (lb/10^3 gal)	Maximum Crude Loading Rate (bbl/hr)	Annual Crude Loaded (bbl/yr)	MW (lb/lbmol)	Average Concentration of H_2S in Crude (ppmv)	Maximum Concentration of H_2S in Crude (ppmv)	VRV Recovery Efficiency (%)	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
VOC	1.32	1.26	85,000	365,000,000	-	-	-	97.85	47.51	101.26	208.10
Benzene	-	-	-	-	-	-	-		0.21	0.45	0.92
Ethylbenzene	-	-	-	-	-	-	-		0.12	0.25	0.52
n-Hexane	-	-	-	-	-	-	-		1.54	3.29	6.76
Isooctane	-	-	-	-	-	-	-		0.83	1.77	3.64
Isopropyl benzene	-	-	-	-	-	-	-		0.00	0.00	0.01
Toluene	-	-	-	-	-	-	-		0.39	0.84	1.73
Xylene	-	-	-	-	-	-	-		0.32	0.68	1.40
H_2S	-	-	-	-	34.1	5	25		0.000	0.003	0.001

Annual Crude Loading Rate provided by Abadie-Williams LLC.
Maximum Crude Loading Rate provided by Abadie-Williams LLC.
Maximum and Annual Concentration of H_2S in Crude is an assumption.

	Tanks 4.09d (rev)	WTI S/T 6008	WTI - Pecos River	WTI - Houston	Bakken 2016
HAP *	**Vapor Wt Frac**	**Wt Frac**	**Wt Frac**	**Wt Frac**	**Wt Frac**
Benzene	0.0044	0.00398	0.00444	0.00256	0.0017
Ethylbenzene	0.0003	0.0025			
Hexane (-n)	0.0228	0.01507	0.01932	0.01481	0.0325
Isooctane	0.0004	0.01748			
Isopropyl benzene	0.0000				
Toluene	0.0022	0.00831			0.0067
Xylene (-m)	0.0009	0.00672			
Unidentified Components	0.9637	0.93483			
Cyclohexane	0.0053	0.01111			
1,2,4-Trimethylbenzene	0.0000				
Sum Wt Fac	1.0000				

* Gaps shown for HAP concentrations due to incomplete crude assay data. Conservative assumptions made for n-hexane.

HAP	Highest WT FRAC *	Source
Benzene	0.0044	Tanks 4.09d
Ethylbenzene	0.0025	WTI S/T 6008
Hexane (-n)	0.0325	Bakken 2016
Isooctane	0.0175	WTI S/T 6008
Isopropyl benzene	0.0000	Tanks 4.09d
Toluene	0.0083	WTI S/T 6008
Xylene (-m)	0.0067	WTI S/T 6008
Unidentified Comp	0.9637	Tanks 4.09d
Cyclohexane	0.0111	WTI S/T 6008
1,2,4-Trimethylbenzene	0.0000	Tanks 4.09d
Sum Wt Fac	1.0468	

* HAP speciation profile is worst-case.

Texas GulfLink, LLC
Offshore Platform
Electric Generators

Two 650 KW diesel-fired electric generators are used to supply electricity to the platform. Only one will operate at a time.

EPN	Description
(P) G-1	Generator 1
(P) G-2	Generator 2

Given:

Power Output of Each Generator	650 KW[1]
Power Output of Each Turbine	968 Hp
Power Output of Each Turbine	722 KW[2]
Operation Time	8,760 hrs
Firing Rate:	6.78 MMBtu/hr[3]

Calculation Methodology:

Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation for One Engine:

Pollutant	Emission Factor[4] [g/kW-hr]	Emission Factor[2] [g/hp-hr]	Emission Factor [lb/hp-hr]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate (1 Generator) [lb/hr]	Dividing Max Hourly Rate Across 2 Generators	Annual Emission Rate (1 Generator) [tpy]	Dividing Annual Rate Across 2 Generators (1 Generator) [tpy]
$PM_{2.5}$	0.2	0.15	0.0003	NSPS 4I	0.32	0.32	**0.16**	1.39	**0.70**
PM_{10}	0.2	0.15	0.0003	NSPS 4I	0.32	0.32	**0.16**	1.39	**0.70**
SO_2	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.01	0.01	**0.01**	0.05	**0.03**
CO	3.5	2.61	0.01	NSPS 4I	5.57	5.57	**2.78**	24.40	**12.20**
NMHC + NOx	6.40	-	-	NSPS 4I	-	-	**-**	-	**-**
NO_x	6.23	4.65	0.01	NSPS 4I	9.92	9.92	**4.96**	43.45	**21.72**
Total VOC	0.17	0.12	0.0003	NSPS 4I	0.27	0.27	**0.13**	1.16	**0.58**

Greenhouse Gases Emission Calculation for One Engine:

Pollutant	Emission Factor[5] (kg/MMBtu)	Global Warming Potentials[6]	Emissions				
			Average[7] (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO_2e[8] (tonnes/yr)	Dividing Annual Rate Across 2 Generators (tpy)
CO_2	73.96	1	1,105	1,105	4,839	4,391	2,420
CH_4	3.00E-03	25	0.04	0.04	5	4	2
N_2O	6.00E-04	298	0.01	0.01	12	11	6
CO_2e	--	--	1,105	1,105	4,856	4,406	**2,428**

Toxic Air Pollutant Emission Calculation for One Engine:

Pollutant	Emission Factor [lb/MMBtu]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	0.0000252	AP-42, Ch. 3.4	0.0002	0.0002	0.001
Benzene	0.000776	AP-42, Ch. 3.4	0.005	0.005	0.02
Formaldehyde	0.0000789	AP-42, Ch. 3.4	0.001	0.001	0.002
Toluene	0.000281	AP-42, Ch. 3.4	0.002	0.002	0.01
Xylene	0.000193	AP-42, Ch. 3.4	0.001	0.001	0.01

Notes:
(1) Provided by Abadie-Williams LLC
(2) 1.341 hp/Kw
(3) Converted using 7,000 Btu/hp-hr from AP-42, Chapter 3.
(4) NMHC + NO_x, CO, and PM taken from 40 CFR 89.112(a) Table 1; PM factor used for PM_{10} and $PM_{2.5}$; NMHC + NO_x factor used for VOC and NOx by assuming 97% NO_x and 3% VOC, based on the ratios of NO_x and VOC AP-42 emission factors in Chapter 3.4.
(5) All emission factors taken from Tables C-1 and C-2 to Subpart C of Part 98. Distillate Fuel Oil No. 2 for CO_2 emission factor, Petroleum (all fuel type in Table C-1) for CH_4 and N_2O emission factors.
(6) Global warming potentials for converting to CO_2e taken from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.
(7) Emissions converted from kg to lbs using 2.20462 lb/kg.
(8) CO_2e tonnes calculated using 2,204 lbs/tonne and global warming potentials from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

Texas GulfLink, LLC
Offshore Platform
Portal Crane

One (1) 425 Hp portal crane is used on the platform.

EPN	Description
(P) C-1	Crane 1

Given:

Power Output of Each Engine	316.93	KW[1]
Power Output of Each Engine	425.00	Hp[2]
Operation Time	8,760	hrs
Firing Rate:	2.98	MMBtu/hr[3]

Calculation Methodology:

Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation for One Engine:

Pollutant	Emission Factor[4] [g/kW-hr]	Emission Factor[2] [g/hp-hr]	Emission Factor [lb/hp-hr]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
$PM_{2.5}$	0.2	0.15	0.0003	NSPS 4I	0.14	0.14	0.61
PM_{10}	0.2	0.15	0.0003	NSPS 4I	0.14	0.14	0.61
SO_2	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.01	0.01	0.02
CO	3.5	2.61	0.01	NSPS 4I	2.45	2.45	10.71
NMHC + NOx	4.00	-	-	NSPS 4I	-	-	-
NO_x	3.70	2.76	0.01	NSPS 4I	2.59	2.59	11.32
Total VOC	0.30	0.22	0.0005	NSPS 4I	0.21	0.21	0.92

Greenhouse Gases Emission Calculation for One Engine:

Pollutant	Emission Factor[5] (kg/MMBtu)	Global Warming Potentials[6]	Emissions			
			Average[7] (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO_2e[8] (tonnes/yr)
CO_2	73.96	1	485.08	485.08	2124.67	1928.01
CH_4	3.00E-03	25	0.02	0.02	2.15	1.96
N_2O	6.00E-04	298	0.004	0.004	5.14	4.66
CO_2e	--	--	485.11	485.11	2131.96	1934.63

Toxic Air Pollutant Emission Calculation for One Engine:

Pollutant	Emission Factor [lb/MMBtu]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Formaldehyde	0.00118	AP-42, Ch. 3.3	0.004	0.004	0.02

Notes:
(1) Calculated using 1.341 hp/kW.
(2) Provided by Abadie-Williams LLC
(3) Converted using 7,000 Btu/hp-hr from AP-42, Chapter 3.
(4) NMHC + NOx, CO, and PM taken from 40 CFR 89.112(a) Table 1; PM factor used for PM_{10} and $PM_{2.5}$; NMHC + NOx factor used for VOC and NOx by assuming 92% NOx and 8% VOC, based on the ratios of NOx and VOC AP-42 emission factors in Chapter 3.4. Assumes Tier III.
(5) All emission factors taken from Tables C-1 and C-2 to Subpart C of Part 98. Distillate Fuel Oil No. 2 for CO_2 emission factor, Petroleum (all fuel type in Table C-1) for CH_4 and N_2O emission factors.
(6) Global warming potentials for converting to CO_2e taken from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.
(7) Emissions converted from kg to lbs using 2.20462 lb/kg.
(8) CO_2e tonnes calculated using 2,204 lbs/tonne and global warming potentials from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

Texas GulfLink, LLC
Offshore Platform
Diesel Fuel Tank for Engines

Tank Data:

EPN	Description	Tank Type	Stored Product	Annual Operating Hours	Volume (gal)	Annual Throughput (gal/yr)
(P) DT-1	Day Tank 1	Vertical Fixed Roof	Diesel	8,760	20,000	300,000

Calculation Methodology:
Note: Emissions are based on AP-42, Chapter 7, November 2006.
Average Hourly Rate [lb/hr] = TANKS Emission Report (lb/yr) / 8760 hrs/yr
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report (lb/yr) / 2000 lb/ton

Emission Calculation for One Tank:

Pollutant	VOC Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	11.04	0.001	0.001	0.01
Benzene	0.02	2.E-06	2.E-06	1.E-05
Ethylbenzene	0.04	4.E-06	4.E-06	2.E-05
n-Hexane	0.00	5.E-07	5.E-07	2.E-06
Toluene	0.25	0.00003	0.00003	0.0001
Xylenes	0.66	0.0001	0.0001	0.0003

Texas GulfLink, LLC
Offshore Platform
Diesel Fuel Tanks for Engines (Generators, Crane, Firewater Pump)

Tank Data:

EPN	Description	Tank Type	Stored Product	Annual Operating Hours	Volume (gal)	Annual Throughput (gal/yr)
(P) BT-1	Belly Tank 1	Horizontal Fixed Roof	Diesel	8,760	1,000	99,667
(P) BT-2	Belly Tank 2	Horizontal Fixed Roof	Diesel	8,760	1,000	99,667
(P) BT-3	Belly Tank 3	Horizontal Fixed Roof	Diesel	8,760	1,000	99,667
(P) BT-4	Belly Tank 4	Horizontal Fixed Roof	Diesel	8,760	1,000	1,000

Calculation Methodology:
Note: Emissions are based on AP-42, Chapter 7, November 2006.
Average Hourly Rate [lb/hr] = TANKS Emission Report (lb/yr) / 8760 hrs/yr
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report (lb/yr) / 2000 lb/ton

Emission Summary for one Belly Tank (BT-1, BT-2, BT-3):

Pollutant	Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	1.50	0.0002	0.0002	0.001
Benzene	0.003	3.E-07	3.E-07	1.E-06
Ethylbenzene	0.005	5.E-07	5.E-07	2.E-06
n-Hexane	0.001	7.E-08	7.E-08	3.E-07
Toluene	0.03	4.E-06	4.E-06	2.E-05
Xylenes	0.09	1.E-05	1.E-05	4.E-05

Emission Summary for one Belly Tank (BT-4):

Pollutant	Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	0.16	0.00002	0.00002	0.0001
Benzene	0.0003	4.E-08	4.E-08	2.E-07
Ethylbenzene	0.001	6.E-08	6.E-08	3.E-07
n-Hexane	0.0001	7.E-09	7.E-09	3.E-08
Toluene	0.004	4.E-07	4.E-07	2.E-06
Xylenes	0.01	1.E-06	1.E-06	5.E-06

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	(P) BT-1, (P) BT-2, (P) BT-3
City:	Freeport
State:	Texas
Company:	Sentinel Midstream
Type of Tank:	Horizontal Tank
Description:	Belly Tank for Generators and Crane, emissions represent one tank.

Tank Dimensions

Shell Length (ft):		10.00
Diameter (ft):		4.00
Volume (gallons):		1,000.00
Turnovers:		99.67
Net Throughput(gal/yr):		99,666.67
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Galveston, Texas (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

(P) BT-1, (P) BT-2, (P) BT-3 - Horizontal Tank
Freeport, Texas

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	71.54	68.18	74.90	69.66	0.0095	0.0085	0.0105	130.0000			188.00	Option 1: VP70 = .009 VP80 = .012
1,2,4-Trimethylbenzene						0.0320	0.0282	0.0363	120.1900	0.0100	0.0490	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5948	1.4590	1.7409	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1604	0.1435	0.1790	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.5633	2.3578	2.7832	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4684	0.4239	0.5168	92.1300	0.0003	0.0229	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0081	0.0074	0.0079	134.5138	0.9866	0.8632	189.60	
Xylene (-m)						0.1341	0.1198	0.1498	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

(P) BT-1, (P) BT-2, (P) BT-3 - Horizontal Tank
Freeport, Texas

Annual Emission Calcaulations	
Standing Losses (lb):	0.1344
Vapor Space Volume (cu ft):	80.0406
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0213
Vented Vapor Saturation Factor:	0.9990
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	80.0406
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	7.1383
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	10.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0095
Daily Avg. Liquid Surface Temp. (deg. R):	531.2087
Daily Average Ambient Temp. (deg. F):	69.6417
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	529.3317
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,404.1667
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0213
Daily Vapor Temperature Range (deg. R):	13.4398
Daily Vapor Pressure Range (psia):	0.0019
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0095
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0085
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0105
Daily Avg. Liquid Surface Temp. (deg R):	531.2087
Daily Min. Liquid Surface Temp. (deg R):	527.8487
Daily Max. Liquid Surface Temp. (deg R):	534.5686
Daily Ambient Temp. Range (deg. R):	9.3833
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9990
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0095
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	1.3650
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0095
Annual Net Throughput (gal/yr.):	99,666.6667
Annual Turnovers:	99.6667
Turnover Factor:	0.4677

Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.4995

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

(P) BT-1, (P) BT-2, (P) BT-3 - Horizontal Tank
Freeport, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.03	0.00	0.03
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.08	0.01	0.09
1,2,4-Trimethylbenzene	0.07	0.01	0.07
Unidentified Components	1.18	0.12	1.29
Distillate fuel oil no. 2	1.37	0.13	1.50

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	(P) BT-4
City:	Freeport
State:	Texas
Company:	Sentinel Midstream
Type of Tank:	Horizontal Tank
Description:	Belly Tank for Firewater Pump

Tank Dimensions

Shell Length (ft):		10.00
Diameter (ft):		4.00
Volume (gallons):		1,000.00
Turnovers:		1.00
Net Throughput(gal/yr):		1,000.00
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Galveston, Texas (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

(P) BT-4 - Horizontal Tank
Freeport, Texas

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	71.54	68.18	74.90	69.66	0.0095	0.0085	0.0105	130.0000			188.00	Option 1: VP70 = .009 VP80 = .012
1,2,4-Trimethylbenzene						0.0320	0.0282	0.0363	120.1900	0.0100	0.0490	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5948	1.4590	1.7409	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1604	0.1435	0.1790	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.5633	2.3578	2.7832	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4684	0.4239	0.5168	92.1300	0.0003	0.0229	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0081	0.0074	0.0079	134.5138	0.9866	0.8632	189.60	
Xylene (-m)						0.1341	0.1198	0.1498	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

(P) BT-4 - Horizontal Tank
Freeport, Texas

Annual Emission Calcaulations	
Standing Losses (lb):	0.1344
Vapor Space Volume (cu ft):	80.0406
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0213
Vented Vapor Saturation Factor:	0.9990
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	80.0406
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	7.1383
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	10.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0095
Daily Avg. Liquid Surface Temp. (deg. R):	531.2087
Daily Average Ambient Temp. (deg. F):	69.6417
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	529.3317
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,404.1667
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0213
Daily Vapor Temperature Range (deg. R):	13.4398
Daily Vapor Pressure Range (psia):	0.0019
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0095
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0085
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0105
Daily Avg. Liquid Surface Temp. (deg R):	531.2087
Daily Min. Liquid Surface Temp. (deg R):	527.8487
Daily Max. Liquid Surface Temp. (deg R):	534.5686
Daily Ambient Temp. Range (deg. R):	9.3833
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9990
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0095
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	0.0293
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0095
Annual Net Throughput (gal/yr.):	1,000.0000
Annual Turnovers:	1.0000
Turnover Factor:	1.0000

Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	0.1637

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

(P) BT-4 - Horizontal Tank
Freeport, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.03	0.13	0.16
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.01	0.01
1,2,4-Trimethylbenzene	0.00	0.01	0.01
Unidentified Components	0.03	0.12	0.14

Texas GulfLink, LLC
Offshore Platform
Surge Tank

Tank Data:

EPN	Description	Tank Type	Stored Product	MW of Crude (lb/lbmol)	Average TVP of Crude (psia)	Annual Operating Hours	Volume (gal)	Annual Throughput (gal/yr)
(P) T-1	Surge Tank	Fixed Roof	Crude oil (RVP 10)	50	8.98	8,760	84,000	84,000

Volume and throughput provided by Abadie-Williams LLC.

Calculation Methodology:

Note: Emissions are based on AP-42, Chapter 7, November 2006.
Average Hourly Rate [lb/hr] = TANKS Emission Report (lb/yr) / 8760 hrs/yr
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report (lb/yr) / 2000 lb/ton

Emission Calculation for One Tank:

Pollutant	VOC Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	3,489.80	0.40	0.40	1.74
2,2,4-Trimethylpentane (isooctane)	0.00	0E+00	0E+00	0E+00
Benzene	15.39	0.002	0.002	0.01
Ethylbenzene	1.03	0.0001	0.0001	0.001
Hexane (-n)	79.68	0.009	0.009	0.04
Isopropyl benzene	0.12	0.00001	0.00001	0.0001
Toluene	7.54	0.001	0.001	0.004
Xylene (-m)	3.02	0.0003	0.0003	0.002

Hydrogen Sulfide Emissions:

Molecular Weight of H_2S (lb/lbmol): 34.1
Average Concentration of H_2S in Crude (ppmv): 5
Average Concentration of H_2S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	2.E-06	2.E-06	1.E-05

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	(P) T-1 Fixed
City:	Galveston
State:	Texas
Company:	Sentinel Midstream
Type of Tank:	Vertical Fixed Roof Tank
Description:	Surge Tank

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	19.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	20.00
Volume (gallons):	84,000.00
Turnovers:	1.00
Net Throughput(gal/yr):	84,000.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.00
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Galveston, Texas (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

(P) T-1 Fixed - Vertical Fixed Roof Tank
Galveston, Texas

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Crude oil (RVP 10)	All	71.54	68.18	74.90	69.66	8.9800	8.5126	9.4668	50.0000			207.00	Option 4: RVP=10
1,2,4-Trimethylbenzene						0.0320	0.0282	0.0363	120.1900	0.0033	0.0000	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5948	1.4590	1.7409	78.1100	0.0060	0.0044	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.6424	1.5056	1.7893	84.1600	0.0070	0.0053	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1604	0.1435	0.1790	106.1700	0.0040	0.0003	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.5633	2.3578	2.7832	86.1700	0.0193	0.0228	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isooctane									114.2200	0.0010	0.0000	114.22	
Isopropyl benzene						0.0732	0.0650	0.0824	120.2000	0.0010	0.0000	120.20	Option 2: A=6.93666, B=1460.793, C=207.78
Toluene						0.4684	0.4239	0.5168	92.1300	0.0100	0.0022	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						10.2985	10.2485	10.2788	49.2353	0.9344	0.9641	226.57	
Xylene (-m)						0.1341	0.1198	0.1498	106.1700	0.0140	0.0009	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

(P) T-1 Fixed - Vertical Fixed Roof Tank
Galveston, Texas

Annual Emission Calcaulations	
Standing Losses (lb):	2,816.2932
Vapor Space Volume (cu ft):	5,726.6898
Vapor Density (lb/cu ft):	0.0788
Vapor Space Expansion Factor:	0.1815
Vented Vapor Saturation Factor:	0.0942
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	5,726.6898
Tank Diameter (ft):	19.0000
Vapor Space Outage (ft):	20.1979
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	20.0000
Roof Outage (ft):	0.1979
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1979
Roof Height (ft):	0.0000
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	9.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0788
Vapor Molecular Weight (lb/lb-mole):	50.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.9800
Daily Avg. Liquid Surface Temp. (deg. R):	531.2087
Daily Average Ambient Temp. (deg. F):	69.6417
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	529.3317
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,404.1667
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.1815
Daily Vapor Temperature Range (deg. R):	13.4398
Daily Vapor Pressure Range (psia):	0.9542
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.9800
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	8.5126
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	9.4668
Daily Avg. Liquid Surface Temp. (deg R):	531.2087
Daily Min. Liquid Surface Temp. (deg R):	527.8487
Daily Max. Liquid Surface Temp. (deg R):	534.5686
Daily Ambient Temp. Range (deg. R):	9.3833
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.0942
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	8.9800
Vapor Space Outage (ft):	20.1979

Working Losses (lb):	673.5023
Vapor Molecular Weight (lb/lb-mole):	50.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.9800
Annual Net Throughput (gal/yr.):	84,000.0000
Annual Turnovers:	1.0000
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	84,000.0000
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	19.0000
Working Loss Product Factor:	0.7500
Total Losses (lb):	3,489.7956

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

(P) T-1 Fixed - Vertical Fixed Roof Tank
Galveston, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Crude oil (RVP 10)	673.50	2,816.29	3,489.80
Hexane (-n)	15.38	64.30	79.68
Benzene	2.97	12.42	15.39
Isooctane	0.00	0.00	0.00
Toluene	1.45	6.08	7.54
Ethylbenzene	0.20	0.83	1.03
Xylene (-m)	0.58	2.44	3.02
Isopropyl benzene	0.02	0.10	0.12
1,2,4-Trimethylbenzene	0.03	0.14	0.17
Cyclohexane	3.57	14.93	18.50
Unidentified Components	649.29	2,715.06	3,364.35

Texas GulfLink, LLC
Offshore Platform
Firewater Pump

Engine Data

EPN	Description	Fuel Type	Brake Hp	Annual Operating Hours	Specific Fuel Consumption (Btu/hp-hr)[a]	Heat Input (MMBtu/hr)[b]	Annual Heat Rate (MMBtu/yr)[c]
(P) FWP-1	MSS - Firewater Pump	Diesel	350	100	7,000	2.45	245

[a] Given that specific data is unavailable for this engine, this calculation uses the average brake-specific fuel consumption from AP-42 Table 3.3-1, Footnote a.

[b] calculated; (Btu/hp-hr * hp) / 1,000,000

[c] calculated; MMBtu/hr * hr/yr

Calculation Methodology:

Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation:

Pollutant	Emission Factor[d] [g/kW-hr]	Emission Factor[e] [g/hp-hr]	Emission Factor [lb/hp-hr]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Firewater Pump Engine - (P) FWP-1							
$PM_{2.5}$	0.2	0.15	0.0003	NSPS 4I	0.12	0.12	0.01
PM_{10}	0.2	0.15	0.0003	NSPS 4I	0.12	0.12	0.01
SO_2	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.004	0.004	0.0002
CO	3.5	2.61	0.01	NSPS 4I	2.01	2.01	0.10
NMHC + NOx	4	-	-	NSPS 4I	-	-	-
NO_x	3.7	2.74	0.01	NSPS 4I	2.12	2.12	0.11
Total VOC	0.3	0.24	0.001	NSPS 4I	0.18	0.18	0.01

[d] **350 Hp Firewater Pump Engine:**
NMHC + NOx, CO, and PM taken from 40 CFR 60, Subpart IIII, Table 4 [225<=kW<450 (300<=Hp<600)]; PM factor used for PM_{10} and $PM_{2.5}$; NMHC + NO_x factor used for VOC and NO_x by assuming 92% NO_x and 8% VOC, based on the ratios of NO_x and VOC AP-42 emission factors.

[e] 1 kW = 1.341 hp

Greenhouse Gas Emission Factors

Pollutant	Global Warming Potential[f]	Emission Factor[g] (kg/MMBtu)
CO_2	1	73.96
CH_4	25	3.0E-03
N_2O	298	6.0E-04
CO_2e	-	-

[f] Default global warming potentials from 40 CFR 98 Subpart A, Table A-1.

[g] Default emission factors from 40 CFR 98 Subpart C, Tables C-1 and C-2, for diesel.

Greenhouse Gas Emissions Summary

EPN	CO_2			CH_4			N_2O			CO_2e		
	(metric tpy)[h]	(short tpy)[i]	(lb/hr)	(metric tpy)[h]	(short tpy)[i]	(lb/hr)	(metric tpy)[h]	(short tpy)[i]	(lb/hr)	(metric tpy)[h]	(short tpy)[i]	(lb/hr)
(P) FWP-1	18	20	399	0.02	0.02	0.4	0.04	0.05	1	18	20	401

[h] Calculated by using 40 CFR 98 Subpart C Equation C-1b.

[i] Calculated by multiplying metric tons per year by 1.10231 short tons/metric ton, as per 40 CFR 98 Subpart A, Table A-2.

Texas GulfLink, LLC
Offshore Platform
Pigging Operations

EPN	Description
(P) P-1	MSS - Pigging Operations

The chambers for the inlet gas and residue gas receivers were estimated as shown below.

	Gas Line Receiver	
Receiver diameter	54	in
Receiver length	38	ft
Pipeline Pressure	1	psig
Receiver volume	604.36	cu ft
Gas volume	645.48	SCF
Duration of releases	0.50	hr
Releases per year	12	# per yr
VMW of Crude from TANKS 4.09d:	50.00	lb/lbmol
	385.30	scf/lbmol
	1.68	lbmol
	83.76	lbs VOC per event
	1,005.16	lbs VOC per year

From TANKS 4.09d:

NAME	V_WT_FRACT
Hexane (-n)	0.022831039
Benzene	0.004411371
Isooctane	0.000379612
Toluene	0.002159389
Ethylbenzene	0.00029583
Xylene (-m)	0.000865592
Isopropyl benzene	3.37653E-05

	0.50	tons VOC per year
	0.01147	tons/yr n-Hexane
	0.00222	tons/yr Benzene
	0.00019	tons/yr Isooctane
	0.00109	tons/yr Toluene
	0.00015	tons/yr Ethylbenzene
	0.00044	tons/yr Xylene
	0.00002	tons/yr Cumene
	83.76	lbs VOC per hr
	1.91	lbs/hr n-Hexane
	0.37	lbs/hr Benzene
	0.03	lbs/hr Isooctane
	0.18	lbs/hr Toluene
	0.02	lbs/hr Ethylbenzene
	0.07	lbs/hr Xylene
	0.003	lbs/hr Cumene

Hydrogen Sulfide Emissions:

Molecular Weight of H2S (lb/lbmol):	34.1
Average Concentration of H_2S in Crude (ppmv):	5
Molecular Weight of Crude (lb/lbmol):	50
Average TVP of Crude (psia):	8.98

Average Concentration of H_2S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	6.41E-07	6.41E-07	2.81E-06

Texas GulfLink, LLC
Offshore Platform
Platform Fugitive Emissions

EPN	Description
(P) F-1	Platform Fugitive Emissions

Given:

Component Type	Service	Component Count
valves	Light liquid (LL)	163
pump seals	Light liquid (LL)	4
flanges	Light liquid (LL)	378

The number of flanges is assumed to be twice that of valves.

Calculation Methodology:
VOC Average Hourly Rate [lb/hr] = TCEQ Emission Factor [lb/hr/component] x Component Count
VOC TAP Speciate Hourly Rate [lb/hr] = Liquid Mass Fraction x Total VOC Average Hourly Rate [lb/hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:
Air Permit Technical Guidance for Chemical Sources - Fugitive Guidance, APDG 6422, Air Permits Division TCEQ, June 2018, Table II

Emission Calculation:

Component Type	Light Liquid Emission Factor [lb/hr/component]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
valves	0.0000948	0.02	0.02	0.07
pump seals	0.00119	0.005	0.005	0.02
flanges	0.00001762	0.01	0.01	0.03
	Total VOC	**0.03**	**0.03**	**0.12**

VOC HAP Speciation	Liquid Mass Fraction(1)	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	0.006	0.0002	0.0002	0.0007
Ethylbenzene	0.004	0.00011	0.00011	0.0005
n-Hexane	0.019	0.00052	0.00052	0.0023
Toluene	0.010	0.0003	0.0003	0.0012
Xylenes	0.014	0.0004	0.0004	0.002
Cumene (Isopropyl benzene)	0.001	0.00003	0.00003	0.00012
Iso-octane	0.001	0.00003	0.00003	0.00012

Notes:
(1) VOC HAP Speciation Profile from TANKS 4.09d for Crude Oil.
Liquid weight (mass) fractions used for fugitives because emissions occur directly from liquid in piping (no vapor space is formed)

Hydrogen Sulfide Emissions:

Molecular Weight of H2S (lb/lbmol):	34.1
Average Concentration of H_2S in Crude (ppmv):	5
Molecular Weight of Crude (lb/lbmol):	50
Average TVP of Crude (psia):	8.98

Average Concentration of H_2S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	1.50E-07	1.50E-07	6.57E-07

Texas GulfLink, LLC
Offshore Platform
SPM System Fugitives

EPN	Description
(P) F-2	SPM System Fugitives

Maximum w/ Contingency (days per year) 365 days
24 hr/day

Emission Calculations

Component Type	Total Number of Components [1]	Oil & Gas Emission Factor (lb/hr)	Fugitive Emission Factor [2] (lb/hr/component)	Total Organic Compound Average lbs/hr	Total Organic Compound Maximum lbs/hr	Total Organic Compound lbs/day	Total Organic Compound tons/project
Valves	16	Light Liquid (Light Oil> 20° API)	5.50E-03	8.80E-02	8.80E-02	2.11	0.39
Flanges	52	Light Liquid (Light Oil> 20° API)	2.43E-04	1.26E-02	1.26E-02	0.30	0.06
	Total TOC [4] - Heavy Oil Streams			**0.10**	**0.10**	**2.42**	**0.44**

[1] Component counts are based on engineering design information provided by Abadie-Williams LLC.
[2] Emission Factors were obtained from *Table 4. Average Emission Factors - Petroleum Industry* (Oil & Gas Production Operations) of TCEQ's Addendum to RG-360A, Emission Factors for Equipment Leak Fugitives Components, January 2008.
[3] Fugitive emissions are conservatively estimated to be 100% VOC.
[4] Annual operating hours are conservatively assumed to be 8,760 hours per year.

Texas GulfLink, LLC
Offshore Platform
Miscellaneous Emissions

EPN	Description
(P) S-1	Sampling Activities
(P) PM-1	MSS - Pump Maintenance

Sampling Activities

Emissions from sampling activities are estimated based on the following:

Quantity	Units
1	sample/shift
3	shifts/day
0.1	lb VOC/sample
0.1	lb VOC/hr
0.05	ton VOC/yr

MSS - Pump Maintenance

Emissions from pump maintenance are estimated based on the following:

Quantity	Units
4	pumps
1	maintenance event/yr
1	lb/maintenance event
4	lb VOC/hr
0.002	ton VOC/yr

MSS Emissions Associated with Abrasive Blasting and Painting

Company Name	Texas GulfLink, LLC
Site Name	Offshore Platform

Source Name	MSS - Abrasive Blasting / Painting
EPN	(P) MSS-1

1. Input variables such as amount of paint used (gallons) or number of hours blasting operation occurs in the yellow box. 2.
Default numbers are included for your convenience but may be edited

#	Activity	Description / comments	Default parameters		Input parameters		Annual emissions (tpy)
1	***(b)(2) Aerosol Cans*** Includes spray paints and primers, degreasers, cleaners and other solvents, rust inhibitors	- 90% VOC content is an average obtained from a survey of MSDS sheets (c)(d)(e) for spray paints and primers, degreasers, cleaners and other solvents, rust inhibitors. This does not include lubricants. -VOC is propellant. 100% VOC evaporates.	Standard Industrial Size Cans (oz.)	16	Number of 16 oz cans used	100	0.045 VOC (tpy)
			VOC emissions (lb/can)	0.9			
2	***(b)(2) Manual application of paints, primer*** Touch up paint	-100% VOC evaporates - Survey of MSDS sheets (a) (b) indicates VOC content varies from 2 lb/gallon to 7 lb/gallon. As Chapter 115 limits VOC content to 3.5 lb/gal in nonattainment areas this was used as a conservative amount -Usage of paint based on technical expertise and NSR permit section reviews.	VOC content (lb/gal)	3.5	Paint used (gallons)	25	0.044 VOC (tpy)
3	***(b)(2) Painting Tanks and Other Immovable Fixed Structures*** Spray Painting	-100% VOC evaporates -Painting used on 1 tank or 1 vessel per year - Survey of MSDS sheets (a)(b) indicates VOC content varies from 2 lb/gallon to 7 lb/gallon. As Chapter 115 limits VOC content to 3.5 lb/gal in nonattainment areas this was used as a conservative amount. -Input parameters based on TCEQ Surface Coating Guidance Document for Air Quality Permit Applications. -Per field research in 2012, company indicated that a large site uses around 100 gallons to paint pipes and tanks in 6 month period.	VOC content (lb/gal)	3.5	Paint used (gallons)	100	0.175 VOC (tpy)
			$PM_{10\ \&\ 2.5}$ content (lb/gal)	8			
			Transfer Efficiency $PM_{10\ \&\ 2.5}$ (%)	65			0.008 PM_{10} (tpy)
			Droplet factor for $PM_{2.5}$ overspray (%)	99			
			Droplet factor for PM_{10} overspray (%)	94			0.001 $PM_{2.5}$ (tpy)
4	***(b)(2) Sandblasting***	-An application rate of 2,000 lb/hr. -Per industry expertise and BMP, blasting occurs for 5 days per year and 8 hrs per day -Emission factors for PM10 based on TCEQ Abrasive Blast Cleaning technical guidance document. Emission factor for PM2.5 is based on 15% of PM10 emission factor.	Emission factor for PM_{10} (lb/lb of usage)	0.0014	Number of hours blasting operation occurs	40	0.056 PM_{10} (tpy)
			Application rate (lb/hr)	2000			
			PM_{10} Emissions (lb/hr)	2.8			
			Emission factor for $PM_{2.5}$ (lb/lb of usage)	0.00021			0.0084 $PM_{2.5}$ (tpy)
			Application rate (lb/hr)	2000			
			$PM_{2.5}$ Emissions (lb/hr)	0.42			

	TPY	lbs/hr
Total VOC emissions	**0.26**	**0.06**
Total PM_{10} emissions	**0.06**	**0.01**
Total $PM_{2.5}$ emissions	**0.01**	**0.002**

Texas GulfLink, LLC
Offshore Service Vessel (OSV)
Gas Turbine Electric Generators

Two 1,800 KW gas turbine generators are used to supply electricity to the OSV.

EPN	Description	Op Hours Firing LVOC	Op Hours Firing SVOC	Firing Rate LVOC (MMBtu/yr)	Firing Rate SVOC (MMBtu/yr)
(OSV) GT-1	GT Generator 1	4,692.0	4,554.0	65,990	43,758
(OSV) GT-2	GT Generator 2	4,692.0	4,554.0	65,990	43,758

Given:

Power Output of Each Generator	1800	KW[1]
Power Output of Each Turbine	3,600	Hp[2]
Power Output of Each Turbine	2,685	KW[3]

	Gas Turbine Generator 1				Gas Turbine Generator 2			
Load (%)	30	40	50	90	30	40	50	90
Hours/Month	0.0	11.5	0.0	379.5		11.5		379.5
Hours/Year	0.0	138.0	0.0	4,554.0		138.0		4,554.0
Fuel Flow (kg/s) - LVOC	0.094	0.103	0.111	0.089		0.103		0.089
Exhaust Gas Flow (kg/s) - LVOC	9.0	9.0	9.0	9.0		9.0		9.0
LHV (MJ/kg) - LVOC	46.2	46.2	46.2	46.2		46.2		46.2
Firing Rate (MJ/s) - LVOC	4.34	4.76	5.13	4.10		4.76		4.10
Firing Rate (MMBtu/hr) - LVOC[4]	14.82	16.24	17.50	14.00		16.24		14.00
Exhaust Gas Flow (kg/s) - SVOC	9.1	9.1	9.1	9.2		9.1		9.2
Fuel Flow (kg/s) - SVOC				0.141				0.141
LHV (MJ/kg) - SVOC				20.0				20.0
Firing Rate (MJ/s) - SVOC				2.82				2.82
Firing Rate (MMBtu/hr) - SVOC[4]				9.61				9.61

Criteria Emissions

	LVOC Emission Factors		SVOC Emission Factors	
Pollutant		Source		Source
PM_{10} (lb/hr)	0.25	Manufacturer	0.25	Manufacturer
$PM_{2.5}$ (lb/hr)	0.25	Manufacturer	0.25	Manufacturer
SO_2 (Lb/MMBtu)	0.0034	AP-42, Table 3.1-2a	0.0034	AP-42, Table 3.1-2a
NOx (ppmv)	40	Manufacturer	40	Manufacturer
CO (ppmv)	50	Manufacturer	50	Manufacturer
VOC (ppmv)	5	Manufacturer	5	Manufacturer

40 CFR 60 App A-7, Method 19 - flue gas flow (15% O_2) =	30,854	dscf/MMBtu
MW NOx (as NO_2) =	46	lb/lb-mole
MW CO =	28	lb/lb-mole
MW VOC (as propane C3H8) =	44	lb/lb-mole
Molal volume of ideal gas =	385.3	scf/lb-mole (68F, 1

NOx factor =	0.147	lb/MMBtu
CO factor =	0.112	lb/MMBtu
VOC factor =	0.018	lb/MMBtu

	Gas Turbine Generator 1		Gas Turbine Generator 2	
Pollutant	Max Hourly (Lb/Hr)	Annual (TPY)	Max Hourly (Lb/Hr)	Annual (TPY)
PM_{10}	0.30	1.31	0.30	1.31
$PM_{2.5}$	0.30	1.31	0.30	1.31
SO_2	0.25	0.19	0.14	0.19
NOx	3.48	8.16	3.48	8.16
CO	2.65	6.21	2.65	6.21
VOC	0.42	0.98	0.42	0.98

Emission rates for NOx, CO, and VOC based on L-VOC firing only, and at max Firing Rate (L-VOC + S-VOC)

Example Calculation - same method for NOx, CO and VOC

$E.R._i$ (lb/hr) = $Factor_i$ (lb/MMBtu) x F.R. (MMBtu/hr) = ($ppmv_i$/1E06 x MWi x flue gas flowrate / molal volume) x F.R. (MMBtu/hr)

For NOx: E.R. (lb/hr) = [350/1E06 x 46.01 x 10,170 / 385.3] x (14.0 + 9.61) = 3.48 lb/hr NOx

E.R. (tpy) = 10.03 lb/hr x 4,692 hr/yr / 2,000 lb/ton = 8.16 tpy NOx

Greenhouse Gas Emissions

Pollutant		Natural Gas Emission Factor[5] (kg/MMBtu)	Global Warming Potentials[6]	Gas Turbine Generator 1				Gas Turbine Generator 2			
				Average[7] (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO_2e[8] (tonnes/yr)	Average[7] (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO_2e[8] (tonnes/yr)
CO_2		53.06	1	1,645.2	1,645.2	3,859.7	3,502.4	1,645.2	1,645.2	3,859.7	3,502.4
CH_4		1.00E-03	25	0.03	0.03	0.07	0.07	0.03	0.03	0.07	0.07
N_2O		1.00E-04	298	0.003	0.003	0.01	0.01	0.003	0.003	0.01	0.01
CO_2e		--	--	1,645.2	1,645.2	3,859.7	3,502.5	1,645.2	1,645.2	3,859.7	3,502.5

Hazardous Air Pollutant Emission Calculation:

Hazardous Air Pollutant	Emission Factor[9] [lb/MMBtu]		Emission Factor Source	Gas Turbine Generator 1			Gas Turbine Generator 2		
				Average (lb/hr)	Maximum (lb/hr)	Annual (tpy)	Average (lb/hr)	Maximum (lb/hr)	Annual (tpy)
1,3-Butadiene	4.30E-07	-	AP-42, Ch. 3.1	5.28E-06	3.10E-05	2.31E-05	5.28E-06	3.10E-05	2.31E-05
Acetaldehyde	4.00E-05	-	AP-42, Ch. 3.1	4.91E-04	2.89E-03	2.15E-03	4.91E-04	2.89E-03	2.15E-03
Acrolien	6.40E-06	-	AP-42, Ch. 3.1	7.85E-05	4.62E-04	3.44E-04	7.85E-05	4.62E-04	3.44E-04
Benzene	1.20E-05	-	AP-42, Ch. 3.1	1.47E-04	8.66E-04	6.45E-04	1.47E-04	8.66E-04	6.45E-04
Ethylbenzene	3.20E-05	-	AP-42, Ch. 3.1	3.93E-04	2.31E-03	1.72E-03	3.93E-04	2.31E-03	1.72E-03
Formaldehyde	7.10E-04	-	AP-42, Ch. 3.1	8.71E-03	5.12E-02	3.82E-02	8.71E-03	5.12E-02	3.82E-02
Naphthalene	1.30E-06	-	AP-42, Ch. 3.1	1.60E-05	9.38E-05	6.99E-05	1.60E-05	9.38E-05	6.99E-05
PAH	2.20E-06	-	AP-42, Ch. 3.1	2.70E-05	1.59E-04	1.18E-04	2.70E-05	1.59E-04	1.18E-04
Propylene Oxide	2.90E-05	-	AP-42, Ch. 3.1	3.56E-04	2.09E-03	1.56E-03	3.56E-04	2.09E-03	1.56E-03
Toluene	1.30E-04	-	AP-42, Ch. 3.1	1.60E-03	9.38E-03	6.99E-03	1.60E-03	9.38E-03	6.99E-03
Xylene	6.40E-05	-	AP-42, Ch. 3.1	7.85E-04	4.62E-03	3.44E-03	7.85E-04	4.62E-03	3.44E-03

Notes:

(1) Taken from https://www.opraturbines.com/gas-turbine/

(2) Taken from https://www.electricgeneratorsdirect.com/stories/22-How-to-Pick-the-Perfect-Power-Take-Off-Generator.html, "The rule of thumb is that you need 2 HP to produce 1 kW of electricity."

(3) 1.341 hp/Kw

(4) 0.00094782 MMBtu/MJ

(5) All emission factors taken from Tables C-1 and C-2 to Subpart C of Part 98.

(6) Global warming potentials for converting to CO_2e taken from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

(7) Emissions converted from kg to lbs using 2.20462 lb/kg.

(8) CO_2e tonnes calculated using 2,204 lbs/tonne and global warming potentials from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

(9) AP-42, Sec 3.1, Table 3.1-3

OSV time allocation at Deepwater Port - Monthly			Power to Buss			
			Hours	GT	GT	Functions
VLCC's per month		**11.5**		1789	1789	
				Power percentage		
Loading hours	33	**379.5**	33	90	90	DP, Hotel, VR
Hose set-up SPM	1		1	33	33	Engine, DP, Hotel
Mooring Ops	4		4	33	33	Engine, DP, Hotel
Cargo Hoses	1		1	33	33	Engine, DP, Hotel
Vapor Hose	1		1	33	33	Engine, DP, Hotel
DOI/Line-up loading cargo	1		1	33	33	Engine, DP, Hotel
Cargo Hoses	1		1	33	33	Engine, Hotel
Vapor Hose	1		1	33	33	Engine, Hotel
unmooring	1		1	33	33	Engine, Hotel
Mooring & Hoses Total	10	**115**				
in-bound Freeport	2.8		1	90	90	Engine, Hotel
docking/port passage	1		1	38	38	Engine, Hotel
dock activities	12		1	46	0	Pumps, Hotel
undocking/port passage	1		1	38	38	Engine, Hotel
out-bound transit	2.8		1	90	90	Engine, Hotel
Total offload trip	19.6	**117.6**				
Port Congestion		**6**	1	24	0	Hotel
shore fog delay		6	1	24	0	Hotel
offshore fog	8					
seas> 10 ft	40					
no vr seas	6					
Weather Delays		**54**	1	24	0	Hotel
Repairs/Insp/stores		**12**	1	30	0	Hotel, Misc
Maintenance		**24**	1	30	0	Hotel. Misc
Misc Idle time at Deepwater Port		6	1	24	0	Hotel
Monthly Total hours		**720.1**				

Performance data for LVOC fuel (LHV=46.2 MJ/kg) as a function of load. Tamb=15C.												
Load	[%]	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
Electrical Power	[kW]	0	166	332	498	664	830	996	1162	1328	1494	1660
Electrical efficiency	[%]	0.0%	4.8%	8.5%	11.4%	13.8%	16.1%	18.0%	19.4%	20.7%	21.7%	22.7%
Exhaust Gas Temperature	**[degC]**	322	348	369	394	419	438	462	490	518	546	574
Fuel flow	**[kg/s]**	0.062	0.074	0.084	0.094	0.103	0.111	0.119	0.129	0.138	0.148	0.157
Exhaust Gas Flow	**[kg/s]**	8.9	8.9	8.9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0

Performance data for LVOC fuel (LHV=46.2 MJ/kg) as a function of ambient temperature									
Engine inlet temperature	[degC]	**-20**	**-10**	**0**	**10**	**15**	**20**	**30**	**40**
Electrical Power	[kW]	2161	2016	1868	1726	1660	1575	1422	1295
Electrical efficiency	[%]	25.2%	24.5%	23.8%	23.1%	22.7%	22.1%	20.9%	19.8%
Exhaust Gas Temperature	**[degC]**	549	557	563	570	574	578	587	598
Fuel flow	**[kg/s]**	0.185	0.177	0.168	0.161	0.157	0.153	0.146	0.141
Exhaust Gas Flow	**[kg/s]**	10.1	9.9	9.5	9.1	9.0	8.8	8.4	8.0

Performance data for surplus gas fuel SVOC (LHV=20 MJ/kg) as a function of load. Tamb=15C.												
Load	[%]	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
Electrical Power	[kW]	0	162	324	486	647	809	971	1133	1295	1456	1618
Electrical efficiency	[%]	0.0%	4.5%	8.0%	10.7%	13.1%	15.3%	16.9%	18.3%	19.6%	20.7%	21.6%
Exhaust Gas Temperature	**[degC]**	334	360	381	407	430	448	476	503	530	556	582
Fuel flow	**[kg/s]**	0.151	0.179	0.202	0.226	0.247	0.265	0.287	0.309	0.330	0.352	0.374
Exhaust Gas Flow	**[kg/s]**	9.0	9.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.2	9.2

Performance data for surplus gas fuel SVOC (LHV=20 MJ/kg) as a function of ambient temperature									
Engine inlet temperature	[degC]	**-20**	**-10**	**0**	**10**	**15**	**20**	**30**	**40**
Electrical Power	[kW]	2113	1967	1823	1683	1618	1534	1383	1260
Electrical efficiency	[%]	24.1%	23.4%	22.8%	22.0%	21.6%	21.0%	19.9%	18.8%
Exhaust Gas Temperature	**[degC]**	557	564	571	578	582	586	595	605
Fuel flow	**[kg/s]**	0.438	0.421	0.400	0.382	0.374	0.364	0.347	0.334
Exhaust Gas Flow	**[kg/s]**	10.4	10.1	9.7	9.3	9.2	9.0	8.6	8.2

Texas GulfLink, LLC
Offshore Service Vessel (OSV)
OSV Diesel Generators

Two (2) 1,800 KW generators are used to supply electricity to the OSV.
Supplemental power is sourced, when needed, from four diesel engines. Hours of use assume pumping at maximum rate 25% of cycle, during this time additional power demand requires use of second diesel engine (CAT 3512C-No. 1). During normal pumping (75% of cycle), conservatively assuming that one of the larger two engines (CAT 3516C-No. 1) is used.

EPN	Description[1]	Power Output of Engine KW[1]	Power Output of Engine Hp[1]	Firing Rate[3] (MMBtu/hr)	Load during Loading	Operating Hours
(OSV) EDG-1	CAT 3516C - No. 1	2,000	2,100	14.70	90%	4,692
(OSV) EDG-2	CAT 3516C - No. 2	2,000	2,100	14.70	71%	0
(OSV) EDG-3	CAT 3512C - No. 1	1,700	1,500	10.50	71%	1,173
(OSV) EDG-4	CAT 3512C - No. 2	1,700	1,500	10.50	71%	0

Calculation Methodology:
Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation:

					CAT 3516C - No. 1			CAT 3512C - No. 1		
Pollutant	**Emission Factor[4]** [g/kW-hr]	**Emission Factor[2]** [g/hp-hr]	**Emission Factor [lb/hp-hr]**	**Emission Factor Source**	**Average Hourly Rate [lb/hr]**	**Max Hourly Rate [lb/hr]**	**Annual Emission Rate [tpy]**	**Average Hourly Rate [lb/hr]**	**Max Hourly Rate [lb/hr]**	**Annual Emission Rate [tpy]**
PM_{10}	0.2	0.15	0.0003	NSPS 4I	0.33	0.33	1.46	0.05	0.05	0.21
$PM_{2.5}$	0.2	0.15	0.0003	NSPS 4I	0.33	0.33	1.46	0.05	0.05	0.21
SO_2	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.01	0.01	0.05	0.00	0.00	0.01
CO	3.5	2.61	0.01	NSPS 4I	5.82	5.82	25.51	0.82	0.82	3.59
NMHC + NOx	6.40	-	-	NSPS 4I	-	-	-	-	-	-
NO_x	6.23	4.65	0.01	NSPS 4I	10.37	10.37	45.44	1.46	1.46	6.40
Total VOC	0.17	0.12	0.0003	NSPS 4I	0.28	0.28	1.21	0.04	0.04	0.17

Greenhouse Gases Emission Calculation:

			CAT 3516C - No. 1				CAT 3512C - No. 1			
Pollutant	Emission Factor[5] (kg/MMBtu)	Global Warming Potentials[6]	Average[7] (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO_2e[8] (tonnes/yr)	Average[7] (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO_2e[8] (tonnes/yr)
CO_2	73.96	1	2,397	2,397	5,623	5,103	1,712	1,712	1,004	911
CH_4	3.00E-03	25	0.1	0.1	5.7	5.2	0.1	0.1	4.1	0.9
N_2O	6.00E-04	298	0.02	0.02	14	12.3	0.01	0.01	10	2.2
CO_2e	--	--	2,397	2,397	5,642	5,120	1,712	1,712	1,018	914

Toxic Air Pollutant Emission Calculation:

			CAT 3516C - No. 1			CAT 3512C - No. 1		
Pollutant	Emission Factor [lb/MMBtu]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	0.0000252	AP-42, Ch. 3.4	0.0002	0.0002	0.001	0.00003	0.00003	0.0001
Benzene	0.000776	AP-42, Ch. 3.4	0.005	0.005	0.024	0.001	0.001	0.003
Formaldehyde	0.0000789	AP-42, Ch. 3.4	0.001	0.001	0.002	0.0001	0.0001	0.0003
Toluene	0.000281	AP-42, Ch. 3.4	0.002	0.002	0.009	0.0003	0.0003	0.001
Xylene	0.000193	AP-42, Ch. 3.4	0.001	0.001	0.006	0.0002	0.0002	0.001

Notes:

(1) Generator Model Numbers and KW provided by Abadie. HP taken from Caterpillar website is Max Hp for that Model Number.

(2) 1.341 hp/Kw

(3) Converted using 7,000 Btu/hp-hr from AP-42, Chapter 3.

(4) NMHC + NO_x, CO, and PM taken from 40 CFR 89.112(a) Table 1; PM factor used for PM_{10} and $PM_{2.5}$; NMHC + NO_x factor used for VOC and NOx by assuming 97% NO_x and 3% VOC, based on the ratios of NO_x and VOC AP-42 emission factors in Chapter 3.4.

(5) All emission factors taken from Tables C-1 and C-2 to Subpart C of Part 98. Distillate Fuel Oil No. 2 for CO_2 emission factor, Petroleum (all fuel type in Table C-1) for CH_4 and N_2O emission factors.

(6) Global warming potentials for converting to CO_2e taken from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

(7) Emissions converted from kg to lbs using 2.20462 lb/kg.

(8) CO_2e tonnes calculated using 2,204 lbs/tonne and global warming potentials from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

Texas GulfLink, LLC
Offshore Service Vessel (OSV)
OSV Fugitive Emissions

EPN	Description
(OSV) F-1	OSV Fugitive Emissions

Given:

Component Type	Service	Component Count
Valves	Light liquid (LL)	52
Pump seals	Light liquid (LL)	0
Flanges	Light liquid (LL)	141
Valves	G/V	143
Pump seals	G/V	0
Flanges	G/V	455
Other	-	3

Reference:
Air Permit Technical Guidance for Chemical Sources - Fugitive Guidance, APDG 6422, Air Permits Division TCEQ, June 2018, Table II
Gas/vapor "flange" and "other" emission factors not available in Table II; therefore, applied the gas/vapor valve emission factor to be conservative.

Calculation Methodology:
VOC Average Hourly Rate [lb/hr] = TCEQ Emission Factor [lb/hr/component] x Component Count
VOC TAP Speciated Hourly Rate [lb/hr] = Liquid Mass Fraction x Total VOC Average Hourly Rate [lb/hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Emission Calculation: used "Petroleum Markting Terminal" emission factors (TCEQ guidance)

Component Type	Gas/Vapor Factor [lb/hr/component]	Light Liquid Factor [lb/hr/component]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Valves	0.0000287	0.0000948	0.01	0.01	0.04
Pump seals		0.00119	0.E+00	0.E+00	0.E+00
Flanges	0.0000287	0.00001762	0.02	0.02	0.07
Other	0.0000287		0.0001	0.0001	0.0004
		Total VOC	**0.02**	**0.02**	**0.11**

VOC TAP Speciation	Liquid Mass Fraction(1)	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	0.006	0.0001	0.0001	0.0006
Ethylbenzene	0.004	0.00010	0.00010	0.0004
n-Hexane	0.019	0.00048	0.00048	0.0021
Toluene	0.010	0.0002	0.0002	0.0011
Xylenes	0.014	0.0003	0.0003	0.002
Cumene (Isopropyl benzene)	0.001	0.00002	0.00002	0.00011
Iso-octane	0.001	0.00002	0.00002	0.00011

Notes:
(1) VOC TAP Speciation Profile from TANKS 4.09d for Crude Oil.
Liquid weight (mass) fractions used for fugitives because emissions occur directly from liquid in piping (no vapor space is formed)

Hydrogen Sulfide Emissions:

Molecular Weight of H_2S (lb/lbmol):	34.1
Average Concentration of H_2S in Crude (ppmv):	5
Molecular Weight of Crude (lb/lbmol):	50
Average TVP of Crude (psia):	8.98

Average Concentration of H_2S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	1.38E-07	1.38E-07	6.03E-07

Texas GulfLink, LLC
Offshore Service Vessel (OSV)
OSV Fugitive Emissions - Hose Disconnects

EPN	Description
(OSV) F-2	VRV Fugitive Emissions - Hose Disconnects

Hose disconnected after each VLCC load. Hose is 250' in length with a 16" diameter.

Hose diameter	16	in	
Hose length	2	ft	(spool piece)
Hose pressure	1	psig	
Hose volume	2.79	cu ft	
Gas volume	2.98	SCF	
Releases per year	180		

VMW of Crude from TANKS 4.09d:	50.00	lb/lbmol
	385.30	scf/lbmol
	0.01	lbmol
	0.39	lbs VOC per event
	69.67	lbs VOC per year

From TANKS 4.09d:

NAME	V_WT_FRACT
Hexane (-n)	0.022831039
Benzene	0.004411371
Isooctane	0.000379612
Toluene	0.002159389
Ethylbenzene	0.00029583
Xylene (-m)	0.000865592
Isopropyl benzene	3.37653E-05

0.03	tons VOC per year
0.001	tons/yr n-Hexane
0.0002	tons/yr Benzene
0.00001	tons/yr Isooctane
0.0001	tons/yr Toluene
0.00001	tons/yr Ethylbenzene
0.00003	tons/yr Xylene
0.000001	tons/yr Cumene

0.39	lbs VOC per hr
0.01	lbs/hr n-Hexane
0.002	lbs/hr Benzene
0.0001	lbs/hr Isooctane
0.001	lbs/hr Toluene
0.0001	lbs/hr Ethylbenzene
0.0003	lbs/hr Xylene
0.00001	lbs/hr Cumene

Hydrogen Sulfide Emissions:

Molecular Weight of H2S (lb/lbmol):	34.1
Average Concentration of H_2S in Crude (ppmv):	5
Molecular Weight of Crude (lb/lbmol):	50
Average TVP of Crude (psia):	8.98

Average Concentration of H_2S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	4.44E-08	4.44E-08	1.94E-07

Texas GulfLink, LLC
Offshore Service Vessel (OSV)
Uncontrolled Marine Loading (Bad Weather)

EPN	Description
(OSV) UM -1	Uncontrolled Marine Loading/ Poor Weather/ Safety First

This calculation takes into account emissions from uncontrolled loading in the event that there is bad weather and therefore, the OSV must vacate the area.
It is estimated that this may occur three times per year for six hours per event. Whereas, loading under normal conditions is based on a max load rate of 85,000 bph, this bad weather calculation assumes 65,000 bph.

3	**Events/Yr**
6	**Hours/Event**

AP-42, Chapter 5, Section 5.2
Transportation and Marketing of Petroleum Liquids
Equation 2 was developed specifically for estimating emissions from the loading of crude oil into ships and ocean barges.

$C_L = C_A + C_G$
C_L = total loading loss (lb/10^3 gal of crude oil loaded)

C_A = arrival emission factor (lb/10^3 gal loaded)

C_A =	0.86	Taken from Table 5.2-3, based on "Uncleaned" and "Volatile", assumes no ballasting. Vapor pressure is > 1.5 psia.

C_G = generated emission factor (lb/10^3 gal loaded)
Equation 3: $C_G = 1.84*(0.44P-0.42)*((MG)/T)$

P =	8.98	psia	Average true vapor pressure for Crude Oil estimated using TANKS 4.09d and information provided by Abadie-Williams LLC.	
P =	10.00	psia	Maximum true vapor pressure for Crude Oil estimated using AP-42, Figure 7.1-13 and information provided by Abadie-Williams LLC.	Based on 80 deg F and RVP10.
M =	50	lb/lb-mol	VMW of loaded crude	
G =	1.02	dimensionless	AP-42	
T =	529.67	deg R	Average temperature of loaded crude provided by Abadie-Williams LLC.	
T =	539.67	deg R	Maximum temperature of loaded crude provided by Abadie-Williams LLC.	
C_G =	0.63	**ANNUAL EMISSION FACTOR**		
C_G =	0.69	**MAXIMUM EMISSION FACTOR**		

ANNUAL

C_L =	1.49	lb TOC/10^3 gal loaded	1.26	lb VOC/10^3 gal loaded

MAXIMUM

C_L =	1.55	lb TOC/10^3 gal loaded	1.32	lb VOC/10^3 gal loaded

Per Chapter 5, emission factors derived from Equation 3 and Table 5.2-3 represent TOC. When specific vapor composition information is not available, the VOC emission factor can be estimated by taking 85% of the TOC factor.

Pollutant	Maximum Emission Factor ($lb/10^3$ gal)	Annual Emission Factor ($lb/10^3$ gal)	Maximum Crude Loading Rate (bbl/hr)	Annual Crude Loaded (bbl/yr)	MW (lb/lbmol)	Average Concentration of H_2S in Crude (ppmv)	Maximum Concentration of H_2S in Crude (ppmv)	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
VOC	1.32	1.26	65,000	1,170,000	-	-	-	3,447.37	3,601.55	31.03
Benzene	-	-	-	-	-	-	-	15.31	15.99	0.14
Ethylbenzene	-	-	-	-	-	-	-	8.62	9.00	0.08
n-Hexane	-	-	-	-	-	-	-	112.04	117.05	1.01
Isooctane	-	-	-	-	-	-	-	60.26	62.96	0.54
Isopropyl benzene	-	-	-	-	-	-	-	0.12	0.12	0.001
Toluene	-	-	-	-	-	-	-	28.65	29.93	0.26
Xylene	-	-	-	-	-	-	-	23.17	24.20	0.21
H_2S	-	-	-	-	34.1	5	25	0.00004	0.09	0.0002

Annual Crude Loading Rate provided by Abadie-Williams LLC.
Maximum Crude Loading Rate provided by Abadie-Williams LLC.
Maximum and Annual Concentration of H_2S in Crude is an assumption.

	Tanks 4.09d (rev)	WTI S/T 6008	WTI - Pecos River	WTI - Houston	Bakken 2016
HAP *	Wt Frac	Wt Frac	Wt Frac	Wt Frac	Wt Frac
Benzene	0.0044	0.00398	0.00444	0.00256	0.0017
Ethylbenzene	0.0003	0.0025			
Hexane (-n)	0.0228	0.01507	0.01932	0.01481	0.0325
Isooctane	0.0004	0.01748			
Isopropyl benzene	0.0000				
Toluene	0.0022	0.00831			0.0067
Xylene (-m)	0.0009	0.00672			
Unidentified Components	0.9637	0.93483			
Cyclohexane	0.0053	0.01111			
1,2,4-Trimethylbenzene	0.0000				
Sum Wt Fac	1.0000				

* Gaps shown for HAP concentrations due to incomplete crude assay data. Conservative assumptions made for n-hexane.

HAP	Highest WT FRAC *	Source
Benzene	0.0044	Tanks 4.09d
Ethylbenzene	0.0025	WTI S/T 6008
Hexane (-n)	0.0325	Tanks 4.09d
Isooctane	0.0175	WTI S/T 6008
Isopropyl benzene	0.0000	Tanks 4.09d
Toluene	0.0083	WTI S/T 6008
Xylene (-m)	0.0067	WTI S/T 6008
Unidentified Comp	0.9637	Tanks 4.09d
Cyclohexane	0.0111	WTI S/T 6008
1,2,4-Trimethylbenzene	0.0000	Tanks 4.09d
Sum Wt Fac	1.0468	

* HAP speciation profile is worst-case.

Texas GulfLink, LLC
Offshore Service Vessel (OSV)
MSS - Other Misc. Maintenance

EPN	Description
(OSV) MSS-2	MSS - Other Misc. Maintenance

Filter/Oil Changes, Other Equipment Maintenance

Emissions from miscellaneous maintenance after 20 VLCC loadings are estimated based on the following:

Quantity	Units
6.08	Events/Yr
1	kg VOC/event
2.20	lb VOC/event
4	hr/event
24	hr/yr
1	lb/hr
13.41	lb VOC/yr
0.01	ton VOC/yr

Clearing Module Lines

Emissions from clearing module lines after each VLCC loading are estimated based on the following:

Quantity	Units
183	VLCC Loadings/Yr
4	kg VOC/event
8.82	lb VOC/event
1	hr/event
183	hr/yr
9	lb/hr
1,613.78	lb VOC/yr
0.81	ton VOC/yr

OP16-3C Datasheet

1.1 OP16-3C gas turbine

Table 1.1: Gas turbine specifications	
Compressor	
Type	Centrifugal radial
Compressor ratio	6.7:1
Number of stages	1
Turbine inlet mass flow	8.6 kg/s
Combustion system	
Type	4x Can combustors, 3C
Ignition	Electrical spark plugs
Bearings and bearing housing	
Thrust type	Ball bearing
Radial type	Tilting pad
Turbine	
Type	Radial inflow
Number of stages	1
Exhaust flow	8.8 kg/s
Exhaust temperature	585 °C
Turbine speed	26000 rpm
Shaft speed at gearbox output: 60 Hz application	1800 rpm
Overall dimensions	
Length	2500 mm
Width	1500 mm
Height	1500 mm
Dry weight	1950 kg
Construction materials	
Compressor rotor	Titanium alloy
Compressor shroud and intake casing	Nodular cast iron
Compressor stator vanes	Stainless steel
Hot section heat shields/shrouds	High grade nickel-based alloy
Rotor shaft	Nitriding steel alloy
Engine casing	Heat-resistant pressure vessel steel
Nozzle Guide Vane	Ni-based/ODS alloy
Turbine and exducer impeller	High grade nickel-based alloy
Exhaust diffuser	Stainless steel
Vibration monitoring (in bearing housing)	
Acceleration transducer	1 x sensor
Rotor displacement probes	2x sensor/transmitters

1.2 Gearbox

Table 1.2: Gearbox and coupling specifications	
Gearbox	
Type	GB24-1800
Power rating	2.4 MW
Intermittent overload capability	10% of nominal power for max. 800 hours
Input shaft speed	26000 rpm
Output shaft speed	1800 rpm
Output shaft direction of rotation	Clockwise, facing shaft end
Dry weight	345 kg

1.3 Exhaust emissions

Table 1.3: Exhaust emissions (from 20% to 100% Load)	
NOx *at 15°C and 15 % O_2*	*< 40 ppmv*
CO *at 15°C and 15% O_2*	*< 50 ppmv*
VOC *at 15°C and 15% O_2*	*< 5 ppmv*

The OP16 gas turbine exhaust emissions are entirely driven by the design of the 3C diffusion type combustion system and composition of supplied fuel. The turbine does not contain any additional systems for emission reduction.

The above emissions were calculated with the SVOC-LVOC composition (average LHV 9.4 MJ/Kg). This document was provided by Wartsila on the 25th of March, 2022, under the name "SVOC-LVOC Composition.xlsx"

Appendix D
Detailed Regulatory Analysis (TCEQ Title V Forms)

Form OP-1	Site Information Summary
Form OP-CRO1	Certification by Responsible Official
Form OP-REQ1	Application Area-Wide Applicability Determinations and General Information
Form OP-REQ2	Negative Applicable Requirement Determination
Form OP-SUM	Individual Unit Summary for Revisions
Form OP-UA	Unit Attribute Forms

Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 - Instructions

Owners or operators of a site required to obtain a federal operating permit (FOP), in accordance with Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), must complete and submit an FOP application to the Texas Commission on Environmental Quality (TCEQ), Office of Permitting and Registration, Air Permits Division (APD), and a copy must be submitted to the appropriate TCEQ regional office. There are three types of FOPs, and they are as follows: site operating permit (SOP), temporary operating permit (TOP), and general operating permit (GOP). Information on these permit types can be found on the TCEQ website at www.tceq.texas.gov/permitting/air/titlev/permit_types.html.

For submissions to EPA:

EPA Region 6 office has requested that all applications, including any updates, submitted to EPA be provided in electronic format via email or as a readable media via CD, DVD, or flash drive by mail. Microsoft Word for text, Excel for spreadsheets, and a searchable Adobe Acrobat (pdf) file are the preferred formats. Do not submit any compressed or zip files, files with an ".exe" extension or files that contain any confidential information. Do not submit any individual files larger than 10 megabytes via email, and the total size of all attachments cannot exceed 25 megabytes per email. With the exception of any document that has confidential information, no hard copies of the information contained in the application should be submitted to EPA.

Any application, including any updates, submitted via email should be submitted to EPA at: R6AirPermitsTX@epa.gov. Identify the associated permit number when submitting information.

All confidential information and readable media, CD, DVD, or flash drive, should be mailed to:

Environmental Protection Agency, Region 6
Air Permits Section (ARPE)
Renaissance Tower
1201 Elm St., Suite 500
Dallas, Texas 75270-2102

Please contact Ms. Aimee Wilson (wilson.aimee@epa.gov) at (214) 665-7596 if you have any questions pertaining to electronic submittals.

General:

The purpose of this form is to provide general information regarding the company, site, and area for which an FOP application is being submitted. **This form is required for all initial and renewal FOP applications.** This form is only required for FOP revision applications if the information on this form has changed. FOP revision and renewal applications must include Form OP-2 (Application for Permit Revision/Renewal), at a minimum.

Note: For a change of company name or ownership only, submit TCEQ Form Number 20405. Form OP-1 is not required.

For initial FOP issuance only, an abbreviated application (at a minimum) must be submitted in accordance with 30 TAC § 122.130. An abbreviated application consists of Form OP-1 (Site Information Summary), Form OP-CRO1 (Certification by Responsible Official), and a TCEQ Core Data Form. In accordance with 30 TAC § 122.130, the executive director will inform the applicant in writing of the deadline for submitting the remaining application information (full application).

Information regarding SOP application requirements can be found on TCEQ's Air Site Operating Permit Guidance webpage located at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_site_guidance.html. Information regarding GOP application requirements can be found on TCEQ's Air General Operating Permit Guidance webpage located at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_gop_guidance.html.

Submitting a timely and complete application, as defined in 30 TAC §§ 122.133 and 122.134, is critical and allows the applicant to receive the benefit of an application shield, as defined in 30 TAC § 122.138. The application shield serves as authorization to operate the site until final action is taken on the application. **Failure to supply any information requested by the TCEQ, pursuant to the application review, may result in loss of the application shield.**

The responses to most data elements in Form OP-1 are limited in some way. **Responses not made according to the instructions may result in delays in this or other permitting actions.**

1) Some responses have a character limit. (Example: "Company Name," maximum 50 characters.) The responses may consist of characters, digits, or a combination of the two. When appropriate, common abbreviations can be used to fit a response into the space allotted.

2) Some responses are limited to "YES" or "NO" and in some cases "N/A" for "not applicable." Applicants must select one of these options. "N/A" is an acceptable response only when it is stated in the instructions for the question.

3) Some responses must be in a specific format. (Examples: Dates, MM/DD/YYYY; Latitude/Longitude, DDD:MM:SS.)

4) Some responses are limited to a set of mutually exclusive response options, and selections are recorded by placing an "X" in the box next to the appropriate response. (Example: "Permit Type.")

The TCEQ requires that a Core Data Form be submitted on all incoming registrations unless a Regulated Entity and Customer Reference Number have been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ website at: www.tceq.texas.gov/permitting/central_registry/guidance.html.

Specific:

Page 1:

I. Company Identifying Information

A. **Company Name:**
Enter the name of the company for which the application is being submitted (maximum 50 characters). The company name should be the name used to incorporate, for which a franchise tax identification number has been issued. If a franchise tax identification number has not been issued, then enter the most identifying name for the company. The company name on this form and the TCEQ Core Data Form should match.

B. **Customer Reference Number (CN):**
Enter the customer reference number (CN*XXXXXXXXXX*). This number is issued by the TCEQ as part of the central registry process. If a customer reference number has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc., in this space.

C. **Submittal Date:**
Enter the date the application is being submitted by the applicant to the TCEQ (*MM/DD/YYYY*).

II. Site Information

A. **Site Name:**
Enter the name of the site for which the application is being submitted (maximum 50 characters). The Site Name on this form and the Regulated Entity Name listed in Section III of the TCEQ Core Data Form should match.

B. **Regulated Entity Reference Number (RN):**
Enter the regulated entity reference number for the site (RN*XXXXXXXXXX*). This number is issued by the TCEQ as part of the central registry process. If a regulated entity reference number has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc., in this space.

C. **Primary TCEQ Account Number for Site:**
Enter the primary TCEQ account number for the site if issued (*XX-XXXX-X*). If an account number was not issued, leave this space blank.

D. **Indicate Affected State(s) Required to Review Permit Application:**
As stated in 30 TAC § 122.330(b), an affected state may be New Mexico (NM), Oklahoma (OK), Kansas (KS), Colorado (CO), Arkansas (AR), or Louisiana (LA) if the state's air quality may be affected by the issuance or denial of a federal operating permit, revision, or renewal; or that state is within **50 miles** of the site.

Place an "X" in the space to the right of the affected state(s) that is applicable. Place an "X" to the right of "N/A" if affected state review is not applicable.

GOP applications do not require affected state review. Therefore, all GOP applicants should place an "X" to the right of "N/A."

E. **Indicate all pollutants for which the site is a major source based on the site's potential to emit:**
Enter "YES" below all of the pollutants for which the site is classified as a major source, as defined in 30 TAC § 122.10, based on the site's potential to emit. Enter "NO" below all of the pollutants for which the site is not a major source. Do not leave any spaces blank.

The column "Other" is provided for listing of non-criteria regulated air pollutants for which a site is a major source. (Example: chlorinated compounds, inorganic acids) List the pollutant name in the space provided (maximum 20 characters). If there are none, leave this space blank.

Further information regarding potential to emit can be found in the Potential to Emit Guidance, which is located on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

F. **Is the Site a Non-Major Source Subject to the Federal Operating Permit Program?**
Enter "YES" if the site is a non-major source (or area source) subject to the Federal Operating Permit Program. Otherwise, enter "NO." (Note that if the response to this question is "YES," then the responses to question II.E above should all be "NO.")

G. **Is the Site Within a Local Program Area Jurisdiction?**
Enter "YES" if the site is located within the jurisdiction of a local air pollution control program. Otherwise, enter "NO."

A list of local air pollution control programs is located on the TCEQ website at www.tceq.texas.gov/permitting/air/local_programs.html.

H. **Will Emissions averaging be used to Comply with any Subpart of 40 CFR Part 63?**
Enter "YES" if emissions averaging will be used by an affected source at the site to comply with any Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) requirement, relating to National Emission Standards for Hazardous Air Pollutants for Source Categories that has been promulgated at the time of application submittal. Otherwise, enter "NO."

Emissions averaging, as defined in 40 CFR § 63.2, is a way to comply with the emission limitations specified in a relevant standard, whereby an affected source, if allowed under a subpart of this part, may create emission credits by reducing emissions from specific points to a level below that required by the relevant standard, and those credits are used to offset emissions from points that are not controlled to the level required by the relevant standard.

I. **Indicate the 40 CFR Part 63 Subpart(s) that will use Emissions Averaging:**
If emissions averaging will be used by an affected source at the site to comply with any 40 CFR Part 63, enter the subpart designation (*Example: N, P, CC, KK*) in the boxes provided. Use a separate box for each subpart designation that will use emissions averaging. Enter "N/A" in the first box provided if emissions averaging will not be used.

III. Permit Type:

A. **Type of Permit Requested:**
Indicate the type of permit for which this application is being submitted by placing an "X" in the space to the right of the selection (SOP, TOP, or GOP). Select only one response.

Information on the different permit types can be found on the TCEQ website at www.tceq.texas.gov/permitting/air/titlev/permit_types.html.

IV. Initial Application Information *(Complete for Initial Issuance Applications only.)*

A. **Is this Submittal an Abbreviated or Full Application?**
Indicate the type of application ("Abbreviated" or "Full") by placing an "X" in the space to the right of the selection.

Abbreviated applications must be submitted in accordance with 30 TAC § 122.130. An abbreviated application only includes Form OP-1, Form OP-CRO1 (Certification by Responsible Official), and the TCEQ Core Data Form. If the submitted application is not an abbreviated application, select "Full."

B. **If this is a Full Application, is this Submittal a Follow-up to an Abbreviated Application?**
Enter "YES" if this submittal is a full application, which is being submitted in response to a request for follow-up information regarding an abbreviated application that was submitted earlier. If this submittal is a full application (Application Type = "Full") *and no abbreviated application was submitted earlier*, enter "NO." If this submittal is an abbreviated application (Application Type = "Abbreviated"), leave this space blank.

C. **If this is an Abbreviated Application, is this an early submittal for a Combined SOP and Acid Rain permit?**
Enter "YES" if this submittal is an early submittal for a combined SOP and Acid Rain permit. Enter "NO" if this submittal is not an early submittal for a combined SOP and Acid Rain permit. If this submittal is a full application (Application Type = "Full"), leave this space blank.

D. **Has a copy of this application been submitted (or is being submitted) to EPA at R6AirPermitsTX@epa.gov?**
Enter "YES" if a copy of this application has been submitted (or is being submitted) to EPA. If not, enter "NO." (See "For submissions to EPA" above for additional information.)

Page 2:

V. Confidential Information

A. **Is confidential information submitted in conjunction with this application?**
Enter "YES" if any confidential information is being submitted in conjunction with this application. Otherwise, enter "NO." All confidential information must be submitted according to the TCEQ guidance located at www.tceq.texas.gov/permitting/air/titlev/apps_timelines.html#confidential.

VI. Responsible Official (RO) Identifying Information

The RO must be listed in this section even if the duties will be delegated to a Duly Authorized Representative (DAR). The DAR information should be provided on the Form OP-DEL (Delegation of Responsible Official). Additional information on Responsible Official and Certification can be found on the TCEQ website at www.tceq.texas.gov/permitting/air/titlev/ro_and_certs.html.

Note: For change of RO and RO information, Form OP-CRO2 (Change of Responsible Official) must be submitted to the TCEQ.

A. **RO Name:**
Place an "X" next to the appropriate conventional title (Mr./Mrs./Ms./Dr.). Enter the name of the RO pursuant to 30 TAC § 122.132(e) and 30 TAC § 122.165 (Last Name, First Name, MI; maximum 25 characters).

B. **RO Title:**
Enter the title of the RO (maximum 60characters).

C. **Employer Name:**
Enter the name of the company, firm, etc. that employs the RO (maximum 50 characters). The company or firm name should be the name used to incorporate, for which a franchise tax identification number has been issued. If a franchise tax identification number has not been issued, then enter the most identifying name for the company or firm.

D. **Mailing Address:** Enter the RO mailing address, including city, state, and ZIP Code (mailing address maximum 50 characters and city maximum 25 characters). If the mailing address is not within the United States, enter the territory, country, and foreign postal code, rather than the state and ZIP Code.

E. **Internal Mail Code:**
Enter the internal mail code that is part of the mailing address, if applicable (maximum 10 characters).

F. **Telephone:**
Enter the RO telephone number with area code.

G. **Fax:**
Enter the RO fax number with area code.

H. **Email:**
Enter the RO electronic mail address (maximum 30 characters).

VII. Technical Contact Identifying Information *(Complete if different from RO information.)*

A. **Technical Contact Name:**
Place an "X" next to the appropriate conventional title (Mr./Mrs./Ms./Dr.). Enter the name of the technical contact for this application, if different from the RO (Last Name, First Name, MI; maximum 25 characters).

If the technical contact is the same as the RO, enter "SAME" in this space and proceed to Section VIII, leaving questions VII.B-J blank.

B. **Technical Contact Title:**
Enter the title of the technical contact (maximum 60characters).

C. **Employer Name:**
Enter the name of the company, firm, etc. that employs the technical contact (maximum 50 characters). The company or firm name should be the name used to incorporate, for which a franchise tax identification number has been issued. If a franchise tax identification number has not been issued, then enter the most identifying name for the company or firm.

D. **Mailing Address:**
Enter the technical contact mailing address, including city, state, and ZIP Code (mailing address maximum 50 characters and city maximum 25 characters). If the mailing address is not within the United States, enter the territory, country, and foreign postal code rather than the state and ZIP Code.

E. **Internal Mail Code (Mailing Address):**
Enter the internal mail code that is part of the mailing address, if applicable (maximum 10 characters).

F. **Telephone:**
Enter the telephone number for the technical contact including area code.

G. **Fax:**
Enter the technical contact fax number with area code.

H. **Email:**
Enter the electronic mail address (maximum 30 characters).

Page 3:

VIII. Reference Only Requirements *(For reference only.)*

Certification by the RO pursuant to 30 TAC § 122.165 does not extend to information which is designated on forms as "For reference only."

A. **State Senator:**
Enter the name of the state senator representing the area in which the site is located (maximum 25 characters)

TCEQ will send notification of the receipt of a permit application to the state senator for the area in which the site is located. State senator information may be obtained by contacting the State Senate at (512) 463-0100 or the Legislative Reference Library at (512) 463-1252. Information may also be obtained via the Texas Senate Internet site at www.legis.state.tx.us/.

B. **State Representative:**
Enter the name of the state representative representing the area in which the site is located (maximum 25 characters).

TCEQ will send notification of the receipt of a permit application to the state representative for the area in which the site is located. State representative information may be obtained by contacting the House of Representatives at (512) 463-4630 or the Legislative Reference Library at (512) 463-1252. Information may also be obtained via the House of Representatives Internet site at www.legis.state.tx.us/.

C. **Has the Applicant Paid Emissions Fees for the Most Recent Agency Fiscal Year?**
Enter "YES" if the applicant has paid all emissions fees, or inspection fees, if applicable, due during the most recent agency fiscal year (September 1 - August 31). Otherwise, enter "NO." If the applicant is not required to pay emissions fees, enter "N/A."

If the answer to VIII.C. is "NO" or "NA," the applicant is required to contact the Industrial Emissions Assessment Section at (512) 239-1459. For further information regarding inspection fees and emission fees, please refer to 30 TAC §§ 101.24 and 101.27.

D. **Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?**
Enter "YES" if the site is subject to the bilingual notice requirements pursuant to 30 TAC § 122.322. Otherwise, enter "NO."

The requirements of 30 TAC § 122.322 are applicable when either the elementary school or the middle school located nearest to the facility, or proposed facility, provides a bilingual education program, as required by Texas Education Code § 29.053 and 19 TAC § 89.1205(a) (relating to Required Bilingual

Education and English as a Second Language Programs), or if either school has waived out of such a required bilingual education program under the provisions of 19 TAC § 89.1205(g). Schools not governed by the provisions of 19 TAC § 89.1205 should not be considered when determining the applicability of 30 TAC § 122.322 requirements.

Elementary or middle schools that offer English as a second language under 19 TAC § 89.1205(d) and are otherwise not affected by 19 TAC § 89.1205(a), will not trigger the requirements of 30 TAC § 122.322(a).

E. **Indicate the alternate language(s) in which public notice is required:**
If the answer to the previous question is "YES," enter the alternate language(s) for which public notice is required in the space provided.

Please use a separate page to indicate the alternate languages if additional space is required. If the answer to the previous question is "NO," enter "NONE".

Examples:

D.	Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?	YES
E.	Indicate the alternate language(s) in which public notice is required: Spanish, Vietnamese, German	

D.	Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?	NO
E.	Indicate the alternate language(s) in which public notice is required: NONE	

IX. Off-Site Permit Request *(Optional)*

Complete this section only if the applicant wishes to maintain the FOP and records at a location other than the site designated in the "Site Information" section of this form.

A. **Office/Facility Name:**
Enter the name of the office or facility where the FOP and records are to be held (maximum 50 characters).

B. **Physical Address:**
Enter the physical address of the office or facility, including city, state, and ZIP Code (physical address maximum 50 characters; city - maximum 25 characters). The physical address cannot be a Post Office Box.

C. **Physical Location:**
If a physical address does not exist, provide a description of the physical location of the office or facility where the permit is to be held (maximum 250 characters). (*Example: Highway 100, 2 miles west of County Road 12*.) Leave Physical Location blank if there is a Physical Address.

D. **Contact Name:**
Place an "X" next to the appropriate conventional title (Mr./Mrs./Ms./Dr.). Enter the name of a contact person at the office or facility where the FOP and records are to be held *(optional)* (maximum 50 characters).

E. **Telephone:**
Enter the telephone number with area code of the contact person.

X. Application Area Information

This section pertains to the application area. If only one application is being submitted (or was submitted) for the entire site, then the following information relates to the site as a whole.

A. **Area Name:**
Enter the name of the application area (maximum 50 characters). If more than one permit is proposed for the site, the area name should be descriptive enough to provide a clear distinction of the portion of the site covered under this application. (*Examples: "Tank Battery #1," "North Loading Area".*) If there is only one permit proposed for the site, the area name must be the same as the site name in the "Site Information" section of this form. Note that the area may refer to a subset of units at the site to be covered by an application; it need not refer to a distinct physical area. This name will eventually be used as the name for the permit.

B. **Physical Address:**
Enter the physical address of the application area, including city, state, and ZIP Code (physical address maximum 50 characters; city - maximum 25 characters).

If there is a Physical Address, **skip** X.C-F below.

C. **Physical Location:**
If a physical address does not exist, provide a description of the physical location of the application area (maximum 250 characters). (*Example: Highway 100, 2 miles west of County Road 12.*)

D. **Nearest City:**
Enter the name of the city or municipality nearest to the application area, or in which the application area is located (maximum 25 characters).

E. **State:**
Enter the state in which the nearest city is located.

F. **ZIP Code:**
Enter the ZIP Code of the application area. *(This is used for location purposes and must be provided even if the facility does not receive mail delivery.)*

Page 4:

G. **Latitude:**
Enter the latitude coordinate for the application area (*DDD*:*MM*:*SS*). Latitude indicates the angular distance (in degrees) of a location north of the equator and will always be between 25 and 37 degrees in Texas. Coordinates of the area must be shown to the nearest second and can be obtained from most city engineers, U.S. Geological Survey (USGS) maps, or from county maps prepared by the Texas Department of Transportation (TxDOT).

H. **Longitude:**
Enter the longitude coordinate for the application area (*DDD*:*MM*:*SS*). Longitude indicates the angular distance (in degrees) of a location west of the prime meridian and will always be between 93 and 107 degrees in Texas. Coordinates of the area must be shown to the nearest second and can be obtained from most city engineers, USGS maps, or from county maps prepared by the TxDOT.

I. **Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal?**

Enter "YES" if there are one or more emission units in the application area that are out of compliance. "Out of compliance" means a situation in which an emission unit or an operating condition *may* not be in compliance with one or more applicable requirements. Information on these units will be forwarded to the appropriate regional office. Title 30 TAC Chapter 122 requires that a description of the compliance status for all emission units be provided in a full application. Additional compliance information for full applications is provided on Form OP-ACPS (Application Compliance Plan and Schedule). If all emission units in the application area are believed to be in compliance, enter "NO."

J. **Estimated number of emission units in application area:**
Enter an estimated number of emission units in the application area with potentially applicable requirements. Do not include emission units that will only be addressed on Form OP-REQ1 (Application Area-wide Applicability Determinations and General Information).

K. **Are there any emission units in the application area subject to the Acid Rain Program?**
Enter "YES" if any emission units in the application area are subject to the Acid Rain Program (ARP), including the Opt-in Program. Otherwise, enter "NO."

If the response to this question is "YES," submit the appropriate forms for an acid rain permit, if not already submitted. Applications for acid rain permits for opt-in sources to the ARP shall be submitted in accordance with 40 CFR Part 74.

The Opt-in Program allows stationary combustion sources not required to participate in the ARP the opportunity to enter the program on a voluntary basis, reduce their sulfur dioxide (SO_2) emissions, and receive their own acid rain allowances. Combustion sources are defined as fossil fuel-fired boilers, turbines, or internal combustion engines. An opt-in source must comply with the same or similar provisions as utility units affected under the mandatory ARP. These provisions relate to allowance trading, permitting, excess emissions, monitoring, end-of-year compliance and enforcement. Most basic to the program is the requirement that each year the opt-in source must hold enough allowances to cover its annual SO_2 emissions. For additional information, please refer to 40 CFR Part 74.

XI. Public Notice

Complete this section for SOP Applications (initial, renewal, and significant revision) and Acid Rain Permit Applications only.

A. **Name of public place to view application and draft permit:**
Enter the name of the public place where the application and draft permit will be available for review and copying by the public throughout the public notice period.

The public place must be publicly owned or operated, such as a library, courthouse, or city hall, and must be located in the same county as the site. The TCEQ Regional Office may be used as the public place if it is located in the same county as the site.

B. **Physical Address:**
Enter the public place physical address, including city and ZIP Code (physical address maximum 50 characters; city maximum 25 characters).

C. **Contact Person:**
Place an "X" next to the appropriate conventional title (Mr./Mrs./Ms./Dr.). Enter the name of the contact person who will answer questions from the public during the Public Notice Period (Last Name, First Name, MI; maximum 25 characters). This information will be published in the newspaper notice.

D. **Contact Mailing Address:**
Enter the mailing address of the contact person, including city, state, and ZIP Code (address - maximum 50 characters; city - maximum 25 characters). If the mailing address is not within the United States, enter the territory, country, and foreign postal code, rather than the state and ZIP Code.

E. **Internal Mail Code (Mailing Address):**
Enter the internal mail code that is part of the mailing address of the contact person, if applicable (maximum 10 characters).

F. **Telephone:**
Enter the telephone number with area code of the contact person (optional). This information will be published in the newspaper notice.

XII. Delinquent Fees and Penalties

Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are 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/fees/delin/index.html.

Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.

XIII. Designated Representative (DR) Identifying Information

A. **DR Name:**
Place an "X" next to the appropriate conventional title (Mr./Mrs./Ms./Dr.). Enter the name of the DR pursuant to 30 TAC § 122.165 (Last Name, First Name, MI; maximum 25 characters).

B. **DR Title:**
Enter the title of the DR (maximum 25 characters).

C. **Employer Name:**
Enter the name of the company, firm, etc. that employs the DR (maximum 50 characters). The company or firm name should be the name used to incorporate, for which a franchise tax identification number has been issued. If a franchise tax identification number has not been issued, then enter the most identifying name for the company or firm.

D. **Mailing Address:**
Enter the DR mailing address, including city, state, and ZIP Code (mailing address maximum 50 characters and city maximum 25 characters). If the mailing address is not within the United States, enter the territory, country, and foreign postal code, rather than the state and ZIP Code.

Page 5:

E. **Internal Mail Code:**
Enter the internal mail code that is part of the mailing address, if applicable (maximum 10 characters).

F. **Telephone:**
Enter the DR telephone number with area code.

G. **Fax:**
Enter the DR fax number with area code.

H. **Email:**
Enter the DR electronic mail address (maximum 30 characters).

XIV Alternate Designated Representative (ADR) Identifying Information

A. **ADR Name:**
Place an "X" next to the appropriate conventional title (Mr. /Mrs./Ms./Dr.). Enter the name of the ADR pursuant to 30 TAC § 122.165 (Last Name, First Name, MI; maximum 25 characters). If there is no ADR, leave this section blank.

B. **ADR Title:**
Enter the title of the ADR (maximum 25 characters).

C. **Employer Name:**
Enter the name of the company, firm, etc. that employs the ADR (maximum 50 characters). The company or firm name should be the name used to incorporate, for which a franchise tax identification number has been issued. If a franchise tax identification number has not been issued, then enter the most identifying name for the company or firm.

D. **Mailing Address:**
Enter the ADR mailing address, including city, state, and ZIP Code (mailing address maximum 50 characters and city maximum 25 characters). If the mailing address is not within the United States, enter the territory, country, and foreign postal code, rather than the state and ZIP Code.

E. **Internal Mail Code:**
Enter the internal mail code that is part of the mailing address, if applicable (maximum 10 characters).

F. **Telephone:**
Enter the ADR telephone number with area code.

G. **Fax:**
Enter the ADR fax number with area code.

H. **Email:**
Enter the ADR electronic mail address (maximum 30 characters).

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

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250. Address written inquiries to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

I.	**Company Identifying Information**							
A.	Company Name: Texas GulfLink, LLC							
B.	Customer Reference Number (CN): CN605724657							
C.	Submittal Date *(mm/dd/yyyy):* May 30, 2019; Rev April 2022							
II.	**Site Information**							
A.	Site Name: Deepwater Port							
B.	Regulated Entity Reference Number (RN):							
C.	Primary Account Number for Site:							
D.	Indicate affected state(s) required to review permit application: *(Check the appropriate box[es].)*							
AR ☐ CO ☐ KS ☐ LA ☐ NM ☐ OK ☐ N/A ☒								
E.	Indicate all pollutants for which the site is a major source based on the site's potential to emit:							
Pollutant	**VOC**	**NO_X**	**SO_2**	**PM_{10}**	**CO**	**Pb**	**HAPs**	**Other** ☐ GHG
Major at the Site *(YES/NO)***:**	YES	YES	NO	NO	NO	N/A	NO	
F.	Is the site a non-major source subject to the Federal Operating Permit Program?							☐ YES ☒ NO
G.	Is the site within a local program area jurisdiction?							☐ YES ☒ NO
H.	Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63?							☐ YES ☒ NO
I.	Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:							
III.	**Permit Type**							
A.	Type of Permit Requested: *(Select only one response)*							
Site Operating Permit (SOP) ☒ Temporary Operating Permit (TOP) ☐ General Operating Permit (GOP) ☐								
IV.	**Initial Application Information** *(Complete for Initial Issuance Applications only.)*							
A.	Is this submittal an abbreviated or a full application?							☐ Abbreviated ☒ Full
B.	If this is a full application, is the submittal a follow-up to an abbreviated application?							☐ YES ☒ NO
C.	If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit?							☐ YES ☐ NO
D.	Has a copy of this application been submitted (or is being submitted) to EPA? (Refer to the form instructions for additional information.)							☒ YES ☐ NO

Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 2)

V. Confidential Information		
A. Is confidential information submitted in conjunction with this application?		☐ YES ☒ NO
VI. Responsible Official (RO)		
A. RO Name: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.) Jeff Ballard		
B. RO Title: President and CEO		
C. Employer Name: Texas GulfLink, LLC		
D. Mailing Address: 8333 Douglas Ave., Ste, 400		
City: Dallas	State: TX	ZIP Code: 75225
Territory:	Country: USA	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.: 214-712-2140		
G. Fax No.:		
H. Email: jballard@sentinelmidstream.com		
VII. Technical Contact Identifying Information *(Complete if different from RO.)*		
A. Technical Contact Name: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.) Tyler Abadie, PE		
B. Technical Contact Title: CEO		
C. Employer Name: Abadie LLC		
D. Mailing Address: 2315 Florida St., Bldg. 300		
City: Mandeville	State: LA	ZIP Code: 70448
Territory:	Country: USA	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.: (504) 834-3040, x-8421		
G. Fax No.:		
H. Email: tyler@abadie.us		

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

VIII.	**Reference Only Requirements** *(For reference only.)*		
A.	State Senator: Senator Joan Huffman – District 17		
B.	State Representative: Representative Cody Vasut (D-25) and Representative Ed Thompson (D-29)		
C.	Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)?		☐ YES ☐ NO ☒ N/A
D.	Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?		☒ YES ☐ NO
E.	Indicate the alternate language(s) in which public notice is required:	Spanish	
IX.	**Off-Site Permit Request** *(Optional for applicants requesting to hold the FOP and records at an off-site location.)*		
A.	Office/Facility Name: Texas GulfLink, LLC		
B.	Physical Address: 8333 Douglas Ave., Ste. 400		
City: Dallas	State: TX	ZIP Code: 77525	
Territory:	Country: USA	Foreign Postal Code:	
C.	Physical Location:		
D.	Contact Name: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.) Tyler Abadie, PE		
E.	Telephone No.: (504) 834-3040, x-8421		
X.	**Application Area Information**		
A.	Area Name: Deepwater Port		
B.	Physical Address:		
City:	State:	ZIP Code:	
C.	Physical Location: Approximately 32.5 nautical miles off the coast of Brazoria County, southwest of Freeport, TX		
D.	Nearest City: Freeport		
E.	State: TX		
F.	ZIP Code: 77541		

Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 4)

X.	**Application Area Information *(continued)***		
G.	Latitude (nearest second):	28.552494	
H.	Longitude (nearest second):	-95.028431	
I.	Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal?		☐ YES ☒ NO
J.	Indicate the estimated number of emission units in the application area:	25	
K.	Are there any emission units in the application area subject to the Acid Rain Program?		☐ YES ☒ NO
XI.	**Public Notice** *(Complete this section for SOP Applications and Acid Rain Permit Applications only.)*		
A.	Name of public place to view application and draft permit: Freeport Branch Library		
B.	Physical Address: 410 Brazosport Blvd.		
City: Freeport		ZIP Code: 77541	
C.	Contact Person (Someone who will answer questions from the public, during the public notice period):		
(☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.): Tyler Abadie, PE			
D.	Contact Mailing Address: 2315 Florida St., Bldg. 300		
City: Mandeville	State: LA	ZIP Code: 70448	
Territory:	Country: USA	Foreign Postal Code:	
E.	Internal Mail Code:		
F.	Telephone No.: (504) 834-3040, x-8421		
XII.	**Delinquent Fees and Penalties**		
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of Attorney General on behalf of the TCEQ are paid in accordance with the "Delinquent Fee and Penalty Protocol."			
Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.			
XIII.	**Designated Representative (DR) Identifying Information**		
A.	DR Name: (☐ Mr. ☐ Mrs. ☐ Ms.☐ Dr.)		
B.	DR Title:		
C.	Employer Name:		
D.	Mailing Address:		
City:	State:	ZIP Code:	
Territory:	Country:	Foreign Postal Code:	

Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 5)

Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.		
XIII. Designated Representative (DR) Identifying Information *(continued)*		
E. Internal Mail Code:		
F. Telephone No.:		
G. Fax No.:		
H. Email:		
XIV. Alternate Designated Representative (ADR) Identifying Information		
A. ADR Name: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)		
B. ADR Title:		
C. Employer Name:		
D. Mailing Address:		
City:	State:	ZIP Code:
Territory:	Country:	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.:		
G. Fax No.:		
H. Email:		

Texas Commission on Environmental Quality
Form OP-CRO1 - Instructions
Certification by Responsible Official

General:

Title 30 Texas Administrative Code § 122.132(e) [30 TAC § 122.132(e)] (relating to "Application and Required Information for Initial Permit Issuance, Reopening, Renewal, or General Operating Permits") and 30 TAC § 122.165 (relating to "Certification by a Responsible Official") require that a Responsible Official (RO), or appropriate designee, shall certify all documents submitted to the Texas Commission on Environmental Quality (TCEQ) in support of a federal operating permit (FOP), or that are required by 30 TAC Chapter 122 or by an operating permit condition(s). This Form OP-CRO1 (Certification by Responsible Official) satisfies these certification requirements in a manner consistent with 30 TAC § 122.165.

(Certification by the authorized Designated Representative (DR), or Alternate Designated Representative (ADR), apply to the Acid Rain or CSAPR, Program sources only and is executed on OP-CRO1, page 2 [Certification by Designated Representative]. The DR or ADR shall certify application information for sites with one or more units subject to the Acid Rain or CSAPR Programs and shall certify application information and reports as an RO. This OP-CRO1, page 2 [Certification by Designated Representative] satisfies these certification requirements in a manner consistent with 30 TAC § 122.165.)

All initial, revision, and renewal FOP applications, as well as all post-issuance submittals requiring certification must be accompanied by Form OP-CRO1. However, while a site operating permit (SOP) or temporary operating permit (TOP) is undergoing technical review, application updates (e.g., administrative changes, responses to a TCEQ permit application deficiency notice, or request for information) do not require a Form OP-CRO1 to be included with each submittal. This certification will be requested at the time of the Working Draft Permit review, and any required certifications must be included with the applicant's response to the review of the Working Draft Permit. (Refer to the Working Draft Permit Review Fact Sheet at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf for additional details.)

Likewise, updates to general operating permit (GOP) applications undergoing technical review do not require a Form OP-CRO1 to be included with each submittal and need only be certified prior to being granted an authorization to operate under the GOP by the TCEQ. All SOP application updates submitted after public notice authorization or start of public announcement, or GOP application updates submitted after being granted authorization to operate, must be accompanied by a completed Form OP-CRO1.

All materials related to public notice certification must also be certified; including the original tearsheet (s), publisher's affidavit(s), and the "Public Notice Verification Form/Air Permits." Dates of these submittals should be included on the certification form submitted immediately following the close of the public comment period. (Specific details regarding these submittals and the certification procedure are included in the Public Notice Authorization Package sent to applicants with draft FOPs)

The dates of each application update submittal being certified may be entered on a Form OP-CRO1. (Up to eight submittal dates may be entered on each form.) Alternatively, a single Form OP-CRO1 may be used to certify a range of dates (time period). Note that the time period option may not be used if "Submittal Type" in Section III is "Other." If the RO authority is being delegated to a Duly Authorized Representative (DAR), a completed and signed Form OP-DEL entitled "Delegation of Responsible Official" must also be submitted in order for the DAR certification to be valid. Form OP-DEL need not be included in subsequent submittals unless there is a new appointment or an administrative information change regarding the DAR.

This form must bear the signature of the RO, DAR, DR, or ADR and a signature date in order for the certification to be valid. **The Signature Date, which will be used to validate signature authority of the RO, DAR, DR, or ADR, must be on or after the effective date of the RO, DAR, DR, or ADR certifying to the change.** Signature stamps can be accepted in place of an original signature. Faxes and photocopies can be accepted in place of an original certification

form; however, a follow-up submittal of the original signed certification form is requested. **This certification does not extend to information which is designated by the TCEQ as "information for reference only."** Please refer to the TCEQ guidance entitled "Applying for an Initial Title V permit" or "Responsible Official Certifications" for additional information.

Information on where to submit this form can be found on the TCEQ website at www.tceq.texas.gov/permitting/air/titlev/submittal.html.

Important: At any time after the initial permit application submittal when a new RO, DR, or ADR is appointed, or there is a change to the administrative information regarding the RO, DR, or ADR (e.g., address, phone number, title), the applicant must submit a completed Form OP-CRO2 "Change of Responsible Official Information," to the TCEQ Air Permits Division for notification purposes. At any time after the initial permit application submittal that a new DAR is appointed, or there is a change to the administrative information regarding the DAR, the applicant must submit a completed Form OP-DEL to the TCEQ Air Permits Division for notification purposes.

Specific:

I. Identifying Information

- **RN**: Enter the regulated entity reference number (RN*XXXXXXXXXX*) for the site. This number is assigned by the TCEQ as part of the central registry process. If a regulated entity reference number has not yet been assigned, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space.
- **CN**: Enter the Customer Reference Number (CN*XXXXXXXXXX*). This number is assigned by the TCEQ as part of the central registry process. If a customer reference number has not yet been assigned, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space.
- **Account No**: Enter the primary TCEQ account number (*XX-XXXX-X*) for the site if assigned. (Some newer facilities will not have this number, in which case the space should be left blank.)
- **Permit No.**: Enter the operating permit number, if assigned (O*XXXXX*). If this is the first submittal regarding an initial application for an SOP, a TOP, or a GOP, the permit number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The permit number will appear on all correspondence from the TCEQ regarding the application.
- **Project No.**: Enter the project number that identifies this specific permitting action, if assigned (*XXXX*). If this is the first submittal regarding an initial, revision, or renewal application submittal (SOP, TOP, or GOP), the project number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The project number will appear on all correspondence from the TCEQ regarding the application.
- **Area Name**: Enter the area name used in the "Application Area Information" section of the most recent Form OP-1 (Site Information Summary) submitted with the application (maximum 50 characters). If there is only one permit at the site, the area name is the same as the site name.
- **Company Name**: Enter the name of the company for which the application is being submitted (maximum 50 characters). The company name on this form should be the same as the Customer Name listed in Section II of the TCEQ Core Data Form.

II. Certification Type

Indicate the type of certification by marking the appropriate box or boxes.

- o **Responsible Official**: Select this option if certification is being made by the RO.
- o **Duly Authorized Representative**: Select this option if certification is being made by the DAR. The DAR must have been previously designated using Form OP-DEL (Delegation of Responsible Official), or a completed OP-DEL must accompany the Form OP-CRO1

III. Submittal Type

Indicate the type of attached submittal by entering an "X" in the box next to one of the following options:

- o **SOP/TOP Initial Permit Application:** Select the option if this certification accompanies the first submittal regarding an initial SOP or TOP application.
- o **GOP Initial Permit Application:** Select this option if this certification accompanies the first submittal regarding an initial GOP application.
- o **Permit Revision, Renewal, or Reopening:** Select this option if this certification accompanies the first submittal regarding a revision, reopening, or renewal application for an SOP, TOP, or GOP.
- o **Update to Permit Application:** Select this option if this certification addresses updates to any permit application (initial, revision, renewal) currently under review. Application updates include administrative changes, responses to deficiency notices or requests for information from the reviewer, working draft permit comments, public notice information, or other follow-up information submitted prior to issuance.
- o **Other:** Select this option if the submittal is not one of the types listed above. Identify the type of submittal in the space provided (maximum 25 characters). Examples include, but are not limited to:
  - Annual Compliance Certification
  - Progress Report
  - Deviation Report
  - Monitoring Report
  - Test Report

IV. Certification of Truth, Accuracy, and Completeness

Certifier Name: Print or type the name of the RO or DAR (maximum 25 characters).

Certifier Type: Enter the type of signature authority held by the certifier, "RO" or "DAR."

Documentation Dates: Enter either a Time Period <u>or</u> Specific Date(s) as defined below. These dates will be used to link the Form OP-CRO1 to the documentation being certified. Do not enter signature dates. ***This section must be completed. The certification is not valid without documentation date(s).*** Note that all submittals containing application-related information (including by fax or e-mail) must be certified.

Time Period: Enter the start and end dates of the time period that contains all submitted application documentation (*MM-DD-YYYY*) that was not previously certified. This option may only be used when:

- The "Submittal Type" is 'Update to Permit Application' and there are multiple uncertified submittals; or
- A submittal package has multiple dates recorded in the documentation.

Note: The Time Period option may only be used when the "Submittal Type" is "Update to Permit Application" and there are multiple uncertified submittals; or a submittal package has multiple dates recorded in the documentation. Do not use the Time Period option if the "Submittal Type" is "Other."

Specific Dates: Enter a date or date(s) (*MM-DD-YYYY*) for each application submittal that was not previously certified. If a submittal package has multiple dates recorded in the documentation, each date may be listed, or the overall submittal date (e.g., cover letter date) may be listed. Please do not repeat documentation dates on multiple certifications. If more than eight (8) date spaces are needed, use multiple forms.

Signature: A signature of the RO or DAR is required. Signature stamps can be accepted in place of an original signature.

Signature Date: Enter the date this form was signed by the RO or DAR (*MM-DD-YYYY*). The certifier must have signature authority on this date in order for certification to be valid.

Title: Enter the job title of the RO or DAR.

Certification by Designated Representative
For Affected Sources that are subject to the following Programs:
Acid Rain, Cross-State Air Pollution Rule (CSAPR)

Specific:

I. Identifying Information

Please use the same instructions for Section I Form OP-CRO1, Page 1.

II. Certification Type

Indicate the type of certification by marking the appropriate box or boxes.

- o **Designated Representative**: Select this option if this form is being used as certification by the DR.
- o **Alternate Designated Representative**: Select this option if this form is being used as certification by the ADR.

III. Requirement and Submittal Type

- o Indicate the requirement by marking the box next to the applicable option(s):
  - Acid Rain Permit
  - CSAPR
- o Indicate the Submittal type of attached by marking the box next to one of the following options:
  - Initial Permit Application
  - Update to Permit Application
  - Permit Revision or Renewal
  - Other

IV. Certification

Certifier Name: Print or type the name of the DR or ADR (maximum 25 characters).

Certifier Type: Enter the type or types of signature authority held by the certifier as "DR," or "ADR."

Note: Enter EITHER a Time Period OR Specific Date(s) as defined below; these dates will be used to link the Form OP-CRO1, page 2 to the documentation being certified. The certification is not valid without documentation date(s). Do not enter signature dates.

Documentation Dates: Enter either a Time Period or Specific Date(s) as defined below. These dates will be used to link the Form OP-CRO1 to the documentation being certified. Do not enter signature dates. ***This section must be completed. The certification is not valid without documentation date(s).*** Note that all submittals containing application-related information (including by fax or e-mail) must be certified.

Time Period: Enter the start and end dates of the time period that contains all previous and currently submitted, and as yet uncertified, documentation (*MM-DD-YYYY*). Start and end dates are allowed only when certifying updates to the permit application or when a submittal package has multiple dates recorded in the documentation. The DR or ADR must have signature authority for the entire time period indicated.

Note: The Time Period option may only be used when the "Submittal Type" is "Update to Permit Application" and there are multiple uncertified submittals; or a submittal package has multiple dates recorded in the documentation. Do not use the Time Period option if the "Submittal Type" is "Other."

Specific Dates: Enter the date(s) recorded on all previous and currently submitted, and as yet uncertified, documentation (*MM-DD-YYYY*). Multiple dates are allowed only when certifying updates to the permit application or when a submittal package has multiple dates recorded in the documentation. The DR or ADR must have signature authority for all documentation dates indicated.

Signature: A signature of the DR or ADR is required. Signature stamps can be accepted in place of an original signature.

Signature Date: Enter the date this form was signed by the DR or ADR (*MM-DD-YYYY*). This date will be used to ensure signature authority and is required in order for certification to be valid.

Title: Enter the job title of the DR or ADR.

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

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

I. Identifying Information		
RN:	CN: CN605724657	Account No.:
Permit No.: TBA	Project No.: TBA	
Area Name: Deepwater Port	Company Name: Texas GulfLink, LLC	

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

☒ Responsible Official ☐ Duly Authorized Representative

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

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

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

☒ Other: EPA SOP Initial Permit Application

IV. Certification of Truth

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

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

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

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

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

Specific Dates: April 1, 2022 _____ _____ _____ _____ _____
Date 1 *Date 2* *Date 3* *Date 4* *Date 5* *Date 6*

Signature: _____ Signature Date: _____

Title: President and CEO

Form OP-CRO1
Certification by Designated Representative
Acid Rain, Cross-State Air Pollution Rule (CSAPR)

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

I. Identifying Information		
RN:	CN:	Account No:
Permit No.:	Project No.:	
Area Name:	Company Name:	

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

☐ Designated Representative ☐ Alternated Designated Representative

III. Requirement and Submittal Type *(Please mark the appropriate box for each column)*

Requirement: ☐ Acid Rain Permit ☐ CSAPR

Submittal Type: ☐ Initial Permit Application ☐ Update to Permit Application
☐ Permit Revision or Renewal ☐ Other:_____

IV. Certification of Truth

I, _____ , the _____
(Name printed or typed) *(DR or ADR)*

am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment. The above certification is for the statements and information dated during the time period or on the specific date(s) below:

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

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

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

Signature:_____ Signature Date:_____

Title:_____

Texas Commission on Environmental Quality
Form OP-REQ1 - Instructions
Application Area-Wide Applicability Determinations and General Information

General:

Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122) requires the owners or operators of major source sites to submit a federal operating permit (FOP) application to the Texas Commission on Environmental Quality (TCEQ). However, owners or operators may request the use of multiple permit applications at the site and applications are then submitted for areas of the site (application areas). A site may, therefore, have a single permit application submitted for the entire site or multiple permit applications for areas that constitute the site. The entire site is also considered the application area when a single permit application is submitted for the site.

The TCEQ Air Permits Division (APD) has designated certain applicable requirements as site-wide requirements (please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf for a list of site-wide requirements). A site-wide requirement is a requirement that applies uniformly to emission units or activities at the site. As an example, the APD has designated specific requirements of 30 TAC Chapter 111 (Control of Air Pollution from Visible Emissions and Particulate Matter), such as the opacity limits for stationary vents, as site-wide requirements. These requirements were designated as site-wide since many sites have numerous stationary vents and each must comply with the appropriate opacity limit.

Since multiple permit applications may be submitted for a site, these site-wide requirements and their applicability then become specific to the application area. Applicability of these site-wide requirements is then done on an area-wide basis. When a single permit application is submitted for the entire site, these site-wide requirements and their applicability again become specific to the application area that is the entire site.

The primary purpose of this form is to determine applicability of site-wide requirements for emission units or activities in the application area through a series of questions. Applicability, both positive and negative, of the site-wide requirements is determined by reviewing the answers to the questions that describe the site, or application area. Please read the entire question before indicating “YES,” “NO,” or “N/A” (not applicable) with an “X” in the appropriate box next to each question (please refer to the instructions for each question to determine if “N/A” is an appropriate response. If “N/A” is not an available response, there is no corresponding box on the form. Once these questions have been answered, repeating the site-wide requirements on Form OP-REQ2 (Negative Applicable Requirements Determinations) or Form OP-REQ3 (Applicable Requirements Summary) in the permit application on a unit-by-unit basis is not necessary. Additionally, attribute information relating to these site-wide requirements on any unit attribute form need not appear in the permit application, unless specified in these instructions.

Where possible, directions are given on the form itself enabling the applicant to skip certain questions based on answers to previous questions. Applicants are advised to take advantage of this opportunity as appropriate, not all questions require answers.

High-level applicability determinations for potentially applicable requirements are also indicated on this form without having to demonstrate the applicability for individual units on other forms in the permit application. For example, “The application area includes units specified in 30 TAC § 117.1000, 117.1200, or 117.1300” is a question on the form. If the response to this question is “YES,” additional attribute information and applicability determinations are necessary for these units in the permit application. If the response to this question is “NO,” applicability determinations for 30 TAC Chapter 117, Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone Nonattainment Areas are not necessary in the permit application.

Since questions on this form serve several functions, the instructions provide information relating to the need for additional attribute information or applicability determinations in the permit application. Please note that questions on this form relate to the specific regulation of the section in which they are located. Attribute information and applicability determinations for other regulations may also be necessary. For example, questions pertaining to steam generators under 30 TAC Chapter 111 appear in Section I.C. of this form. The questions relates only to the applicability of 30 TAC § 111.153(a) and 111.153(c) and are designed to determine whether additional information is necessary on OP-UA forms for 30 TAC § 111.153(a) and 111.153(c) or if only site-wide requirements apply. Additional attribute questions relating to steam generation for potentially applicable requirements [i.e., Title 40 Code of Federal Regulations Part 60, Subparts D - Dc; 30 TAC Chapter 117, etc.] should be completed on the appropriate OP-UA forms in the permit application. Applicability determinations for the potentially applicable requirements should also be made in the permit application. Please refer to the "Unit Attribute Series Forms" and "Potentially Applicable Requirements Series Forms" if additional attribute information or applicability determinations are necessary.

The TCEQ regulated entity reference number (RNXXXXXXXXX), if assigned, and the application area name from Form OP-1 (Site Information Summary) must appear on the header of each page for purposes of identification for the initial submittal. The date of the initial submittal must also be included and should be consistent throughout the application (MM/DD/YYYY). Leave the permit number blank for the initial form submittal. If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name from Form OP-1, the date of the revision submittal, and the regulated entity reference number. When applying for a revision or renewal, all "YES/NO/N/A" questions must be answered as directed by the form instructions. For the New Source Review (NSR) authorization section, you only need to include information for the new or changed NSR authorization numbers.

The TCEQ requires that a Core Data Form be submitted on all incoming registrations unless a regulated entity reference number and customer reference number has been issued by the TCEQ and no core data information has changed. If a regulated entity reference number or customer reference number has been issued, then the number must be noted on the request or applicable form. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ website at: www.tceq.texas.gov/permitting/central_registry/guidance.html.

Specific:

For site operating permit (SOP) applications, answer ALL questions unless otherwise directed.

♦ For general operating permit (GOP) applications, answer ONLY these questions unless otherwise directed.

Form OP-REQ1 (Page 1)

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter

A. Visible Emissions

♦ **1. The application area includes stationary vents constructed on or before January 31, 1972.**

Indicate "YES" or "NO."

Question I.A.1 relates to stationary vents in the application area having a flow rate less than 100,000 actual cubic feet per minute (acfm) constructed on or before January 31, 1972. The following stationary vents should be addressed in the permit application on Form OP-UA15, Tables 1a and 1b:
(a) stationary vents having a flow rate greater than or equal to 100,000 acfm;
(b) stationary vents for steam generators fired by solid fossil fuel, oil, or a mixture of oil and gas; or
(c) stationary vents for catalyst regenerators for fluid bed catalytic cracking units.

♦ **2. The application area includes stationary vents constructed after January 31, 1972.**

Indicate "YES" or "NO."

Question I.A.2 relates to stationary vents in the application area having a flow rate less than 100,000 actual cubic feet per minute (acfm) constructed after January 31, 1972. The following stationary vents should be addressed in the permit application on Form OP-UA15, Tables 1a and 1b:
(a) stationary vents having a flow rate greater than or equal to 100,000 acfm;
(b) stationary vents for steam generators fired by solid fossil fuel, oil, or a mixture of oil and gas; or
(c) stationary vents for catalyst regenerators for fluid bed catalytic cracking units.

Note: If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6. If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.

♦ **3. The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.**

Indicate "YES" or "NO."

Question I.A.3 relates to stationary vents in the application having a flow rate less than 100,000 acfm constructed on or before January 31, 1972. Applicants have the option to comply with the requirements of 30 TAC § 111.111(a)(1)(B) as contained in the Special Terms and Conditions of the permit in lieu of providing information on those stationary vents on Form OP-UA15, Tables 1a and 1b. If the response to Question I.A.3 is "NO," please provide unit specific information on all stationary vents constructed on or before January 31, 1972 on Form OP-UA15, Tables 1a and 1b.

♦ **4. All stationary vents are addressed on a unit specific basis.**

Indicate "YES" if all stationary vents are listed individually on Form OP-SUM and addressed on Form OP-UA15, Tables 1a and 1b. Otherwise, indicate "NO."

Question I.A.4 relates to all stationary vents in the application area having a flow rate less than 100,000 acfm. Questions I.A.1 and I.A.2 are designed to determine if the application area has vents for which requirements may be addressed in a Special Term and Condition in the permit. The applicant may opt to address all such stationary vents in the application on Forms OP-SUM and OP-UA15, Tables 1a and 1b, in lieu of the Special Term and Condition. By answering Question I.A.4 "YES," the applicant indicates that all stationary vents with a flow rate less than 100,000 acfm are addressed on Form OP-UA15 and the Special Term and Condition should not be included in the permit.

♦ **5. Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.**

Indicate "YES" if 40 CFR Part 60, Appendix A, Method 9 (Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine the opacity of emissions in the application area. Otherwise, indicate "NO."

♦ **6. The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).**

Indicate "YES" if structures in the application area are subject to the opacity requirements of 30 TAC § 111.111(a)(7)(A). Otherwise, indicate "NO."

Additional questions relating the applicability of 30 TAC § 111.111(a)(7)(A) for structures in the application area do not appear on UA forms. Applicability determinations for this requirement need not be addressed on any other form in the permit application.

♦ **7. The application area includes sources other than those specified in 30 TAC § 111.111(a)(1), (4), or (7) subject to 30 TAC § 111.111(a)(8)(A).**

Indicate "YES" if sources other than stationary vents, flares, or structures in the application area are subject to the opacity requirements of 30 TAC § 111.111(a)(8)(A). Otherwise, indicate "NO."

Additional questions relating the applicability of 30 TAC § 111.111(a)(8)(A) for sources other than those specified in 30 TAC § 111.111(a)(1), (4), or (7) in the application area do not appear on a UA forms. Applicability determinations for this requirement need not be addressed on any other form in the permit application.

♦ **8. Emissions from units in the application area include contributions from uncombined water.**

Indicate "YES" or "NO."

♦ **9. The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).**

For SOP applications and Municipal Solid Waste Landfill GOP (GOP 517) applications, indicate "YES" or "NO." Otherwise, indicate "N/A."

Additional questions relating the applicability of 30 TAC § 111.111(c) for solid fuel heating devices in the city of El Paso, including the Fort Bliss Military Reservation, do not appear on UA forms. Applicability determinations for this requirement need not be addressed on any other form in the permit application.

Form OP-REQ1 (Page 2)

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)

B. Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots

All questions relating the applicability of 30 TAC Chapter 111 requirements for materials handling, construction, roads, streets, alleys, and parking lots are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

1. **Items a - d determine applicability of any of these requirements based on geographical location.**

♦ a. **The application area is located within the city of El Paso.**

Indicate "YES" or "NO."

♦ b. **The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.**

Indicate "YES" or "NO."

♦ c. **The application area is located in the portion of Harris County inside the loop formed by Beltway 8.**

Indicate "YES" or "NO."

♦ d. **The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988.**

Indicate "YES" or "NO."

Boundary description for the Nueces county Group II area: A portion of the city of Corpus Christi, delimited as follows: Nueces Bay on the north, Ocean Drive on the east, Highway 44 on the south, and due north from Highway-44 at the intersection of Highway 358 to Nueces Bay on the west.

Note: If there is any "YES" response to Questions I.B.1.a through d, answer Questions I.B.2.a - d. If all responses to Questions I.B.1.a - d are "NO," go to Section I.C.

2. **Items a - d determine the specific applicability of these requirements.**

♦ a. **The application area is subject to 30 TAC § 111.143.**

Indicate "YES" if the application area is subject to the material handling requirements of 30 TAC § 111.143. Otherwise, indicate "NO."

♦ b. **The application area is subject to 30 TAC § 111.145.**

Indicate "YES" if the application area is subject to the construction and demolition requirements of 30 TAC § 111.145. Otherwise, indicate "NO."

♦ c. **The application area is subject to 30 TAC § 111.147.**

Indicate "YES" if the application area is subject to the road, street, and alley requirements of 30 TAC § 111.147. Otherwise, indicate "NO."

♦ d. **The application area is subject to 30 TAC § 111.149.**

Indicate "YES" if the application area is subject to the parking lot requirements of 30 TAC § 111.149. Otherwise, indicate "NO."

C. Emissions Limits on Nonagricultural Processes

♦ 1. **The application area includes a nonagricultural process subject to 30 TAC § 111.151.**

Indicate "YES" or "NO."

2. **The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements.**

Indicate "YES" or "NO."

Question I.C.2 relates to stationary vents (stacks) from nonagricultural processes in the application area that are major sources of particulate matter and are, therefore, subject to compliance assurance monitoring (CAM) or have actual emissions of particulate matter that exceed 50 tons per year and are, therefore, subject to periodic monitoring requirements. These vents should be addressed in the application on Forms OP-SUM and OP-UA15, Table 15. By answering Question I.C.2 "YES," the applicant indicates that these stationary vents subject to CAM or periodic monitoring requirements are addressed on Form OP-UA15. These vents will have applicable requirements addressed in the Applicable Requirements Summary of the permit and will not be subject to the requirements of the Special Terms and Conditions.

If the response to Question I.C.2 is "NO," applicability determinations for this requirement need not be addressed on any other form in the permit application.

Note: If the response to Question I.C.2 is "NO," go to Question I.C.4.

3. All vents from nonagricultural process in the application area are subject to additional monitoring requirements.

Indicate "YES" or "NO."

Question I.C.3 relates to all stationary vents from nonagricultural processes in the application area. Question I.C.1 is designed to determine if the application area has vents for which requirements may be addressed in a Special Term and Condition in the permit. By answering Question I.C.3 "YES," the applicant indicates that all stationary vents from nonagricultural processes are addressed on Form OP-UA15 and the Special Term and Condition should not be included in the permit.

Form OP-REQ1 (Page 3)

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)

C. Emissions Limits on Nonagricultural Processes (continued)

4. The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).

Indicate "YES" if the application area includes oil or gas fuel-fired steam generators with a heat input greater than 2500 MMBtu, averaged over a two-hour period, and subject to 30 TAC §§ 111.153(a) and 111.153(c). Otherwise, indicate "NO."

5. The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements.

Indicate "YES" or "NO."

Question I.C.5 relates to oil or gas fuel-fired steam generators in the application area that are major sources of particulate matter and are, therefore, subject to compliance assurance monitoring (CAM) or have actual emissions of particulate matter that exceed 50 tons per year and are, therefore, subject to periodic monitoring requirements. These steam generators should be addressed in the application on Forms OP-SUM and OP-UA6, Table 12. By answering Question I.C.5 "YES," the applicant indicates that these steam generators subject to CAM or periodic monitoring are addressed on Form OP-UA6. These vents will have applicable requirements addressed in the Applicable Requirements Summary of the permit and will not be subject to the requirements of the Special Terms and Conditions.

If the response to Question I.C.5 is "NO," applicability determinations for this requirement need not be addressed on any other form in the permit application.

Note: If the response to Question I.C.5 is "NO," go to Question I.C.7.

6. All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.

Indicate "YES" or "NO."

Question I.C.6 relates to all oil or gas fuel-fired steam generators in the application area. Question I.C.4.is designed to determine if the application area has oil or gas fuel-fired steam generators for which requirements may be addressed in a Special Term and Condition in the permit. By answering Question I.C.6 "YES," the applicant indicates that all oil or gas fuel-fired steam generators are addressed on Form OP-UA6 and the Special Term and Condition should not be included in the permit.

7. The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).

Indicate "YES" if the application area includes solid fossil fuel-fired steam generators with a heat input greater than 2500 MMBtu, averaged over a two-hour period, and subject to 30 TAC §§ 111.153(a) and 111.153(b). Otherwise, indicate "NO."

8. The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements.

Indicate "YES" or "NO."

Question I.C.8 relates to solid fossil fuel-fired steam generators in the application area that are major sources of particulate matter and are, therefore, subject to compliance assurance monitoring (CAM) or have actual emissions of particulate matter that exceed 50 tons per year and are, therefore, subject to periodic monitoring requirements. These steam generators should be addressed in the application on Forms OP-SUM and OP-UA6, Table 12. By answering Question I.C.8 "YES," the applicant indicates that these steam generators subject to CAM or periodic monitoring requirements are addressed on Form OP-UA6. These vents will have applicable requirements addressed in the Applicable Requirements Summary of the permit and will not be subject to the requirements of the Special Terms and Conditions.

If the response to Question I.C.8 is "NO," applicability determinations for this requirement need not be addressed on any other form in the permit application.

Note: If the response to Question I.C.8 is "NO," go to Section I.D.

9. All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.

Indicate "YES" or "NO."

Question I.C.9 relates to all oil or gas fuel-fired steam generators in the application area. Question I.C.7 is designed to determine if the application area has solid fossil fuel-fired steam generators for which requirements may be addressed in a Special Term and Condition in the permit. By answering Question I.C.9 "YES," the applicant indicates that all solid fossil fuel-fired steam generators are addressed on Form OP-UA6 and the Special Term and Condition should not be included in the permit.

D. Emissions Limits on Agricultural Processes

1. The application area includes agricultural processes subject to 30 TAC § 111.171.

Indicate "YES" or "NO."

Additional questions relating to the applicability of 30 TAC § 111.171 for agricultural processes do not appear on UA forms. Applicability determinations for this requirement need not be addressed on any other form in the permit application.

E. Outdoor Burning

All questions relating to the applicability of 30 TAC Chapter 111 requirements for outdoor burning are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

♦ **1. Outdoor burning is conducted in the application area.**

Indicate "YES" or "NO."

Note: If the response to Question I.E.1 is "NO," go to Section II.

♦ **2. Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.**

Indicate "YES" or "NO."

♦ **3. Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.**

Indicate "YES" or "NO."

♦ **4. Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 4)

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)

E. Outdoor Burning (continued)

♦ **5. Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.**

Indicate "YES" or "NO."

♦ **6. Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.**

Indicate "YES" or "NO."

♦ **7. The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.**

Indicate "YES" or "NO."

II. Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds

A. Temporary Fuel Shortage Requirements

1. The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.

Indicate "YES" or "NO."

Additional questions relating the applicability of 30 TAC §§ 112.15 - 112.18 requirements for temporary fuel shortage plans do not appear on UA forms. Applicability determinations for this requirement need not be addressed on any other form in the permit application. However, additional questions for 30 TAC Chapter 112 requirements may appear in UA forms for other regulations. Applicability determinations may then be necessary for these regulations.

The geographic location of the application area will often determine the applicability of potentially applicable requirements based on the SIP. The applicant is cautioned that in some instances the counties cited in the TCEQ regulation may cover more than the designated "nonattainment" counties for the pollutant.

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds

A. Applicability

♦ **1. The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10.**

Indicate "YES" or "NO."

The counties affected by Chapter 115 include: Anderson, Angelina, Aransas, Atascosa, Austin, Bastrop, Bee, Bell, Bexar, Bosque, Bowie, Brazos, Brazoria, Burleson, Caldwell, Calhoun, Camp, Cass, Chambers, Cherokee, Collin, Colorado, Comal, Cooke, Coryell, Dallas, Denton, De Witt, Delta, Ellis, El Paso, Falls, Fannin, Fayette, Fort Bend, Franklin, Freestone, Galveston, Goliad, Gonzales, Grayson, Gregg, Grimes, Guadalupe, Hardin, Harris, Harrison, Hays, Henderson, Hill, Hood, Hopkins, Houston, Hunt, Jackson, Jasper, Jefferson, Johnson, Karnes, Kaufman, Lamar, Lavaca, Lee, Leon, Liberty, Limestone, Live Oak, Madison, Marion, Matagorda, McLennan, Milam, Montgomery, Morris, Nacogdoches, Navarro, Newton, Nueces, Orange, Panola, Parker, Polk, Rains, Red River, Refugio, Robertson, Rockwall, Rusk, Sabine, San Augustine, San Jacinto, San Patricio, Shelby, Smith, Somervell, Tarrant, Titus, Travis, Trinity, Tyler, Upshur, Van Zandt, Victoria, Walker, Waller, Washington, Wharton, Williamson, Wilson, Wise, or Wood County.

If the response to Question III.A.1 is "NO," negative applicability determinations for 30 TAC Chapter 115 are not necessary in the permit application.

Note: If the response to Question III.A.1 is "NO," go to Section IV.

B. Storage of Volatile Organic Compounds

♦ **1. The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 5)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

C. Industrial Wastewater

1. The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140.

For an application area located in the following counties, indicate "YES" or "NO": Brazoria, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, or Waller. Otherwise, indicate "N/A."

If the response to Question III.C.1 is "NO" or "N/A," additional attribute information and applicability determinations are not necessary in the permit application for 30 TAC Chapter 115, Industrial Wastewater. However, attribute information and applicability determinations may be necessary for other regulations.

Note: If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.

2. The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area.

Indicate "YES" or "NO."

If the response to Question III.C.2 is "YES," and the refinery is located in the Beaumont/Port Arthur area additional attribute information and applicability determinations are not necessary in the permit application for 30 TAC Chapter 115, Industrial Wastewater. However, attribute information and applicability determinations may be necessary for other regulations.

If the response to Question III.C.2 is "YES," and the refinery is located in the Houston/Galveston/Brazoria area additional attribute information and applicability determinations are not necessary in the permit application for 30 TAC Chapter 115, Industrial Wastewater. Attribute information and applicability determinations may also be necessary for other regulations.

Note: If the response to Question III.C.2 is "YES" and the refinery is located in the Beaumont/Port Arthur area, go to Section III.D.

3. The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater).

Indicate "YES" or "NO."

If the response to Question III.C.3 is "YES," additional attribute information and applicability determinations are not necessary in the permit application for 30 TAC Chapter 115, Industrial Wastewater. However, attribute information and applicability determinations may be necessary for 40 CFR Part 63, Subpart G and/or other regulations.

Note: If the response to Question III.C.3 is "YES," go to Section III.D.

4. **The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons).**

   Indicate "YES" or "NO."

   If the response to Question III.C.4 is "YES," additional unit attribute information and applicability determinations are not necessary in the permit application for 30 TAC Chapter 115, Industrial Wastewater. However, attribute information and applicability determinations will be necessary in the permit application if the response to this question is "NO." Additional attribute information and applicability determinations may also be necessary for other regulations.

   Note: If the response to Question III.C.4 is "YES," go to Section III.D.

5. **The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).**

   Indicate "YES" or "NO."

   If the application area includes any wastewater drains, junction boxes, lift stations, or weirs with vented covers equipped with a vapor control system in accordance with 30 TAC § 115.142(1)(D)(i) - (ii), complete Form OP-UA52 (Closed Vent System and Control Device Attributes).

6. **The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).**

   Indicate "YES" or "NO."

7. **The application area includes wastewater drains, junction boxes, lift stations, or weirs that have executive director approved exemption under 30 TAC § 115.147(4).**

   Indicate "YES" or "NO."

D. Loading and Unloading of VOCs

♦ 1. **The application area includes VOC loading operations.**

   Indicate "YES" if land-based loading of VOC into transport vessels or tank-truck tanks occurs in the application area or if loading of VOC into marine vessels occurs in the application area. Otherwise, indicate "NO."

♦ 2. **The application area includes VOC transport vessel unloading operations.**

   Indicate "YES" or "NO."

   Under 30 TAC Chapter 115, a transport vessel is defined as "any land-based mode of transportation (truck or rail) that is equipped with a storage tank having a capacity greater than 1,000 gallons which is used primarily to transport oil, gasoline, or other volatile organic liquid bulk cargo. Vacuum trucks used exclusively for maintenance and spill response are not considered to be transport vessels."

   Note: If the responses to Questions III.D.1 - D.2, are "NO," go to Section III.E.

   If the responses to Questions III.D.1 - D.2 are "NO," additional attribute information and applicability determinations are not necessary in the permit application. If the response to either of these questions is "YES," complete Question III.D.3. If the response to Question III.D.1 is "YES," provide either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA4, Tables 1a and 1b and applicability determinations on Form OP-REQ3.

Form OP-REQ1 (Page 6)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

D. Loading and Unloading of VOCs (continued)

♦ **3. Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.**

Indicate "YES" or "NO."

If the response to Question III.D.3 is "NO" and the response to Question III.D.2 is "YES," provide either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA4, Tables 1a and 1b and applicability determinations on Form OP-REQ3.

E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities

All questions relating to the applicability of 30 TAC Chapter 115 requirements for the filling of gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

♦ **1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container.**

Indicate "YES" or "NO."

Note: If the response to Question III.E.1 is "NO," go to Section III.F.

♦ **2. Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.**

Indicate "YES" or "NO."

♦ **3. All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent.**

Indicate "YES" or "NO."

Note: If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.

♦ **4. The application area is located in a covered attainment county as defined in 30 TAC § 115.10.**

Indicate "YES" or "NO."

Note: If the response to Question III.E.4 is "NO," go to Question III.E.9.

Covered attainment counties for Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities: Anderson, Angelina, Aransas, Atascosa, Austin, Bastrop, Bee, Bell, Bexar, Bosque, Bowie, Brazos, Burleson, Caldwell, Calhoun, Camp, Cass, Cherokee, Colorado, Comal, Cooke, Coryell, De Witt, Delta, Falls, Fannin, Fayette, Franklin, Freestone, Goliad, Gonzales, Grayson, Gregg, Grimes, Guadalupe, Harrison, Hays, Henderson, Hill, Hood, Hopkins, Houston, Hunt, Jackson, Jasper, Karnes, Lamar, Lavaca, Lee, Leon, Limestone, Live Oak, Madison, Marion, Matagorda, McLennan, Milam, Morris, Nacogdoches, Navarro, Newton, Nueces, Panola, Polk, Rains, Red River, Refugio, Robertson, Rusk, Sabine, San Augustine, San Jacinto, San Patricio, Shelby, Smith, Somervell, Titus, Travis, Trinity, Tyler, Upshur, Van Zandt, Victoria, Walker, Washington, Wharton, Williamson, Wilson, or Wood County.

♦ **5. Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.**

Indicate "YES" or "NO."

♦ **6. Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.**

Indicate "YES" or "NO."

♦ **7. At facilities located in a covered attainment county other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014.**

Indicate "YES" or "NO."

Note: If the response to Question III.E.7 is "YES," go to Section III.F.

Form OP-REQ1 (Page 7)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)

♦ **8. At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004.**

Indicate "YES" or "NO."

Note: If the response to Question III.E.8 is "YES," go to Section III.F.

♦ **9. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.**

Indicate "YES" or "NO."

♦ **10. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.**

Indicate "YES" or "NO."

♦ **11. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.**

Indicate "YES" or "NO."

♦ **12. At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.**

Indicate "YES" or "NO."

F. Control of Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 or 514 only.)

All questions relating the applicability of 30 TAC Chapter 115 requirements for the control of VOC leaks from transport vessels are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

♦ **1. Tank-truck tanks are filled with or emptied of gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.**

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, or Wise. Otherwise, indicate "N/A."

Form OP-REQ1 (Page 8)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

F. Control of Leaks from Transport Vessels (continued) (Complete this section for GOP applications for GOPs 511, 512, 513 or 514 only.)

♦ **2. Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.**

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, or Wise. Otherwise, indicate "N/A."

♦ **3. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.**

For an application area located in one of the covered attainment counties, as defined in 30 TAC § 115.10, indicate "YES" or "NO." For counties other than the covered attainment counties, indicate "N/A."

G. Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities

All questions relating to the applicability of 30 TAC Chapter 115 requirements for the control of vehicle refueling emissions (Stage II) at motor vehicle fuel dispensing facilities are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

♦ **1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks.**

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, or Wise. Otherwise, indicate "N/A."

Note: If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.

♦ **2. The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.**

Indicate "YES" or "NO."

♦ **3. The application area includes facilities that began construction prior to November 15, 1992.**

Indicate "YES" or "NO."

Note: If the response to Questions III.G.2 and III.G.3 are both "NO," go to Section III.H.

♦ **4. The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.**

Indicate "YES" or "NO."

5. The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice has been submitted.

Indicate "YES" or "NO." If the application area does not have any Stage II vapor recovery control equipment due to a confirmed exemption because of low monthly throughput or low average monthly throughput, then indicate "N/A."

Decommissioning activities may not commence prior to 30 days after the effective date of the United States Environmental Protection Agency's approval of the repeal of the Stage II vapor recovery requirements and adoption of decommissioning requirements and must be completed no later than August 31, 2018. The decommissioning completion notice is required under 30 TAC § 115.241(b)(4).

Form OP-REQ1 (Page 9)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

H. Control of Reid Vapor Pressure (RVP) of Gasoline

All questions relating the applicability of 30 TAC Chapter 115 requirements for the control of RVP of gasoline in El Paso County are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

♦ **1. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County.**

For an application area located in El Paso County, indicate "YES" or "NO."

For an application area located in a county other than El Paso County, indicate "N/A."

Note: For SOP applications, if the response to Question III.H.1 is "NO" or "N/A," go to Section III.I. For GOP applications, if the response to Question III.H.1 is "NO" or "N/A," go to Section III.J.

♦ **2. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.**

Indicate "YES" or "NO."

♦ **3. The application area includes a motor vehicle fuel dispensing facility.**

Indicate "YES" or "NO."

♦ **4. The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.**

Indicate "YES" or "NO."

I. Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries

1. The application area is located at a petroleum refinery.

Indicate "YES" or "NO."

J. Surface Coating Processes (Complete this section for GOP applications only.)

♦ **1. Surface coating operations (other than those performed on equipment located on-site and in place) that meet the exemption specified in 30 TAC § 115.427(3)(A) or 115.427(7) are performed in the application area.**

For GOP applications with an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Nueces, Orange, Parker, Rockwall, Tarrant, Victoria, Waller, or Wise. Otherwise, indicate "N/A."

Note: GOP applicants go to Section III.L.

Form OP-REQ1 (Page 10)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

K. Cutback Asphalt

All questions relating to the applicability of 30 TAC Chapter 115, Subchapter F, Division 1: Cutback Asphalt are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

1. Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency.

For an application area located in one of the following counties, indicate "YES" or "NO": Bastrop, Brazoria, Caldwell, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Hardin, Harris, Hays, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Nueces, Orange, Parker, Rockwall, Tarrant, Travis, Waller, Williamson, or Wise County. Otherwise, indicate "N/A."

Note: If the response to Question III.K.1 is "N/A," go to Section III.L.

2. The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.

For an application area located in one of the following counties, indicate "YES" or "NO": Bastrop, Brazoria, Caldwell, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Hardin, Harris, Hays, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Travis, Waller, Williamson, or Wise County. For an application area located in Nueces County, indicate "N/A."

3. **Asphalt emulsion is used or produced within the application area.**

   Indicate "YES" or "NO."

4. **The application area is using an alternate control requirement as specified in 30 TAC § 115.513.**

   Indicate "YES" if alternative methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in 30 TAC §§ 115.512 - 115.519 have been approved by the TCEQ executive director in accordance with 30 TAC § 115.910. Otherwise, enter "NO."

   Note: If the response to Question III.K.4 is "NO," go to Section III.L.

5. **The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).**

   Indicate "YES" or "NO."

6. **The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.**

   Indicate "YES" or "NO."

7. **The applicant using cutback asphalt is a state, municipal, or county agency.**

   Indicate "YES" or "NO."

L. Degassing of Storage Tanks, Transport Vessels, and Marine Vessels

All questions relating to the applicability of 30 TAC Chapter 115 requirements for the degassing during, or in preparation of, cleaning any stationary, marine, and transport vessels are contained in this section. Applicability determinations for these requirements need not be addressed on any other form in the permit application.

♦ 1. **The application area includes degassing during, or in preparation of, cleaning operations for stationary, marine, and/or transport vessels.**

   For an application area located in one of the following counties, indicate "YES" or "NO:" Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, Tarrant, or Waller. Otherwise, indicate "N/A."

   Note: If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.

♦ 2. **Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area.**

   For SOP applications and GOP applications for GOPs 511, 512, 513, and 514, indicate "YES" or "NO." For GOP 517 applications, indicate "N/A."

   Note: If the response to Question III.L.2 is "YES," go to Section III.M.

Form OP-REQ1 (Page 11)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

L. Degassing of Storage Tanks, Transport Vessels, and Marine Vessels (continued)

♦ **3. Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.**

For SOP applications and GOP applications for GOPs 511, 512, 513, and 514, indicate "YES" or "NO." For GOP 517 applications, indicate "N/A."

♦ **4. Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.**

Indicate "YES" or "NO."

For SOP applications and GOP applications for GOP 511, indicate "YES" or "NO." For GOP 512, 513, 514, and 517 applications, indicate "N/A."

♦ **5. Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.**

Indicate "YES" or "NO."

♦ **6. Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.**

For SOP applications and GOP applications for GOPs 511, 512, 513, and 514, indicate "YES" or "NO." For GOP 517 applications, indicate "N/A."

♦ **7. Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure greater than or equal to 0.5 psia VOC that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.**

For SOP applications and GOP applications for GOPs 511, 512, 513, and 514, indicate "YES" or "NO." For GOP 517 applications, indicate "N/A."

M. Petroleum Dry Cleaning Systems

1. The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Collin, Dallas, Denton, Ellis, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufmann, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, or Waller. Otherwise, indicate "N/A."

If the response to Question III.M.1 is "YES," provide either unit attribute information on Form OP-UA41 and provide applicability determinations on OP-REQ3 or negative applicability

determinations on Form OP-REQ2. If the response to Question III.M.1 is "NO," applicability determinations are not necessary in the permit application.

Form OP-REQ1 (Page 12)

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

N. Vent Gas Control (Highly Reactive Volatile Organic Compounds (HRVOC))

1. The application area includes one or more vent gas streams containing HRVOC.

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, or Waller. Otherwise, indicate "N/A."

2. The application area includes one or more flares that emit or have the potential to emit HRVOC.

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, or Waller. Otherwise, indicate "N/A."

If the responses to Questions III.N.1 and III.N.2 are both "NO" or "N/A," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.

3. All vent streams in the application area that are routed to a flare contain less than 5.0% by weight of HRVOC at all times.

Indicate "YES" or "NO."

4. All vent streams in the application area that are not routed to a flare contain less than 100 ppmv of HRVOC at all times.

Indicate "YES" or "NO."

If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Sections III.O.

5. The application area contains pressure relief valves that are not controlled by a flare.

Indicate "YES" or "NO."

6. The application area has at least one vent stream which has no potential to emit HRVOC.

Indicate "YES" or "NO."

7. The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).

Indicate "YES" if the application area has vent streams which originate from one of the following sources:

(a) Vent gas streams resulting from the combustion of less than 5.0% HRVOC in boilers, furnaces, engines, turbines, incinerators, and heaters;
(b) Pressure tanks that maintain working pressure sufficient at all time to prevent any vapor or gas loss to the atmosphere;
(c) Laboratory vent hoods;
(d) Instrumentation air system;
(e) Atmospheric storage tanks;
(f) Wastewater system vents;
(g) Cooling towers;

(h) Equipment leak fugitive components, except for vents from pressure relief valves occurring when the process pressure is sufficient to overcome the preset pressure relief point and emission are either released directly to the atmosphere or routed to a control device.

Otherwise, indicate "NO."

O. Cooling Tower Heat Exchange Systems (HRVOC)

1. The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.

For an application area located in one of the following counties, indicate "YES" or "NO": Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, or Waller. Otherwise, indicate "N/A."

The geographic location of the application area will often determine the applicability of potentially applicable requirements based on the SIP. The applicant is cautioned that in some instances the counties cited in the TCEQ regulation may cover more than the designated "nonattainment" counties for that pollutant.

Form OP-REQ1 (Page 13)

IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds

A. Applicability

♦ **1. The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, Dallas/Fort Worth, or Dallas/Fort Worth Eight-Hour area.**

Indicate "YES" or "NO."

The Houston/Galveston/Brazoria area consists of Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties. The Beaumont/Port Arthur area consists of Hardin, Jefferson, and Orange counties. The Dallas/Fort Worth Eight-Hour area consists of Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties. (Note that Wise County is not subject to 30 TAC Chapter 117, Subchapter D.)

Note: For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H. For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "YES," go to Section IV.F. For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F. For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.

2. The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln.

Indicate "YES" or "NO."

3. The application area includes a utility electric generator in an east or central Texas county.

Indicate "YES" or "NO."

For SOP applications only, indicate "YES" if the application area is an electric utility generator in Atascosa, Bastrop, Bexar, Brazos, Calhoun, Cherokee, Fannin, Fayette, Freestone, Goliad, Gregg, Grimes, Harrison, Henderson, Hood, Hunt, Lamar, Limestone, Marion, McLennan, Milam, Morris, Nueces, Red River, Robertson, Rusk, Titus, Travis, Victoria, or Wharton County.

Note: If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.

B. Utility Electric Generation in Ozone Nonattainment Areas

1. The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300.

Indicate "YES" or "NO."

The provisions of 30 TAC Chapter 117, Subchapter C: Combustion at Major Utility Electric Generation Sources in Ozone Nonattainment Areas apply to utility boilers, auxiliary steam boilers, stationary gas turbines, and duct burners in turbine exhausts used in an electric power generating system owned or operated by a municipality or a Public Utility Commission of Texas regulated utility, or any of their successors; or an electric cooperative, municipality, river authority or public utility located within the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour ozone nonattainment areas.

If the response to Question IV.B.1 is "YES," provide either negative applicability determinations on the Form OP-REQ2 or unit attribute information on the Form OP-UA6, Tables 6a-6b, for boilers and/or Form OP-UA11, Tables 2a-2b, for turbines and applicability determinations on OP-REQ3. If the response to Question IV.B.1 is "NO," applicability determinations for 30 TAC Chapter 117, Subchapter B (relating to Utility Electric Generation in Ozone Nonattainment Areas) are not necessary in the permit application.

Note: If the response to Question IV.B.1 is "NO," go to Question IV.C.1.

2. The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 14)

IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)

C. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas

♦ **1. The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400.**

Indicate "YES," if the site is a major source of NO_X as defined in 30 TAC § 117.10 in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour ozone nonattainment areas and the application area includes one or more of the units specified in 30 TAC §§ 117.100, 117.300, 117.400. Otherwise, indicate "NO."

Major source for the Houston/Galveston/Brazoria, Beaumont/Port Arthur, and Dallas/Fort Worth Eight-Hour ozone nonattainment areas is defined in 30 TAC § 117.10 as follows:

Any stationary source or group of sources located within a contiguous area and under common control that emits or has the potential to emit:

(a) at least 50 tons per year (tpy) of nitrogen oxides (NO_X) and is located in the Beaumont/Port Arthur ozone nonattainment area;
(b) at least 25 tpy of NO_X and is located in the Houston/Galveston/Brazoria ozone nonattainment area;
(c) at least 50 tpy or NO_X and is located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area.

If the response to Question IV.C.1 is "YES," additional attribute information and applicability determinations are necessary for these units in the permit application. Provide either negative applicability determinations on Form OP-REQ2 or unit attribute information for the following units, as applicable, on the forms indicated. For SRIC Engines, Form OP-UA2. Tables 1a-1d; for Process Heaters and Furnaces, Form OP-UA5, Tables 1a-1d; for Boilers, Form OP-UA6, Tables 5a-5d; for Turbines and Duct Burners, Form OP-UA11, Tables 3a-3d; for Incinerators, Form OP-UA35; Tables 2a-2b; for Ovens, Kilns, and Dryers, Form OP-UA51, Tables 4a-4b. Provide applicability determinations on Form OP-REQ3.

Note: For SOP applications, if the response to Question IV.C.1 is "NO," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "NO," go to Section IV.F.

♦ **2. The application area is located at a site that was a major source of NO_X before November 15, 1992.**

Indicate "YES" if the application area is located in the Houston/Galveston/Brazoria or Beaumont/Port Arthur area and the site was a major source of NO_X before November 15, 1992. Indicate "NO" if the application area is located in the Houston/Galveston/Brazoria or Beaumont/Port Arthur area and the site was not a major source of NO_X before November 15, 1992. If the application area is not located in the Houston/Galveston/Brazoria or Beaumont/Port Arthur area, indicate "N/A."

The major source threshold for the Beaumont/Port Arthur area was at least 100 tpy of NO_X before April 29, 2004. Use the 100 tpy threshold as the basis for the answer to Question IV.C.2 for application areas in the Beaumont/Port Arthur area.

♦ **3. The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.**

Indicate "YES," if the application area includes an electric generating facility (EGF) from which electric output is not entirely dedicated to industrial customers (facility provides more than 2 weeks of service to the electric grid per year); or if the application area includes an EGF which generates electricity primarily for internal use, but during 1997 and all subsequent calendar years transferred (or will transfer) generated electricity to a utility power distribution system at a rate greater than or equal to 3.85% of its actual electrical generation. Otherwise, indicate "NO."

D. Adipic Acid Manufacturing

1. The application area is located at, or part of, an adipic acid production unit.

For an application area located in one of the following counties, indicate "YES" or "NO:" Brazoria, Chambers, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, or Waller County. For an application area located in one of the following counties, indicate "N/A:" Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, or Wise.

If the response to Question IV.D.1 is "YES," additional attribute information and applicability determinations are necessary for these units in the permit application. If the response to Question IV.D.1 is "NO" or "N/A," applicability determinations for 30 TAC Chapter 117, Subchapter C (relating to Adipic Acid Manufacturing) are not necessary in the permit application.

E. Nitric Acid Manufacturing - Ozone Nonattainment Areas

1. The application area is located at, or part of, a nitric acid production unit.

For an application area located in one of the following counties, indicate "YES" or "NO:" Brazoria, Chambers, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, or Waller

County. For an application area located in one of the following counties, indicate "N/A:" Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, or Wise.

If the response to Question IV.E.1 is "YES," provide either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA27 and applicability determinations on Form OP-REQ3. If the response to Question IV.E.1 is "NO" or "N/A," applicability determinations for 30 TAC Chapter 117, Subchapter C (relating to Nitric Acid Manufacturing-Ozone Nonattainment Areas) are not necessary in the permit application.

F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines, and Gas Turbines

♦ **1. The application area is located at a site that is a minor source of NO_X in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County).**

Indicate "YES" or "NO."

Note: For SOP applications, if the site is located in Wise County or the response to Question IV.F.1 is "NO," go to Question IV.G.1. For GOP applications, if the site is located in Wise County or the response to Question IV.F.1 is "NO," go to Section VI.

♦ **2. The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).**

Indicate "YES" or "NO."

♦ **3. The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 15)

IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)

F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines, and Gas Turbines (continued)

♦ **4. The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.**

Indicate "YES" or "NO."

♦ **5. The application area has units subject to emission specifications in 30 TAC § 117.2010 or 30 TAC § 117.2110.**

Indicate "YES" or "NO."

6. The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125.

Indicate "YES" or "NO."

If the response to Question IV.F.6 is "NO," go to Section IV.G.

Units with ACSS do not qualify for a general operating permit and must apply for a site operating permit.

7. **An ACSS for carbon monoxide (CO) has been approved?**

   Indicate "YES" or "NO."

8. **An ACSS for ammonia (NH_3) has been approved?**

   Indicate "YES" or "NO."

9. **Provide the Permit Number(s) and authorization/issuance date(s) of the NSR project(s) that incorporates an ACSS.**

   Include a copy of the approval document with the application, if applicable. These approval documents are required for inclusion in the Title V permit as attachments.

G. Utility Electric Generation in East and Central Texas

1. **The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995.**

   Indicate "YES" or "NO."

   If the response to Question IV.G.1 is "YES," provide either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA6, Tables 9a-9b, for boilers and/or Form OP-UA11, Tables 4a-4b, for turbines and applicability determinations on Form OP-REQ3. If the response to Question IV.G.1 is "NO," applicability determinations for 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas are not necessary in the permit application.

   Note: If the response to Question IV.G.1 is "NO," go to Question IV.H.1.

2. **The application area is complying with the System Cap in 30 TAC § 117.3020.**

   Indicate "YES" or "NO."

H. Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters

1. **The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less.**

   Indicate "YES" or "NO."

   Note: If the response to question IV.H.1 is "NO," go to Section V.

2. **All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.**

   Indicate "YES" or "NO."

Form OP-REQ1 (Page 16)

V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products

A. Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinishing Coatings

1. The application area manufactures automobile refinish coatings or coating components and sells or distributes these coatings or coating components in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.101 for the definitions of automobile refinish coating component and automobile refinish coating or coating component manufacturer.

2. The application area imports automobile refinish coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.101 for the definition of automobile refinish coating or coating component importer.

Note: If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.

3. All automobile refinish coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).

Indicate "YES" or "NO."

Please refer to 40 CFR Part 59, Subpart B for additional information. Applicability determinations for 40 CFR Part 59, Subpart B are not necessary in any other portion of the permit application.

B. Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products

1. The application area manufactures consumer products for sale or distribution in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.202 for the definition of consumer product.

2. The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.202 for the definition of importer.

3. The application area is a distributor of consumer products whose name appears on the label of one or more of the products.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.202 for the definition of distributor.

Note: If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.

4. All consumer products manufactured, imported or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).

Indicate "YES" or "NO."

Please refer to 40 CFR Part 59, Subpart C for additional information. Applicability determinations for 40 CFR Part 59, Subpart C are not necessary in any other portion of the permit application.

Form OP-REQ1 (Page 17)

V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)

C. Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings

1. The application area manufactures or imports architectural coatings for sale or distribution in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.401 for the definition of architectural coating.

2. The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

Indicate "YES" or "NO."

Note: If the responses to Questions V.C.1 and V.C.2 are both "NO," go to Section V.D.

3. All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.400(c)(1) - (5).

Indicate "YES" or "NO."

Please refer to 40 CFR Part 59, Subpart D for additional information. Applicability determinations for 40 CFR Part 59, Subpart D are not necessary in any other portion of the permit application.

D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings

1. The application area manufactures or imports aerosol coating products for sale or distribution in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.503 for the definition of aerosol coating product.

2. The application area is a distributor of aerosol coatings for resale or distribution in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.503 for the definition of aerosol coating product.

Please refer to 40 CFR Part 59, Subpart E for additional information. Applicability determinations for 40 CFR Part 59, Subpart E are not necessary in any other portion of the permit application.

E. Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers

1. The application area manufactures or imports portable fuel containers for sale or distribution in the United States.

Indicate "YES" or "NO." Please refer to 40 CFR § 59.680 for the definition of portable fuel container.

Note: If the response to Question V.E.1 is "NO," go to Section VI.

2. All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).

Indicate "YES" or "NO."

Please refer to 40 CFR Part 59, Subpart F for additional information. Applicability determinations for 40 CFR Part 59, Subpart F are not necessary in any other portion of the permit application.

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards

A. Applicability

♦ **1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts.**

Indicate "YES" or "NO."

Note: If the response to Question VI.A.1 is "NO," go to Section VII.

Form OP-REQ1 (Page 18)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

B. Subpart Y - Standards of Performance for Coal Preparation Plants (continued)

1. The application area is located at a coal preparation plant.

Indicate "YES" or "NO."

Note: If the response to Question VI.B.1 is "NO," go to Section VI.C.

2. The coal preparation plant has a design capacity greater than 200 tons per day (tpd).

Indicate "YES" or "NO."

If the response to Question VI.B.2 is "NO," attribute information and applicability determinations for 40 CFR Part 60, Subpart Y are not necessary in the permit application.

Note: If the response to Question VI.B.2 is "NO," go to Section VI.C.

3. The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option.

Indicate "YES" or "NO."

Note: If the response to Question VI.B.3 is "NO," go to Section VI.C.

If the responses to Questions VI.B.2 - B.3 are "YES," attribute information and applicability determinations for 40 CFR Part 60, Subpart Y are not necessary in the permit application. If the response to Question VI.B.2 is "YES" and VI.B.3 is "NO," provide either negative applicability determinations on OP-REQ2 or unit attribute information on Form OP-UA8 and applicability determinations on Form OP-REQ3.

4. The plant contains an open storage pile, as defined in § 60.251, as an affected facility.

Indicate "YES" or "NO."

Note: If the response to Question VI.B.4 is "NO," go to Section VI.C.

5. The open storage pile was constructed, reconstructed or modified after May 27, 2009.

Indicate "YES" or "NO."

C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)

♦ **1. The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired.**

For GOP applications only with at least one stationary gas turbine, indicate "YES" or "NO." Otherwise, indicate "N/A."

Note: If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.E.

♦ **2. One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005.**

Indicate "YES" or "NO."

Note: If the response to Question VI.C.2 is "NO," go to Section VI.E.

♦ **3. One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).**

Indicate "YES" or "NO."

♦ **4. The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 19)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)

♦ **5. One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area are injected with water or steam for the control of nitrogen oxides.**

Indicate "YES" or "NO."

Note: GOP applicants, go to Section VI.E.

D. Subpart XX - Standards of Performance for Bulk Gasoline Terminals

1. The application area includes bulk gasoline terminal loading racks.

Indicate "YES" or "NO." Please refer to 40 CFR § 60.501 for the definitions of bulk gasoline terminal and loading rack.

If the response to Question VI.D.1 is "NO," applicability determinations for 40 CFR Part 60, Subpart X are not necessary in the permit application. If the response to Question VI.D.1 is "YES," applicants should provide either negative applicability determinations on Form OP-REQ2 or unit attribute data on Form OP-UA4 and applicability determinations on Form OP-REQ3.

Note: If the response to Question VI.D.1 is "NO," go to Section VI.E.

2. One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.

Indicate "YES" or "NO."

E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO_2) Emissions

♦ **1. The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore).**

For SOP applications and for GOP applications for GOPs 511, 512, 513, or 514, indicate "YES" or "NO." Otherwise, indicate "N/A." Natural gas and onshore are defined in 40 CFR § 60.641. Please refer to affected facilities described in 40 CFR § 60.640(a).

If the response to Question VI.E.1 is "NO" or "N/A," applicability determinations for 40 CFR Part 60, Subpart LLL are not necessary in the permit application.

Note: For SOP applications, if the response to Question VI.E.1 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is "NO" or "N/A," go to Section VI.H.

♦ **2. The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011.**

Indicate "YES" or "NO."

If the response to Question VI.E.2 is "NO," GOP applicants should provide attribute data on Form OP-UA10, Tables 2a and 2b. SOP applicants should provide negative applicability determinations on Form OP-REQ2.

Note: For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H.

♦ **3. The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD.**

Indicate "YES" or "NO."

If the response the Question VI.E.3 is "NO," SOP applicants should provide either negative applicability determinations on Form OP-REQ2 or attribute information on Form OP-UA10, Tables 2a and 2b and applicability determinations on Form OP-REQ3. GOP applicants should provide attribute information on Form OP-UA10, Tables 2a and 2b.

Note: For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H.

Form OP-REQ1 (Page 20)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO_2) Emissions (continued)

♦ **4. Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD.**

Indicate "YES" or "NO."

If the response to Question VI.E.4 is "YES," applicability determinations for 40 CFR Part 60, Subpart LLL are not necessary in the permit application. If the response to Question VI.E.4 is "NO," SOP applicants should provide either negative applicability determinations on Form OP-REQ2 or attribute information on Form OP-UA10, Tables 2a and 2b and applicability determinations on Form OP-REQ3. GOP applicants should provide attribute information on Form OP-UA10, Tables 2a and 2b.

Note: For SOP applications, if the response to Question VI.E.4 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4 is "NO," go to Section VI.H.

♦ **5. Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.**

F. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Facilities

1. The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant.

Indicate "YES" or "NO." Please refer to affected facilities described in 40 CFR § 60.670(a)(1).

If the response to Question VI.F.1 is "NO," applicability determinations for 40 CFR Part 60, Subpart OOO are not necessary in the permit application. If the response to Question VI.F.1 is "YES," additional attribute information and applicability determinations are necessary in the permit application. The additional attribute information and applicability determinations should then be used as a basis for answering the following question.

Note: If the response to Question VI.F.1 is "NO," go to Section VI.G.

2. Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.

Indicate "YES" or "NO."

If the response to Question VI.F.2 is "YES," unit attribute information should be provided on Form OP-UA9, Tables 1a-1c. Applicability determinations for 40 CFR Part 60, Subpart OOO should be provided on Form OP-REQ3.

G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems

1. The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987.

Indicate "YES" or "NO."

If the response to Question VI.G.1 is "NO," applicability determinations for 40 CFR Part 60, Subpart QQQ are not necessary in the permit application. If the response to Question VI.G.1 is "YES," additional attribute information and applicability determinations for 40 CFR Part 60, Subpart QQQ are necessary in the permit application.

Note: If the response to Question VI.G.1 is "NO," go to Section VI.H.

2. The application area includes storm water sewer systems.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 21)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)

3. The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.

Indicate "YES" or "NO."

4. The application area includes non-contact cooling water systems.

Indicate "YES" or "NO."

5. The application area includes individual drain systems.

Indicate "YES" or "NO."

Note: If the response to Question VI.G.5 is "NO," go to Section VI.H.

6. The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).

Indicate "YES" or "NO."

7. The application area includes completely closed drain systems.

Indicate "YES" or "NO."

If the response to Question VI.G.7 is "YES," complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used to comply with 40 CFR § 60.693-1 for completely closed drain systems.

H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004

♦ **1. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator.**

For SOP applications and GOP applications for GOP 517, indicate "YES" if the incineration unit combusts municipal solid waste or refuse derived fuel and has the capacity to combust at least 35 tons per day but no more than 250 tons per day of these materials. Otherwise, indicate "NO."

For GOP applications for GOPs 511, 512, 513, and 514, indicate "N/A."

For SOP applications, if the response to Question VI.H.1 is "YES," further applicability determinations are necessary in the application. Please contact the assigned permit reviewer to determine the required information necessary for submittal and determination of requirements.

For GOP applications for GOP 517, if the response to Question VI.H.1 is "YES," the site does not qualify for the GOP and an application for an SOP must be submitted.

Note: If the response to Question VI.H.1 is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "NO," go to Question VI.H.4.

♦ **2. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.**

Indicate "YES" or "NO."

♦ **3. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.**

Indicate "YES" or "NO."

♦ **4. The application area includes at least one air curtain incinerator.**

Indicate "YES" if the air curtain incinerator combusts municipal solid waste refuses derived fuel or yard waste and has the capacity to combust at least 35 tons per day but no more than 250 tons per day of these materials. Otherwise, indicate "NO."

Note: If the response to Question VI.H.4 is "NO," go to Section VI.I.

Form OP-REQ1 (Page 22)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)

♦ **5. The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.**

Indicate "YES" or "NO."

Note: If the response to Question VI.H.5 is "NO," go to Question VI.H.7.

♦ **6. All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.**

Indicate "YES" or "NO."

♦ **7. The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.**

Indicate "YES" or "NO."

♦ **8. All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.**

Indicate "YES" or "NO."

Air Curtain Incinerators that burn materials other than yard waste do not qualify for GOP 517. These units must be included in an application for an SOP.

I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001

♦ **1. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator.**

For SOP applications and GOP applications for GOP 517, indicate "YES" if the incineration unit combusts commercial or industrial solid waste and is a distinct operating unit of a commercial or industrial facility. Otherwise, indicate "NO."

For GOP applications for GOPs 511, 512, 513 and 514, indicate "N/A."

For SOP applications, if the response to Question VI.I.1 is "YES," further applicability determinations are necessary in the application. Please contact the assigned permit reviewer to determine the required information necessary for submittal and determination of requirements.

For GOP applications for GOP 517, if the response to Question VI.I.1 is "YES," the site does not qualify for the GOP and an application for an SOP must be submitted.

Note: If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.

♦ **2. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 23)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)

♦ **3. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.**

Indicate "YES" or "NO."

♦ **4. The application area includes at least one air curtain incinerator.**

Indicate "YES" if the air curtain incinerator combusts commercial or industrial solid waste, wood waste, clean lumber or yard waste and is a distinct operating unit of a commercial or industrial facility. Otherwise, indicate "NO."

Note: If the response to Question VI.I.4 is "NO," go to Section VI.J.

♦ **5. The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.**

Indicate "YES" or "NO."

Note: If the response to Question VI.I.5 is "NO," go to Question VI.I.7.

♦ **6. All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.**

Indicate "YES" or "NO."

♦ **7. The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.**

Indicate "YES" or "NO."

♦ **8. All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.**

Indicate "YES" or "NO."

Air Curtain Incinerators that burn materials other than yard waste do not qualify for GOP 517. These units must be included in an application for an SOP.

Form OP-REQ1 (Page 24)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006

♦ **1. The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator.**

For SOP applications and GOP applications for GOP 517, indicate "YES" if the incineration unit is not an air curtain incinerator, and combusts municipal solid waste and has the capacity to combust less than 35 tons per day of this material or if the incineration unit combusts institutional waste and is a distinct operating unit of the institutional facility that generated the waste. Otherwise, indicate "NO."

For GOP applications for GOPs 511, 512, 513 and 514, indicate "N/A."

For SOP applications, if the response to Question VI.J.1 is "YES," further applicability determinations are necessary in the application. Please contact the assigned permit reviewer to determine the required information necessary for submittal and determination of requirements.

For GOP applications for GOP 517, if the response to Question VI.J.1 is "YES," the site does not qualify for the GOP and an application for an SOP must be submitted.

Note: If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "NO," go to Question VI.J.4.

♦ **2. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.**

Indicate "YES" or "NO."

♦ **3. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.**

Indicate "YES" or "NO."

4. The application area includes at least one air curtain incinerator.

Indicate "YES" if the incineration is an air curtain incinerator that:

(a) combusts municipal solid waste and has the capacity to combust less than 35 tons per day of this material, or
(b) combusts institutional waste and is a distinct operating unit of the institutional facility that generated the waste, or
(c) combusts wood waste, clean lumber, yard waste, or mixture of these materials.

Otherwise, indicate "NO."

Note: If the response to Question VI.J.4 is "NO," go to Section VI.K.

♦ **5. The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.**

Indicate "YES" or "NO."

♦ **6. All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.**

Indicate "YES" or "NO."

♦ **7. The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 25)

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)

♦ **8. All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.**

Indicate "YES" or "NO."

♦ **9. The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.**

Indicate "YES" or "NO."

♦ **10. The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.**

Indicate "YES" or "NO."

Air Curtain Incinerators that burn materials other than wood waste, clean lumber or yard waste or a mixture of those materials do not qualify for GOP 517. These units must be included in an application for an SOP.

K. Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

1. The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.

Indicate "YES" or "NO."

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants

A. Applicability

♦ **1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts.**

For SOP applications, and all GOP applications, except for GOP 517, indicate "YES" or "NO." For GOP applications under GOP 517, indicate "N/A."

Note: If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.

If the application area is only subject to 40 CFR § 61.145 for "*demolition or renovation activity*" and no other 40 CFR Part 61 subparts apply, the response to Question VII.A.1 should be "NO."

B. Subpart F - National Emission Standard for Vinyl Chloride

1. The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride.

Indicate "YES" or "NO."

If the response to Question VII.B.1 is "YES," negative applicability determinations should be provided on Form OP-REQ2 or unit attribute information should be provided on Form OP-UA56 and Form OP-UA12, Tables 11a and 11b for fugitive requirements and applicability determinations for 40 CFR Part 61, Subpart F should be provided on Form OP-REQ3. Applicability determinations for 40 CFR Part 61, Subpart F are not necessary in the permit application if the response is "NO."

C. Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks (Fugitive Emission Sources) of Benzene (Complete this section for GOP applications only)

♦ **1. The application area includes equipment in benzene service.**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 26)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

D. Subpart L - National Emission Standard For Benzene Emissions from Coke By Product Recovery Plants

1. The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b).

Indicate "YES" or "NO." Please refer to 40 CFR § 61.131 for the definition of coke by-product recovery plant.

If the response to Question VII.D.1 is "NO," applicability determinations for 40 CFR Part 61, Subpart L are not necessary in the permit application. If the response to Question VII.D.1 is "YES," negative applicability determinations should be provided on Form OP-REQ2 or unit attribute information should be provided on Form OP-UA3, for storage vessels, Form OP-UA13, for cooling towers, Form OP-UA14, for water separators. Applicability determinations for 40 CFR Part 61, Subpart L should be provided on Form OP-REQ3.

Note: If the response to Question VII.D.1 is "NO," go to Section VII.E.

2. The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).

Indicate "YES" or "NO."

3. The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.

Indicate "YES" or "NO."

E. Subpart M - National Emission Standard for Asbestos Applicability

1. The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 144, 146, 147, 148, 150, or 155.

Indicate "YES" or "NO."

If the response to Question VII.E.1 is "YES," complete Questions VII.E.2 - E.6, as necessary. If the response to Question VII.E.1 is "NO," negative applicability determinations for these 40 CFR Part 61, Subpart M sections are not necessary in the permit application. *Indicate "NO" to this question if the sources, operations, or activities at the application area are solely demolition or renovation conducted in accordance with 40 CFR § 61.145*. Please note that applicability determinations for 40 CFR § 61.142 (standards for asbestos mills), 40 CFR § 61.151 (standard for inactive waste disposal sites for asbestos for asbestos mills and manufacturing and fabricating operations), and 40 CFR § 61.154 (standard for active waste disposal sites) are not covered by Section VII.E. If a site is potentially subject to 40 CFR § 61.151 or 40 CFR § 61.154, applicability determinations are necessary in the permit application. If a site is potentially subject to 40 CFR § 61.142, please contact the TCEQ APD.

Note: If the response to Question VII.E.1 is "NO," go to Section VII.F.

Roadway Construction

2. The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.

Indicate "YES" or "NO."

Manufacturing Commercial Asbestos

3. The application area includes a manufacturing operation using commercial asbestos.

Indicate "YES" or "NO."

Note: If the response to Question VII.E.3 is "NO," go to Question VII.E.4.

a. Visible emissions are discharged to outside air from the manufacturing operation.

Indicate "YES" or "NO."

b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 27)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

***Manufacturing Commercial Asbestos* (continued)**

c. Asbestos-containing waste material is processed into non-friable forms.

Indicate "YES" or "NO."

d. Asbestos-containing waste material is adequately wetted.

Indicate "YES" or "NO."

e. Alternative filtering equipment is being used that has received EPA approval.

Indicate "YES" or "NO."

f. A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.

Indicate "YES" or "NO."

g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.

Indicate "YES" or "NO."

Asbestos Spray Application

4. The application area includes operations in which asbestos-containing materials are spray applied.

Indicate "YES" or "NO."

Note: If the response to Question VII.E.4 is "NO," go to Question VII.E.5.

a. Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying.

Indicate "YES" or "NO."

Note: If the response to Question VII.E.4a is "YES," go to Question VII.E.5.

b. Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.

Indicate "YES" or "NO."

c. An alternative emission control and waste treatment method is being used that has received prior EPA approval.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 28)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

***Asbestos Spray Application* (continued)**

d. Asbestos-containing waste material is processed into non-friable forms.

Indicate "YES" or "NO."

e. Asbestos-containing waste material is adequately wetted.

Indicate "YES" or "NO."

f. Alternative filtering equipment is being used that has received EPA approval.

Indicate "YES" or "NO."

g. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.

Indicate "YES" or "NO."

h. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.

Indicate "YES" or "NO."

Fabricating Commercial Asbestos

5. The application area includes fabricating operation using commercial asbestos.

Indicate "YES" or "NO."

Note: If the response to Question VII.E.5 is "NO," go to Question VII.E.6.

a. Visible emissions are discharged to outside air from the fabricating operation.

Indicate "YES" or "NO."

b. An alternative emission control and waste treatment method is being used that has received prior EPA approval.

Indicate "YES" or "NO."

c. Asbestos-containing waste material is processed into non-friable forms.

Indicate "YES" or "NO."

d. Asbestos-containing waste material is adequately wetted.

Indicate "YES" or "NO."

e. Alternative filtering equipment is being used that has received EPA approval.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 29)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

***Fabricating Commercial Asbestos* (continued)**

f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.

Indicate "YES" or "NO."

g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.

Indicate "YES" or "NO."

Non-sprayed Asbestos Insulation

6. The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying.

Indicate "YES" or "NO."

Asbestos Conversion

7. The application area includes operations that convert regulated asbestos containing material and asbestos-containing waste material into non-asbestos (asbestos-free) material.

Indicate "YES" or "NO."

F. Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities

1. The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process.

Indicate "YES" or "NO."

If the response to Question VII.F.1 is "YES," then additional attribute information and applicability determinations for 40 CFR Part 61, Subpart P are necessary in the permit application. Applicability determinations for 40 CFR Part 61, Subpart P are not necessary in the permit application if the response is "NO."

G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations

1. The application area is located at a benzene production facility and/or bulk terminal.

Indicate "YES" or "NO." Bulk terminal is defined in 40 CFR § 61.300.

If the response to Question VII.G.1 is "NO," then additional attribute information and applicability determinations are not necessary in the permit application. If the response to Question VII.G.1 is "YES," complete Questions VII.G.2 - G.4, negative applicability determinations should be provided on Form OP-REQ2 or unit attribute information should be provided on OP-UA4 and applicability determinations should be provided on OP-REQ3.

Note: If the response to Question VII.G.1 is "NO," go to Section VII.H.

2. The application area includes benzene transfer operations at marine vessel loading racks.

Indicate "NO" if the application area does not include marine vessel loading racks. If the application area includes benzene transfer operations at marine vessel loading racks other than those listed below, indicate "YES." Otherwise, indicate "N/A" if the application area includes only the following marine vessel loading racks:

(a) Loading racks which load only benzene-laden waste (covered under 40 CFR Part 63, Subpart FF), gasoline, crude oil, natural gas liquids, petroleum distillates (e.g., fuel oil, diesel, or kerosene), or benzene-laden liquid from coke by product recovery plants;
(b) loading racks which load only liquids containing less than 70 weight-percent benzene; or
(c) the combined total amount of liquids containing 70 weight-percent or more benzene loaded at all loading racks located at the site is less than 1.3 million liters (343,424 gallons) annually.

Form OP-REQ1 (Page 30)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)

3. The application area includes benzene transfer operations at railcar loading racks.

Indicate "NO" if the application area does not include railcar loading racks. If the application area includes benzene transfer operations at railcar loading racks other than those listed below, indicate "YES." Otherwise, indicate "N/A" if the application area includes only the following railcar loading racks:

(a) Loading racks which load only benzene-laden waste (covered under 40 CFR Part 63, Subpart FF), gasoline, crude oil, natural gas liquids, petroleum distillates (e.g., fuel oil, diesel, or kerosene), or benzene-laden liquid from coke by-product recovery plants;
(b) loading racks which load only liquids containing less than 70 weight-percent benzene; or
(c) the combined total amount of liquids containing 70 weight-percent or more benzene loaded at all loading racks located at the site is less than 1.3 million liters (343,424 gallons) annually.
(d) all loading racks transferring benzene to railcars in the application area meet the definition of a Group 1 transfer rack in 40 CFR Part 63, Subpart G and are subject to the control requirements of 40 CFR Part 63, Subpart G.

4. The application area includes benzene transfer operations at tank truck loading racks.

Indicate "NO" if the application area does not include tank truck loading racks. If the application area includes benzene transfer operations at tank truck loading racks other than those listed below, indicate "YES." Otherwise, indicate "N/A" if the application area includes only the following tank truck loading racks:

(a) Loading racks which load only benzene-laden waste (covered under 40 CFR Part 63, Subpart FF), gasoline, crude oil, natural gas liquids, petroleum distillates (e.g., fuel oil, diesel, or kerosene), or benzene-laden liquid from coke by-product recovery plants;
(b) loading racks which load only liquids containing less than 70 weight-percent benzene; or
(c) the combined total amount of liquids containing 70 weight-percent or more benzene loaded at all loading racks located at the site is less than 1.3 million liters (343,424 gallons) annually.
(d) all loading racks transferring benzene to tank trucks in the application area meet the definition of a Group 1 transfer rack in 40 CFR Part 63, Subpart G and are subject to the control requirements of 40 CFR Part 63, Subpart G.

H. Subpart FF - National Emission Standard for Benzene Waste Operations

Applicability

1. The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in 40 CFR § 61.341.

Indicate "YES" or "NO." Refer to the definitions of these facilities in 40 CFR § 61.341.

2. **The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b).**

   Indicate "YES" or "NO."

   If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII. Additional attribute information and applicability determinations for 40 CFR Part 61, Subpart FF are not necessary in the permit application.

3. **The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates.**

   Indicate "YES" or "NO."

   If the response to Question VII.H.3 is "YES," go to Section VIII. Additional attribute information and applicability determinations fir 40 CFR Part 61, Subpart FF are not necessary in the permit application.

4. **The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr).**

   Indicate "YES" or "NO."

   If the response to Question VII.H.4 is "YES," go to Section VIII. Additional attribute information and applicability determinations for 40 CFR Part 61, Subpart FF are not necessary in the permit application.

5. **The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr.**

   Indicate "YES" or "NO."

   If the response to Question VII.H.5 is "YES," go to Section VIII. Additional attribute information and applicability determinations for 40 CFR Part 61, Subpart FF are not necessary in the permit application.

Form OP-REQ1 (Page 31)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations Applicability (continued)

***Applicability* (continued)**

6. **The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.**

   Indicate "YES" or "NO."

7. **The application area has waste streams with a flow-weighted annual average water content of 10% or greater.**

   Indicate "YES" or "NO."

Waste Stream Exemptions

8. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).

Indicate "YES" or "NO."

9. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr.

Indicate "YES" or "NO."

10. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr.

Indicate "YES" or "NO."

11. The application area transfers waste off-site for treatment by another facility.

Indicate "YES" or "NO."

12. The application area is complying with 40 CFR § 61.342(d).

Indicate "YES" or "NO."

13. The application area is complying with 40 CFR § 61.342(e).

Indicate "YES" or "NO."

Note: If the response to Question VII.H.13 is "NO," go to Question VII.H.15.

14. The application area has facility waste with a flow weighted annual average water content of less than 10%.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 32)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Container Requirements

15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste.

Indicate "YES" or "NO."

Note: If the response to Question VII.H.15 is "NO," go to Question VII.H.18.

16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers.

Indicate "YES" or "NO."

Note: If the response to Question VII.H.16 is "YES," go to Question VII.H.18.

17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for containers to comply with 40 CFR Part 61, Subpart FF.

Individual Drain Systems

18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste.

Indicate "YES" or "NO."

Note: If the response to Question VII.H.18 is "NO," go to Question VII.H.25.

19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems.

Indicate "YES" or "NO."

Note: If the response to Question VII.H.19 is "YES," go to Question VII.H.25.

20. The application area has individual drain systems complying with 40 CFR § 61.346(a).

Indicate "YES" or "NO."

Note: If the response to Question VII.H.20 is "NO," go to Question VII.H.22.

21. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for individual drain systems to comply with 40 CFR Part 61, Subpart FF.

Form OP-REQ1 (Page 33)

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

***Individual Drain Systems* (continued)**

22. The application area has individual drain systems complying with 40 CFR § 61.346(b).

Indicate "YES" or "NO."

Note: If the response to Question VII.H.22 is "NO," go to Question VII.H.25.

23. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.

Indicate "YES" or "NO."

24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for individual drain systems to comply with 40 CFR Part 61, Subpart FF.

Remediation Activities

25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.

Indicate "YES" or "NO."

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories

A. Applicability

♦ **1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable only by reference under subparts in 40 CFR Part 60, 61 or 63.**

Indicate "YES" or "NO."

Current 40 CFR Part 63 subparts made applicable by reference are 40 CFR Part 63, Subparts OO, PP, QQ, RR, SS, TT, UU, VV and WW.

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry

1. The application area is located at a plant site that is a major source as defined in FCAA § 112(a).

Indicate "YES" or "NO."

If the response to Question VIII.B.1 is "NO," applicability determinations for 40 CFR Part 63, Subparts F and G are not necessary in the permit application.

Note: If the response to Question VIII.B.1 is "NO," go to Section VIII.D.

Form OP-REQ1 (Page 34)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued)

2. The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).

Indicate "YES" or "NO."

If the response to Question VIII.B.2 is "NO," applicability determinations for 40 CFR Part 63, Subparts F and G are not necessary in the permit application.

Note: If the response to Question VIII.B.2 is "NO," go to Section VIII.D.

3. The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in Table 2 of 40 CFR Part 63, Subpart F.

Indicate "YES" or "NO."

If the response to Question VIII.B.3 is "NO," applicability determinations for 40 CFR Part 63, Subparts F and G are not necessary in the permit application.

4. The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii) and uses as a reactant or manufactures as a product, or co product, one or more of the organic hazardous air pollutants listed in Table 2 of 40 CFR Part 63, Subpart F.

Indicate "YES" or "NO."

If the response to Question VIII.B.4 is "YES," additional attribute information and applicability determinations for 40 CFR Part 63, Subparts F and G are necessary in the permit application.

5. The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii) and does not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in Table 2 of 40 CFR Part 63, Subpart F.

Indicate "YES" or "NO."

If the response to Question VIII.B.5 is "YES," additional attribute information and applicability determination for 40 CFR Part 63, Subparts F is necessary in the permit application.

Note: If the response to Question VIII.B.3., B.4 and B.5 are all "NO," go to Section VIII.D.

Form OP-REQ1 (Page 35)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater

Applicability

1. The application area is located at a site that is subject to 40 CFR Part 63, Subpart F and includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F.

Indicate "YES" or "NO."

If the response to Question VIII.C.1 is "NO," applicability determinations for 40 CFR Part 63, Subpart G are not necessary in the permit application. If the response to Question VIII.C.1 is "YES," then additional attribute information and applicability determinations for 40 CFR Part 63, Subpart G are necessary in the permit application.

Note: If the response to Question VIII.C.1 is "NO," go to Section VIII.D.

2. The application area includes fixed roofs, covers and/or enclosures that are required to comply with 40 CFR § 63.148.

Indicate "YES" or "NO."

3. The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.

4. The application area includes vapor collection systems or closed-vent systems that are constructed of hard piping.

Indicate "YES" or "NO."

5. The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.

Vapor Collection and Closed Vent Systems

6. Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area.

Indicate "YES" or "NO."

7. **Bypass lines in the application area are secured in the closed position with a car-seal or a lock and-key type configuration.**

   Indicate "YES" or "NO."

Form OP-REQ1 (Page 36)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

8. **The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank.**

   Indicate "YES" or "NO."

   If the response to Question VIII.C.8 is "NO," go to Question VIII.C.11.

9. **The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater.**

   Indicate "YES" or "NO."

10. **The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system.**

    Indicate "YES" or "NO."

Transfer Racks

11. **The application area includes Group 1 transfer racks that load organic HAPs.**

    Indicate "YES" or "NO." Please refer to 40 CFR § 63.111 for the definition of Group 1 transfer rack.

Process Wastewater Streams

12. **The application area includes process wastewater streams.**

    Indicate "YES" or "NO." Please refer to 40 CFR § 63.111 for the definition of process wastewater streams.

    Note: If the response to Question VIII.C.12 is "NO," go to Question VIII.C.34.

13. **The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.C.13 is "NO," go to Question VIII.C.15.

14. The application area includes process wastewater streams that are complying with 40 CFR § 63.110(e)(1)(i) and 40 CFR § 63.110(e)(1)(ii).

Indicate "YES" or "NO."

15. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.15 is "NO," go to Question VIII.C.17.

Form OP-REQ1 (Page 37)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

***Process Wastewater Streams* (continued)**

16. The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).

Indicate "YES" or "NO."

17. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.

18. The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).

Indicate "YES" or "NO."

19. The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).

Indicate "YES" or "NO."

20. The application area includes process wastewater streams, located at an existing source, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.

Indicate "YES" or "NO."

21. The application area includes process wastewater streams, located at existing sources that are Group 2.

Indicate "YES" or "NO."

22. The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.

Indicate "YES" or "NO."

23. The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 38)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

***Process Wastewater Streams* (continued)**

24. All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.

25. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.

26. The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.

Indicate "YES" or "NO."

27. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.

Indicate "YES" or "NO."

28. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.27 and C.28 are both "NO," go to Question VIII.C.30.

29. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.

Indicate "YES" or "NO."

30. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 39)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Drains

31. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.

32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.

Indicate "YES" or "NO."

33. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.

Indicate "YES" or "NO."

34. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b).

Indicate "YES" or "NO."

Note: If the response to Question VIII.C.34 is "NO," go to Question VIII.C.39.

35. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d).

Indicate "YES" if the application area includes equipment that meets all of the following:

(a) is controlled less stringently than the requirements in Table 35 of 40 CFR 63 Subpart G;
(b) is not listed in 40 CFR § 63.100(f); and
(c) and is not otherwise exempt from controls by the provisions of 40 CFR Part 63, Subparts A, F, G, or H.

Otherwise, indicate "NO."

Note: If the response to Question VIII.C.35 is "NO," go to Question VIII.C.39.

36. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63, Subpart G, Table 9, at any flow rate.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 40)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

***Drains* (continued)**

37. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63, Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.

Indicate "YES" or "NO."

38. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or 63.100(l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppm of compounds listed in 40 CFR Part 63, Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute.

Indicate "YES" or "NO."

Gas Streams

39. The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.

Indicate "YES" or "NO."

40. The applicant is unable to comply with 40 CFR §§ 63.113 - 118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).

Indicate "YES" or "NO."

D. Subpart N - National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks

1. The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.

Indicate "YES" or "NO."

If the response to Question VIII.D.1 is "YES," unit attribute information should be provided on Form OP-UA26. Applicability determinations for 40 CFR Part 63, Subpart N should be provided on Form OP-REQ3. Applicability determinations for 40 CFR Part 63, Subpart N are not necessary in the permit application if the response is "NO."

Form OP-REQ1 (Page 41)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

E. Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities

1. The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials.

Indicate "YES" or "NO."

If the response to Question VIII.E.1 is "NO," applicability determinations for 40 CFR Part 63, Subpart O are not necessary in the permit application. If the response to this question is "YES," additional attribute information and applicability determinations are necessary in the permit application. The additional attribute information and applicability determinations should then be used as a basis for answering the following question.

Note: If the response to Question VIII.E.1 is "NO," go to Section VIII.F.

2. Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O.

Indicate "YES" or "NO."

If the response to Question VIII.E.2 is "NO," applicability determinations for 40 CFR Part 63, Subpart O are not necessary in the permit application. If the response to this question is "YES," additional attribute information and applicability determinations are necessary in the permit application. The additional attribute information and applicability determinations should then be used as a basis for answering the following question.

Note: If the response to Question VIII.E.2 is "NO," go to Section VIII.F.

3. The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.

Indicate "YES" or "NO."

If the response to Question VIII.E.3 is "YES, further applicability determinations for 40 CFR Part 63, Subpart O are not necessary in the permit application. If the response to this question is "NO," provide either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA15 and applicability determinations on Form OP-REQ3.

4. The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.

Indicate "YES" or "NO."

F. Subpart Q - National Emission Standards for Industrial Process Cooling Towers

1. The application area includes industrial process cooling towers.

Indicate "YES" if the application area includes industrial process cooling towers that are either major sources or an integral part of a site that is a major source as defined in 40 CFR § 63.401. Otherwise, indicate "NO."

If the response to Question VIII.F.1 is "NO," applicability determinations for 40 CFR Part 63, Subpart Q are not necessary in the permit application. If the response to Question VIII.F.1 is "YES," additional attribute information and applicability determinations for 40 CFR Part 63, Subpart Q are necessary in the permit application.

Note: If the response to Question VIII.F.1 is "NO," go to Section VIII.G.

2. Chromium-based water treatment chemicals have been used on or after September 8, 1994.

Indicate "YES" or "NO."

If the response to Question VIII.F.2 is "YES," provide either negative applicability determinations on Form OP-REQ2 or unit attribute information on OP-UA13, Table 1 and applicability determinations on Form OP-REQ3.

G. Subpart R - National Emission Standard for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)

1. The application area includes a bulk gasoline terminal.

Indicate "YES" or "NO."

2. The application area includes a pipeline breakout station.

Indicate "YES" or "NO."

If the responses to Questions VIII.G.1 and G.2 are both "NO," applicability determinations for 40 CFR Part 63, Subpart R are not necessary in the permit application.

Note: If the responses to Questions VIII.G.1 - G.2 are both "NO," go to Section VIII.H.

3. The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station.

Indicate "YES" or "NO."

If the response to Question VIII.G.3 is "YES," then 40 CFR § 63.420(a)(1) or 40 CFR § 63.420(b)(1) shall not be used to determine 40 CFR Part 63, Subpart R applicability.

Note: If the response to Question VIII.G.3 is "YES," go to Question VIII.G.10.

Form OP-REQ1 (Page 42)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

G. Subpart R - National Emission Standard for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued)

4. The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs.

Indicate "YES" or "NO."

If the response to Question VIII.G.4 is "YES," then 40 CFR § 63.420(a)(1) or 63.420(b)(1) shall not be used to determine 40 CFR Part 63, Subpart R applicability.

Note: If the response to Question VIII.G.4 is "YES," go to Question VIII.G.10.

5. An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station.

Indicate "YES" or "NO."

Note: If the response to Question VIII.G.5 is "NO," go to Question VIII.G.10.

6. The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep).

Indicate "YES" or "NO."

Note: If the response to Question VIII.G.6 is "NO," go to Question VIII.G.10.

The value OE is the other HAP emissions screening factor for bulk gasoline terminals or pipeline breakout stations (tpy). The value OE equals the total HAPs from other emission sources not specified in parameters in the equations for ET or EP. If the value of 0.04(OE) is greater than 5 percent of either ET or EP, then 40 CFR § 63.420(a)(1) or 63.420(b)(1) shall not be used to determine 40 CFR Part 63 applicability.

Please refer to 40 CFR Part 63, Subpart R (National Emission Standards for Gasoline Distribution Facilities) for emission screening factor equations and variables for bulk gasoline terminals and pipeline breakout stations, ET and EP, respectively.

7. Emissions screening factor less than 0.5 (ET or EP < 0.5).

Indicate "YES" or "NO."

Note: If the response to Question VIII.G.7 is "YES," go to Section VIII.H.

8. Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0).

Indicate "YES" or "NO."

Note: If the response to Question VIII.G.8 is "YES," go to Section VIII.H.

9. Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0).

Indicate "YES" or "NO."

Note: If the response to Question VIII.G.9 is "YES," go to Question VIII.G.11.

If the value of ET or EP was calculated and is greater than or equal to one, unit attribute information should be provided on Form OP-UA3, Table 5, for storage vessels and Form OP-UA4, Table 3, for loading racks. Applicability determinations should be provided on Form OP-REQ3. If the value of ET or EP was calculated and is less than one, additional attribute information and applicability determinations are not necessary in the permit application.

10. The site at which the application area is located is a major source of HAP.

If the site is a major source of HAPs, indicate "YES." Otherwise, indicate "NO."

If a formal emissions inventory was performed for the site and the site is not a major source of HAPs additional attribute information and applicability determinations are not necessary in the permit application. Otherwise, unit attribute information should be provided on Form OP-UA3, Table 5, for storage vessels and Form OP-UA4, Table 3, for loading racks. Applicability determinations should be provided on Form OP-REQ3.

The applicability of MACT R depends on whether the site where the application area is located is a major source of HAPs (and not just the area being applied for). This is important from the standpoint of multiple operating permit applications for one site.

Note: If the response to Question VIII.G.10 is "NO," go to Section VIII.H.

11. The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).

Indicate "YES" or "NO."

Form OP-REQ1 (Page 43)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

1. The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2.

Indicate "YES" or "NO."

Note: If the response to Question VIII.H.1 is "NO," go to Section VIII.I.

2. The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3).

Indicate "YES" or "NO."

Note: If the response to Question VIII.H.2 is "NO," go to Section VIII.I.

3. The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources.

Indicate "YES" or "NO."

Note: If the response to Question VIII.H.3 is "NO," go to Section VIII.I.

4. **The application area includes one or more kraft pulping systems that are existing sources.**

   Indicate "YES" or "NO."

5. **The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.**

   Indicate "YES" or "NO."

6. **The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.H.6 is "NO," go to Section VIII.I.

7. **The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).**

   Indicate "YES" or "NO."

8. **The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).**

   Indicate "YES" or "NO."

Form OP-REQ1 (Page 44)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

I. Subpart T - National Emission Standards for Halogenated Solvent Cleaning

1. **The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses HAP solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent.**

   Indicate "YES" or "NO."

   Under 40 CFR § 63.460, the halogenated solvents include: methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichloroethylene (CAS No. 79-01-6), 1, 1, 1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3).

   If the response to Question VIII.I.1 is "YES," unit attribute information should be provided on Form OP-UA16, Tables 2a-2c. Applicability determinations for 40 CFR Part 63, Subpart T should be provided on Form OP-REQ3. Applicability determinations for 40 CFR Part 63, Subpart T are not necessary in the permit application if the response is "NO."

2. **The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride.**

   Indicate "YES" or "NO."

   Under 40 CFR § 63.471(a), the following solvent cleaning machines are not affected facilities for purposes of the facility wide requirements:

(a) solvent cleaning machines used in the manufacture and maintenance of aerospace products
(b) solvent cleaning machines used in the manufacture of narrow tubing
(c) continuous web cleaning machines

3. The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride.

Indicate "YES" or "NO."

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins

1. The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units.

Indicate "YES" or "NO." Please refer to 40 CFR § 63.482 for the definition of an elastomer product process unit.

Note: If the response to Question VIII.J.1 is "NO," go to Section VIII.K.

2. Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U.

Indicate "YES" or "NO."

Note: If the response to Question VIII.J.2 is "NO," go to Section VIII.K.

3. The application area includes process wastewater streams, located at new sources, that are designated as Group 1 or are determined to be Group 1 for organic HAP as defined in 40 CFR § 63.482.

Indicate "YES" or "NO."

The definition of organic HAP in 40 CFR § 63.482 read as "one or more of the chemicals listed in Table 5 of this subpart or any other chemical which:

(a) Is knowingly produced or introduced into the manufacturing process other than as an impurity; and
(b) Is listed in Table 2 of subpart F of this part."

4. The application area includes process wastewater streams that are Group 2 for organic HAP as defined in 40 CFR § 63.482.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 45)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins (continued)

5. All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.

Indicate "YES" or "NO."

Note: If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.

6. **The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.

7. **The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.**

   Indicate "YES" or "NO."

8. **Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.**

   Indicate "YES" or "NO."

9. **Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.J.8 and J.9 are both "NO," go to Question VIII.J.11.

10. **The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.**

    Indicate "YES" or "NO."

Form OP-REQ1 (Page 46)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins (continued)

Containers

11. **The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.**

    Indicate "YES" or "NO."

Drains

12. **The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.

13. **The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.**

    Indicate "YES" or "NO."

14. **The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.**

    Indicate "YES" or "NO."

15. **The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.J.15 is "NO," go to Section VIII.K.

16. **The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12).**

    Indicate "YES" if the application area includes equipment that meets all of the following:

    (a) is controlled less stringently than the requirements in Table 35 of 40 CFR 63 Subpart G;
    (b) is not listed in 40 CFR § 63.480(c); and
    (c) and is not otherwise exempt from controls by the provisions of 40 CFR Part 63, Subparts A, F, G, H or U.

    Otherwise, indicate "NO."

    Note: If the response to Question VIII.J.16 is "NO," go to Section VIII.K.

Form OP-REQ1 (Page 47)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins (continued)

***Drains* (continued)**

17. **The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate.**

    Indicate "YES" or "NO."

18. **The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute.**

    Indicate "YES" or "NO."

19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute.

Indicate "YES" or "NO."

K. Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production

1. The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area.

Indicate "YES" if the manufacture of BLR and/or WSR is conducted in the application area and the application area is located at a plant site that is a major source of HAP emissions. Indicate "N/A" if the manufacture of BLR and/or WSR is conducted in the application area and the application area is located at a plant site that is not a major source of HAP emissions. Otherwise, indicate "NO."

Note: If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.

2. The application area includes a BLR and/or WSR research and development facility.

Indicate "YES" or "NO."

Applicability determinations for 40 CFR Part 63, Subpart DD are not necessary in the permit application for the BLR and/or WSR research and development facility if the response is "YES." Under 40 CFR § 63.522, research and development facility mean laboratory operations whose primary purpose is to conduct research and development into new processes and products, where the operations are under the close supervision of technically trained personnel and is not engaged in the manufacture of products for commercial sale, except in a de minimis manner.

Form OP-REQ1 (Page 48)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

L. Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting

1. The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter.

Indicate "YES" or "NO."

Note: If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M

2. The application area is using and approved alternate to the requirements of 40 CFR § 63.545(c)(1)-(5) for control of fugitive dust emission sources.

Indicate "YES" if the application area has received approval from the EPA Administrator under 40 CFR § 63.545(f) to use an alternate to controls specified in 40 CFR § 63.545(c)(1)-(5) for fugitive emission sources. Otherwise, indicate "NO."

M. Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations

1. The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.

Indicate "YES" or "NO."

Unit attribute information should be provided on Form OP-UA4, Tables 4a-4b and applicability determinations for 40 CFR Part 63, Subpart Y should be provided on Form OP-REQ3 for all marine tank vessel loading operations specified in 40 CFR § 63.560, including sources that do not meet the definition of affected source (existing sources with emissions less than 10 tpy for any single HAP or 25 tpy aggregate HAPs).

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Applicability

1. The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR §§ 63.640(c)(1) - 63.640(c)(7).

Indicate "YES" or "NO."

If the response to Question VIII.N.1 is "NO," then applicability determinations for 40 CFR Part 63, Subpart CC are not necessary in the permit application. If the response to Question VIII.N.1 is "YES," then complete Questions VIII.N.2 - N.12 as necessary.

Note: If the response to Question VIII.N.1 is "NO," go to Section VIII.O.

2. All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - 63.640(g)(7).

Indicate "YES" or "NO."

Note: If the response to Question VIII.N.2 is "YES," go to Section VIII.O.

Form OP-REQ1 (Page 49)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

***Applicability* (continued)**

3. The application area is located at a plant site that is a major source as defined in FCAA § 112(a).

Indicate "YES" or "NO."

If the response to Question VIII.N.3 is "NO," then applicability determinations for 40 CFR Part 63, Subpart CC are not necessary in the permit application. If the response to Question VIII.N.3 is "YES," then complete Questions VIII.N.4 - N.12 as necessary.

Note: If the response to Question VIII.N.3 is "NO," go to Section VIII.O.

4. **The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in Table 1 of 40 CFR Part 63, Subpart CC.**

   Indicate "YES" or "NO."

   If the response to Question VIII.N.4 is "NO," then applicability determinations for 40 CFR Part 63, Subpart CC are not necessary in the permit application. If the responses to Questions VIII.N.1, N.3, and N.4 are "YES," then additional attribute information and applicability determinations for 40 CFR Part 63, Subpart F are necessary in the permit application.

   Note: If the response to Question VIII.N.4 is "NO," go to Section VIII.O.

5. **The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 wastewater provisions section.**

   Indicate "YES" or "NO." For the definition of Group 1 wastewater streams, please refer to 40 CFR § 63.641.

6. **The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 wastewater provisions section.**

   Indicate "YES" or "NO."

7. **The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 wastewater provisions section.**

   Indicate "YES" or "NO." For the definition of Group 1 and Group 2 wastewater streams, please refer to 40 CFR § 63.641.

   Note: If the response to Question VIII.N.7 is "NO," go to Section VIII.O.

8. **The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).**

   Indicate "YES" or "NO."

Form OP-REQ1 (Page 50)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

***Applicability* (continued)**

9. **The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii).**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.N.9 is "NO," go to Section VIII.O.

10. The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992.

Indicate "YES" or "NO."

Containers, Drains, and other Appurtenances

11. The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii).

Indicate "YES" or "NO."

12. The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii).

Indicate "YES" or "NO."

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations

1. The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1).

Indicate "YES" if the application area receives material meeting the 40 CFR § 63.680(b)(1) criteria and the plant site is a major source of HAP emissions as defined in 40 CFR § 63.2. Indicate "N/A" if the application area receives material meeting the 40 CFR § 63.680(b)(1) criteria and the plant site is not a major source of HAP emissions. Otherwise, indicate "NO."

If the response to Question VIII.O.1 is "YES," additional attribute information and applicability determinations for 40 CFR Part 63, Subpart DD are necessary in the permit application. Applicability determinations for 40 CFR Part 63, Subpart DD are not necessary in the permit application if the response is "NO" or "N/A."

Under 40 CFR § 63.680(b)(1), an off-site material is a material that meets all of the following specified criteria. If any one of these criteria do not apply to the material, then the material is not an off-site material subject to this subpart.

(a) The material is a waste, used oil, or used solvent;
(b) The waste, used oil, or used solvent is not produced or generated within the plant site, but the material is delivered, transferred, or otherwise moved to the plant site from a location outside the boundaries of the plant site; and
(c) The waste, used oil, or used solvent contains one or more of the HAPs listed in Table 1 of 40 CFR Part 63, Subpart DD based on the composition of the material at the point-of-delivery.

Please refer to 40 CFR § 63.681 for the definitions of waste, used oil, used solvent, and point-of-delivery.

Note: If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P.

2. Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.

Indicate "YES" or "NO."

Please refer to 40 CFR § 63.680(b)(2) for a list of materials that are not off-site materials.

3. **The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or265.**

   Indicate "YES" or "NO."

   Title 40 CFR Part 264 relates to standards for owners and operators of hazardous waste treatment, storage, and disposal (TSD) facilities. Title 40 CFR Part 264 relates to interim status standards for owners and operators of hazardous waste treatment TSD facilities.

Form OP-REQ1 (Page 51)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)

4. **The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR § 264.1(g)(6) or § 265.1(c)(10).**

   Indicate "YES" or "NO."

   Under 40 CFR § 264.1(g)(6) or 265.1(c)(10), an elementary neutralization unit or a wastewater treatment unit, as defined in 40 CFR § 260.10, is not subject to 40 CFR Part 264 or 265, respectively, unless the owner/operator is diluting hazardous ignitable (D001) wastes (other than the D001 High TOC Subcategory defined in 40 CFR § 268.40, Table Treatment Standards for Hazardous Wastes), or reactive (D003) waste, to remove the characteristic before land disposal, then the owner/operator must comply with the 40 CFR § 264.17(b) requirements.

5. **The application area has an operation subject to Clean Water Act § 402 or 307(b) but is not owned by a "state" or "municipality."**

   Indicate "YES" or "NO."

6. **The predominant activity in the application area is the treatment of wastewater received from off-site.**

   Indicate "YES" or "NO."

7. **The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR § 264.1(g)(2) or § 265.1(c)(6).**

   Indicate "YES" or "NO."

   Under 40 CFR § 264.1(g)(2) or § 265.1(c)(6), a facility managing recyclable materials described in 40 CFR § 261.6(a)(2) - (4), is not subject to 40 CFR Part 264 or 265, respectively, except as referred to in 40 CFR Part 279 or 266, Subparts C, D, F, or G.

8. **The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or 61.**

   Indicate "YES" or "NO."

9. **The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).**

   Indicate "YES" or "NO."

10. **The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.O.10 is "YES," go to Section VIII.P.

Form OP-REQ1 (Page 52)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)

11. **The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.

12. **VOHAP concentration is determined by direct measurement.**

    Indicate "YES" or "NO."

13. **VOHAP concentration is based on knowledge of the offsite material.**

    Indicate "YES" or "NO."

14. **The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.

15. **An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.**

    Indicate "YES" or "NO."

16. **An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.**

    Indicate "YES" or "NO."

    If the responses to Questions VII.O.14, 15 and 16 are all "YES," provide unit attribute data for a fugitive unit on OP-UA12, Tables 3a - 3j, for equipment complying with 40 CFR Part 61, Subpart V or Tables 9a - 9g for equipment complying with 40 CFR Part 63, Subpart H. If the response to any one the questions are "NO," no unit attribute data is required.

17. The application area includes containers that manage non-exempt off-site material.

Indicate "YES" or "NO."

Please refer to 40 CFR § 63.683(b)(2) to determine if the container(s) qualifies for an exemption from the requirements of 40 CFR § 63.683(b)(1). Containers that manage only wastes with an average VOHAP concentration less than 500 ppmw are addressed by Questions VIII.O.11 - 13.

18. The application area includes individual drain systems that manage non-exempt off-site materials.

Indicate "YES" or "NO."

Please refer to 40 CFR § 63.683(b)(2) to determine if the individual drain system(s) qualifies for an exemption from the requirements of 40 CFR § 63.683(b)(1). Individual drain systems that manage only wastes with an average VOHAP concentration less than 500 ppmw are addressed by Questions VIII.O.11 - 13.

Form OP-REQ1 (Page 53)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

P. Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities

1. The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components.

Indicate "YES" if the application area includes facilities that manufacture or rework commercial, civil or military aerospace vehicles or components and the site is a major source of HAP emissions as defined in 40 CFR § 63.2. Indicate "N/A" if the application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components and the site is not a major source of HAP emissions. Otherwise, indicate "NO."

Note: If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.

2. The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).

Indicate "YES" or "NO."

Q. Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

♦ **1. The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer.**

Indicate "YES" or "NO."

♦ **2. The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user.**

Indicate "YES" or "NO."

Note: For SOP applications, if the response to both Question VIII.Q.1 and VIII.Q.2 is "NO," go to Section VIII.R. For GOP applications, if the response to both Question VIII.Q.1 and VIII.Q.2 is "NO," go to Section VIII.Z.

♦ **3. The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761.**

Indicate "YES" or "NO."

If the response to Question VIII.Q.3 is "YES," applicability determinations in the application are not necessary.

Note: For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.

♦ **4. The application area is located at a site that is a major source of HAP.**

Indicate "YES" or "NO."

Note: If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.

Form OP-REQ1 (Page 54)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

Q. Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)

♦ **5. The application area contains only a facility, prior to the point of custody transfer, with facility wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft3) per day and a facility wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day.**

Indicate "YES" or "NO."

If the response to Question VIII.Q.5 is "YES," applicability determinations in the application are not necessary.

If the response to Question VIII.Q.5 is "NO," applicability determinations are necessary in the application.

Major Source applications:

SOP Applications for major sources should submit either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA3, Tables 16a and 16b, Form OP-UA12, Tables 13a through 13m and/or Form OP-UA62, Tables 1a and 1b, as appropriate, and applicability determinations on Form OP-REQ3. GOP applications for major sources should submit unit attribute information on Form OP-UA3, Tables 16a and 16b, Form OP-UA12, Tables 13a through 13m and/or Form OP-UA62, Tables 1a and 1b, as appropriate.

Area Source applications:

SOP applications for area sources should submit either negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA62, Tables 1a and 1b and applicability determinations on Form OP-REQ3. GOP applications for area sources should submit unit attribute information on Form OP-UA62, Tables 1a and 1b.

Note: For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z. For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.

♦ **6. The application area includes a triethylene glycol (TEG) dehydration unit.**

Indicate "YES" or "NO."

Note: For SOP applications, if the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.

♦ **7. The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.**

Indicate "YES" or "NO."

Definitions from 40 CFR § 63.761:

UA plus offset and UC is defined as the area occupied by each urbanized area, each urban cluster that contains at least 10,000 people, and the area located two miles or less from each urbanized area boundary.

Urbanized area refers to Census 2000 Urbanized Area, which is defined in the Urban Area Criteria for Census 2000 (March 15, 2002). Essentially, an urbanized area consists of densely settled territory with a population of at least 50,000 people.

Urban cluster refers to a Census 2000 Urban Cluster, which is defined in the Urban Area Criteria for Census 2000 (March 15, 2002). Essentially, an urban cluster consists of densely settled territory with at least 2,500 people but fewer than 50,000 people.

♦ **8. The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.**

Indicate "YES" or "NO."

♦ **9. Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).**

Indicate "YES" or "NO."

Form OP-REQ1 (Page 55)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

R. Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)

1. The application area includes shipbuilding or ship repair operations.

Indicate "YES" or "NO."

If the response to Question VIII.R.1 is "NO," applicability determinations for 40 CFR Part 63, Subpart II are not necessary in the permit application. If the response to Question VIII.R.1 is "YES," additional attribute information and applicability determinations are necessary in the permit application. The additional attribute information and applicability determinations should then be used as a basis for answering the following question.

Note: If the response to Question VIII.R.1 is "NO," go to Section VIII.S.

2. Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.

Indicate "YES" or "NO."

If the response to Question VIII.R.2 is "NO," applicability determinations for 40 CFR Part 63, Subpart II are not necessary in the permit application. If the response to Question VIII.R.2 is "YES," negative applicability determinations should be provided on Form OP-REQ2 or unit attribute information should be provided on Form OP-UA47 and applicability determinations should be provided on Form OP-REQ3.

S. Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations

1. The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations.

Indicate "YES" if the application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations and the site is a major source as defined in 40 CFR § 63.2. Indicate "N/A" if the application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations and the site is not a major source. Otherwise, indicate "NO."

If the response to Question VIII.S.1 is "NO" or "N/A," applicability determinations for 40 CFR Part 63, Subpart JJ are not necessary in the permit application.40 CFR

Note: If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.

2. The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.

Indicate "YES" if the source is a major source primarily engaged in the manufacture of products other than wood furniture or wood furniture components and uses no more than 100 gallons of finish or adhesives in the manufacturing of furniture or furniture components. Otherwise indicate "NO."

If the responses to Questions VIII.S.1 and VIII.S.2 are both "YES," applicability determinations for40 CFR Part 63, Subpart JJ are not necessary in the permit application. If the response to Question VIII.S.1 is "YES" and the response to Question VIII.S.2 is "NO," unit attribute information should be provided on OP-UA18, Tables 10a-10c. Applicability determinations for40 CFR Part 63, Subpart JJ should be provided on OP-REQ3.

T. Subpart KK - National Emission Standards for the Printing and Publishing Industry

1. The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.

Indicate "YES" if the application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses and the site is a major source as defined in 40 CFR § 63.2. Indicate "N/A" if the application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses and the site is not a major source. Otherwise, indicate "NO."

If the response to Question VIII.T.1 is "NO," applicability determinations for 40 CFR Part 63, Subpart KK are not necessary in the permit application. If the response to Question VIII.T.1 is "YES," negative applicability determinations should be provided on Form OP-REQ2 or unit attribute

information should be provided on Form OP-UA22, Tables 2a-2c and applicability determinations for 40 CFR Part 63, Subpart KK should be provided on Form OP-REQ3.

U. Subpart PP - National Emission Standards for Containers

1. The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions.

Indicate "YES" or "NO."

Note: If the response to Question VIII.U.1 is "NO," go to Section VIII.V.

2. The application area includes containers using Container Level 1 controls.

Indicate "YES" or "NO."

Under 40 CFR § 63.922(b), a container using Container Level 1 controls is one of the following:

(a) A container that meets the applicable U.S. Department of Transportation (DOT) regulations on packaging hazardous materials for transportation as specified in 40 CFR § 63.922(f).
(b) A container equipped with a cover and closure devices that form a continuous barrier over the container openings such that when the cover and closure devices are secured in the closed position there are no visible holes, gaps, or other open spaces into the interior of the container. The cover may be a separate cover installed on the container (e.g., a lid on a drum, a suitably secured tarp on a roll-off box) or may be an integral part of the container structural design (e.g., a bulk cargo container equipped with a screw-type cap).
(c) An open-top container in which an organic vapor-suppressing barrier is placed on or over the regulated-material in the container such that no regulated-material is exposed to the atmosphere. One example of such a barrier is application of suitable organic vapor suppressing foam.

3. The application area includes containers using Container Level 2 controls.

Indicate "YES" or "NO."

Under 40 CFR § 63.923(b), a container using Container Level 2 controls is one of the following:

(a) A container that meets the applicable DOT regulations on packaging hazardous materials for transportation as specified in 40 CFR § 63.923(f).
(b) A container that has been demonstrated to operate with no detectable organic emissions as defined in 40 CFR § 63.921.
(c) A container that has been demonstrated within the preceding 12 months to be vapor-tight by using Method 27 in 40 CFR Part 60, Appendix A in accordance with the procedure specified in 40 CFR § 63.925(b).

Form OP-REQ1 (Page 56)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

U. Subpart PP - National Emission Standards for Containers (continued)

4. The application area includes containers using Container Level 3 controls.

Indicate "YES" or "NO."

Under 40 CFR § 63.924(b), a container using Container Level 3 controls is one of the following:

(a) A container that is vented directly through a closed-vent system to a control device in accordance with the requirements of 40 CFR § 63.924(c)(2).
(b) A container that is vented inside an enclosure which is exhausted through a closed vent system to a control device in accordance with the requirements of 40 CFR §§ 63.924(c)(1) and 63.924(2).

V. Subpart RR - National Emission Standards for Individual Drain Systems

1. The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.

Indicate "YES" or "NO."

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards

1. The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.

Indicate "YES" or "NO."

2. The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.

Indicate "YES" or "NO."

Note: If the response to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.

3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).

Indicate "YES" or "NO."

4. The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).

Indicate "YES" or "NO."

5. All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.

Indicate "YES" or "NO."

6. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.

Form OP-REQ1 (Page 57)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

7. The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.

Indicate "YES" or "NO."

8. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.

Indicate "YES" or "NO."

9. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.

10. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.

Indicate "YES" or "NO."

11. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

12. The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.

13. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.

Indicate "YES" or "NO."

14. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 58)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.

16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.

17. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.

Indicate "YES" or "NO."

18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 59)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.

Indicate "YES" or "NO."

20. The application area includes an ethylene production process unit.

Indicate "YES" or "NO," if the process unit is not subject to 40 CFR Part 63, Subparts F, G, H, I or CC. If the process unit is subject to 40 CFR Part 63, Subparts F, G, H, I or CC, indicate "N/A."

21. The application area includes waste streams generated from an ethylene production process unit.

Indicate "YES" or "NO," if the waste stream(s) are generated from a process unit is not subject to 40 CFR Part 63, Subparts F, G, H, I or CC. If the waste stream(s) are from a process unit is subject to 40 CFR Part 63, Subparts F, G, H, I or CC, indicate "N/A."

Note: If the response to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.

22. The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1).

Indicate "YES" or "NO."

The chemicals listed in 40 CFR § 63.1103(e), Table 7 (g)(1) are benzene, cumene, ethyl benzene, hexane, naphthalene, styrene, toluene, o-xylene, m-xylene, p-xylene, and 1, 3-butadiene.

Note: If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.

23. The waste stream(s) are transferred off-site for treatment.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.

24. The application area has waste management units that treat or manage waste streams prior to transfer off-site for treatment.

Note: If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.

Form OP-REQ1 (Page 60)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

25. The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).

Indicate "YES" or "NO."

26. The application area has at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.

27. The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.

28. The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.

29. The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.

Indicate "YES" or "NO."

30. The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.

31. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 61)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.32 is required, go to Question VIII.W.43.

33. The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.

34. The application area is using an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.

35. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for containers to comply with 40 CFR Part 63, Subpart YY.

36. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.

37. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.

Form OP-REQ1 (Page 62)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

38. The application area has individual drain systems complying with 40 CFR § 61.346(a).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.

39. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for individual drain systems to comply with 40 CFR Part 63, Subpart YY.

40. The application area has individual drain systems complying with 40 CFR § 61.346(b).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.

41. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.

Indicate "YES" or "NO."

42. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for individual drain systems to comply with 40 CFR Part 63, Subpart YY.

43. The application area has at least one waste stream that contains benzene.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.

44. The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.

45. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.

Form OP-REQ1 (Page 63)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

46. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for containers to comply with 40 CFR Part 63, Subpart YY.

47. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.

48. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.

49. The application area has individual drain systems complying with 40 CFR § 61.346(a).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.48 is "NO," go to Question VIII.W.51.

50. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for individual drain systems to comply with 40 CFR Part 63, Subpart YY.

51. The application area has individual drain systems complying with 40 CFR § 61.346(b).

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.

52. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 64)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

53. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.

Indicate "YES" or "NO."

Note: Complete Form OP-UA52 (Closed Vent System and Control Device Attributes) for each closed vent system and control device used for individual drain systems to comply with 40 CFR Part 63, Subpart YY.

54. The application area contains a cyanide chemicals manufacturing process.

Indicate "YES" or "NO."

Note: If the response to Question VIII.W.54 is "NO," go to Section VIII.X.

55. The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.

Indicate "YES" or "NO."

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins

1. The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ.

Indicate "YES" or "NO."

Note: If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.

2. The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units.

Indicate "YES" or "NO."

Please refer to 40 CFR § 63.1312 for the definition of an thermoplastic product process unit.

Note: If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.

3. All process wastewater streams generated or managed in the application area are from sources producing polystyrene.

Indicate "YES" or "NO."

Note: If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.

4. All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN.

Indicate "YES" or "NO."

Note: If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.

Form OP-REQ1 (Page 65)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

5. The application area includes process wastewater streams, located at new sources, that are designated as Group 1 or are determined to be Group 1 for organic HAP as defined in 40 CFR § 63.1312.

Indicate "YES" or "NO."

The definition of organic HAP in 40 CFR § 63.1312 reads as "one or more of the chemicals listed in Table 6 of this subpart or any other chemical which:

(a) Is knowingly produced or introduced into the manufacturing process other than as an impurity; and
(b) Is listed in Table 2 of subpart F of this part."

6. The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAP as defined in 40 CFR § 63.1312.

Indicate "YES" or "NO."

7. **The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAP as defined in 40 CFR § 63.1312.**

   Indicate "YES" or "NO."

8. **All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.

9. **The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.

10. **The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.**

    Indicate "YES" or "NO."

11. **Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.**

    Indicate "YES" or "NO."

12. **Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.X.11 and X.12 are both "NO," go to Question VIII.X.14.

Form OP-REQ1 (Page 66)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

13. **The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.**

    Indicate "YES" or "NO."

Containers

14. **The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.**

    Indicate "YES" or "NO."

Drains

15. The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.

16. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.

Indicate "YES" or "NO."

17. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.

Indicate "YES" or "NO."

18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a thermoplastic product process unit.

Indicate "YES" or "NO."

Note: If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.

Form OP-REQ1 (Page 67)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

Drains (continued)

19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12).

Indicate "YES" if the application area includes equipment that meets all of the following:

(a) is controlled less stringently than the requirements in Table 35 of 40 CFR 63 Subpart G;
(b) is not listed in 40 CFR § 63.1310(c); and
(c) and is not otherwise exempt from controls by the provisions of 40 CFR Part 63, Subparts A, F, G, H or JJJ.

Otherwise, indicate "NO."

Note: If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.

20. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate.

Indicate "YES" or "NO."

21. **The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute.**

    Indicate "YES" or "NO."

22. **The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute.**

    Indicate "YES" or "NO."

Form OP-REQ1 (Page 68)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

Y. Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units

1. **The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.**

   Indicate "YES" or "NO."

Z. Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills

♦ 1. **The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.**

   Indicate "YES" or "NO."

   GOP 517 applicants must provide unit attribute information on Form OP-UA44, Tables 5a-5c to demonstrate positive or negative applicability to 40 CFR Part 63, Subpart AAAA.

   If the response to Question VIII.Z.1 is "NO," applicability determinations for 40 CFR Part 63, Subpart AAAA are not necessary in the permit application for SOP applications. If the response to Question VIII.Z.1 is "YES," SOP applicants should provide negative applicability determinations on Form OP-REQ2 or unit attribute information on Form OP-UA44, Tables 5a-5c and applicability determinations for 40 CFR Part 63, Subpart AAAA should be provided on Form OP-REQ3.

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)

1. **The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).**

   Indicate "YES" or "NO."

2. **The application area is located at a plant site that is a major source as defined in FCAA § 112(a).**

   Indicate "YES" or "NO."

3. **The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP.**

   Indicate "YES" or "NO."

   If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," applicability determinations for 40 CFR Part 63, Subpart FFFF are not necessary in the permit application. If the responses to Questions VIII.AA.1, AA.2 and AA.3 are all "YES," additional attribute information and applicability determinations for 40 CFR Part 63, Subpart FFFF are necessary in the permit application.

   Note: If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.

4. **The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF.**

   Indicate "YES" or "NO."

   If the response to Question VIII.AA.4 is "NO," applicability determinations for 40 CFR Part 63, Subpart FFFF are not necessary in the permit application. If the response to Question VIII.AA.4 is "YES," then additional attribute information and applicability determinations for 40 CFR Part 63, Subpart FFFF are necessary in the permit application.

Note: If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB. Form OP-REQ1 (Page 69)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

5. **The application area includes process wastewater streams.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.22.

6. **The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9 of 40 CFR Part 63, Subpart FFFF, as appropriate.**

   Indicate "YES" or "NO."

7. **The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9 of 40 CFR Part 63, Subpart FFFF, as appropriate.**

   Indicate "YES" or "NO."

8. **All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.AA.8 is "YES," go to Section VIII.AA.22.

9. **The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.**

   Indicate "YES" or "NO."

   Note: If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.

10. **The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.**

    Indicate "YES" or "NO."

11. **Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.**

    Indicate "YES" or "NO."

12. **Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.**

    Indicate "YES" or "NO."

    Note: If the response to Question VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.

Form OP-REQ1 (Page 70)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

13. **Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h).**

    Indicate "YES' or "NO."

    Note: If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.

14. **The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.**

    Indicate "YES" or "NO."

15. **Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite.**

    Indicate "YES" or "NO."

Note: If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.

16. The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.

Indicate "YES" or "NO."

17. The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.

Indicate "YES" or "NO."

18. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

19. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream.

Indicate "YES" or "NO."

Note: If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.

20. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 71)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

21. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.

Indicate "YES" or "NO."

22. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b).

Indicate "YES" or "NO."

Note: If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.

23. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d).

Indicate "YES" if the application area includes equipment that meets all of the following:

(a) is controlled less stringently than the requirements in Table 35 of 40 CFR 63 Subpart G;

(b) is not listed in 40 CFR § 63.100(f); and
(c) and is not otherwise exempt from controls by the provisions of 40 CFR Part 63, Subparts A, F, G, H or FFFF.

Otherwise, indicate "NO."

Note: If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.

24. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.

Indicate "YES" or "NO."

25. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.

Indicate "YES" or "NO."

26. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 72)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

1. The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.

Indicate "YES" or "NO."

CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation

1. The application area includes a facility at which a site remediation is conducted.

Indicate "YES" or "NO."

Note: If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.

2. **The application area is located at a site that is a major source of HAP.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.

3. **All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6).**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.

4. **Prior to beginning site remediation activities, it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr.**

   Indicate "YES" or "NO."

   Question VIII.CC.4 relates to the exemption under 40 CFR § 63.7881(c)(1). The exemption applies on a site-wide basis and the 1 Mg/yr limit applies to all site remediations during the time period.

   Note: If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.

5. **The site remediation will be completed within 30 consecutive calendar days.**

   Indicate "YES" or "NO."

6. **No site remediation will exceed 30 consecutive calendar days.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.

7. **Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.**

   Indicate "YES" or "NO."

8. **All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.

Form OP-REQ1 (Page 73)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)

9. **The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG.**

   Indicate "YES" or "NO."

Note: If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.

10. The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).

Indicate "YES" or "NO."

Under 40 CFR § 63.922(b), a container using Container Level 1 controls is one of the following:

(a) A container that meets the applicable U.S. Department of Transportation (DOT) regulations on packaging hazardous materials for transportation as specified in 40 CFR § 63.922(f).
(b) A container equipped with a cover and closure devices that form a continuous barrier over the container openings such that when the cover and closure devices are secured in the closed position there are no visible holes, gaps, or other open spaces into the interior of the container. The cover may be a separate cover installed on the container (e.g., a lid on a drum, a suitably secured tarp on a roll-off box) or may be an integral part of the container structural design (e.g., a bulk cargo container equipped with a screw-type cap).
(c) An open-top container in which an organic vapor-suppressing barrier is placed on or over the regulated-material in the container such that no regulated-material is exposed to the atmosphere. One example of such a barrier is application of suitable organic vapor suppressing foam.

11. The application area includes containers with a capacity greater than 0.46 m3 that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).

Indicate "YES" or "NO."

Under 40 CFR § 63.7900(b)(3)(i) and (ii), the vapor pressure of every organic constituent in the remediation material must be less than 0.3 kPa at 20°C; or the total concentration of the pure organic constituents having a vapor pressure greater than 0.3 kPa at 20°C must be less that 20 percent by weight.

12. The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).

Indicate "YES" or "NO."

Under 40 CFR § 63.923(b), a container using Container Level 2 controls is one of the following:

(a) A container that meets the applicable DOT regulations on packaging hazardous materials for transportation as specified in 40 CFR § 63.923(f).
(b) A container that has been demonstrated to operate with no detectable organic emissions as defined in 40 CFR § 63.921.
(c) A container that has been demonstrated within the preceding 12 months to be vapor-tight by using Method 27 in 40 CFR Part 60, Appendix A in accordance with the procedure specified in 40 CFR § 63.925(b).

13. The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).

Indicate "YES" or "NO."

Under 40 CFR § 63.924(b), a container using Container Level 3 controls is one of the following:

(a) A container that is vented directly through a closed-vent system to a control device in accordance with the requirements of 40 CFR § 63.924(c)(2).
(b) A container that is vented inside an enclosure which is exhausted through a closed-vent system to a control device in accordance with the requirements of 40 CFR §§ 63.924(c)(1) and 63.924(2).

If the answer to Question VIII.CC.13 is "YES," the applicant should address closed vent systems and control devices used to control emissions from containers on Form OP-SUM.

14. The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.

Indicate "YES" or "NO."

If the answer to Questions VIII.CC.7 and VIII.CC.14, are both "NO," the applicant may need to address other units that may have applicability under 40 CFR Part 63, Subpart GGGGG. Units that may need to be addressed on Form OP-SUM include process vents, tanks, surface impoundments, oil/organic-water separators, transfer systems (other than individual drain systems), equipment leaks (fugitive emissions), closed vent systems and control devices used to control emissions from containers and closed vent systems and control devices used to control emissions from individual drain systems.

DD. Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities

1. The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions.

Indicate "YES" or "NO."

Note: If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.

2. The EAF steelmaking facility is a research and development facility.

Indicate "YES" or "NO."

Note: If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.

3. Metallic scrap is utilized in the EAF.

Indicate "YES" or "NO."

4. Scrap containing motor vehicle scrap is utilized in the EAF.

Indicate "YES" or "NO."

5. Scrap not containing motor vehicle scrap is utilized in the EAF.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 74)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities

1. The application area is located at a site that is an area source of hazardous air pollutants.

Indicate "YES" or "NO."

Note: If the answer to Question EE.1 is "NO," go to Section VIII.FF.

Title 40 CFR Part 63, Subpart A defines a major source as any stationary source or group of stationary sources located within a contiguous area and under common control that has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants. An area source is defined as any stationary source of hazardous air pollutants that is not a major source.

2. **The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.**

   Indicate "YES" or "NO."

3. **The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.**

   Indicate "YES" or "NO."

4. **The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.

5. **The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).**

   Indicate "YES" or "NO."

   Title 40 CFR § 63.11086(a) requires submerged fill loading of all cargo tanks at the facility and all storage tanks other than tanks with a capacity of less than 250 gallons or tanks subject to 40 CFR Part 63, Subpart CCCCCC. Submerged fill pipes installed on or before November 9, 2006 must be no more than 12 inches from the bottom of the tank. Submerged fill pipes installed after November 9, 2006 must be no more than 6 inches from the bottom of the tank.

6. **The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.

7. **The bulk gasoline terminal has a throughput of less than 250,000 gallons per day.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.

8. **The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.**

   Indicate "YES" or "NO."

9. **The bulk gasoline terminal loads gasoline into railcar cargo tanks.**

   Indicate "YES" or "NO."

   Note: If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.

10. The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 75)

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities (continued)

11. The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, or tribal rule or permit.

Indicate "YES" or "NO."

FF. Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

♦ **1. The application area is located at a site that is an area source of hazardous air pollutants.**

Indicate "YES" or "NO."

Note: If the answer to Question FF.1 is "NO," go to Section VIII.GG.

Title 40 CFR Part 63, Subpart A defines a major source as any stationary source or group of stationary sources located within a contiguous area and under common control that has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants. An area source is defined as any stationary source of hazardous air pollutants that is not a major source.

♦ **2. The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132.**

Indicate "YES" or "NO."

Note: If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.

♦ **3. The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.**

Indicate "YES" or "NO."

♦ **4. The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.**

Indicate "YES" or "NO."

GG. Recently Promulgated 40 CFR Part 63 Subparts

♦ **1. The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form.**

Indicate "YES" or "NO."

If the response to Question VIII.GG.1 is "NO," go to Section IX.

A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions below.

♦ **2. Provide the Subpart designation (i.e. Subpart EEE) in the space provided below.**

Table of Promulgated 40 CFR Part 63 Subparts Not Addressed on OP-REQ1

Subpart Designation	Subpart Descriptive Title
Subpart CCC	National Emission Standards for Hazardous Air Pollutants for Steel Pickling
Subpart DDD	National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production
Subpart EEE	National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors
Subpart GGG	National Emission Standards for Hazardous Air Pollutants for Pharmaceuticals Production
Subpart HHH	National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities
Subpart III	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production
Subpart LLL	National Emission Standards for Hazardous Air Pollutants for Portland Cement Manufacturing Industry
Subpart MMM	National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production
Subpart NNN	National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing
Subpart OOO	National Emission Standards for Hazardous Air Pollutants: Manufacture of Amino/Phenolic Resins
Subpart PPP	National Emission Standards for Hazardous Air Pollutants for Polyether Polyols Production
Subpart QQQ	National Emission Standards for Hazardous Air Pollutants for Primary Copper
Subpart RRR	National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Subpart TTT	National Emission Standards for Hazardous Air Pollutants for Primary Lead Smelting
Subpart VVV	National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works
Subpart XXX	National Emission Standards for Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese
Subpart CCCC	National Emission Standards for Hazardous Air Pollutants: Manufacturing of Nutritional Yeast
Subpart DDDD	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products
Subpart EEEE	National Emission Standards for Hazardous Air Pollutants for Organics Liquids Distribution

Subpart Designation	Subpart Descriptive Title
Subpart HHHH	National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production
Subpart IIII	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks
Subpart JJJJ	National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating
Subpart KKKK	National Emission Standards for Hazardous Air Pollutants for Surface Coating of Metal Cans
Subpart MMMM	National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products
Subpart NNNN	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances
Subpart OOOO	National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles
Subpart PPPP	National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts
Subpart QQQQ	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products
Subpart RRRR	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture
Subpart SSSS	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Coil
Subpart TTTT	National Emission Standards for Hazardous Air Pollutants for Leather Finishing Operations
Subpart UUUU	National Emission Standards for Hazardous Air Pollutants: Cellulose Products Manufacturing
Subpart VVVV	National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing
Subpart WWWW	National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production
Subpart XXXX	National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing
Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Combustion Turbines
Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines
Subpart AAAAA	National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing
Subpart BBBBB	National Emission Standards for Hazardous Air Pollutants for Semiconductor Manufacturing
Subpart CCCCC	National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks
Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters
Subpart EEEEE	National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries
Subpart FFFFF	National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing
Subpart HHHHH	National Emission Standards for Hazardous Air Pollutants for Miscellaneous Coating Manufacturing

Subpart Designation	Subpart Descriptive Title
Subpart IIIII	National Emission Standards for Hazardous Air Pollutants for Mercury Cell Chlor-Alkali Plants
Subpart LLLLL	National Emission Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing
Subpart MMMMM	National Emission Standards for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations
Subpart NNNNN	National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production
Subpart PPPPP	National Emission Standards for Hazardous Air Pollutants: Engine Test Cells/Stands
Subpart QQQQQ	National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities
Subpart RRRRR	National Emission Standards for Hazardous Air Pollutants for Taconite Ore Processing
Subpart SSSSS	National Emission Standards for Hazardous Air Pollutants for Refractory Products Manufacturing
Subpart TTTTT	National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining
Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Subpart WWWWW	National Emission Standards for Hospital Ethylene Oxide Sterilizers
Subpart ZZZZZ	National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources
Subpart DDDDDD	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources
Subpart EEEEEE	National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources
Subpart FFFFFF	National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources
Subpart GGGGGG	National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources
Subpart HHHHHH	National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources
Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
Subpart LLLLLL	National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources
Subpart MMMMMM	National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources
Subpart NNNNNN	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Areas Sources: Chromium Compounds
Subpart OOOOOO	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources

Subpart Designation	Subpart Descriptive Title
Subpart PPPPPP	National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources
Subpart QQQQQQ	National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources
Subpart RRRRRR	National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources
Subpart SSSSSS	National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
Subpart TTTTTT	National Emission Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing
Subpart VVVVVV	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources
Subpart WWWWWW	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations
Subpart XXXXXX	National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories
Subpart YYYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities
Subpart ZZZZZZ	National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries
Subpart AAAAAAA	National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing
Subpart BBBBBBB	National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry
Subpart CCCCCCC	National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing
Subpart DDDDDDD	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Prepared Feeds Manufacturing
Subpart EEEEEEE	National Emission Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category
Subpart HHHHHHH	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production

Form OP-REQ1 (Page 76)

IX. Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions

A. Applicability

♦ **1. The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.**

Indicate "YES" or "NO."

For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the applicant shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The applicant shall submit to the appropriate agency, either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under 30 TAC § 122.146, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan. Currently, the requirements of 40 CFR Part 68 are enforceable only by the EPA Administrator.

X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone

A. Subpart A - Production and Consumption Controls

♦ **1. The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR § 82.3 for the definitions of controlled substance and controlled product. Applicability determinations for 40 CFR Part 82, Subpart A are not necessary in any other portion of the permit application.

B. Subpart B - Servicing of Motor Vehicle Air Conditioners

♦ **1. Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.**

Indicate "YES" or "NO."

Please refer to 40 CFR Part 82, Subpart B (Servicing of Motor Vehicle Air Conditioners) for additional information. Applicability determinations for 40 CFR Part 82, Subpart B are not necessary in any other portion of the permit application.

C. Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances

♦ **1. The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR §§ 82.66 and 82.70 for a complete listing of nonessential products subject to this subpart. Applicability determinations for 40 CFR Part 82, Subpart C are not necessary in any other portion of the permit application.

D. Subpart D - Federal Procurement

♦ **1. The application area is owned/operated by a department, agency, or instrumentality of the United States.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR Part 82, Subpart D (Federal Procurement), for additional information. Applicability determinations for 40 CFR Part 82, Subpart D are not necessary in any other portion of the permit application.

E. Subpart E - The Labeling of Products Using Ozone Depleting Substances

♦ **1. The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR § 82.104 for the definitions of Class I substance, Class II substance, and ultimate consumer.

♦ **2. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

♦ **3. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR Part 82, Subpart E, for additional information. Applicability determinations for 40 CFR Part 82, Subpart E are not necessary in any other portion of the permit application.

Form OP-REQ1 (Page 77)

X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)

F. Subpart F - Recycling and Emissions Reduction

♦ **1. Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.**

Indicate "YES" or "NO."

Please refer to 40 CFR Part 82, Subpart F (Recycling and Emissions Reduction) for additional information.

♦ **2. Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitutes reclamation occurs in the application area.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

For the purpose of this subpart, the following definitions apply:

Appliance means any device which contains and uses a Class I or Class II substance as a refrigerant and is used for household or commercial purposes, including any air conditioner, refrigerant, chiller, or freezer.

Disposal means the process leading to and including:

(a) The discharge, deposit, dumping, or placing of any discarded appliance into or on any land or water;
(b) The disassembly of any appliance for discharge, deposit, dumping, or placing of its discarded component parts into or on any land or water; or
(c) The disassembly of any appliance for reuse of its component parts.

♦ **3. The application area manufactures appliances or refrigerant recycling and recovery equipment.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR Part 82, Subpart F (Recycling and Emissions Reduction) for additional information. Applicability determinations for 40 CFR Part 82, Subpart F are not necessary in any other portion of the permit application.

G. Subpart G - Significant New Alternative Policy Program

♦ **1. The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Note: If the response to Question X.G.1 is "NO" or "N/A," go to Section X.H.

♦ **2. All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR Part 82, Subpart G (Significant New Alternatives Policy Program) for additional information. Applicability determinations for 40 CFR Part 82, Subpart G are not necessary in any other portion of the permit application.

H. Subpart H - Halon Emissions Reduction

♦ **1. Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

♦ **2. Disposal of halons or manufacturing of halon blends is conducted in the application area.**

For SOP applications and for GOP applications for GOP 517, indicate "YES" or "NO." Otherwise, indicate "N/A."

Please refer to 40 CFR Part 82, Subpart H (Halon Emissions Reduction) for additional information. Applicability determinations for 40 CFR Part 82, Subpart H are not necessary in any other portion of the permit application.

XI. Miscellaneous

A. Requirements Reference Tables (RRT) and Flowcharts

1. The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.

Indicate "YES" or "NO."

Note: Due to a limited number of sources in Texas that are subject to certain regulations, the TCEQ will not be developing RRT and flowcharts for those regulations. Please refer to the webpage www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. Superscript notations under the link for each Federal Part (i.e., 40 CFR Part 60) and Title 30 of the Texas Administrative Code designate which subparts or divisions will not have RRT developed.

Form OP-REQ1 (Page 78)

XI. Miscellaneous (continued)

B. Forms

♦ **1. The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form.**

For SOP applications and GOP applications, indicate "YES" or "NO." Otherwise, indicate "N/A."

Note: If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.

♦ **2. Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter and Division designation for the State regulation(s) in the space below.**

Table of 40 CFR Part 60 Subparts for which APD has not developed Unit Attribute Forms

Subpart Designation	Subpart Descriptive Title
Subpart Ea	Standards of Performance for Municipal Waste Combustors for which Construction is Commenced after December 20, 1989 and on or before September 20, 1994
Subpart Eb	Standards of Performance for Municipal Waste Combustors for which Construction is Commenced after September 20, 1994
Subpart Ec	Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for which Construction is Commenced after June 20, 1996
Subpart P	Standards of Performance for Primary Copper Smelters
Subpart S	Standards of Performance for Primary Aluminum Reduction Plants
Subpart NN	Standards of Performance for Phosphate Rock Plants
Subpart BBB	Standards of Performance for the Rubber Tire Manufacturing Industry
Subpart SSS	Standards of Performance for Magnetic Tape Coating Facilities
Subpart VVV	Standards of Performance for Polymeric coating of Supporting Substrates Facilities
Subpart AAAA	Standards of Performance for Small Municipal Waste Combustion Units for which Construction is Commenced after August 30, 1999 or for which Modification or Reconstruction is Commenced after June 6, 2001
Subpart CCCC	Standards of Performance for Commercial and Industrial Solid Waste Combustion Units for which Construction is Commenced after November 30, 1999 or for which Modification or Reconstruction is Commenced after June 1, 2001
Subpart EEEE	Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 2006
Subpart LLLL	Standards of Performance for New Sewage Sludge Incineration Units

Table of 40 CFR Part 61 Subparts for which APD has not developed Unit Attribute Forms

Subpart Designation	Subpart Descriptive Title
Subpart B	National Emission Standards for Radon Emissions from Underground Uranium Mines
Subpart D	National Emission Standards for Beryllium Rocket Motor Firing
Subpart H	National Emission Standards for Emissions of Radionuclides Other than Radon from Department of Energy Facilities
Subpart I	National Emission Standards for Radionuclide Emissions from Facilities Licensed by the Nuclear regulatory Commission and Federal Facilities Not covered by Subpart H
Subpart N	National Emission Standards for Inorganic Arsenic Emissions from Glass Manufacturing Plants
Subpart Q	National Emission Standards for Radon Emissions from Department of Energy Facilities
Subpart R	National Emission Standards for Radon Emissions from Phosphogypsum Stacks
Subpart T	National Emission Standards for Radon Emissions from the Disposal of Uranium Mill Tailings
Subpart W	National Emission Standards for Radon Emissions from Operating Mill Tailings

Table of 40 CFR Part 63 Subparts for which APD has not developed Unit Attribute Forms

Subpart Designation	Subpart Descriptive Title
Subpart L	National Emission Standards for Coke Oven Batteries
Subpart AA	National Emission Standards for Hazardous Air Pollutants from Phosphoric Acid Manufacturing Plants
Subpart BB	National Emission Standards for Hazardous Air Pollutants from Phosphate Fertilizers Production Facilities
Subpart YY	National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards
Subpart CCC	National Emission Standards for Hazardous Air Pollutants for Steel Pickling
Subpart DDD	National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production
Subpart GGG	National Emission Standards for Hazardous Air Pollutants for Pharmaceuticals Production
Subpart HHH	National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities
Subpart III	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production
Subpart MMM	National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production
Subpart NNN	National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing
Subpart OOO	National Emission Standards for Hazardous Air Pollutants: Manufacture of Amino/Phenolic Resins
Subpart PPP	National Emission Standards for Hazardous Air Pollutants for Polyether Polyols Production
Subpart QQQ	National Emission Standards for Hazardous Air Pollutants for Primary Copper
Subpart RRR	National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Subpart TTT	National Emission Standards for Hazardous Air Pollutants for Primary Lead Smelting
Subpart VVV	National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works
Subpart XXX	National Emission Standards for Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese
Subpart CCCC	National Emission Standards for Hazardous Air Pollutants: Manufacturing of Nutritional Yeast
Subpart DDDD	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products
Subpart EEEE	National Emission Standards for Hazardous Air Pollutants for Organics Liquids Distribution
Subpart FFFF	National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)
Subpart HHHH	National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production
Subpart IIII	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks

Subpart Designation	Subpart Descriptive Title
Subpart JJJJ	National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating
Subpart KKKK	National Emission Standards for Hazardous Air Pollutants for Surface Coating of Metal Cans
Subpart MMMM	National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products
Subpart NNNN	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances
Subpart OOOO	National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles
Subpart QQQQ	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products
Subpart RRRR	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture
Subpart SSSS	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Coil
Subpart TTTT	National Emission Standards for Hazardous Air Pollutants for Leather Finishing Operations
Subpart UUUU	National Emission Standards for Hazardous Air Pollutants: Cellulose Products Manufacturing
Subpart VVVV	National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing
Subpart WWWW	National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production
Subpart XXXX	National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing
Subpart AAAAA	National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing
Subpart BBBBB	National Emission Standards for Hazardous Air Pollutants for Semiconductor Manufacturing
Subpart CCCCC	National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks
Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters
Subpart EEEEE	National Emission Standards for Hazardous Air Pollutants for Iron Foundries
Subpart FFFFF	National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing
Subpart GGGGG	National Emission Standards for Hazardous Air Pollutants: Site Remediation
Subpart HHHHH	National Emission Standards for Hazardous Air Pollutants for Miscellaneous Coating Manufacturing
Subpart IIIII	National Emission Standards for Hazardous Air Pollutants for Mercury Cell Chlor Alkali Plants
Subpart LLLLL	National Emission Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing
Subpart MMMMM	National Emission Standards for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations
Subpart NNNNN	National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production
Subpart PPPPP	National Emission Standards for Hazardous Air Pollutants: Engine Test Cells/Stands

Subpart Designation	Subpart Descriptive Title
Subpart QQQQQ	National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities
Subpart RRRRR	National Emission Standards for Hazardous Air Pollutants for Taconite Ore Processing
Subpart SSSSS	National Emission Standards for Hazardous Air Pollutants for Refractory Products Manufacturing
Subpart TTTTT	National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining
Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Subpart WWWWW	National Emission Standards for Hospital Ethylene Oxide Sterilizers
Subpart YYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities
Subpart ZZZZZ	National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources
Subpart BBBBBB	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities
Subpart DDDDDD	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources
Subpart EEEEEE	National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources
Subpart FFFFFF	National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources
Subpart GGGGGG	National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources
Subpart HHHHHH	National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources
Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
Subpart LLLLLL	National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources
Subpart MMMMMM	National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources
Subpart NNNNNN	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Areas Sources: Chromium Compounds
Subpart OOOOOO	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources
Subpart PPPPPP	National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources
Subpart QQQQQQ	National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources

Subpart Designation	Subpart Descriptive Title
Subpart RRRRRR	National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources
Subpart SSSSSS	National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
Subpart TTTTTT	National Emission Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing
Subpart VVVVVV	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources
Subpart WWWWWW	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations
Subpart XXXXXX	National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories
Subpart YYYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities
Subpart ZZZZZZ	National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries
Subpart AAAAAAA	National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing
Subpart BBBBBBB	National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry
Subpart CCCCCCC	National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing
Subpart DDDDDDD	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Prepared Feeds Manufacturing
Subpart EEEEEEE	National Emission Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category
Subpart HHHHHHH	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production

C. Emission Limitation Certifications

♦ **1. The application area includes units for which federally enforceable emission limitations have been established by certification.**

Indicate "YES" if the application area contains units that have established federally enforceable emission limitations through the use of certification forms.

Otherwise, indicate "NO."

Forms that may have been used to establish federally enforceable emission limitations include the following: Form APD-CERT, Form PI-7CERT, and Form PI 8. Emission limitations may have been established by certification for units claiming permits-by-rule, units authorized by Standard Permit and possibly others.

D. Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements

1. The application area is located at a site that is subject to a site-specific requirement of the state implementation plan (SIP).

Indicate "YES" or "NO."

Examples of site-specific requirements of the SIP include: the alternate emission reduction ("bubble") policy (30 TAC § 101.23), an alternate methods of control [e.g., 30 TAC § 115.423(2)], an alternate reasonably achievable control technology [e.g., 30 TAC § 115.423(4)], or certain exemptions [e.g., 30 TAC § 115.427(3)(B)]. Site-specific requirements are approved by the TCEQ, through rulemaking, and are approved as a SIP revision by the EPA, as necessary, to assure compliance with the National Ambient Air Quality Standards. These types of requirements must have the required approval from the TCEQ executive director before the FOP application is submitted.

2. The application area includes units located at the site that is subject to a site-specific requirement of the SIP.

Indicate "YES" or "NO."

3. The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator.

Indicate "YES" or "NO."

If the response to QuestionXI.D.3 is "YES," please include a copy of the approval document with the application. These approval documents are required for inclusion in the Title V permit as attachments.

Note: These types of requirements must have the required approval from the EPA Administrator before the FOP application is submitted.

4. The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director.

Indicate "YES" or "NO."

If the response to QuestionXI.D.4 is "YES," please include a copy of the approval document with the application. These approval documents are required for inclusion in the Title V permit as attachments.

Form OP-REQ1 (Page 79)

XI. Miscellaneous (continued)

E. Title IV - Acid Rain Program

1. The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-in Program.

Indicate "YES" or "NO."

If the response to Question XI.E.1 is "YES," submit the appropriate forms for an acid rain permit, if not already submitted. Applications for acid rain permits for opt-in sources to the ARP shall be submitted in accordance with 40 CFR Part 74.

The Opt-in Program allows stationary combustion sources not required to participate in the ARP the opportunity to enter the program on a voluntary basis, reduce their sulfur dioxide (SO_2) emissions, and receive their own acid rain allowances. Combustion sources are defined as fossil fuel-fired boilers, turbines, or internal combustion engines. An opt-in source must comply with the same or similar provisions as utility units affected under the mandatory ARP. These provisions relate to allowance trading, permitting, excess emissions, monitoring, end-of-year compliance, and enforcement. Most basic to the program is the requirement that each year the opt-in source must hold enough allowances to cover its annual SO_2 emissions. For additional information, please refer to 40 CFR Part 74.

2. **The application area includes emission units that qualify for the new unit exemption in 40 CFR § 72.7.**

   Indicate "YES" or "NO."

3. **The application area includes emission units that qualify for the retired unit exemption in 40 CFR § 72.8.**

   Indicate "YES" or "NO."

F. 40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_X Ozone Season Group 2 Trading Program

1. **The application area includes emission units subject to the requirements of the CSAPR NO_X Ozone Season Group 2 Trading Program.**

   Indicate "YES" or "NO."

   If the response to Question XI.F.1 is "YES," the applicant should address these units in the application on Form OP-SUM.

   Note: If the response to Question XI.F.1 is "NO," go to Question XI.F.7.

2. **The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X and heat input.**

   Indicate "YES" or "NO."

3. **The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X, and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.**

   Indicate "YES" or "NO."

4. **The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO_X, and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.**

   Indicate "YES" or "NO."

5. **The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO_X and heat input.**

   Indicate "YES" or "NO."

6. **The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO_X and heat input.**

   Indicate "YES" or "NO."

7. **The application area includes emission units that qualify for the CSAPR NO_X Ozone Season Group 2 retired unit exemption.**

   Indicate "YES" or "NO."

   If the response to Question XI.F.7 is "YES," the applicant should address these units in the application on Form OP-SUM. For additional information regarding the CSAPR NO_X Ozone Season Group 2 retired unit exemptions, please refer to 40 CFR § 97.805.

Form OP-REQ1 (Page 80)

XI. Miscellaneous (continued)

G. 40 CFR Part 97, Subpart FFFFF - Texas SO_2 Trading Program

1. **The application area includes emission units complying with the requirements of the Texas SO_2 Trading Program.**

   Indicate "YES" or "NO."

   If the response to Question XI.G.1 is "YES," the applicant should address these units in the application on Form OP-SUM.

   Note: If the response to Question XI.G.1 is "NO," go to Question XI.G.6.

2. **The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO_2 and 40 CFR Part 75, Subpart H for heat input.**

   Indicate "YES" or "NO."

3. **The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO_2 and heat input.**

   Indicate "YES" or "NO."

4. **The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO_2 and heat input.**

   Indicate "YES" or "NO."

5. **The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO_2 and heat input.**

   Indicate "YES" or "NO."

6. **The application area includes emission units that qualify for the Texas SO_2 Trading Program retired unit exemption.**

   Indicate "YES" or "NO."

   If the response to Question XI.G.6 is "YES," the applicant should address these units in the application on Form OP-SUM.

   For additional information regarding the Texas SO_2 Trading Program retired unit exemption, please refer to 40 CFR § 97.905.

H. Permit Shield (SOP Applicants Only)

1. A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.

Indicate "YES" or "NO."

Permit Shield for overlapping requirements: some rules have provided compliance relief instructions for sources subject to more than rule for a given type of unit and pollutant. These overlapping requirements may be shielded in a manner similar to that provided by 30 TAC § 122.148(c)(1)(B). Units must be specified by ID number when qualifying for the overlapping requirement permit shield.

Form OP-REQ1 (Page 81)

XI. Miscellaneous (continued)

I. GOP Type - (Complete this section for GOP applications only.)

♦ **1. The application area is applying for initial issuance, revision, or renewal of an oil and gas GOP under 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise counties.**

Indicate "YES" or "NO."

♦ **2. The application area is applying for initial issuance, revision, or renewal of an oil and gas GOP under 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria counties.**

Indicate "YES" or "NO."

♦ **3. The application area is applying for initial issuance, revision, or renewal of an oil and gas GOP under 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis counties.**

Indicate "YES" or "NO."

♦ **4. The application area is applying for initial issuance, revision, or renewal of an oil and gas GOP under 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise counties.**

Indicate "YES" or "NO."

♦ **5. The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under 517 - Municipal Solid Waste Landfill general operating permit.**

Indicate "YES" or "NO."

J. Title 30 TAC Chapter 101, Subchapter H

♦ **1. The application area is located in a nonattainment area.**

Indicate "YES" if the application area is within any nonattainment area in Texas: Houston/Galveston/Brazoria or Dallas/ Fort Worth. Otherwise, indicate "NO."

Note: If the response to Question XI.J.1 is "NO," go to Question XI.J.3.

♦ **2. The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.**

Indicate "YES" if you currently participate or plan to participate in the TCEQ Emissions Banking and Trading Program for any activity involved in the generation and registration of emission reductions towards a credit to be banked in the TCEQ database. Otherwise, indicate "NO."

♦ **3. The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.**

Indicate "YES" if you currently participate or plan to participate in the TCEQ Emissions Banking and Trading Program for any activity involved in the generation and registration of discrete emission reductions towards a credit to be banked in the TCEQ database. Otherwise, indicate "NO."

Form OP-REQ1 (Page 82)

XI. Miscellaneous (continued)

J. Title 30 TAC Chapter 101, Subchapter H

♦ **4. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO_X.**

Indicate "YES" or "NO."

The Houston/Galveston/Brazoria nonattainment area includes Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties.

5. The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.

Indicate "YES" or "NO."

♦ **6. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, and the site has a potential to emit more than 10 tpy of highly reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.**

Indicate "YES" or "NO."

The facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2 are:

(a) controlled or uncontrolled vent gas streams containing HRVOC
(b) flares emitting or having the potential to emit HRVOC
(c) cooling tower heat exchange systems emitting or having the potential to emit HRVOC

♦ **7. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities, and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.**

Indicate "YES" or "NO."

K. Periodic Monitoring

♦ **1. The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.**

Indicate "YES" if this application contains a Form OP-MON to address a requirement with insufficient monitoring. Otherwise indicate "NO."

♦ **2. The permit currently contains at least one periodic monitoring requirement.**

Indicate "YES" if the permit currently contains at least one periodic monitoring requirement included based on a previously submitted Form OP-MON to address a requirement with insufficient monitoring. Otherwise, indicate "NO."

Note: If the response to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.

♦ **3. All periodic monitoring requirements are being removed from the permit with this application.**

Indicate "YES" if the permit currently contains at least one periodic monitoring requirement and all requirements addressed by the periodic monitoring have been determined to now contain sufficient monitoring. Otherwise, indicate "NO."

Title 30 TAC Chapter 122 §122.142(c) requires periodic monitoring as requested by the executive director. During the review process, permit reviewing staff may identify requirements with insufficient monitoring to assure compliance.

Form OP-REQ1 (Page 83)

XI. Miscellaneous (continued)

L. Compliance Assurance Monitoring

♦ **1. The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source.**

Indicate "YES" or "NO."

An emission unit may be subject to multiple applicable requirements. CAM applicability is determined on an applicable by applicable requirement basis for each regulated pollutant. An emission unit may be subject to CAM exempt regulations and CAM non-exempt regulations in which case CAM is still applicable for the non-exempt regulations. If the only applicable requirement that triggers CAM is a case-by-case NSR authorization, then this question should be marked "NO" as CAM will be addressed in the NSR permit. Emission limitations in PBRs and Standard Permit authorizations that trigger CAM must be addressed in the Title V permit.

Note: If the response to Question XI.L.1 is "NO," go to Section XI.M.

♦ **2. The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement.**

Indicate "YES" or "NO."

"YES" answers to both questions XI.L.1 and XI.L.2 indicate that the application area is subject to Compliance Assurance Monitoring. However, the owner/operator need only submit a CAM proposal as required by the deadlines for submittals in 40 CFR § 64.5.

Note: If the response to Question XI.L.2 is "NO," go to Section XI.M.

♦ **3. The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.**

Indicate "YES" or "NO."

♦ **4. The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to deadlines for submittals in 40 CFR § 64.5 in this application.**

Indicate "YES" or "NO."

Note: If the response to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.

5. The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.

Indicate "YES" or "NO."

Compliance with CAM proposals submitted and approved in this application are required upon issuance of the permit unless the applicant or permit holder submits, in accordance with 40 CFR § 64.4(e), a CAM implementation plan and schedule for installation, testing or performance of other appropriate activities prior to the initiation of the monitoring requirements in the CAM proposal. 40 CFR § 64.4(e) allows a maximum of 180 days from permit issuance for performance of appropriate activities prior to initiation of CAM provided an implementation plan and schedule have been submitted. No other provisions are made that would allow a delay in initiation of CAM after the issuance of the permit. CAM implementation plans and schedules should be submitted as an attachment to the Form OP-MON. The CAM implementation plan and schedule will be included in the permit as an enforceable permit requirement in accordance with 40 CFR § 64.6(d).

6. Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.

♦ **7. At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).**

Indicate "YES" or "NO."

♦ **8. All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).**

Indicate "YES" or "NO."

Note: If the response to Question XI.L.8 is "YES," go to Section XI.M.

Form OP-REQ1 (Page 84)

XI. Miscellaneous (continued)L. Compliance Assurance Monitoring (continued)

♦ **9. At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses particulate matter, and the emission unit has a capture system as defined in 40 CFR §64.1.**

Indicate "YES" or "NO."

Note: Title 40 CFR Part 64 requires the capture system to be monitored for indication of defects that require corrective action. This question should be marked YES unless it is not possible to conduct inspections on the capture system (e.g. control device is built into the emission unit such as a catalytic converter installed on an engine or an injection system where a reactant is directed into the exhaust gases of a turbine) or if the emission unit has a CEMS, COMS, or PEMS installed that meets the requirements of 40 CFR §64.3(d)(2).

♦ **10. At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.**

Indicate "YES" or "NO."

Note: Title 40 CFR Part 64 requires the capture system to be monitored for indication of defects that require corrective action. This question should be marked YES unless it is not possible to conduct inspections on the capture system (e.g. control device is built into the emission unit such as a catalytic converter installed on an engine or an injection system where a reactant is directed into the exhaust gases of a turbine) or if the emission unit has a CEMS, COMS, or PEMS installed that meets the requirements of 40 CFR §64.3(d)(2).

♦ **11. At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses a regulated pollutant other than particulate matter or VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.**

Indicate "YES" or "NO."

Note: Title 40 CFR Part 64 requires the capture system to be monitored for indication of defects that require corrective action. This question should be marked YES unless it is not possible to conduct inspections on the capture system (e.g. control device is built into the emission unit such as a catalytic converter installed on an engine or an injection system where a reactant is directed into the exhaust gases of a turbine) or if the emission unit has a CEMS, COMS, or PEMS installed that meets the requirements of 40 CFR §64.3(d)(2).

♦ **12. The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.**

Indicate "YES" or "NO."

M. Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times

♦ **1. The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004.**

For GOP applications for GOP 517, indicate "YES" if the application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004. Otherwise, indicate "NO."

For SOP applications and GOP applications for GOPs 511, 512, 513 and 514, indicate "N/A."

Note: If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.

♦ **2. All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.**

Indicate "YES" or "NO."

Air Curtain Incinerators that burn materials other than wood waste, clean lumber, or yard waste or a mixture of these materials do not qualify for GOP 517. These units must be included in an application for an SOP.

XII. New Source Review (NSR) Authorizations

A. Waste Permits with Air Addendum

♦ **1. The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum.**

Indicate "YES" or "NO."

Note: If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.

Form OP-REQ1 (Page 85)

XII. NSR Authorizations (continued)

B. Air Quality Standard Permits

♦ **1. The application area includes at least one Air Quality Standard Permit NSR authorization.**

Indicate "YES" or "NO."

If the answer to Question XII.B.1 is "YES," then at least one of the answers to Questions XII.B.2 through XII.B.16 must be answered "YES" also to indicate which Air Quality Standard Permit is being used.

If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H, and answer Question XII.B.2 - B.16 as appropriate.

♦ **2. The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.**

Indicate "YES" or "NO."

♦ **3. The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.**

Indicate "YES" or "NO."

♦ **4. The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.**

Indicate "YES" or "NO."

♦ **5. The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.**

Indicate "YES" or "NO."

♦ **6. The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.**

Indicate "YES" or "NO."

♦ **7. The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.**

Indicate "YES" or "NO."

8. The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.

Indicate "YES" or "NO."

9. The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.

Indicate "YES" or "NO."

10. The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.

Indicate "YES" or "NO."

Form OP-REQ1 (Page 86)

XII. NSR Authorizations (continued)

B. Air Quality Standard Permits (continued)

♦ **11. The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.**

Indicate "YES" or "NO."

♦ **12. The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization.**

Indicate "YES" or "NO."

Note: If the response to XII.B.12 is "NO," go to Question XII.B.15.

♦ **13. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.**

Indicate "YES" or "NO."

♦ **14. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.**

Indicate "YES" or "NO."

♦ **15. The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.**

Indicate "YES" or "NO."

♦ **16. The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.**

Indicate "YES" or "NO."

C. Flexible Permits

1. The application area includes at least one Flexible Permit NSR authorization.

Indicate "YES" if the application area contains at least one flexible permit authorized under 30 TAC Chapter 116, Subchapter G. Otherwise indicate "NO."

Note: If the response to XII.C.1 is "YES," be sure to include the permit numbers in Section II.H.

D. Multiple Plant Permits

1. The application area includes at least one Multi-Plant Permit NSR authorization.

Indicate "YES" if the application area contains at least one multi-plant permit authorized under 30 TAC Chapter 116, Subchapter J. Otherwise indicate "NO."

Note: If the response to XII.D.1 is "YES," be sure to include the permit numbers in Section II.H.

Form OP-REQ1 (Page 87)

XII. NSR Authorizations (continued)

(Attach additional sheets if necessary for sections E-J)

E. PSD Permits and PSD Major Pollutants

PSD Permit No.:

In the spaces provided, enter each Prevention of Significant Deterioration (PSD) or Greenhouse Gas PSD permit number held for the application area (PSDTXXXXXX/GHGPSDTXXXXXX/EPA issued GHG permit number). Attach additional sheets if necessary.

Note: If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

Issuance Date:

In the spaces provided, enter the issuance date (MM/DD/YYYY) for each PSD permit held for the application area. Attach additional sheets if necessary.

Title I of the FCAA, Part C, Prevention of Significant Deterioration, is an applicable requirement and enforceable in the operating permit application. The PSD permit numbers listed on Form OP-SUM (Individual Unit Summary), for units appearing on that form, must be repeated on Form OP-REQ1.

PSD Major Pollutants:

For each PSD permit, determine the major PSD pollutants and enter the appropriate code(s) on the form in the space next to the permit number. Attach additional sheets if necessary. These pollutants include, but are not limited to, the following:

Code	Description
CO	Carbon monoxide
FLR	Fluorides (excluding hydrogen fluoride)
GHG	Greenhouse Gases (use only for a stand-alone Greenhouse Gas PSD permit associated with a PSD "anyway source")
H_2S	Hydrogen sulfide
MWCO	Municipal waste combustor organics (measured as total tetra - through octa-chlorinated dibenzo-p-dioxins and dibenzofurans)
MWCM	Municipal waste combustor metals (measured as particulate matter)
MWCAG	Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride)
NO_X	Nitrogen oxides (NO_X)
PB	Lead (Pb)
PM	Particulate matter
PM_{10}	Particulate matter less than 10 microns
SAM	Sulfuric acid mist
SO_2	Sulfur dioxide (SO_2)
TRS	Total reduced sulfur compounds including hydrogen sulfide
VOC	Volatile organic compounds

F. Nonattainment (NA) Permits and NA Major Pollutants

NA Permit No.:

In the spaces provided, enter each NA permit number held for the application area (NXXXXX). Attach additional sheets if necessary.

Note: If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

Issuance Date:

In the spaces provided, enter the issuance date (MM/DD/YYYY) for each NA permit held for the application area. Attach additional sheets if necessary.

Title I of the FCAA, Part D, Nonattainment, is an applicable requirement and is enforceable in the operating permit application. The NA permit numbers that are listed on Form OP-SUM (Information Unit Summary) must be repeated on Form OP-REQ1.

NA Major Pollutants:

For each NA permit, determine the major NA pollutants and enter the appropriate code(s) on the form in the space next to the permit number. Attach additional sheets if necessary. These pollutants include, but are not limited to the following:

Code	Description
CO	Carbon monoxide
NO_X	Nitrogen oxides (NO_X)
VOC	Volatile organic compounds
SO_2	Sulfur dioxide (SO_2)
PM_{10}	Particulate matter less than 10 microns
PB	Lead (Pb)
SAM	Sulfuric acid mist

G. NSR Authorizations with FCAA § 112(g) Requirements

NSR Permit No.:

In the spaces provided, enter the permit number of each NSR permit held for the application area that contains requirements of FCAA, Title I, Part A, Section 112(g) (XXXXX). Attach additional sheets if necessary.

Issuance Date:

In the spaces provided, enter the issuance date (MM/DD/YYYY) for each NSR permit held for the application area that contains requirements of FCAA, Title I, Part A, Section 112(g). Attach additional sheets if necessary.

Title I of the FCAA, Part A, Section 112(g), Modifications, is an applicable requirement and is enforceable in the operating permit application. The NSR permit numbers containing FCAA § 112(g) requirements that are listed on Form OP-SUM (Individual Unit Summary) must be repeated on Form OP-REQ1.

H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, and Other Authorizations (Other than Permits by Rule, PSD Permits, and NA Permits) for the Application Area

♦ **Authorization No.:**

In the spaces provided, enter the numbers for all 30 TAC Chapter 116 permits, special permits, standard permits, and other NSR authorizations (other than permits by rule, prevention of significant deterioration (PSD) permits, and nonattainment (NA) permits) which are held by the application area (XXXXX). Attach additional sheets if necessary. The NSR permit numbers listed on Form OP-SUM (Information Unit Summary), for units appearing on that form, are required to be repeated on Form OP-REQ1.

♦ **Issuance Date:**

In the spaces provided, enter the issuance date (MM/DD/YYYY) for all 30 TAC Chapter 116 permits, special permits, standard permits, and other NSR authorizations (other than permits by rule, prevention of significant deterioration (PSD) permits, and nonattainment (NA) permits) which are held by the application area. Attach additional sheets if necessary.

Form OP-REQ1 (Page 88)

XII. NSR Authorizations (continued)

(Attach additional sheets if necessary for sections E - J)

I. Permits by Rule (30 TAC Chapter 106) for the Application Area

Complete this section for SOP and GOP applications, as necessary.

Prior to March 14, 1997, a Standard Exemption List was incorporated by reference into 30 TAC Chapter 116 and each standard exemption had an assigned number (e.g., 112). Standard Exemptions (SE) moved into 30 TAC Chapter 106, as Exemptions from Permitting, on March 14, 1997. On August 11, 2000, 30 TAC Chapter 106 was retitled as Permits by Rule. All historical Standard Exemptions and Exemptions from Permitting are now referred to as Permits by Rule (PBRs). Information regarding PBRs may be found on the TCEQ APD website at: www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

The following PBRs and any corresponding historical (pre-March 1997) SEs are required to be listed:

PBR No.	Name or Subject	PBR No.	Name or Subject
106.124	Pilot Plants	106.373	Refrigeration Systems
106.142	Rock Crushers	106.374	Lime Slaking
106.144	Bulk Mineral Handling	106.375	Aqueous Electrolytic
106.145	Bulk Sand Handling	106.376	Decorative Chrome Plating
106.146	Soil Stabilization Plants	106.392	Thermoset Resin
106.147	Asphalt Concrete Plants	106.393	Convey/Storage Plastic/Rubber
106.150	Asphalt Silos	106.395	Plastic/Rubber Mix (No solvent)
106.181	Used oil combustion units	106.396	Plastic/Rubber Mix (Solvent)
106.182	Ceramic Kilns	106.411	Steam or Dry Cleaning Equipment
106.183	Boilers, Heaters, and Other Combustion Units	106.412	Fuel Dispensing
106.221	Extrusion Presses	106.416	Uranium Recovery
106.223	Sawmills	106.417	Ethylene Oxide Sterilizers
106.224	Aerospace	106.418	Printing Presses
106.225	Semiconductor	106.419	Photographic Process Equipment
106.226	Coating Manufacturing	106.433	Surface Coat
106.227	Soldering, Brazing, Welding	106.434	Powder Coating Facility
106.231	Wood Products	106.435	Classic or Antique Auto Restoration Facility
106.245	Ethyl Alcohol Facilities	106.436	Auto Body Refinishing
106.261	Facility; Emission Limits	106.452	Dry Abrasive Cleaning
106.262	Facility; Emission/Distance	106.454	Degreasing
106.263	Repairs and Maintenance	106.472	Organic/Inorganic Liquid Loading and Unloading
106.264	Replacements of Facilities	106.473	Organic Liquid Loading and Unloading
106.265	Hand-Held/Manually Operated Machines	106.474	Hydrochloric Acid Storage
106.281	Feed Milling	106.475	Pressure Tank or Vent to Firebox
106.283	Grain Handling	106.476	Pressure Tank or Vent to Control

PBR No.	Name or Subject	PBR No.	Name or Subject
106.311	Crucible or Pot Furnace	106.477	Anhydrous NH3 Storage
106.314	Shell Core and Mold Machines	106.478	Storage Tank and Change Service
106.315	Sand or Investment Molds	106.491	Dual Chamber Incinerators
106.320	Miscellaneous Metallic Treatment	106.492	Flares
106.321	Metal Melting and Holding Furnace	106.493	Direct Flame Incinerators
106.322	Furnace to Reclaim Aluminum or Copper	106.494	Pathological Waste Incinerators
106.332	Chlorine Repackaging	106.495	Heat Cleaning Devices
106.351	Salt Water Disposal	106.496	Air Curtain Incinerators
106.352	Oil and Gas Production	106.511	Portable and Emergency Engines and Turbines
106.353	Temporary Oil and Gas Facilities	106.512	Stationary Engines and Turbines
106.354	Iron Sponge Gas-Treating Unit	106.513	Natural Gas-Fired Combined Heat and Power Units
106.355	Pipeline Metering, Purging, and Maintenance	106.532	Water/Wastewater Treatment
106.359	Planned Maintenance, Startup, and Shutdown (MSS) at Oil and Gas Handling and Production Facilities	106.533	Water and Soil Remediation
106.371	Cooling Water Units	106.534	Municipal Solid Waste Landfills and Transfer Stations

♦ **Permit by Rule Number:**

For PBRs (Standard Exemption) authorized before March 14, 1997, enter all selected PBR (Standard Exemption) numbers, in the spaces provided (XXX). For PBRs authorized on or after March 14, 1997, enter all selected PBR section numbers, in the spaces provided (106.XXX). Do not use the PBR registration number from the authorization letter.

♦ **Version Number/Date:**

For a PBR (Standard Exemption) authorized before March 14, 1997, enter the effective date of the PBR (Standard Exemption) list under which the PBR was authorized. For a PBR authorized on or after March 14, 1997, enter the effective date of 30 TAC Chapter 106 under which the PBR was authorized. The 30 TAC Chapter 106 effective date can be found in the section of the PBR (MM/DD/YYYY). Do not use the date of a PBR authorization letter.

J. Municipal Solid Waste and Industrial Hazardous Waste Permits with an Air Addendum

♦ **Permit No.:**

In the spaces provided, enter the permit number (XXXXX) of each municipal solid waste (MSW) permit or industrial hazardous waste (IHW) permit that contains an air addendum which is held for the application area. The MSW and IHW permits that do not contain an air addendum should not be listed in this section. Attach additional sheets if necessary.

♦ **Issuance Date:**

In the spaces provided, enter the issuance date (MM/DD/YYYY) for each permit held for the application area. Attach additional sheets if necessary.

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

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 1			
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter**		
	A. Visible Emissions		
♦	1.	The application area includes stationary vents constructed on or before January 31, 1972.	☐YES ☒NO
♦	2.	The application area includes stationary vents constructed after January 31, 1972. *If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6.* *If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.*	☒YES ☐NO
♦	3.	The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.	☐YES ☐NO
♦	4.	All stationary vents are addressed on a unit specific basis.	☐YES ☒NO
♦	5.	Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.	☒YES ☐NO
♦	6.	The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	☐YES ☒NO
♦	7.	The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).	☒YES ☐NO
♦	8.	Emissions from units in the application area include contributions from uncombined water.	☐YES ☒NO
♦	9.	The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).	☐YES ☒NO ☐N/A

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

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 2				
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)**			
	B.	**Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots**		
		1.	Items a - d determines applicability of any of these requirements based on geographical location.	
♦		a.	The application area is located within the City of El Paso.	☐YES ☒NO
♦		b.	The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.	☐YES ☒NO
♦		c.	The application area is located in the portion of Harris County inside the loop formed by Beltway 8.	☐YES ☒NO
♦		d.	The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988.	☐YES ☒NO
			If there is any "YES" response to Questions I.B.1.a - d, answers Questions I.B.2.a - d. If all responses to Questions I.B.1.a-d are "NO," go to Section I.C.	
		2.	Items a - d determine the specific applicability of these requirements.	
♦		a.	The application area is subject to 30 TAC § 111.143.	☐YES ☐NO
♦		b.	The application area is subject to 30 TAC § 111.145.	☐YES ☐NO
♦		c.	The application area is subject to 30 TAC § 111.147.	☐YES ☐NO
♦		d.	The application area is subject to 30 TAC § 111.149.	☐YES ☐NO
	C.	**Emissions Limits on Nonagricultural Processes**		
♦		1.	The application area includes a nonagricultural process subject to 30 TAC § 111.151.	☒YES ☐NO
		2.	The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements. *If the response to Question I.C.2 is "NO," go to Question I.C.4.*	☐YES ☒NO
		3.	All vents from nonagricultural process in the application area are subject to additional monitoring requirements.	☐YES ☐NO

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

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 3			
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)**		
	C.	**Emissions Limits on Nonagricultural Processes (continued)**	
	4.	The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).	☐YES ☒NO
	5.	The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements. *If the response to Question I.C.5 is "NO," go to Question I.C.7.*	☐YES ☒NO
	6.	All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.	☐YES ☐NO
	7.	The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).	☐YES ☒NO
	8.	The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements. *If the response to Question I.C.8 is "NO," go to Section I.D.*	☐YES ☒NO
	9.	All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.	☐YES ☐NO
	D.	**Emissions Limits on Agricultural Processes**	
	1.	The application area includes agricultural processes subject to 30 TAC § 111.171.	☐YES ☒NO
	E.	**Outdoor Burning**	
♦	1.	Outdoor burning is conducted in the application area. *If the response to Question I.E.1 is "NO," go to Section II.*	☐YES ☒NO
♦	2.	Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.	☐YES ☐NO
♦	3.	Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.	☐YES ☐NO
♦	4.	Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.	☐YES ☐NO

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

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 4				
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)**			
	E.	**Outdoor Burning (continued)**		
♦		5.	Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.	☐YES ☐NO
♦		6.	Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.	☐YES ☐NO
♦		7.	The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.	☐YES ☐NO
II.	**Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds**			
	A.	**Temporary Fuel Shortage Plan Requirements**		
		1.	The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.	☐YES ☒NO
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds**			
	A.	**Applicability**		
♦		1.	The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10. *See instructions for inclusive counties. If the response to Question III.A.1 is "NO," go to Section IV.*	☐YES ☒NO
	B.	**Storage of Volatile Organic Compounds**		
♦		1.	The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 5			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	C.	**Industrial Wastewater**	
	1.	The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140. *If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.*	☐YES ☐NO ☐N/A
	2.	The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area. *If the response to Question III.C.2 is "YES" and the refinery is in the Beaumont/Port Arthur area, go to Section III.D.*	☐YES ☐NO
	3.	The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater). *If the response to Question III.C.3 is "YES," go to Section III.D.*	☐YES ☐NO
	4.	The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons). *If the response to Question III.C.4 is "YES," go to Section III.D.*	☐YES ☐NO
	5.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).	☐YES ☐NO
	6.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).	☐YES ☐NO
	7.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).	☐YES ☐NO
	D.	**Loading and Unloading of VOCs**	
♦	1.	The application area includes VOC loading operations.	☐YES ☐NO
♦	2.	The application area includes VOC transport vessel unloading operations. *For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 6			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	D.	**Loading and Unloading of VOCs (continued)**	
♦	3.	Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.	☐YES ☐NO
	E.	**Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities**	
♦	1.	The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container. *If the response to Question III.E.1 is "NO," go to Section III.F.*	☐YES ☐NO
♦	2.	Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.	☐YES ☐NO
♦	3.	All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent. *If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.*	☐YES ☐NO
♦	4.	The application area is located in a covered attainment county as defined in 30 TAC § 115.10. *If the response to Question III.E.4 is "NO," go to Question III.E.9.*	☐YES ☐NO
♦	5.	Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	☐YES ☐NO
♦	6.	Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	☐YES ☐NO
♦	7.	At facilities located in covered attainment counties other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014. *If the response to Question III.E.7 is "YES," go to Section III.F.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 7			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	E.	**Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)**	
♦	8.	At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004. *If the response to Question III.E.8 is "YES," go to Section III.F.*	☐YES ☐NO
♦	9.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	☐YES ☐NO
♦	10.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	☐YES ☐NO
♦	11.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.	☐YES ☐NO
♦	12.	At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.	☐YES ☐NO
	F.	**Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)**	
♦	1.	Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.	☐YES ☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 8			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	F.	**Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only) (continued)**	
♦	2.	Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.	☐YES ☐NO ☐N/A
♦	3.	Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.	☐YES ☐NO ☐N/A
	G.	**Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities**	
♦	1.	The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks. *If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.*	☐YES ☐NO ☐N/A
♦	2.	The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	☐YES ☐NO
♦	3.	The application area includes facilities that began construction prior to November 15, 1992. *If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.*	☐YES ☐NO
♦	4.	The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	☐YES ☐NO
♦	5.	The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.	☐YES ☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 9			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	H.	**Control Of Reid Vapor Pressure (RVP) of Gasoline**	
♦	1.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County. *If the response to Question III.H.1 is "NO" or "N/A," go to Section III.I.*	☐YES ☐NO ☐N/A
♦	2.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.	☐YES ☐NO
♦	3.	The application area includes a motor vehicle fuel dispensing facility.	☐YES ☐NO
♦	4.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	☐YES ☐NO
	I.	**Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries**	
	1.	The application area is located at a petroleum refinery.	☐YES ☐NO
	J.	**Surface Coating Processes (Complete this section for GOP applications only.)**	
♦	1.	Surface coating operations (other than those performed on equipment located on-site and in-place) that meet the exemption specified in 30 TAC § 115.427(3)(A) or 115.427(7) are performed in the application area.	☐YES ☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 10			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	K.	**Cutback Asphalt**	
	1.	Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency. *If the response to Question III.K.1 is "N/A," go to Section III.L.*	☐YES ☐NO ☐N/A
	2.	The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.	☐YES ☐NO ☐N/A
	3.	Asphalt emulsion is used or produced within the application area.	☐YES ☐NO
	4.	The application area is using an alternate control requirement as specified in 30 TAC § 115.513. *If the response to Question III.K.4 is "NO," go to Section III.L.*	☐YES ☐NO
	5.	The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).	☐YES ☐NO
	6.	The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	☐YES ☐NO
	7.	The applicant using cutback asphalt is a state, municipal, or county agency.	☐YES ☐NO
	L.	**Degassing of Storage Tanks, Transport Vessels and Marine Vessels**	
♦	1.	The application area includes degassing operations for stationary, marine, and/or transport vessels. *If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.*	☐YES ☐NO ☐N/A
♦	2.	Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. *If the response to Question III.L.2 is "YES," go to Section III.M.*	☐YES ☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 11			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	L.	**Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)**	
♦	3.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO ☐N/A
♦	4.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO ☐N/A
♦	5.	Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO
♦	6.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO ☐N/A
♦	7.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure ≥ 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.	☐YES ☐NO ☐N/A
	M.	**Petroleum Dry Cleaning Systems**	
	1.	The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	☐YES ☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 12		
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
N. Vent Gas Control (Highly-reactive volatile organic compounds (HRVOC)		
1.	The application area includes one or more vent gas streams containing HRVOC.	☐YES ☐NO ☐N/A
2.	The application area includes one or more flares that emit or have the potential to emit HRVOC. *If the responses to Questions III.N.1 and III.N.2 are both "NO" or "N/A," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.*	☐YES ☐NO ☐N/A
3.	All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.	☐YES ☐NO
4.	All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times. *If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.*	☐YES ☐NO
5.	The application area contains pressure relief valves that are not controlled by a flare.	☐YES ☐NO
6.	The application area has at least one vent stream which has no potential to emit HRVOC.	☐YES ☐NO
7.	The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	☐YES ☐NO
O. Cooling Tower Heat Exchange Systems (HRVOC)		
1.	The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.	☐YES ☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 13			
IV.	**Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds**		
	A.	**Applicability**	
♦	1.	The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour area. *For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H.* *For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "YES," go to Section IV.F.* *For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F.* *For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.*	☐YES ☒NO
	2.	The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. *If the response to Question IV.A.2 is "YES," go to Question IV.H.1.*	☐YES ☒NO
	3.	The application area includes a utility electric generator in an east or central Texas county. *See instructions for a list of counties included.* *If the response to Question IV.A.3 is "YES," go to Question IV.G.1.* *If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.*	☐YES ☒NO
	B.	**Utility Electric Generation in Ozone Nonattainment Areas**	
	1.	The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300. *If the response to Question IV.B.1 is "NO," go to Question IV.C.1.*	☐YES ☐NO
	2.	The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 14			
IV.	**Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)**		
	C.	**Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas**	
♦	1.	The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400. *For SOP applications, if the response to Question IV.C.1 is "NO," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "NO," go to Section IV.F.*	☐YES ☐NO
♦	2.	The application area is located at a site that was a major source of NO_X before November 15, 1992.	☐YES ☐NO ☐N/A
♦	3.	The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	☐YES ☐NO
	D.	**Adipic Acid Manufacturing**	
	1.	The application area is located at, or part of, an adipic acid production unit.	☐YES ☐NO ☐N/A
	E.	**Nitric Acid Manufacturing - Ozone Nonattainment Areas**	
	1.	The application area is located at, or part of, a nitric acid production unit.	☐YES ☐NO ☐N/A
	F.	**Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines**	
♦	1.	The application area is located at a site that is a minor source of NO_X in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County). *For SOP applications, if the response to Question IV.F.1 is "NO," go to Question IV.G.1. For GOP applications, if the response to Question IV.F.1 is "NO," go to Section VI.*	☐YES ☐NO
♦	2.	The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).	☐YES ☐NO
♦	3.	The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 15			
IV.	**Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)**		
	F.	**Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines (continued)**	
♦	4.	The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.	☐YES ☐NO
♦	5.	The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	☐YES ☐NO
	6.	The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125. *If the response to Question IV.F.6 is "NO," go to Section IV.G.*	☐YES ☐NO
	7.	An ACSS for carbon monoxide (CO) has been approved?	☐YES ☐NO
	8.	An ACSS for ammonia (NH_3) has been approved?	☐YES ☐NO
	9.	Provide the Permit Number(s) and authorization/issuance date(s) of the NSR project(s) that incorporates an ACSS below.	
	G.	**Utility Electric Generation in East and Central Texas**	
	1.	The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995. *If the response to Question IV.G.1 is "NO," go to Question IV.H.1.*	☐YES ☐NO
	2.	The application area is complying with the System Cap in 30 TAC § 117.3020.	☐YES ☐NO
	H.	**Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters**	
	1.	The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less. *If the response to question IV.H.1 is "NO," go to Section V.*	☐YES ☒NO
	2.	All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 16		
V.	**Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products**	
A.	**Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings**	
1.	The application area manufactures automobile refinish coatings or coating components and sells or distributes these coatings or coating components in the United States.	☐YES ☒NO
2.	The application area imports automobile refinish coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States. *If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.*	☐YES ☒NO
3.	All automobile refinish coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).	☐YES ☐NO
B.	**Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products**	
1.	The application area manufactures consumer products for sale or distribution in the United States.	☐YES ☒NO
2.	The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.	☐YES ☒NO
3.	The application area is a distributor of consumer products whose name appears on the label of one or more of the products. *If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.*	☐YES ☒NO
4.	All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 17			
V.	**Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)**		
	C.	**Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings**	
	1.	The application area manufactures or imports architectural coatings for sale or distribution in the United States.	☐YES ☒NO
	2.	The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act. *If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.*	☐YES ☒NO
	3.	All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5).	☐YES ☐NO
	D.	**Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings**	
	1.	The application area manufactures or imports aerosol coating products for sale or distribution in the United States.	☐YES ☒NO
	2.	The application area is a distributor of aerosol coatings for resale or distribution in the United States.	☐YES ☒NO
	E.	**Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers**	
	1.	The application area manufactures or imports portable fuel containers for sale or distribution in the United States. *If the response to Question V.E.1 is "NO," go to Section VI.*	☐YES ☒NO
	2.	All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).	☐YES ☐NO
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards**		
	A.	**Applicability**	
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts. *If the response to Question VI.A.1 is "NO," go to Section VII.*	☒YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 18			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	B.	**Subpart Y - Standards of Performance for Coal Preparation and Processing Plants**	
	1.	The application area is located at a coal preparation and processing plant. *If the response to Question VI.B.1 is "NO," go to Section VI.C.*	☐YES ☒NO
	2.	The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). *If the response to Question VI.B.2 is "NO," go to Section VI.C.*	☐YES ☐NO
	3.	The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. *If the response to Question VI.B.3 is "YES," go to Section VI.C.*	☐YES ☐NO
	4.	The plant contains an open storage pile, as defined in § 60.251, as an affected facility. *If the response to Question VI.B.4 is "NO," go to Section VI.C.*	☐YES ☐NO
	5.	The open storage pile was constructed, reconstructed or modified after May 27, 2009.	☐YES ☐NO
	C.	**Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)**	
♦	1.	The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired. *If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.D.*	☐YES ☐NO ☒N/A
♦	2.	One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005. *If the response to Question VI.C.2 is "NO," go to Section VI.D.*	☐YES ☐NO
♦	3.	One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).	☐YES ☐NO
♦	4.	The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 19			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	C.	**Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)**	
♦	5.	One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides.	☐YES ☐NO
	D.	**Subpart XX - Standards of Performance for Bulk Gasoline Terminals**	
	1.	The application area includes bulk gasoline terminal loading racks. *If the response to Question VI.D.1 is "NO," go to Section VI.E.*	☐YES ☒NO ☐N/A
	2.	One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.	☐YES ☐NO
	E.	**Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO_2) Emissions**	
♦	1.	The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore). *For SOP applications, if the response to Question VI.E.1 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is "NO" or "N/A," go to Section VI.H.*	☐YES ☒NO
♦	2.	The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011. *For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H.*	☐YES ☐NO
♦	3.	The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD. *For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 20			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	E.	**Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO_2) Emissions (continued)**	
♦	4.	Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD. *For SOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.H.*	☐YES ☐NO
♦	5.	Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.	
	F.	**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**	
	1.	The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant. *If the response to Question VI.F.1 is "NO," go to Section VI.G.*	☐YES ☒NO
	2.	Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.	☐YES ☐NO
	G.	**Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems**	
	1.	The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987. *If the response to Question VI.G.1 is "NO," go to Section VI.H.*	☐YES ☒NO
	2.	The application area includes storm water sewer systems.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 21			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	G.	**Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)**	
	3.	The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.	☐YES ☐NO
	4.	The application area includes non-contact cooling water systems.	☐YES ☐NO
	5.	The application area includes individual drain systems. *If the response to Question VI.G.5 is "NO," go to Section VI.H.*	☐YES ☐NO
	6.	The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	☐YES ☐NO
	7.	The application area includes completely closed drain systems.	☐YES ☐NO
	H.	**Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004**	
♦	1.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator. *If the response to Question VI.H.1. is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "NO," go to Question VI.H.4.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.	☐YES ☐NO
♦	3.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	☐YES ☐NO
♦	4.	The application area includes at least one air curtain incinerator. *If the response to Question VI.H.4 is "NO," go to Section VI.I.*	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 22			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	H.	**Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)**	
♦	5.	The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006. *If the response to Question VI.H.5 is "NO," go to Question VI.H.7.*	☐YES ☐NO
♦	6.	All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.	☐YES ☐NO
♦	7.	The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	☐YES ☐NO
♦	8.	All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.	☐YES ☐NO
	I.	**Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001**	
♦	1.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator. *If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 23			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	I.	**Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)**	
♦	3.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	☐YES ☐NO
♦	4.	The application area includes at least one air curtain incinerator. *If the response to Question VI.I.4 is "NO," go to Section VI.J.*	☐YES ☒NO
♦	5.	The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001. *If the response to Question VI.I.5 is "NO," go to VI.I.7.*	☐YES ☐NO
♦	6.	All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
♦	7.	The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	☐YES ☐NO
♦	8.	All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 24			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	J.	**Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006**	
♦	1.	The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator. *If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "NO," go to Question VI.J.4.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.	☐YES ☐NO
♦	3.	The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	☐YES ☐NO
♦	4.	The application area includes at least one air curtain incinerator. *If the response to Question VI.J.4 is "NO," go to Section VI.K.*	☐YES ☒NO
♦	5.	The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006. *If the response to Question VI.J.5 is "NO," go to Question VI.J.7.*	☐YES ☐NO
♦	6.	All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
♦	7.	The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 25				
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (NSPS) (continued)**			
	J.	**Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)**		
♦	8.	All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES	☐NO
♦	9.	The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.	☐YES	☐NO
♦	10.	The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES	☐NO
	K.	**Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution**		
♦	1.	The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.	☐YES	☒NO
VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants**			
	A.	**Applicability**		
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts. *If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.*	☐YES	☒NO ☐N/A
	B.	**Subpart F - National Emission Standard for Vinyl Chloride**		
	1.	The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride.	☐YES	☐NO
	C.	**Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks (Fugitive Emission Sources) of Benzene (Complete this section for GOP applications only)**		
♦	1.	The application area includes equipment in benzene service.	☐YES	☐NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 26		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
D. Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants		
1.	The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b). *If the response to Question VII.D.1 is "NO," go to Section VII.E.*	☐YES ☐NO
2.	The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).	☐YES ☐NO
3.	The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.	☐YES ☐NO
E. Subpart M - National Emission Standard for Asbestos		
Applicability		
1.	The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155. *If the response to Question VII.E.1 is "NO," go to Section VII.F.*	☐YES ☐NO
Roadway Construction		
2.	The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.	☐YES ☐NO
Manufacturing Commercial Asbestos		
3.	The application area includes a manufacturing operation using commercial asbestos. *If the response to Question VII.E.3 is "NO," go to Question VII.E.4.*	☐YES ☐NO
a.	Visible emissions are discharged to outside air from the manufacturing operation	☐YES ☐NO
b.	An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 27		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
E. Subpart M - National Emission Standard for Asbestos (continued)		
***Manufacturing Commercial Asbestos* (continued)**		
c.	Asbestos-containing waste material is processed into non-friable forms.	☐YES ☐NO
d.	Asbestos-containing waste material is adequately wetted.	☐YES ☐NO
e.	Alternative filtering equipment is being used that has received EPA approval.	☐YES ☐NO
f.	A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles	☐YES ☐NO
g.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	☐YES ☐NO
Asbestos Spray Application		
4.	The application area includes operations in which asbestos-containing materials are spray applied. *If the response to Question VII.E.4 is "NO," go to Question VII.E.5.*	☐YES ☐NO
a.	Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. *If the response to Question VII.E.4.a is "YES," go to Question VII.E.5.*	☐YES ☐NO
b.	Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	☐YES ☐NO
c.	An alternative emission control and waste treatment method is being used that has received prior EPA approval.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 28		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
E. Subpart M - National Emission Standard for Asbestos (continued)		
***Asbestos Spray Application* (continued)**		
d.	Asbestos-containing waste material is processed into non-friable forms.	☐YES ☐NO
e.	Asbestos-containing waste material is adequately wetted.	☐YES ☐NO
f.	Alternative filtering equipment is being used that has received EPA approval.	☐YES ☐NO
g.	A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	☐YES ☐NO
h.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	☐YES ☐NO
Fabricating Commercial Asbestos		
5.	The application area includes a fabricating operation using commercial asbestos. *If the response to Question VII.E.5 is "NO," go to Question VII.E.6.*	☐YES ☐NO
a.	Visible emissions are discharged to outside air from the manufacturing operation.	☐YES ☐NO
b.	An alternative emission control and waste treatment method is being used that has received prior EPA approval.	☐YES ☐NO
c.	Asbestos-containing waste material is processed into non-friable forms.	☐YES ☐NO
d.	Asbestos-containing waste material is adequately wetted.	☐YES ☐NO
e.	Alternative filtering equipment is being used that has received EPA approval.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 29		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
E. Subpart M - National Emission Standard for Asbestos (continued)		
***Fabricating Commercial Asbestos* (continued)**		
f.	A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	☐YES ☐NO
g.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	☐YES ☐NO
Non-sprayed Asbestos Insulation		
6.	The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying.	☐YES ☐NO
Asbestos Conversion		
7.	The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material.	☐YES ☐NO
F. Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities		
1.	The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process.	☐YES ☐NO
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations		
1.	The application area is located at a benzene production facility and/or bulk terminal. *If the response to Question VII.G.1 is "NO," go to Section VII.H.*	☐YES ☐NO
2.	The application area includes benzene transfer operations at marine vessel loading racks.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 30		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)		
3.	The application area includes benzene transfer operations at railcar loading racks.	☐YES ☐NO
4.	The application area includes benzene transfer operations at tank-truck loading racks.	☐YES ☐NO
H. Subpart FF - National Emission Standard for Benzene Waste Operations		
Applicability		
1.	The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	☐YES ☒NO
2.	The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). *If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.*	☐YES ☐NO
3.	The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. *If the response to Question VII.H.3 is "YES," go to Section VIII.*	☐YES ☐NO
4.	The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr). *If the response to Question VII.H.4 is "YES," go to Section VIII*	☐YES ☐NO
5.	The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr. *If the response to Question VII.H.5 is "YES," go to Section VIII.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 31		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)		
***Applicability* (continued)**		
6.	The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.	☐YES ☐NO
7.	The application area has waste streams with flow-weighted annual average water content of 10% or greater.	☐YES ☐NO
Waste Stream Exemptions		
8.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).	☐YES ☐NO
9.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr.	☐YES ☐NO
10.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr.	☐YES ☐NO
11.	The application area transfers waste off-site for treatment by another facility.	☐YES ☐NO
12.	The application area is complying with 40 CFR § 61.342(d).	☐YES ☐NO
13.	The application area is complying with 40 CFR § 61.342(e). *If the response to Question VII.H.13 is "NO," go to Question VII.H.15.*	☐YES ☐NO
14.	The application area has facility waste with a flow weighted annual average water content of less than 10%.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 32		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)		
Container Requirements		
15.	The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. *If the response to Question VII.H.15 is "NO," go to Question VII.H.18.*	☐YES ☐NO
16.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VII.H.16 is "YES," go to Question VII.H.18.*	☐YES ☐NO
17.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
Individual Drain Systems		
18.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. *If the response to Question VII.H.18 is "NO," go to Question VII.H.25.*	☐YES ☐NO
19.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VII.H.19 is "YES," go to Question VII.H.25.*	☐YES ☐NO
20.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VII.H.20 is "NO," go to Question VII.H.22.*	☐YES ☐NO
21.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 33			
VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)**		
	H.	**Subpart FF - National Emission Standard for Benzene Waste Operations (continued)**	
		***Individual Drain Systems* (continued)**	
	22.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VII.H.22 is "NO," go to Question VII.H.25.*	☐YES ☐NO
	23.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES ☐NO
	24.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐YES ☐NO
		Remediation Activities	
	25.	Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	☐YES ☐NO
VIII.	**Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories**		
	A.	**Applicability**	
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63. *See instructions for 40 CFR Part 63 subparts made applicable only by reference.*	☒YES ☐NO
	B.	**Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry**	
	1.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). *If the response to Question VIII.B.1 is "NO," go to Section VIII.D.*	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 34		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued)		
2.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii). *If the response to Question VIII.B.2 is "NO," go to Section VIII.D.*	☐YES ☐NO
3.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	☐YES ☐NO
4.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	☐YES ☐NO
5.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does <u>not</u> use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F. *If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 35		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater		
	Applicability	
1.	The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F. *If the response to Question VIII.C.1 is "NO," go to Section VIII.D.*	☐YES ☐NO
2.	The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148.	☐YES ☐NO
3.	The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148. *If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.*	☐YES ☐NO
4.	The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping.	☐YES ☐NO
5.	The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere. *If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.*	☐YES ☐NO
	Vapor Collection and Closed Vent Systems	
6.	Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area.	☐YES ☐NO
7.	Bypass lines in the application area are secured in the closed position with a car-seal or a lock-and-key type configuration.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 36		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
Reloading or Cleaning of Railcars, Tank Trucks, or Barges		
8.	The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank. *If the response to Question VIII.C.8 is "NO," go to Question VIII.C.11.*	☐YES ☐NO
9.	The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater.	☐YES ☐NO
10.	The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system.	☐YES ☐NO
Transfer Racks		
11.	The application area includes Group 1 transfer racks that load organic HAPs.	☐YES ☐NO
Process Wastewater Streams		
12.	The application area includes process wastewater streams. *If the response to Question VIII.C.12 is "NO," go to Question VIII.C.34.*	☐YES ☐NO
13.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. *If the response to Question VIII.C.13 is "NO," go to Question VIII.C.15.*	☐YES ☐NO
14.	The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii).	☐YES ☐NO
15.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. *If the response to Question VIII.C.15 is "NO," go to Question VIII.C.17.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 37		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
***Process Wastewater Streams* (continued)**		
16.	The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	☐YES ☐NO
17.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. *If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.*	☐YES ☐NO
18.	The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	☐YES ☐NO
19.	The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	☐YES ☐NO
20.	The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.	☐YES ☐NO
21.	The application area includes process wastewater streams, located at existing sources that are Group 2.	☐YES ☐NO
22.	The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.	☐YES ☐NO
23.	The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 38		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
***Process Wastewater Streams* (continued)**		
24.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.*	☐YES ☐NO
25.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.*	☐YES ☐NO
26.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
27.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
28.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.C.27 - VIII.C.28 are both "NO," go to Question VIII.C.30.*	☐YES ☐NO
29.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
30.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 39		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
Drains		
31.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.*	☐YES ☐NO
32.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO
33.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
34.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). *If the response to Question VIII.C.34 is "NO," go to Question VIII.C.39.*	☐YES ☐NO
35.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). *If the response to Question VIII.C.35 is "NO," go to Question VIII.C.39.*	☐YES ☐NO
36.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 40		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)		
***Drains* (continued)**		
37.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO
38.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute.	☐YES ☐NO
Gas Streams		
39.	The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.	☐YES ☐NO
40.	The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).	☐YES ☐NO
D. Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks		
1.	The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 41			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
E.	**Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities**		
	1.	The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials. *If the response to Question VIII.E.1 is "NO," go to Section VIII.F.*	☐YES ☒NO
	2.	Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O. *If the response to Question VIII.E.2 is "NO," go to Section VIII.F.*	☐YES ☐NO
	3.	The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	☐YES ☐NO
	4.	The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	☐YES ☐NO
F.	**Subpart Q - National Emission Standards for Industrial Process Cooling Towers**		
	1.	The application area includes industrial process cooling towers. *If the response to Question VIII.F.1 is "NO," go to Section VIII.G.*	☐YES ☒NO
	2.	Chromium-based water treatment chemicals have been used on or after September 8, 1994.	☐YES ☐NO
G.	**Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)**		
	1.	The application area includes a bulk gasoline terminal.	☐YES ☒NO
	2.	The application area includes a pipeline breakout station. *If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.*	☐YES ☒NO
	3.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station. *If the response to Question VIII.G.3 is "YES," go to Question VIII.G.10.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 42		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued)		
4.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs. *If the response to Question VIII.G.4 is "YES," go to Question VIII.G.10.*	☐YES ☐NO
5.	An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station. *If the response to Question VIII.G.5 is "NO," go to Question VIII.G.10.*	☐YES ☐NO
6.	The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep). *If the response to Question VIII.G.6 is "NO," go to Question VIII.G.10.*	☐YES ☐NO
7.	Emissions screening factor less than 0.5 (ET or EP < 0.5). *If the response to Question VIII.G.7 is "YES," go to Section VIII.H.*	☐YES ☐NO
8.	Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0). *If the response to Question VIII.G.8 is "YES," go to Section VIII.H.*	☐YES ☐NO
9.	Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0). *If the response to Question VIII.G.9 is "YES," go to Question VIII.G.11.*	☐YES ☐NO
10.	The site at which the application area is located is a major source of HAP. *If the response to Question VIII.G.10 is "NO," go to Section VIII.H.*	☐YES ☐NO
11.	The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 43		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry		
1.	The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2. *If the response to Question VIII.H.1 is "NO," go to Section VIII.I.*	☐YES ☒NO
2.	The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3). *If the response to Question VIII.H.2 is "NO," go to Section VIII.I.*	☐YES ☐NO
3.	The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. *If the response to Question VIII.H.3 is "NO," go to Section VIII.I.*	☐YES ☐NO
4.	The application area includes one or more kraft pulping systems that are existing sources.	☐YES ☐NO
5.	The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	☐YES ☐NO
6.	The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24. *If the response to Question VIII.H.6 is "NO," go to Section VIII.I.*	☐YES ☐NO
7.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	☐YES ☐NO
8.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 44			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
I.	**Subpart T - National Emission Standards for Halogenated Solvent Cleaning**		
	1.	The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent.	☐YES ☒NO
	2.	The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride.	☐YES ☒NO
	3.	The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride.	☐YES ☒NO
J.	**Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins**		
	1.	The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units. *If the response to Question VIII.J.1 is "NO," go to Section VIII.K.*	☐YES ☒NO
	2.	Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U. *If the response to Question VIII.J.2 is "NO," go to Section VIII.K.*	☐YES ☐NO
	3.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482.	☐YES ☐NO
	4.	The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 45		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)		
5.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.*	☐YES ☐NO
6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.*	☐YES ☐NO
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 46		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)		
	Containers	
11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
	Drains	
12.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.*	☐YES ☐NO
13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO
14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
15.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. *If the response to Question VIII.J.15 is "NO," go to Section VIII.K.*	☐YES ☐NO
16.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12). *If the response to Question VIII.J.16 is "NO," go to Section VIII.K.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 47		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)		
***Drains* (continued)**		
17.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate.	☐YES ☐NO
18.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO
19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute.	☐YES ☐NO
K. Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production		
1.	The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area. *If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.*	☐YES ☒NO ☐N/A
2.	The application area includes a BLR and/or WSR research and development facility.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 48		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
L.	**Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting**	
1.	The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter. *If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M.*	☐YES ☐NO ☒N/A
2.	The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources.	☐YES ☐NO
M.	**Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations**	
1.	The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.	☐YES ☒NO
N.	**Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**	
	Applicability	
1.	The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7). *If the response to Question VIII.N.1 is "NO," go to Section VIII.O.*	☐YES ☒NO
2.	All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7). *If the response to Question VIII.N.2 is "YES," go to Section VIII.O.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 49		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)		
***Applicability* (continued)**		
3.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). *If the response to Question VIII.N.3 is "NO," go to Section VIII.O.*	☐YES ☐NO
4.	The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC. *If the response to Question VIII.N.4 is "NO," go to Section VIII.O.*	☐YES ☐NO
5.	The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	☐YES ☐NO
6.	The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	☐YES ☐NO
7.	The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section. *If the response to Question VIII.N.7 is "NO," go to Section VIII.O.*	☐YES ☐NO
8.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 50		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
N.	**Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)**	
	***Applicability* (continued)**	
9.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii). *If the response to Question VIII.N.9 is "NO," go to Section VIII.O.*	☐YES ☐NO
10.	The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992.	☐YES ☐NO
	Containers, Drains, and other Appurtenances	
11.	The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	☐YES ☐NO
12.	The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	☐YES ☐NO
O.	**Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations**	
1.	The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1). *If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P*	☐YES ☒NO ☐N/A
2.	Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.	☐YES ☐NO
3.	The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 51		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)		
4.	The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).	☐YES ☐NO
5.	The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a "state" or "municipality."	☐YES ☐NO
6.	The predominant activity in the application area is the treatment of wastewater received from off-site.	☐YES ☐NO
7.	The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).	☐YES ☐NO
8.	The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61.	☐YES ☐NO
9.	The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).	☐YES ☐NO
10.	The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year. *If the response to Question VIII.O.10 is "YES," go to Section VIII.P.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 52		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)		
11.	The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater. *If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.*	☐YES ☐NO
12.	VOHAP concentration is determined by direct measurement.	☐YES ☐NO
13.	VOHAP concentration is based on knowledge of the off-site material.	☐YES ☐NO
14.	The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system. *If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.*	☐YES ☐NO
15.	An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.	☐YES ☐NO
16.	An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	☐YES ☐NO
17.	The application area includes containers that manage non-exempt off-site material.	☐YES ☐NO
18.	The application area includes individual drain systems that manage non-exempt off-site materials.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 53			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
	P.	**Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities**	
	1.	The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components. *If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.*	☐YES ☒NO ☐N/A
	2.	The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).	☐YES ☐NO
	Q.	**Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.**	
♦	1.	The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer.	☐YES ☒NO
♦	2.	The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user. *For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R.* *For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.*	☐YES ☒NO
♦	3.	The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761. *For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R.* *For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.*	☐YES ☐NO
♦	4.	The application area is located at a site that is a major source of HAP. *If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 54			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
	Q. Subpart - HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)		
♦	5.	The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft^3) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day. *For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R.* *For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z.* *For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.*	☐YES ☐NO
♦	6.	The application area includes a triethylene glycol (TEG) dehydration unit. *For SOP applications, f the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.*	☐YES ☐NO
♦	7.	The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.	☐YES ☐NO
♦	8.	The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.	☐YES ☐NO
♦	9.	Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 55			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
R.	**Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)**		
	1.	The application area includes shipbuilding or ship repair operations. *If the response to Question VIII.R.1 is "NO," go to Section VIII.S.*	☐YES ☒NO
	2.	Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.	☐YES ☐NO
S.	**Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations**		
	1.	The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations. *If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.*	☐YES ☒NO ☐N/A
	2.	The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.	☐YES ☐NO
T.	**Subpart KK - National Emission Standards for the Printing and Publishing Industry**		
	1.	The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.	☐YES ☒NO ☐N/A
U.	**Subpart PP - National Emission Standards for Containers**		
	1.	The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions. *If the response to Question VIII.U.1 is "NO," go to Section VIII.V.*	☐YES ☒NO
	2.	The application area includes containers using Container Level 1 controls.	☐YES ☐NO
	3.	The application area includes containers using Container Level 2 controls.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 56			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
U.	**Subpart PP - National Emission Standards for Containers (continued)**		
	4.	The application area includes containers using Container Level 3 controls.	☐YES ☐NO
V.	**Subpart RR - National Emission Standards for Individual Drain Systems**		
	1.	The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.	☐YES ☒NO
W.	**Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards**		
	1.	The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.	☐YES ☒NO
	2.	The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process. *If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.*	☐YES ☒NO
	3.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).	☐YES ☐NO
	4.	The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).	☐YES ☐NO
	5.	All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.	☐YES ☐NO
	6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 57		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
12.	The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.*	☐YES ☐NO
13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.	☐YES ☐NO
14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 58		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
15.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit. *If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.*	☐YES ☐NO
16.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3). *If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.*	☐YES ☐NO
17.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.	☐YES ☐NO
18.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 59		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.	☐YES ☒NO
20.	The application area includes an ethylene production process unit.	☐YES ☒NO ☐N/A
21.	The application area includes waste streams generated from an ethylene production process unit. *If the responses to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.*	☐YES ☒NO ☐N/A
22.	The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1). *If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
23.	Waste stream(s) are transferred off-site for treatment. *If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.*	☐YES ☐NO
24.	The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. *If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 60		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
25.	The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).	☐YES ☐NO
26.	The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b). *If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
27.	The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control. *If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
28.	The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s). *If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.*	☐YES ☐NO
29.	The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	☐YES ☐NO
30.	The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. *If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
31.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 61		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
32.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. *If the response to Question VIII.W.32 is required, go to Question VIII.W.43.*	☐YES ☐NO
33.	The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. *If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.*	☐YES ☐NO
34.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.*	☐YES ☐NO
35.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
36.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream. *If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
37.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 62		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
38.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.*	☐YES ☐NO
39.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
40.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
41.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES ☐NO
42.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐YES ☐NO
43.	The application area has at least one waste stream that contains benzene. *If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
44.	The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. *If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.*	☐YES ☐NO
45.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 63		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
46.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
47.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene. *If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
48.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.*	☐YES ☐NO
49.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.*	☐YES ☐NO
50.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
51.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
52.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 64		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
53.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐YES ☐NO
54.	The application area contains a cyanide chemicals manufacturing process. *If the response to Question VIII.W.54 is "NO," go to Section VIII.X.*	☐YES ☒NO
55.	The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	☐YES ☐NO
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins		
1.	The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ. *If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.*	☐YES ☒NO
2.	The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units. *If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.*	☐YES ☐NO
3.	All process wastewater streams generated or managed in the application area are from sources producing polystyrene. *If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.*	☐YES ☐NO
4.	All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. *If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 65		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)		
5.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.	☐YES ☐NO
6.	The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	☐YES ☐NO
7.	The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	☐YES ☐NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.*	☐YES ☐NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.X.11 - VIII.X.12 are both "NO," go to Question VIII.X.14.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 66		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)		
13.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
Containers		
14.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
Drains		
15.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.*	☐YES ☐NO
16.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO
17.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
18.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an thermoplastic product process unit. *If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 67		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)		
***Drains* (continued)**		
19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12). *If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.*	☐YES ☐NO
20.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate.	☐YES ☐NO
21.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO
22.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 68			
VIII.	**Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)**		
	Y.	**Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.**	
	1.	The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	☐YES ☒NO
	Z.	**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills.**	
♦	1.	The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.	☐YES ☒NO
	AA.	**Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)**	
	1.	The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).	☐YES ☒NO
	2.	The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	☐YES ☒NO
	3.	The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. *If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.*	☐YES ☒NO
	4.	The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF. *If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 69		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
5.	The application area includes process wastewater streams. *If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.18.*	☐YES ☐NO
6.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	☐YES ☐NO
7.	The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	☐YES ☐NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.AA.8 is "YES," go to Section VIII.AA.22.*	☐YES ☐NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 70		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
13.	Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). *If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.*	☐YES ☐NO
14.	The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.	☐YES ☐NO
15.	Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite. *If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.*	☐YES ☐NO
16.	The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.	☐YES ☐NO
17.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
18.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
19.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.*	☐YES ☐NO
20.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 71		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
21.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
22.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). *If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.*	☐YES ☐NO
23.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). *If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.*	☐YES ☐NO
24.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.	☐YES ☐NO
25.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.	☐YES ☐NO
26.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 72		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.		
1.	The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.	☐YES ☒NO
CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation		
1.	The application area includes a facility at which a site remediation is conducted. *If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.*	☐YES ☒NO
2.	The application area is located at a site that is a major source of HAP. *If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.*	☐YES ☐NO
3.	All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6). *If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.*	☐YES ☐NO
4.	Prior to beginning site remediation activities it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr. *If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.*	☐YES ☐NO
5.	The site remediation will be completed within 30 consecutive calendar days.	☐YES ☐NO
6.	No site remediation will exceed 30 consecutive calendar days. *If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.*	☐YES ☐NO
7.	Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.	☐YES ☐NO
8.	All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. *If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 73		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)		
9.	The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG. *If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.*	☐YES ☐NO
10.	The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	☐YES ☐NO
11.	The application area includes containers with a capacity greater than 0.46 m^3 that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).	☐YES ☐NO
12.	The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).	☐YES ☐NO
13.	The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	☐YES ☐NO
14.	The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	☐YES ☐NO
DD. Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities		
1.	The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions. *If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.*	☐YES ☒NO
2.	The EAF steelmaking facility is a research and development facility. *If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.*	☐YES ☐NO
3.	Metallic scrap is utilized in the EAF.	☐YES ☐NO
4.	Scrap containing motor vehicle scrap is utilized in the EAF.	☐YES ☐NO
5.	Scrap not containing motor vehicle scrap is utilized in the EAF.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 74		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities		
1.	The application area is located at a site that is an area source of HAPs. *If the answer to Question EE.1 is "NO," go to Section VIII.FF.*	☒YES ☐NO
2.	The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.	☐YES ☒NO
3.	The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.	☐YES ☒NO
4.	The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB. *If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.*	☐YES ☒NO
5.	The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).	☐YES ☐NO
6.	The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC. *If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.*	☐YES ☒NO
7.	The bulk gasoline terminal has throughput of less than 250,000 gallons per day. *If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.*	☐YES ☐NO
8.	The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	☐YES ☐NO
9.	The bulk gasoline terminal loads gasoline into railcar cargo tanks. *If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.*	☐YES ☐NO
10.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 75			
VIII.	**Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)**		
	EE.	**Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)**	
	11.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit.	☐YES ☐NO
	FF.	**Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities**	
♦	1.	The application area is located at a site that is an area source of hazardous air pollutants. *If the answer to Question VIII.FF.1 is "NO," go to Section VIII.GG.*	☒YES ☐NO
♦	2.	The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132. *If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.*	☐YES ☒NO
♦	3.	The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.	☐YES ☐NO
♦	4.	The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.	☐YES ☐NO
	GG.	**Recently Promulgated 40 CFR Part 63 Subparts**	
♦	1.	The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form. *If the response to Question VIII.GG.1 is "NO," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions.*	☒YES ☐NO
♦	2.	Provide the Subpart designation (i.e. Subpart EEE) in the space provided below. **Subpart ZZZZ**	

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 76			
IX.	**Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions**		
	A.	**Applicability**	
♦	1.	The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.	☐YES ☒NO
X.	**Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone**		
	A.	**Subpart A - Production and Consumption Controls**	
♦	1.	The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.	☐YES ☒NO ☐N/A
	B.	**Subpart B - Servicing of Motor Vehicle Air Conditioners**	
♦	1.	Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.	☐YES ☒NO
	C.	**Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances**	
♦	1.	The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.	☐YES ☒NO ☐N/A
	D.	**Subpart D - Federal Procurement**	
♦	1.	The application area is owned/operated by a department, agency, or instrumentality of the United States.	☐YES ☒NO ☐N/A
	E.	**Subpart E - The Labeling of Products Using Ozone Depleting Substances**	
♦	1.	The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.	☐YES ☒NO ☐N/A
♦	2.	The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	☐YES ☒NO ☐N/A
♦	3.	The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.	☐YES ☒NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 77				
X.	**Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)**			
	F.	**Subpart F - Recycling and Emissions Reduction**		
♦	1.	Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.	☐YES	☒NO
♦	2.	Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.	☐YES	☒NO ☐N/A
♦	3.	The application area manufactures appliances or refrigerant recycling and recovery equipment.	☐YES	☒NO ☐N/A
	G.	**Subpart G - Significant New Alternatives Policy Program**		
♦	1.	The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound. *If the response to Question X.G.1 is "NO" or "N/A," go to Section X.H.*	☐YES	☒NO ☐N/A
♦	2.	All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).	☐YES	☐NO ☐N/A
	H.	**Subpart H -Halon Emissions Reduction**		
♦	1.	Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.	☐YES	☒NO ☐N/A
♦	2.	Disposal of halons or manufacturing of halon blends is conducted in the application area.	☐YES	☒NO ☐N/A
XI.	**Miscellaneous**			
	A.	**Requirements Reference Tables (RRT) and Flowcharts**		
	1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.	☐YES	☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 78			
XI.	**Miscellaneous (continued)**		
	B.	**Forms**	
♦	1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form. *If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.*	☐YES ☒NO ☐N/A
♦	2.	Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter, and Division designation for the State regulation(s) in the space provided below.	
	C.	**Emission Limitation Certifications**	
♦	1.	The application area includes units for which federally enforceable emission limitations have been established by certification.	☒YES ☐NO
	D.	**Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements**	
	1.	The application area is located at a site that is subject to a site-specific requirement of the state implementation plan (SIP).	☐YES ☒NO
	2.	The application area includes units located at the site that are subject to a site-specific requirement of the SIP.	☐YES ☒NO
	3.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator. *If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.*	☐YES ☒NO
	4.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director. *If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.*	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 79		
XI.	**Miscellaneous (continued)**	
E.	**Title IV - Acid Rain Program**	
1.	The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program.	☐YES ☒NO
2.	The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.	☐YES ☒NO
3.	The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.	☐YES ☒NO
F.	**40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_X Ozone Season Group 2 Trading Program**	
1.	The application area includes emission units subject to the requirements of the CSAPR NO_X Ozone Season Group 2 Trading Program. *If the response to Question XI.F.1 is "NO," go to Question XI.F.7.*	☐YES ☒NO
2.	The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X and heat input.	☐YES ☐NO
3.	The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X, and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	☐YES ☐NO
4.	The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO_X, and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	☐YES ☐NO
5.	The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO_X and heat input.	☐YES ☐NO
6.	The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO_X and heat input.	☐YES ☐NO
7.	The application area includes emission units that qualify for the CSAPR NO_X Ozone Season Group 2 retired unit exemption.	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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Form OP-REQ1: Page 80		
XI.	**Miscellaneous (continued)**	
G.	**40 CFR Part 97, Subpart FFFFF - Texas SO_2 Trading Program**	
1.	The application area includes emission units complying with the requirements of the Texas SO_2 Trading Program. *If the response to Question XI.G.1 is "NO," go to Question XI.G.6.*	☐YES ☒NO
2.	The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO_2 and 40 CFR Part 75, Subpart H for heat input.	☐YES ☐NO
3.	The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO_2 and heat input.	☐YES ☐NO
4.	The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO_2 and heat input.	☐YES ☐NO
5.	The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO_2 and heat input.	☐YES ☐NO
6.	The application area includes emission units that qualify for the Texas SO_2 Trading Program retired unit exemption.	☐YES ☒NO
H.	**Permit Shield (SOP Applicants Only)**	
1.	A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.	☒YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 81			
XI.	**Miscellaneous (continued)**		
	I.	**GOP Type (Complete this section for GOP applications only)**	
♦	1.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.	☐YES ☐NO
♦	2.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.	☐YES ☐NO
♦	3.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.	☐YES ☐NO
♦	4.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County.	☐YES ☐NO
♦	5.	The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.	☐YES ☐NO
	J.	**Title 30 TAC Chapter 101, Subchapter H**	
♦	1.	The application area is located in a nonattainment area. *If the response to Question XI.J.1 is "NO," go to question XI.J.3.*	☐YES ☒NO
♦	2.	The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	☐YES ☐NO ☐N/A
♦	3.	The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	☐YES ☒NO ☐N/A

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 82			
XI.	**Miscellaneous (continued)**		
	J.	**Title 30 TAC Chapter 101, Subchapter H (continued)**	
♦	4.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO_X.	☐YES ☒NO
♦	5.	The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	☐YES ☒NO
♦	6.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly-reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.	☐YES ☒NO
♦	7.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.	☐YES ☒NO
	K.	**Periodic Monitoring**	
♦	1.	The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.	☐YES ☒NO
♦	2.	The permit currently contains at least one periodic monitoring requirement. *If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.*	☐YES ☒NO
♦	3.	All periodic monitoring requirements are being removed from the permit with this application.	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 83			
XI.	**Miscellaneous (continued)**		
	L.	**Compliance Assurance Monitoring**	
♦	1.	The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source. *If the response to Question XI.L.1 is "NO," go to Section XI.M.*	☐YES ☒NO
♦	2.	The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. *If the response to Question XI.L.2 is "NO," go to Section XI.M.*	☐YES ☐NO
♦	3.	The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	☐YES ☐NO
♦	4.	The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application. *If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.*	☐YES ☐NO
	5.	The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.	☐YES ☐NO
	6.	Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.	
♦	7.	At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).	☐YES ☐NO
♦	8.	All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2). *If the response to Question XI.L.8 is "YES," go to Section XI.M.*	☐YES ☐NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 84				
XI.	**Miscellaneous (continued)**			
	L.	**Compliance Assurance Monitoring (continued)**		
♦		9.	At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses particulate matter, and the emission unit has a capture system as defined in 40 CFR §64.1.	☐YES ☐NO
♦		10.	At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.	☐YES ☐NO
♦		11.	At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses a regulated pollutant other than particulate matter or VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.	☐YES ☐NO
♦		12.	The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	☐YES ☐NO
	M.	**Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times**		
♦		1.	The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004. *If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.*	☐YES ☒NO ☐N/A
♦		2.	All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
XII.	**New Source Review (NSR) Authorizations**			
	A.	**Waste Permits with Air Addendum**		
♦		1.	The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum. *If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.*	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 85			
XII. New Source Review (NSR) Authorizations (continued)			
	B. Air Quality Standard Permits		
♦	1.	The application area includes at least one Air Quality Standard Permit NSR authorization. *If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H and answer XII.B.2 - B.16 as appropriate.*	☐YES ☒NO
♦	2.	The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	☐YES ☐NO
♦	3.	The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	☐YES ☐NO
♦	4.	The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.	☐YES ☐NO
♦	5.	The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.	☐YES ☐NO
♦	6.	The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	☐YES ☐NO
♦	7.	The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.	☐YES ☐NO
	8.	The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	9.	The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	10.	The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	☐YES ☐NO

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

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

For SOP applications, answer ALL questions unless otherwise directed.
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Form OP-REQ1: Page 86			
XII. New Source Review (NSR) Authorizations (continued)			
	B.	**Air Quality Standard Permits (continued)**	
♦	11.	The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	12.	The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. *If the response to XII.B.12 is "NO," go to Question XII.B.15.*	☐YES ☐NO
♦	13.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	☐YES ☐NO
♦	14.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	☐YES ☐NO
♦	15.	The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	16.	The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
	C.	**Flexible Permits**	
	1.	The application area includes at least one Flexible Permit NSR authorization.	☐YES ☒NO
	D.	**Multiple Plant Permits**	
	1.	The application area includes at least one Multi-Plant Permit NSR authorization.	☐YES ☒NO

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 87			
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)			
E. PSD Permits and PSD Major Pollutants			
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.			
F. Nonattainment (NA) Permits and NA Major Pollutants			
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.			
G. NSR Authorizations with FCAA § 112(g) Requirements			
NSR Permit No.: TBD	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
♦ **H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area**			
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

Date:	04/01/2022
Permit No.:	TBD
RN No.:	

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

Form OP-REQ1: Page 88	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
♦ I. Permits by Rule (30 TAC Chapter 106) for the Application Area	
A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.	
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
♦ J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum	
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:

Texas Commission on Environmental Quality
Form OP-REQ2 - Instructions

Negative Applicable Requirement Determinations

General:

The purpose of this form is to document negative applicability from potentially applicable requirements for units, groups, and processes when a permit shield is requested. Negative applicability when a permit shield is NOT requested may be documented on this form OR the appropriate OP-UA form.

A negative applicability determination is any regulatory citation that provides the basis whereby one or every operating condition of a device is not subject to a regulation. For example; Title 40 Code of Federal Regulation § 60.110b(a) [40 CFR § 60.110b(a)] could be the regulatory basis for a negative applicability determination for a VOC storage tank of less than 75 cubic meters; therefore, the storage tank is completely exempt from 40 CFR Part 60, Subpart Kb.

Note: Numerous regulatory citations appear to authorize exemptions to qualifying units from those regulations. However, closer examination typically reveals that there are still some requirements which must still be met (such as recordkeeping). For example,30 TAC Chapter 117, § 117.203(a)(12)(A) authorizes an exemption to the ICI division for a stationary diesel engine in Houston-Galveston area (after October 1, 2001) which operates < 100 hr/yr in other than emergency situations. However, § 117.213(I) specifies that an owner/operator claiming an exemption under § 117.203(a)(12)(A) shall record the operating time with an elapsed run time meter.

For certain emission units subject to certain MACT (40 CFR Part 63) standards, other federal regulations may apply. In many instances one of the overlapping regulations may specify which rule supersedes the other. Although superseded rules do not qualify as negative applicability determinations, it has been determined that these instances can be documented on the Form OP-REQ2, if the applicant elects to comply only with the superseding requirement. For example; a Group 1 or Group 2 Storage Tank, subject to MACT G, may not be required to comply with NSPS Kb due to rule overlap of MACT G. In this case, the permit applicant may request a permit shield from NSPS Kb. In this case, the applicant must submit the superseding requirement citation, § 63.110(b), and a textual description of the superseding determination, if they elect to comply with only the superseding requirement.

When this form is used for an emission source which has one or more potential applicable requirements, the applicant must list all the requirements for which negative applicability determinations can be made. Once the negative determinations have been made, indicate the citation and reason for non-applicability in the appropriate columns. Indicate the determinations for all potentially applicable requirements for each emission source before listing the next source.

Negative applicability determinations for potentially applicable requirements, confirmed by the TCEQ, may be approved as a permit shield (see instructions outlined in Area Wide Applicability Determinations, Form OP-REQ1, to request a permit shield). However, if a permit shield is requested, an OP-REQ2 is always required. For additional information relating to permit shields, refer to the TCEQ guidance document entitled "Permit Shield Guidance (www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/permit_shield.pdf)".

The Company Name and Area Name (from Form OP-1, Section I and X, respectively) must appear in the header block of each page for purposes of identification. The date of submittal must also be included, and should be consistent throughout the application *(MM/DD/YYYY).* Any subsequent submittals must show the date of revision. Also enter the Regulated Entity Number (RN*XXXXXXXXXX*) and Permit Number (O*XXXX*), if assigned.

Specific:

Unit Action Indicator (AI): Only complete this section for the permit revision/renewal. Enter "A" if the entry is a permit addition. Otherwise, enter "D" to indicate a deletion.

Revision No.: Complete this section only for the permit revision/renewal. Enter the number identified on Form OP-2 (Application for Permit Revision). This number will link the specific negative applicable requirement determination to the appropriate revision.

Unit/Group/Process:

ID NO.: Enter the identification number (ID No.) (maximum 10 characters) of the unit, group, or process as listed on Form OP-SUM (Individual Unit Summary).

Applicable Form: Enter the number of the UA form which contains the specific information for the corresponding emission unit, emission point, or process (i.e., for flares enter "OP-UA7" entitled "Flares") if the unit/emission point, process has other applicable requirements. If negative applicability determinations are only being substantiated on this form by a textual description of the reason, and the emission unit, emission point, or process has no other positive applicability, enter "OP-REQ2." The Applicable Form entered on OP-REQ2 must match the applicable form entered on OP-SUM for the emission unit, emission point, or process.

Potentially Applicable Regulatory Name: Enter the name of the potentially applicable requirement (maximum 25 characters) for which negative applicability is being demonstrated.

Note: Permit shields cannot be granted for permit authorizations of any kind (i.e. - PSD, NSR permit, Acid Rain, etc.).

Negative Applicability Citation: Enter the citation of the paragraph of the rule that was used to determine negative applicability. Provide the citation detail to the level of the paragraph allowing the exemption, exclusion, or non-applicability. If there is more than one citation for determining negative applicability, select the most appropriate or the clearest (least likely to be misinterpreted). Negative applicability determinations by the applicant are subject to auditing during the permit application review. The applicant must always indicate the negative applicability citation on the OP-REQ2. For examples on the level of detail for citations, see table below (maximum 36 characters).

Example Applicable Regulatory Requirements*		
Regulation	**Name** *(Input Format)*	**Citation** *(Input Format)*
30 TAC Chapters 111, 112, 113, 115 and 117	Chapter 111	§ 111.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 112	§ 112.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 113	§ 113.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 115, Storage of VOCs	§ 115.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 117, ICI	§ 117.*XXX*(*x*)(*yy*)(*zz*)
40 CFR Part 60, Subparts A-WWW, New Source Performance Standards (NSPS)**	NSPS *XXX*	§ 60.*XXX*(*x*)(*yy*)(*zz*)
40 CFR Part 61, Subparts A-FF National Emission Standards for Hazardous Air Pollutants (NESHAP)	NESHAP *XX*	§ 61.*XX*(*x*)(*yy*)(*zz*)
40 CFR Part 63, Subparts A-Y+, NESHAP by source category, including hazardous organic NESHAP (HON)	MACT *XX*	§ 63.*XXX*(*x*)(*yy*)(*zz*)

* This list is not intended to be exhaustive

** The inclusion of 40 CFR Part 60, Subpart A is only for those requirements contained in 40 CFR § 60.18

Negative Applicability Reason: Enter a textual description indicating the reason for the negative applicability determination. If a permit shield is requested, the textual description provided will be recreated as the *Basis of Determination* for the permit shield in the permit. The description may include rule text, rule preamble, or other text resulting from a historical rule interpretation, EPA applicability determination Index (ADI), or case law. Use multiple lines if necessary (maximum 250 characters).

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) M-1	OP-REQ2	MACT Y	40 CFR 63.561	The proposed Texas GulfLink Project does not meet the definition of an offshore loading terminal as defined in Subpart Y. Based on the definitions in Subpart Y, an offshore loading terminal subject to Subpart Y requires at least one loading berth at a sea based structure. The Deepwater Port offshore project will not be an offshore loading terminal as contemplated by these definitions. Additionally, a vapor recovery/vapor control (VR/VC) system is an onshore or near-shore control technology that has never been achieved in practice at a DWP.
		(P) M-1	OP-REQ2	30 TAC 115 - VOC Transfer Operations	30 TAC 115.10	The requirements of this subchapter do not apply to the proposed Deepwater Port facility because the facility will not be located onshore in a designated nonattainment area or in one of the specifically listed covered attainment areas.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) DT-1	OP-REQ2	NSPS Kb	40 CFR 60.110b(b)	This subpart applies to a storage vessel with a capacity greater than or equal to approximately 20,000 gallons that is used to store VOC for which construction, modification or reconstruction commenced after July 23, 1984. While the day tank has a capacity of 20,000 gallons, it contains a liquid with a maximum true vapor pressure less than 15.0 kPa and, therefore, is not subject to this regulation.
		(P) DT-1	OP-REQ2	30 TAC 115-Storage of VOCs	30 TAC 115.10	The requirements of this subchapter do not apply to the proposed storage tank because the facility will not be located onshore in a designated nonattainment area or in one of the specifically listed covered attainment areas.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		GRP-BELLYTANKS [(P) BT-1, BT-2, BT-3, BT-4]	OP-REQ2	NSPS Kb	40 CFR 60.110b(a)	This subpart applies to a storage vessel with a capacity greater than or equal to approximately 20,000 gallons that is used to store VOC for which construction, modification or reconstruction commenced after July 23, 1984. The belly tanks are 1,000 gal tanks that are part of the electric generator, portal crane, and firewater pump engine housing. They are not considered stand-alone tanks and, therefore, are not subject to this regulation.
		GRP-BELLYTANKS [(P) BT-1, BT-2, BT-3, BT-4]	OP-REQ2	30 TAC 115-Storage of VOCs	30 TAC 115.10	The requirements of this subchapter do not apply to the proposed Deepwater Port because the facility will not be located onshore in a designated nonattainment area or in one of the specifically listed covered attainment areas.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) T-1	OP-REQ2	NSPS Kb	40 CFR 60.111b	This subpart applies to a storage vessel with a capacity greater than or equal to approximately 20,000 gallons that is used to store VOC for which construction, modification or reconstruction commenced after July 23, 1984. The proposed crude sugre tank will have a capacity greater than 40,000 gallons, but will not be operated as a storage tank as defined in 40 CFR 60.111b. Surge/relief tanks are different from traditional storage tanks since they do not typically hold liquids during normal operations. Such tanks will receive liquids only during a sudden surge event for which the tank will serve as “relief” and quickly receive the excess liquids for a brief period prior to being returned to the pipeline. The surge tank will not typically contain any crude oil. Therefore, this subpart does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) T-1	OP-REQ2	30 TAC 115-Storage of VOCs	30 TAC 115.10	The requirements of this subchapter do not apply to the proposed storage tank because the facility will not be located onshore in a designated nonattainment area or in one of the specifically listed covered attainment areas.
		(P) F-1	OP-REQ2	NESHAP V	40 CFR 61.6240(a)	The crude to be handled and loaded at the proposed Deepwater Port facility will contain benzene < 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate "In VHAP Service" during normal or MSS operations as defined in 40 CFR 61.241. Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) F-1	OP-REQ2	MACT H	40 CFR 63.160(a)	The provisions of this subpart apply to pumps, compressors, agitators, PRDs, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP) during normal or MSS operations. This subpart does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) F-2	OP-REQ2	NESHAP V	40 CFR 61.6240(a)	The crude to be handled and loaded at the proposed Deepwater Port facility will contain benzene < 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate "In VHAP Service" during normal or MSS operations as defined in 40 CFR 61.241. Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) F-2	OP-REQ2	MACT H	40 CFR 63.160(a)	The provisions of this subpart apply to pumps, compressors, agitators, PRDs, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP) during normal or MSS operations. This subpart does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(OSV) GT-1	OP-UA11	NSPS GG	40 CFR 60.4305(b)	This gas turbine generator is subject to 40 CFR 60 Subpart KKKK, and therefore, is exempt from the requirements of 40 CFR 60 Subpart GG.
		(OSV) GT-2	OP-UA11	NSPS GG	40 CFR 60.4305(b)	This gas turbine generator is subject to 40 CFR 60 Subpart KKKK, and therefore, is exempt from the requirements of 40 CFR 60 Subpart GG.
		(OSV) F-1	OP-REQ2	NESHAP V	40 CFR 61.6240(a)	The crude to be handled and loaded at the proposed Deepwater Port facility will contain benzene < 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate “In VHAP Service” during normal or MSS operations as defined in 40 CFR 61.241. Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(OSV) F-1	OP-REQ2	MACT H	40 CFR 63.160(a)	The provisions of this subpart apply to pumps, compressors, agitators, PRDs, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP) during normal or MSS operations. This subpart does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(OSV) F-2	OP-REQ2	NESHAP V	40 CFR 61.6240(a)	The crude to be handled and loaded at the proposed Deepwater Port facility will contain benzene < 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate "In VHAP Service" during normal or MSS operations as defined in 40 CFR 61.241. Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply.

Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date: 3/31/2022	**Permit No.: TBA**	**Regulated Entity No.: NA**
Area Name: Deepwater Port	**Customer Reference No.: CN605724657**	

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(OSV) F-2	OP-REQ2	MACT H	40 CFR 63.160(a)	The provisions of this subpart apply to pumps, compressors, agitators, PRDs, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP) during normal or MSS operations. This subpart does not apply.

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary
Form OP-SUM Instructions

General:

All units and processes addressed in the application for a permit under Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122) must be listed on this form. The term "unit" in these instructions has the meaning of "emission unit" as defined in 30 TAC Chapter 122. The term "process" refers to a collection of units or devices that have a physical relationship, or source cap, where a regulatory requirement is potentially applicable to the process as a whole.

The purpose of this form is to list individual units and processes addressed in the initial Federal Operating Permit (FOP) application and to provide identifying information and preconstruction authorizations. (Form OP-SUMR should be used for revisions and renewals.) This form is also used to designate members of groups.

The following units and processes are required to be listed:

- Units or processes with one or more potentially applicable requirements as indicated by a corresponding unit attribute (UA) form;
- Units or processes for which a permit shield for one or more potentially applicable requirements is being requested on Form OP-REQ2 (For details, see Form OP-REQ2, Negative Applicable Requirement Determinations); and
- Units or processes listed on Form OP-ACPS, Application Compliance Plan and Schedule.

Units or processes for which the only potentially applicable requirement is a New Source Review (NSR) authorization and no additional monitoring is required are not required to be listed on Form OP-SUM, except when required due to appearance on Form OP-ACPS.

Note: The NSR authorization(s) covering these units and processes must be identified in Section XII of Form OP-REQ1, Application Area-Wide Applicability Determinations and General Information.

The corresponding preconstruction authorization for each unit and process addressed in the application must also be listed on this form. For units or processes which were authorized to construct or modify under Permits by Rule (PBR), list all applicable PBR information, including registration numbers. If a unit or process is authorized under more than one preconstruction authorization, then list all applicable preconstruction authorizations, including any Prevention of Significant Deterioration (PSD) and/or nonattainment permit(s).

Groups:

- A "group" is a collection of units or devices that have identical applicability (or non-applicability) determinations and may, or may not, have a physical relationship.
- Group members may have different 30 TAC Chapter 116 or 30 TAC Chapter 106 preconstruction authorizations.
- Groups may be used on UA forms only if all unit attributes are identical.
- Flares cannot be grouped.
- All groups must be mutually exclusive. Units cannot be listed in more than one group on a given UA form.
- Grouping is optional.
- Groups are assigned an ID No. by the applicant, which must begin with the prefix "GRP" followed by a maximum of seven characters (GRP*XXXXXXX*).

Processes:

- A "process" is a quasi-unit representing a collection of units or devices that have a physical relationship and for which a regulatory requirement applies to the process as a whole.

  Example: Title 40 Code of Federal Regulations Part 60, Subpart LLL (40 CFR Part 60, Subpart LLL) would apply to a process consisting of a sweetening unit, followed by a sulfur recovery unit. But it would not be appropriate to represent 40 CFR Part 60, Subpart LLL as applying to the individual member units, therefore the "process" is designated to represent this applicability.

- Individual units in a process do not need to be identified unless they have potentially applicable requirements unto themselves. Use multiple lines to identify such units.
- The Process ID must appear as an entry in the Unit ID No. column of Form OP-SUM, and a Name/Description and Preconstruction Authorization information must be provided.
- Processes are assigned an ID No. by the applicant, which must begin with the prefix "PRO" followed by seven or less characters (PRO*XXXXXXX*).
- The UA forms that are applicable to processes will ask for the Process ID No., instead of the Unit ID No.

The Company Name and Area name (from Form OP-1, Section I and X, respectively) must appear in the header of each page for the purpose of identification. The date of submittal must also be included and should be consistent throughout the application (*MM/DD/YYYY*). Any subsequent submittals must show the date of revision. Also, enter the Regulated Entity Reference Number (RN*XXXXXXXXX*) and (FOP) Permit Number (O*XXXX*), if assigned.

Specific:

Table 1

Unit/Process ID No.:
Each unit or process must be assigned an identification number. (Maximum 10 characters)

- For emission **units and processes** with potentially applicable requirements, enter the Facility ID Nos. (FINs) as listed in the TCEQ State of Texas Air Reporting System (STARS);
- For emission **points** with potentially applicable requirements, enter the emission point numbers (EPNs) as listed in the STARS; or
- If the FIN or EPN currently does not exist in the STARS, then a new ID No. that is consistent with the existing numbering system must be provided by the applicant.
- If a unit is included in the application strictly as a result of its appearance on Form OP-ACPS, then follow the instructions for Form OP-ACPS when selecting an appropriate ID No.
- Unit/Process ID Nos. cannot begin with "GRP" (the character sequence reserved for Group ID Nos.) and must begin with "PRO" when a Process ID No. is required.

  Note: Due to differences between the TCEQ Air Permits Division and TCEQ Industrial Emissions Assessment Section, identification numbers for fugitive sources designated for 30 TAC Chapter 122 purposes may be different than those used for STARS purposes.

  If there is no difference between the fugitive area defined for 30 TAC Chapter 122 purposes and the fugitive area used for STARS purposes, enter the fugitive ID No. as listed in the STARS.

  If a difference exists because new fugitive areas have been created for 30 TAC Chapter 122 purposes, or if the fugitive area has not been assigned an ID No. in the STARS, then a new ID No. that is consistent with the existing numbering system must be provided by the applicant.

Applicable Form:
Enter the number of the UA form which contains the specific information regarding the corresponding emission unit, emission point, or process.

- List the Unit Attribute (UA) form number corresponding to the type of unit or process (OP-UA*XX*), e.g. "OP-UA7" for a flare. The UA form number should be listed unless one of the following conditions below is met. If a Unit ID No. appears on multiple unit attribute forms, the Unit ID should be repeated on this form, which each unit attribute form listed once as the Applicable Form. See www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html for a list of UA forms.
- If the unit is included in the application strictly as a result of its appearance on Form OP-ACPS (Application Compliance Plan and Schedule), **and** the unit does not appear on any UA form, "OP-ACPS" may be entered as the Applicable Form. If the unit is included in the application strictly as a result of a negative applicability determination, **and** the unit does not appear on any UA form for positive or negative determinations, "OP-REQ2" may be entered as the Applicable Form. If the unit appears on any unit attribute form, do not list OP-REQ2 as an Applicable Form.

  Note: The Applicable Form is used to designate the Unit Type that will appear in the Unit Summary of the FOP. Also, each combination of Unit/Process ID No. and Applicable Form is considered a distinct unit or process within the FOP. For example, UNITX/OP-UA6 and UNITX/OP-UA15 are considered distinct units in the application and must be addressed separately in application updates, revisions, or renewals.

Unit/Process Name/Description:
Each unit or process must be given a name or description that distinguishes it from other units as much as practicable. The Unit/Process Name/Description should clearly indicate the type of unit. If possible, please avoid using generic descriptions, such as "Tank" or "Boiler," for multiple units. (Maximum 50 characters)

- Enter a text name or description for the unit or process from the STARS whenever possible.
- If no STARS name currently exists, a new name that is consistent with the existing naming convention must be provided by the applicant.

CAM *(For reference only)***:**
Indicate if the unit is subject to 40 CFR Part 64 by placing an "X" in the "CAM" column next to the unit. Please refer to 40 CFR Part 64 to determine applicability. *Certification by the Responsible Official (RO) pursuant to 30 TAC § 122.165 does not extend to the information which is designated on forms as "For reference only."*

Preconstruction Authorizations:
At least one preconstruction authorization must be indicated for each unit; however, a unit may have multiple authorizations. *All preconstruction authorizations listed on this form must also be identified on Form OP-REQ1.*

30 TAC Chapter 116/30 TAC Chapter 106:
List all 30 TAC Chapter 116 or 30 TAC Chapter 106 preconstruction authorizations, including PBR registration numbers, under which the unit or process is operating. Use additional lines to list multiple authorizations.

Permit Number:
Enter the TCEQ NSR permit number(s) (*XXXXX*), for example, 12345. This includes special permits and standard permit registrations. Do not enter PSD permits and nonattainment permits.

Permit by Rule *(previously called Standard Exemption)*:
For each PBR claimed or registered under 30 TAC Chapter 106, and each standard exemption claimed or registered previously under 30 TAC Chapter 116, enter the number and effective date in the appropriate format shown below.

Note: All units authorized by PBR must also be identified on Form OP-PBRSUP.

Format	**PBR/standard exemption claimed or registered date**
106.*XXX/MM/DD/YYYY[rrrr]*	Authorized on or after March 14, 1997 (except 106.181 is on or after December 27, 1996)
XXX/MM/DD/YYYY[rrrr]	Authorized prior to March 14, 1997

XXX = 30 TAC Chapter 116 standard exemption number or 30 TAC Chapter 106 PBR number.
MM/DD/YYYY = Effective date of the Standard Exemption or PBR in effect at the time claimed or granted.
Information on Chapter 116 version dates is available at www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html.

Information on Chapter 106 version dates is available at www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html.

[rrrr] = Registration number for the authorization. If multiple registration numbers apply, list them separated by commas.

Examples: Standard exemptions and PBRs would be reflected in Form OP-SUM as follows:

Authorization	**Std. Ex./PBR No.**	**Date Authorized**	**Format**
Authorized on or after March 14, 1997	106.473	July 25, 1997	106.473/03/14/1997[1010, 2020]
Authorized prior to March 14, 1997	53	October 20, 1990	53/09/12/1989[1010, 2020]

Please note that prior to March 14, 1997, a standard exemption list was incorporated by reference into 30 TAC Chapter 116 and each standard exemption had an assigned number, e.g., 112. Each standard exemption now resides in a section of 30 TAC Chapter 106 (e.g., 30 TAC § 106.148) and now is referred to as a PBR. (Standard exemptions were readopted under the PBR designation on March 14, 1997.) Information regarding PBRs may be found on the TCEQ website at www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

The applicant has the option of claiming a newer and more stringent version of the standard exemption or PBR if the original applicable version of the standard exemption or PBR cannot easily be determined. As an example of a standard exemption authorized before March 14, 1997, Standard Exemption No. 6 had an effective date of August 30, 1988. It was then amended with a new effective date of July 20, 1992. The standard exemption identifier for a compressor engine constructed in 1993 and registered under Standard Exemption No. 6 would be represented as 6/07/20/1992[rrrr], where [rrrr] is the registration number.

As an example of a PBR authorized on or after March 14, 1997, Standard Exemption No. 6 had an effective date of June 7, 1996. It was then amended and moved to 30 TAC § 106.512 with an effective date of March 14, 1997. The PBR identifier for a compressor engine constructed in 1998 and registered under 30 TAC § 106.512 would be represented as 106.512/03/14/1997[rrrr], where [rrrr] is the registration number.

Also, please note that as of August 1, 2020, PBR registration numbers are required to be submitted on this form.

Title I:
List all Title I preconstruction authorizations (PSD and nonattainment permits) for which the unit is operating. Use multiple lines to list all authorizations. The format of the entry is based on the types of authorization, below. *Title I authorizations should only be listed for units addressed by the PSD or nonattainment permits.*

Prevention of Significant Deterioration (PSD) Permit:
Enter the PSD permit number (PSDTX*XXX*), for example, PSDTX123. If the PSD permit has been modified, include the "M" suffix (PSDTX*XXX*M*XX*), for example, PSDTX123M5.

Nonattainment Permit:
Enter each nonattainment permit number (N*XXX*), for example, N123. If the nonattainment permit has been modified, include the "M" suffix (N*XXX*M*XX*), for example, N123M5.

Group ID No.:
If applicable, enter the unique identification number for the group which includes this unit (GRP*XXXXXXX*). If the unit is not a member of a group, leave this column blank. (See general instructions, above, for information regarding requirements for grouping units in FOP applications.)

Examples: The following examples are intended as guidance on completion of columns on Form OP-SUM for various situations. It should be assumed that units in these examples meet all criteria for inclusion in the application, and appear on UA forms. Criteria for grouping are also assumed to be satisfied.

1. Two boilers and their associated stack with flow rates greater than 100,000 acfm:

FIN	EPN	Facility Name	Point Name
B-1	B-1-STK	BOILER 1	BOILER 1 STACK
B-2	B-2-STK	BOILER 2	BOILER 2 STACK

2. A floating roof tank that is part of a polymer manufacturing process (process identification number PRO-POLY), which also has additional applicable requirements unto itself:

FIN	EPN	Facility Name	Point Name
T-3	T-3	TANK 3	TANK 3

3. A process fugitive area:

FIN	EPN	Facility Name	Point Name
FUG-1	FUG-1	FUGITIVES	FUGITIVES

The units, groups, and processes would be reflected in Form OP-SUM as follows *(CAM and Preconstruction Authorizations are not shown)*:

Unit/Process ID No.	Applicable Form	Unit Name/Description	Group ID No.
B-1	OP-UA6	Boiler 1	GRP-BOILER
B-1-STK	OP-UA15	Boiler 1 Stack	GRP-STACK
B-2	OP-UA6	Boiler 2	GRP-BOILER
B-2-STK	OP-UA15	Boiler 2 Stack	GRP-STACK
PRO-POLY	OP-UA28	Polymer Manufacturing Process	
T-3	OP-UA3	Tank 3	
FUG-1	OP-UA12	Process Fugitives	

Table 2

Complete Table 2 only for Affected Sources that are subject to the following Program(s): Acid Rain and/or Cross-State Air Pollution Rule (CSAPR), and/or Texas SO_2 Trading Program.

General:

The Acid Rain Program Permit Requirements, as defined in 30 TAC Chapter 122, Subchapter E, require that the Designated Representative (DR) or Alternate Designated Representative (ADR) submit a permit application for each facility (affected source) with an affected unit. A complete permit application is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the permitting authority either issues a permit to the source or disapproves the application. The responsibilities of the Designated Representative and Alternate Designated Representative of a CSAPR source, as defined in 40 CFR Part 97 (CSAPR NO_X and SO_2 Trading Programs), require that each submission under an applicable CSAPR Trading Program shall be made, signed, and certified by the Designated Representative or Alternate Designated Representative for each CSAPR source and CSAPR unit for which the submission is made.

Any reference in these instructions to the Designated Representative (DR) means the Acid Rain Designated Representative and/or the CSAPR Designated Representative, as applicable. Any reference to the Alternate Designated Representative (ADR) means the Alternate Acid Rain Designated Representative and/or the Alternate CSAPR Designated Representative, as applicable. As reflected in this form, the Acid Rain Designated Representative and the CSAPR Designated Representative for a facility (source) must be the same individual, and the Alternate Acid Rain Designated Representative and the Alternate CSAPR Designated Representative for a source must be the same individual, if such a source has units subject to the Acid Rain and CSAPR Programs.

Affected Source Plant Code:
A plant code is a 4 or 5 digit number assigned by the Department of Energy (DOE) Energy Information Administration (EIA) to plants that generate electricity. For older plants, "plant code" is synonymous with "ORISPL" and "facility" codes. If the plant generates electricity but no plant code has been assigned, or if there is uncertainty regarding what the plant code is, send an email to the EIA at EIA-860@eia.gov. For plants that do not produce electricity, use the plant identifier assigned by EPA (beginning with "88"). If the plant does not produce electricity and has not been assigned a plant identifier, contact Laurel DeSantis at desantis.laurel@epa.gov.

Specific:

Unit ID No.:
Each affected unit must be assigned an identification number (maximum 10 characters). The identification number listed on Table 2 must be the same as the identification number listed on Table 1 of this form for the same unit.

Note: There may be differences between the Unit ID No. on the OP-SUM and unit names from other sources such as EPA COR, EIA (ORIS), TCEQ SIP lists, etc. However, the Unit ID No. utilized for OP-SUM, Table 2 must be consistent with those given on the OP-SUM, Table 1.

Applicable Form:
Enter the number of the applicable UA form used on the first table of the OP-SUM for the corresponding Unit ID No. If there is no applicable form listed on the first table of the OP-SUM for the corresponding Unit ID, enter OP-UA1.

COR Unit ID No.:
Enter the unit identification number (maximum 10 characters) that is listed on the EPA Certificate of Representation (COR).

Acid Rain:
Enter "YES," for an affected unit subject to the Acid Rain Program (ARP). Otherwise, enter "NO."

ARP Status: Select one of the following options that describe the ARP status for that unit. Enter the code on the form.

Code	Description
EU	An existing affected unit with an existing Acid Rain permit
NEW	A new affected unit that does not have an existing Acid Rain permit (Applicant must also submit Form OP-AR1.)
RENEW	An existing affected unit with an existing Acid Rain permit for which the applicant is applying for a renewal (Applicant must also submit Form OP-AR1.)
NEXM	Applying for a new unit exemption under 40 CFR 72.7 (Applicant must also submit required additional information in a separate cover letter.)
REXM	Applying for a retired unit exemption under 40 CFR 72.8 (Applicant must also submit required additional information in a separate cover letter.)
OPT	A unit that is not an affected unit requiring an Acid Rain permit but applicant is electing to become an affected unit as an "OPT-IN" in the Acid Rain program under 40 CFR Part 74 (Applicant must also submit required additional information in a separate cover letter.)

CSAPR:
Enter "YES," if the unit is subject to the requirements of 40 CFR Part 97, Subpart EEEEE (CSAPR NO_x Ozone Season Group 2 Trading Program). Otherwise, enter "NO."

CSAPR Monitoring:
Select one of the following options that describe the CSAPR NO_x Ozone Season Group 2 monitoring for that unit. Enter the code on the form.

Code	Description
CEMS	A unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X and heat input.
CEMSD	A gas or oil fired unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X, and with the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.
PEAK	A gas or oil fired peaking unit that is complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO_X, and with the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.
LME	A gas or oil fired unit that is complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO_X and heat input.
ALTMON	A unit that is complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO_X and heat input.
REXM	Applying for a retired unit exemption under 40 CFR Part 97, Subpart EEEEE (CSAPR NO_X Ozone Season Group 2 Trading Program) (Applicant must also submit required additional information in a separate cover letter).

Texas SO_2:
Enter "YES," if the unit is complying with the requirements of 40 CFR Part 97, Subpart FFFFF (Texas SO_2 Trading Program). Otherwise, enter "NO."

Texas SO_2 Monitoring:
Select one of the following options that describe the Texas SO_2 monitoring for that unit. Enter the code on the form.

Code	Description
CEMS	A unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO_2 and 40 CFR Part 75, Subpart H for heat input.
CEMSD	A gas or oil fired unit that is complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO_2 and heat input.

LME	A gas or oil fired unit that is complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO_2 and heat input.
ALTMON	A unit that is complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO_2 and heat input.
REXM	Applying for a retired unit exemption under 40 CFR Part 97, Subpart FFFFF (Texas SO_2 Trading Program) (Applicant must also submit required additional information in a separate cover letter.)

COR:
Enter "YES," to indicate that the applicant has submitted the COR to the EPA for the Acid Rain and CSAPR programs, as applicable, and has included a copy of the required COR to the TCEQ with this submittal. (Providing the required COR copy to TCEQ authorizes the DR (or ADR) to sign Form OP-CRO1, page 2, to certify Acid Rain and CSAPR program application submittals.)

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary
Form OP-SUM
Table 1

Date	Permit No.	Regulated Entity No.
3/31/2022	TBD	TBD

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
(P) M-1	OP-REQ2	Marine Loading into VLCC (controlled)			Pending	
(P) G-1	OP-UA2	Diesel-fired electric generator engine			Pending	
(P) G-2	OP-UA2	Diesel-fired electric generator engine			Pending	
(P) C-1	OP-UA2	Diesel-fired portal crane engine			Pending	
(P) DT-1	OP-REQ2	Day tank storing diesel fuel (fixed roof)			Pending	
(P)-BT1	OP-REQ2	Belly Tank 1			Pending	GRP-BELLYTANKS
(P)-BT2	OP-REQ2	Belly Tank 2			Pending	GRP-BELLYTANKS
(P)-BT3	OP-REQ2	Belly Tank 3			Pending	GRP-BELLYTANKS
(P)-BT4	OP-REQ2	Belly Tank 4			Pending	GRP-BELLYTANKS
(P) T-1	OP-REQ2	Crude oil surge tank (covered)			Pending	

Date	Permit No.	Regulated Entity No.
3/31/2022	TBD	TBD

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
(P) FWP-1	OP-UA2	Emergency Firewater Pump			Pending	
(P) F-1	OP-REQ2	Platform Fugitive Emissions			Pending	
(P) F-2	OP-REQ2	SPM System Fugitives			Pending	
(OSV) GT-1	OP-UA11	Gas Turbine Generator			Pending	
(OSV) GT-2	OP-UA11	Gas Turbine Generator			Pending	
(OSV) EDG-1	OP-UA2	Diesel-fired electric generator engine			Pending	
(OSV) EDG-2	OP-UA2	Diesel-fired electric generator engine			Pending	
(OSV) EDG-3	OP-UA2	Diesel-fired electric generator engine			Pending	
(OSV) EDG-4	OP-UA2	Diesel-fired electric generator engine			Pending	
(OSV) F-1	OP-REQ2	OSV Fugitive Emissions			Pending	
(OSV) F-2	OP-REQ2	VRV Fugitive Emissions – Hose Disconnects			Pending	

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary
Form OP-SUM
Table 2: Acid Rain, Cross-State Air Pollution Rule (CSAPR), and Texas SO_2 Trading Program

Date	Permit No.	Regulated Entity No.

Unit ID No.	Applicable Form	COR Unit ID No.	Acid Rain	ARP Status	CSAPR	CSAPR Monitoring	Texas SO_2	Texas SO_2 Monitoring	COR

Texas Commission on Environmental Quality
Form OP-UA2 - Instructions
Stationary Reciprocating Internal Combustion Engine Attributes

General:

This form is used to provide a description and data pertaining to all stationary reciprocating internal combustion (SRIC) engines with potentially applicable requirements associated with a particular regulated entity number and application. Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to an SRIC engine, then it should be left blank and need not be submitted with the application. If the codes entered by the applicant show negative applicability to the rule or sections of the rule represented on the table, then the applicant need not complete the remainder of the table(s) that corresponds to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the "Specific" section of the instruction text. The following is included in this form:
Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Table 1a - 1c:	**Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas**
Table 2a - 2c:	**Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.**
Table 3:	**Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter E: Multi-Region Combustion Control, Division 4: East Texas Combustion**
Table 4a - 4b:	**Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
Table 5a - 5c:	**Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

The application area name from Form OP-1 (Site Information Summary) must appear in the header of each page for the purpose of identification for the initial submittal. The date of the initial form submittal must also be included and should be consistent throughout the application (MM/DD/YYYY). Leave the permit number blank for the initial form submittal. If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name (from Form OP-1), the date of the revision submittal.

Unit attribute questions that do not require a response from all applicants are preceded by qualification criteria in the instructions. If the unit does not meet the qualification criteria, a response to the question is not required. Anytime a response is not required based on the qualification criteria, leave the space on the form blank.

Notwithstanding any qualification criteria in the form instructions or information provided in other TCEQ guidance, the applicant may leave an attribute question blank (or indicate "N/A" for "Not Applicable") if the attribute is not needed for the applicable requirement determinations of a regulation for a unit.

Please note that for general operating permit (GOP) applications, responses may be required for questions on this form which are not included as a column in the applicable GOP table. These responses may be needed to determine applicability of certain requirements within a single row of the GOP permit table.

In some situations, the applicant has the option of selecting alternate requirements, limitations, and/or practices for a unit. Note that these alternate requirements, limitations, and/or practices must have the required approval from the TCEQ

Executive Director and/or the U.S. Environmental Protection Agency Administrator before the federal operating permit application is submitted.

The Texas Commission on Environmental Quality (TCEQ) requires that a Core Data Form be submitted on all incoming registrations unless all of the following are met: the Regulated Entity and Customer Reference numbers have been issued by the TCEQ and no core data information has changed. The Central Registry, a common record area of the TCEQ, maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as "core data." The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the Customer Reference (CN) number and the Regulated Entity (RN) number. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed. If this is the initial registration, permit, or license for a facility site, then the Core Data Form must be completed and submitted with application or registration forms. If amending, modifying, or otherwise updating an existing record for a facility site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ website at www.tceq.texas.gov/permitting/central_registry/index.html.

Specific:

Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

★ **Complete this table for SRIC engines that meet the following criteria:**

- located at a site that is a major source of NOx, as defined in 30 TAC Chapter 117: and,
- located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas; and
- located at a site that is not an electric power generating system owned or operated by an electric cooperative, municipality, river authority, public utility or a Public Utility Commission of Texas regulated utility; or,
- if located in Parker County, the site does not generate electric power for compensation

Unit ID No.:
Enter the identification number (ID No.) for the SRIC engines (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "Horsepower Rating" if located in the Beaumont/Port Arthur or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas.**

Horsepower Rating:
Select one of the following options for the HP rating. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
300-	HP is less than 300 (and unit is not a lean-burn gas-fired opt-in unit)
300+	HP is greater than or equal to 300
150+E2Y	Lean-burn, gas-fired SRIC with HP greater than or equal to 150 that is exempt from RACT requirements under 30 TAC § 117.103(b) but is included under either a Source Cap or an

Alternative Plant-Wide Emission Specification in 30 TAC §§ 117.123(a) or 117.115(a) as an opt-in unit (for SOP applications only)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
50-	HP is less than 50
50+	HP is greater or equal to than 50

▼ **Continue if application area is located in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas; or if in the Beaumont/Port Arthur Ozone Nonattainment Areas and "Horsepower Rating" is "300+" or "150+E2Y"**

★ **Complete "RACT Date Placed in Service" if located in the Beaumont/Port Arthur Ozone Nonattainment Area and "Horsepower Rating" is "300+." If "Horsepower Rating" is "150+E2Y," go to "Fuel Fired" and provide information from that point forward.**

RACT Date Placed in Service:
Select one of the following options for the date placed in service. Enter the code on the form.

Code	Description
92-	On or before November 15, 1992
92-93	After November 15, 1992 and on or before June 9, 1993
93-FCD	After June 9, 1993 and before the final compliance date specified in 30 TAC § 117.9000
FCD+	After June 9, 1993 and on or after the final compliance date specified in 30 TAC § 117.9000

★ **Complete "Functionally Identical Replacement" only if "RACT Date Placed in Service" is "93-FCD."**

Functionally Identical Replacement:
Select one of the following options to identify if the unit is a functionally identical replacement for a unit or group of units that were in service on or before November 15, 1992. Enter the code on the form.

Code	Description
YES	Unit is a functionally identical replacement
NO	Unit is not a functionally identical replacement

▼ **Do not continue if located in the Beaumont/Port Arthur Ozone Nonattainment Area and:**

- **"Date Placed in Service" is "92-93" or "FCD+"; or**
- **"Date Placed in Service" is "93-FCD" and "Functionally Identical Replacement" is "NO."**

Type of Service:
Select one of the following options for the type of service. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency or directly and exclusively in agricultural operations
EMERG	Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.103(a)(6)(D)]
DIESEL	Any stationary diesel engine
850-	Demonstrated to operate less than 850 hours per year, based on a rolling 12-month average (low annual capacity factor) [claiming exemption 30 TAC § 117.103(b)(2)]
ENG	Any other SRIC engine

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency or directly and exclusively in agricultural operations
EMERG	Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC§ 117.303(a)(6)(D)] (exemption is not available for new, modified, reconstructed, or relocated diesel fuel fired SRIC engines placed into service on or after October 1, 2001)
D2001-	Existing diesel fuel-fired engine placed into service before October 1, 2001, operated less than 100 hours/year, on a rolling 12-month average that has not been modified, reconstructed, or relocated on or after October 1, 2001 [claiming exemption 30 TAC § 117.303(a)(10)]
D2001+	New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, operated less than 100 hours/year, on a rolling 12-month average (other than emergency situations) that meets the corresponding emission standard for non-road engines listed in 40 CFR § 89.112(a), Table 1 (October 23, 1998) and in effect at the time of installation [claiming exemption 30 TAC § 117.303(a)(11)]
ENG	Any other SRIC engine

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency or directly and exclusively in agricultural operations
EMERG	Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.403(a)(7)(D)] (exemption is not available for new, modified, reconstructed, or relocated diesel fuel fired SRIC engines placed into service on or after June 1, 2007)
W-EMER	Located in Wise County and used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.403(b)(2)(D)]
D2007-	Existing diesel fuel-fired engine placed into service before June 1, 2007, operated less than 100 hours/year, on a rolling 12-month average that has not been modified, reconstructed, or relocated on or after June 1, 2007 [claiming exemption 30 TAC § 117.403(a)(8)]
D2007+	Diesel fuel-fired engine, placed into service on or after June 1, 2007, operated less than 100 hours/year, on a rolling 12-month average (other than emergency situations) that meets the requirements for non-road engines [per 30 TAC § 117.403(a)(9)]
ENG	Any other SRIC engine

▼ **Continue if "Type of Service" is "ENG," "W-EMER," or "EMERG."**

Fuel Fired:
Select one of the following options for the fuel fired by the engine. Enter the code on the form.

For GOP applications:

Code	Description
NG	Natural Gas (Engines authorized to operate under GOPs 511, 512, 513 and 514 must select this option except for black start engines, fire pump engines, emergency engines, and engines operated less than 100 hours per year, as allowed by the rule)
LFG	Landfill Gas
DIG	Digester Gas
ORG	Renewable, Non-fossil fuel gas other than landfill or digester gas

DSL	Petroleum-based diesel fuel
B100	Pure or "neat" biodiesel fuel
BXX	Blends of petroleum-based and biodiesel fuel
DUAL	Dual-fuel where at least one of the fuels is a fossil fuel
DUALN	Dual-fuel where both fuels are renewable non-fossil fuels

For SOP applications:

Code	Description
NG	Natural Gas
LFG	Landfill Gas
ORG	Renewable, Non-fossil fuel gas other than landfill gas
OFG	Fuel gas other than natural gas, landfill gas, and renewable, non-fossil fuel gas (propane, butane, refinery fuel gas, etc.)
DSL	Diesel fuel
B100	Pure or "neat" biodiesel fuel
BXX	Blends of petroleum-based and biodiesel fuel
DUAL	Dual-fuel where at least one of the fuels is a fossil fuel
DUALN	Dual-fuel where both fuels are renewable non-fossil fuels

▼ **Do not continue if in Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area and "Horsepower Rating" is "50-" and "Fuel Fired" is "NG," "LFG," "ORG" or "OFG."**

▼ **Continue only if "Type of Service" is "ENG;" or if "Horsepower Rating" is "150+E2Y."**

Engine Type:
Select one of the following options for the engine type as defined in 30 TAC Chapter 117. Enter the code on the form.

Code	Description
LEANBURN	Lean-burn
RICHBURN	Rich-burn

★ **Complete "ESAD Date Placed in Service" only for the following:**

- **GOP or SOP applications for sites located in the Houston/Galveston/Brazoria Ozone Nonattainment Area and "Fuel Fired" is NOT "NG," "LFG," "ORG" or "OFG;" or**
- **GOP or SOP applications for sites located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area and "Fuel Fired" is NOT "DUAL" or "DUALN."**

ESAD Date Placed in Service:
Select one of the following options for the date the engine was placed into service. Enter the code on the form.

For dual fuel engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.

Code	Description
2001-	Placed into service on or prior to December 31, 2000.
2001+	Placed into service after December 31, 2000.

For diesel engines located in the Houston/Galveston Ozone Nonattainment Area, please select the code that defines the most recent date that the engine was installed, modified, reconstructed, or relocated.

Code	Description
-01	Placed into service before October 1, 2001 and has not been modified, reconstructed, or relocated on or after October 1, 2001.
01-02	Installed, modified, reconstructed, or relocated on or after October 1, 2001 but before October 1, 2002.
02-03	Installed, modified, reconstructed, or relocated on or after October 1, 2002 but before October 1, 2003.

03-04	Installed, modified, reconstructed, or relocated on or after October 1, 2003 but before October 1, 2004.
04-05	Installed, modified, reconstructed, or relocated on or after October 1, 2004 but before October 1, 2005.
05-06	Installed, modified, reconstructed, or relocated on or after October 1, 2005 but before October 1, 2006.
06-07	Installed, modified, reconstructed, or relocated on or after October 1, 2006 but before October 1, 2007.
07+	Installed, modified, reconstructed, or relocated on or after October 1, 2007.

For gas fired lean-burn engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area.

Code	Description
2007-	Placed into service prior to June 1, 2007, and not modified, reconstructed, or relocated on or after June 1, 2007
2007+	Placed into service, modified, reconstructed, or relocated on or after June 1, 2007
2015-	Placed into service prior to June 1, 2015, and not modified, reconstructed, or relocated on or after June 1, 2015
2015+	Placed into service, modified, reconstructed, or relocated on or after June 1, 2015.

For diesel engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area, please select the code that defines the most recent date that the engine was installed, modified, reconstructed, or relocated.

Code	Description
3109-	Placed into service before March 1, 2009 and has not been modified, reconstructed, or relocated on or after March 1, 2009.
3109+	Installed, modified, reconstructed, or relocated on or after March 1, 2009.

★ **Complete "Diesel HP Rating" only for sites located in the Dallas/Fort Worth Eight-Hour or Houston/Galveston/Brazoria Ozone Nonattainment Area and "Fuel Fired" is "DSL," "B100" or "BXX."**

Diesel HP Rating:
Select one of the following options for the horsepower rating of the diesel engine. Enter the code on the form.

For diesel SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
11-	Horsepower rating is less than 11 HP.
11-25	Horsepower rating is 11 HP or greater, but less than 25 HP.
25-50	Horsepower rating is 25 HP or greater, but less than 50 HP.
50-100	Horsepower rating is 50 HP or greater, but less than 100 HP.
100-175	Horsepower rating is 100 HP or greater, but less than 175 HP.
175-300	Horsepower rating is 175 HP or greater, but less than 300 HP.
300-600	Horsepower rating is 300 HP or greater, but less than 600 HP.
600-750	Horsepower rating is 600 HP or greater, but less than 750 HP.
750+	Horsepower rating is 750 HP or greater.

For diesel SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
50-	Horsepower rating is less than 50 HP.
50-100	Horsepower rating is 50 HP or greater, but less than 100 HP.
100-750	Horsepower rating is 100 HP or greater, but less than 750 HP.
750+	Horsepower rating is 750 HP or greater.

Table 1b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.:
Enter the identification number (ID No.) for the SRIC engines (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
SOP applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

NOx Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NOx emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For GOP applications:

Code	Description
105	Title 30 TAC §§ 117.105(a)(1), (a)(3), (d), or (e) [relating to Emission Specifications for Reasonably Available Control Technology] (use for SRIC engines in the Beaumont/Port Arthur Ozone Nonattainment Area) 410 A Title 30 TAC § 117.410(a) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use for SRIC engines in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
410A	Title 30 TAC § 117.410(a)(4) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use for SRIC engines in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
310D	Title 30 TAC § 117.310(d)(3) [relating to Emission Specifications for Attainment Demonstration] (use for SRIC engines in the Houston/Galveston/Brazoria Ozone Nonattainment Area)
405B	Title 30 TAC § 117.405(b)(2)(A) [relating to Emission Specifications for Reasonably Available Control Technology (RACT) gas-fired rich-burn engines used in Wise County]
WS4C	White Superior four-cycle lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(i)
C2C	Clark two-cycle lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(ii)
FM2C	Fairbanks Morse MEP two-cycle lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(iii)
WSE	All other lean-burn engines located in Wise County complying with Title 30 TAC § 117.405(b)(2)(B)(iv)

For SOP applications:

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
105	Title 30 TAC §§ 117.105(a)(1), (a)(3), (d) or (e) [relating to Emissions Specifications for Reasonably Available Control Technology]
APES	Engine is complying with an Alternative Plant-Wide Emissions Specification under Title 30 TAC § 117.115(a)
ACSS	Engine is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.125(a)
SC	Engine is complying with a Source Cap under Title 30 TAC § 117.123(a)

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310D	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3, and Emission Specifications for Attainment Demonstration]
ACF	Engine is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(17)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410A	Title 30 TAC § 117.410(a)(4) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
405B	Title 30 TAC § 117.405(b)(2)(A) [relating to Emission Specifications for Reasonably Available Control Technology (RACT) gas fired rich burn engines used in Wise County]
ACF	Engine is complying with an annual capacity factor specification under Title 30 TAC § 117.410(a)(14)
SC	Engine is complying with a Source Cap under Title 30 TAC § 117.423(a)
WS4C	White Superior four-cycle-lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(i)
C2C	Clark two-cycle-lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(ii)
FM2C	Fairbanks Morse MEP two-cycle-lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(iii)
WSE	All other -lean-burn engines located in Wise County complying with Title 30 TAC § 117.405(b)(2)(B)(iv)

★ **Complete "23C-Option" only if "NOx Emission Limitation" is "SC."**

23C-Option:
Select one of the following § 117.123(c)(1) or 423(c)(1) options for monitoring. Enter the code on the form.

Code	Description
23C-A	CEMS and a totalizing fuel flow meter per § 117.123(c)(1)(A) or § 117.423(c)(1)(A).
23C-B	PEMS and a totalizing fuel flow meter per § 117.123(c)(1)(B) or § 117.423(c)(1)(B).
23C-C	Rate measured by hourly emission rate testing per § 117.123(c)(1)(C) or § 117.423(c)(1)(C).

★ **Complete "30 TAC Chapter 116 Limit" only if "NOx Emission Limitation" is "105."**

30 TAC Chapter 116 Limit:
Select one of the following descriptions for the 30 TAC Chapter 116 permit limit. Enter the code on the form.

For units having a 30 TAC Chapter 116 permit in effect on June 9, 1993:

Code	Description
93Y	NOx emission limit in 30 TAC § 117.105 is greater than the NOx emission limit in a 30 TAC Chapter 116 permit
93N	NOx emission limit in 30 TAC § 117.105 is not greater than the NOx emission limit in a 30 TAC Chapter 116 permit

For units placed into service after June 9, 1993 and prior to the final compliance date specified in 30 TAC §§ 117.9000 or 117.9020(1) as a functionally identical replacement for an existing unit, or group of units, and limited to the cumulative maximum rated capacity of the units replaced:

Code	Description
95Y	Emission limit in 30 TAC §§ 117.105 or is greater than the NOx emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993
95N	Emission limit in 30 TAC §§ 117.105 or is not greater than the NOx emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993

★ **Complete "EGF System Cap Unit" only if located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.**

EGF System Cap Unit:
Enter "YES" if the engine is used as an electric generating facility to generate electricity for sale to the electric grid. Otherwise, enter "NO."

Units with electric output entirely dedicated to industrial customers or that generate electricity primarily for internal use are not considered as electric generating facilities generating electricity for sale to the electric grid and are not subject to the system cap requirements of 30 TAC § 117.320. "Entirely dedicated" may include up to two weeks per year of service to the electric grid when the industrial customer's load sources are not operating. Units generating electricity primarily for internal use are those that have previously or will transfer generated electricity to a utility power distribution system at a rate less than 3.85% of actual electrical generation.

NOx Averaging Method:
Select one of the following options for the method used to comply with the applicable emission limitation. Enter the code on the form.

Code	Description
30D	Complying with the applicable emission limit using a 30-day rolling average
1HR	Complying with the applicable emission limits using a block one-hour average

NOx Reduction:
Select one of the following NOx reduction options. Enter the code on the form.

Code	Description
WATER	Water or steam injection
NSCR	Nonselective catalytic reduction
POST1	Post combustion control technique with urea or ammonia injection
POST2	Post combustion control technique with chemical reagent other than urea or ammonia
OTHER	Other post combustion control method
NONE	No NOx reduction

NOx Monitoring System:
Select the appropriate code to indicate the type of monitoring system used.

For units without a monitoring system:

Code	Description
MERT	Maximum emission rate testing in accordance with 30 TAC § 117.8000

For all other units:

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
75ARC	CEMS used to comply with 40 CFR Part 75 (pertaining to acid rain) (for SOP applications only)
75ARP	PEMS used to comply with 40 CFR Part 75 (pertaining to acid rain) (for SOP applications only)

▼ **Continue only if application type is SOP.**

Table 1c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.:
Enter the identification number (ID No.) for the SRIC engines (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
SOP applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Fuel Flow Monitoring:
Select one of the following options to indicate how fuel flow is monitored. Enter the code on the form.

Code	Description
X40A	Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a)
X40A2-A	Unit operates with a NOx and diluents CEMS and monitors stack exhaust flow per 30 TAC §§ 117.140(a)(2)(A), 117.340(a)(2)(A) or 117.440(a)(2)(A)
X40A2-B	Unit vents to a common stack with a NOx and diluents CEMS and uses a single totalizing fuel flow meter per 30 TAC §§ 117.140(a)(2)(B), 117.340(a)(2)(B) or 117.440(a)(2)(B).
X40A2-C	The unit is a diesel engine operating with a run time meter and using monthly fuel use records maintained for each engine per 30 TAC §§ 117.340(a)(2)(C) or 117.440(a)(2)(C) [Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas only]
X40A2-D	The unit is equipped with a continuous monitoring system that continuously monitors horsepower and hours of operation per 30 TAC §§ 117.140(a)(2)(D), 117.340(a)(2)(D) or 117.440(a)(2)(D).

★ **Complete "CO Emission Limitation" only for SOP applications.**

CO Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable CO emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
105	Title 30 TAC § 117.105(d) or (e) [relating to Emissions Specifications for Reasonably Available Control Technology]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.125(a)

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310C	Title 30 TAC § 117.310(c)(1) 400 ppmv option
310CG	Title 30 TAC § 117.310(c)(1) 3 g/HP-hr option
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.325(a)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410C	Title 30 TAC § 117.410(c)(1) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
405D	Title 30 TAC § 117.405(d)(1) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.425(a)

CO Averaging Method:
Select one of the following options for the method used to comply with the applicable emission limitation. Enter the code on the form.

Code	Description
30D	Complying with the applicable emission limit using a 30-day rolling average
1HR	Complying with the applicable emission limits using a block one-hour average

CO Monitoring System:
Select one of the following options to indicate how the unit is monitored for CO exhaust emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system complying
PEMS	Predictive emissions monitoring system complying
OTHER	Other than CEMS or PEMS

★ Complete "NH_3 Emission Limitation" only for SOP applications and only if "NOx Reduction" is "POST1."

NH_3 Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH_3 emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
105	Title 30 TAC §§ 117.105(g) [relating to Emissions Specifications for Reasonably Available Control Technology]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.125(a)

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310C	Title 30 TAC § 117.310(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.325(a)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410C	Title 30 TAC § 117.410(c)(2) [relating to Emission Specifications for Attainment Demonstration] (use for engines in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area
405D	Title 30 TAC § 117.405(d)(2) [relating to Emission Specifications for Attainment Demonstration] (use for engines in Wise County in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.425(a)

Note: If using some other alternative, such as an alternate reasonably available control technology, alternate means of control, or emission reduction credit, the type of alternate used will need to be explained in a cover letter or some other attachment to the permit application.

NH_3 Monitoring:
Select one of the following options to indicate how the unit is monitored for NH_3 emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

★ **Complete this table for all stationary Reciprocating Internal Combustion Engines (RICE) in GOP and SOP applications that are not being tested at a stationary RICE test cell:**

Unit ID No.:
Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

HAP Source:
Select one of the following options to describe the HAP source classification

Code	Description
MAJOR	The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2
AREA	The site is an area source of hazardous air pollutants as defined in 40 CFR § 63.2

Brake HP:
Select one of the following options to indicate the brake horsepower (HP). Enter the code on the form.

Code	Description
100-	Stationary RICE with a brake HP less than 100 HP
100-250	Stationary RICE with a brake HP greater than or equal to 100 and less than 250 HP
250-300	Stationary RICE with a brake HP greater than or equal to 250 HP and less than 300 HP
300-500	Stationary RICE with a brake HP greater than or equal to 300 HP and less than or equal to 500 HP
500+	Stationary RICE with a brake HP greater than 500 HP
5000+	Stationary RICE with a brake HP of 5,000 HP or greater (use only for 4 stroke spark ignited richburn RICE)

Construction/Reconstruction Date:
Select one of the following options that describe the date of commencement of the most recent construction, modification, or reconstruction. Enter the code on the form.

Code	Description
02-	Commenced construction or reconstruction before December 19, 2002
02-06	Commenced construction or reconstruction on or after December 19, 2002, but before June 12, 2006

06+	Commenced construction or reconstruction on or after June 12, 2006

★ **Complete "Nonindustrial Emergency Engine" only if "HAP Source" is "AREA" and "Construction/Reconstruction Date" is "02-" or "02-06."**

Nonindustrial Emergency Engine:
Enter "YES" if the Stationary RICE is defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE. Otherwise, enter "NO."

▼ **Do not continue if "HAP Source" is "AREA" and:**
- **"Construction/Reconstruction Date" is "06+;" or**
- **"Nonindustrial Emergency Engine" is "YES."**

Service Type:
Select one of the following options that describe the type of service the stationary RICE is used for. Enter the code on the form. Note: The provisions of 40 CFR §63.6640(f)(2)(ii) and (f)(2)(iii) for emergency engines have been vacated by the U.S. Court of Appeals for the District of Columbia Circuit.

Code	Description
FUEL	Combusts landfill or digester gas equivalent to 10 % or more of the gross heat input on an annual basis
LIM	Limited use
EMER-A	Emergency use where the RICE does not operate as specified in 40 CFR §63.6640(f)(2)(ii) and (iii) or does not operate as specified in 40 CFR §63.6640(f)(4)(ii)
EMER-B	Emergency use where the RICE operates for the purpose specified in 40 CFR §63.6640(f)(4)(ii) (Use only for RICE located at an area source)
BLSTRT	Black Start Use (use only for existing RICE, less than 500 HP, located at a major source; or existing RICE located at an area source)
NORMAL	Normal Use

▼ **Do not continue if "HAP Source" is "MAJOR" and:**
- **"Brake HP" is "500+" and "Service Type" is "LIM" or "EMER-A;" or**
- **"Brake HP" is "500+" and "Construction/Reconstruction Date" is "02-," and "Service Type" is "FUEL;" or**
  - **"Construction/Reconstruction Date" is "06+" and "Brake HP" is "100-," "100-250," "250-300," or "300-500" and "Service Type" is "FUEL," "LIM," or "EMER-A," or "EMER-B".**

Stationary Rice Type:
Select one of the following options that describe the type of stationary RICE that you own or operate. Enter the code on the form.

Code	Description
2SLB	2 stroke spark ignited lean burn engine
4SLB	4 stroke spark ignited lean burn engine
4SLBR	remote 4 stroke spark ignited lean burn engine (use only for existing non-emergency, non-black start 4SLB with a site rating greater than 500 HP, located at an area source, that is a remote stationary RICE as defined in 40 CFR § 63.6675)
4SRB	4 stroke spark ignited rich burn engine
4SRBR	remote 4 stroke spark ignited rich burn engine (use only for existing non-emergency, non-black start 4SRB with a site rating greater than 500 HP, located at an area source, that is a remote stationary RICE as defined in 40 CFR § 63.6675)
CI	Compression ignition engine (use only for CI engines not meeting § 63.6603(d) or § 63.6603(e))
TIER1/2	Existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source that is certified to the Tier 1 or Tier 2 emission standards electing to comply with the management practices as specified in 40 CFR § 63.6603(d)

TIER3 Existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source that is certified to the Tier 3 (Tier 2 for engines above 560 kilowatt (kW)) emission standards electing to comply with 40 CFR Part 60, Subpart IIII

▼ **Do not continue if "HAP Source" is "MAJOR" and "Construction/Reconstruction Date" is "06+" and "Service Type" is "NORMAL," and:**

- **"Brake HP" is "100-," "100-250," "250-300," or "300-500" and "Stationary RICE Type" is "2SLB," "4SRB," or "CI;" or**
- **"Brake HP" is "100-" or "100-250" and "Stationary RICE Type" is "4SLB."**

▼ **Do not continue if "HAP Source" is "MAJOR" and "Construction/Reconstruction Date" is "02-" and "Brake HP" is "500+" and "Stationary RICE Type" is "2SLB" or "4SLB."**

▼ **Do not continue if "HAP Source" is "MAJOR" and "Construction/Reconstruction Date" is "02-" or "02-06" and:**

- **"Service Type" is "BLSTRT," "EMER-A," or "EMER-B" and "Brake HP" is "100-," "100-250," "250-300," or "300-500;" or**
- **"Brake HP" is "100-" and "Service Type" is "LIM," "NORMAL," or "FUEL."**

▼ **Do not continue if "HAP Source" is "AREA" and:**

- **"Service Type" is "BLSTRT;" or**
- **"Service Type" is "LIM" or "NORMAL," and "Stationary RICE Type" is "CI," and "Brake HP" is "100-," "100-250," or "250-300;" or**
- **"Service Type" is "LIM" or "NORMAL," and "Stationary RICE Type" is "2SLB;" or**
- **"Service Type" is "LIM" or "NORMAL," and "Stationary RICE Type" is "4SRB" or "4SLB" and "Brake HP" is "100-," "100-250," "250-300," or "300-500;" or**
- **"Brake HP" is "500+," and "Service Type" is "LIM" or "NORMAL," and "Stationary RICE Type" is "4SLBR" or "4SRBR.;" or**
- **"Service Type" is "EMER-A," and "Stationary RICE Type" is "CI," and "Brake HP" is "100-," "100-250," "250-300," "300-500," or "500+;" or**
- **"Service Type" is "EMER-A" or "EMER-B," and "Stationary RICE Type" is "2SLB" or "4SLB" or "4SRB," and "Brake HP" is "100-," "100-250," "250-300," "300-500," or "500+;" or**
- **"Service Type" is "FUEL."**

▼ **Do not continue if "HAP Source" is "MAJOR" and Construction/Reconstruction Date" is "02-," 02-06," or "06+," and "Brake HP" is "500+," and "Stationary RICE Type" is "2SLB," "4SRB," or "4SLB," and "Service Type" is "EMER-B."**

★ "**HAP Source is "MAJOR" and Construction/Reconstruction Date" is "02-," 02-06," or "06+," and "Brake HP" is "500+," and "Stationary RICE Type" is "CI," and "Service Type" is "EMER-B," complete "Displacement" on Table 2b only. No further information is required.**

★ **HAP Source" is "AREA" and Construction/Reconstruction Date" is "02-" or "02-06," and "Brake HP" is "100-250" or "100-250" or "250-300" or "300-500" or "500+," and "Stationary RICE Type" is "CI," and "Service Type" is "EMER-B," complete "Displacement" on Table 2b only. No further information is required**.

Table 2b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "Manufacture Date" only if "Stationary RICE Type" is "4SLB" and "Brake HP" is "250-300" or "300-500" and "Construction/Reconstruction Date" is "06+."**

Manufacture Date:
Enter "YES" if the stationary RICE was manufactured on or after January1, 2008. Otherwise, enter "NO."

▼ **Do not continue if "Manufacture Date" is "NO."**

★ **Complete "Operating Hours" only if "HAP Source" is "AREA" and "Stationary RICE Type" is "4SLB" or "4SRB," and "Brake HP" is "500+."**

Operating Hours:
Enter "YES" if the stationary RICE is operated less than 24 hours per calendar year. Otherwise, enter "NO."

▼ **Do not continue if "Operating Hours" is "YES."**

Different Schedule:
Enter "YES" if the Administrator has approved a different schedule for the submission of reports under 40 CFR § 63.10(a). Otherwise, enter "NO."

▼ **Do not continue if "HAP Source" is "MAJOR" and "Service Type" is "FUEL."**

Emission Limitation:
Select one of the following options for compliance with the emission limitations. Enter the code on the form.

Code	Description
76+	Reducing formaldehyde emission by 76% or greater (use for richburn, spark ignited engines)
76+THC	Complying with reducing formaldehyde emissions by 76% or greater by testing for THC instead of formaldehyde. Average reduction of THC emissions is 30% or greater. (use for non-emergency 4SRB RICE)
REDCO	Reducing carbon monoxide emissions from the stationary RICE
LIMCO	Limiting the concentration of carbon monoxide in the stationary RICE exhaust
CONC	Limiting formaldehyde concentration from the stationary RICE exhaust
REDTHC	Reducing THC emissions from the stationary RICE

▼ **Continue only for SOP applications.**

★ **Complete "Displacement" and "Crankcase" only if "Service Type" is "NORMAL" or "LIM," "Stationary RICE Type" is "CI," "Brake HP" is "300-500" or "500+" and "Construction/Reconstruction Date" is "02-" or "02-06."**

★ **Complete "Displacement" only if "Service Type" is "EMER-B," "Stationary RICE Type is "CI," "Brake HP" is "100-250," "250-300," "300-500" or "500+" and "Construction/Reconstruction Date" is "02-," "02-06" or "06+."**

Displacement:
Enter "YES" if the stationary CI RICE has a displacement of less than 30 liters per cylinder and uses diesel fuel. Otherwise, enter "NO."

Table 2c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Crankcase:
Enter "YES" if the stationary CI RICE is equipped with a closed crankcase ventilation system. Otherwise, enter "NO."

Performance Test:
Enter "YES" if a performance test has been previously conducted that meets the conditions in 40 CFR § 63.6610(d)(1)-(5) or § 63.6612(b)(1)-(4). Otherwise, enter "NO."

Control Technique:
Select one of the following options to indicate the type of control device used. Enter the code on the form.

For 4 strokes spark ignited rich burn engines (4 SRB):

Code	Description
NSCR	Non-selective catalytic reduction
OTHER1	Control technique other than non-selective catalytic reduction

For 2 strokes spark ignited lean burn engines (2 SLB), 4 strokes spark ignited lean burn engines (4 SLB), and compression ignition engines (CI):

Code	Description
OXCAT	Oxidation catalyst
OTHER2	Control technique other than an oxidation catalyst

★ **Complete "Operating Limits" only if "Control Technique" is "OTHER1" or "OTHER2."**

Operating Limits:
Enter "YES" if the Administrator has been petitioned to establish operating limitations during the initial performance test. Otherwise, enter "NO."

Monitoring System:
Select one of the following options to indicate the type of monitoring used. Enter the code on the form.

Code	Description
CEMS	Continuous emission monitoring system
CPMS	Continuous parameter monitoring system
OTHER	The owner or operator has chosen to use a monitoring system that is not a CEMS or CPMS.
SHUT1	The owner or operator has installed a system to shutdown the engine when the catalyst inlet temperature exceeds 1350°F (use only for existing non-emergency, non-remote 4SLB engines greater than 500 brake HP located at an area source)
SHUT2	The owner or operator has installed a system to shutdown the engine when the catalyst inlet temperature exceeds 1250°F (use only for existing non-emergency, non-remote 4SRB engines greater than 500 brake HP located at an area source)

Table 3: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter E: Multi-Region Combustion Control, Division 4: East Texas Combustion

★ **Complete Table 3 only for stationary, gas-fired reciprocating internal combustion engines.**

★ **Complete Table 3 only for facilities located in Anderson, Brazos, Burleson, Camp, Cass, Cherokee, Franklin, Freestone, Gregg, Grimes, Harrison, Henderson, Hill, Hopkins, Hunt, Lee, Leon, Limestone, Madison, Marion, Morris, Nacogdoches, Navarro, Panola, Rains, Robertson, Rusk, Shelby, Smith, Titus, Upshur, Van Zandt, and Wood Counties.**

Unit ID No.:
Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at
www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Unit Type:
Select one of the following options that describes the unit type. Enter the code on the form.

Code	Description
240-	The engine has a maximum rated horsepower capacity less than 240 HP.
RESEARCH	The engine is use for research and testing.
PERFV	The engine is used for purposes of performance verification and testing.
START	The engine is used solely to power other engines or gas turbines during startup.
EMERG	The engine is operated exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 100 hours per year, based on a rolling 12-month average
DISASTER	The engine is used in response to and during the existence of any officially declared disaster or state of emergency.
AG	The engine is used directly and exclusively by the owner or operator for agricultural operations necessary for the growing of crops or raising of fowl or animals.
DIESEL	The engine is a diesel engine.
DUAL	The engine is a dual-fuel engine.
LEANBN	The engine is a gas-fired lean burn engine
NONE	The unit does not qualify for any exemptions under the rule.

▼ **Continue only if "Unit Type" is "NONE."**

Horsepower Rating:
Select one of the following options to indicate the horsepower (HP). Enter the code on the form.

Code	Description
500-	Stationary gas-fired rich-burn RICE with a HP less than 500 HP.
500+	Stationary gas-fired rich-burn RICE with a HP equal to or greater than 500 HP.

★ **Complete "Landfill" only if "Horsepower Rating" is "500+."**

Landfill:
Enter "YES" if the gas-fired rich-burn engine is fired on landfill gas. Otherwise, enter "NO."

Control Operations:
Select one of the following options to indicate NOx operational control requirements. Enter the code on the form.

Code	Description
POST1	Post combustion control technique with urea or ammonia injection
POST2	Post combustion control technique with chemical reagent other than urea or ammonia
NSCR	The engine is controlled with nonselective catalytic reduction.
NONE	The engine is not using any of the above control operations.

NOx and O_2 Monitoring:
Select one of the following options to indicate NOx and O_2 monitoring used. Enter the code on the form.

Code	Description
CEMSNOX	The engine is using a CEMS to monitor NOx emissions
PEMSNOX	The engine is using a PEMS to monitor NOx emissions.
CEMSBOTH	The engine is using a CEMS to monitor both NOx and O_2 emissions.
NONE	The engine is not using any of the above methods (unit is complying with § 117.3330(b)(3) monitoring).

Ammonia Use:
Enter "YES" if urea or ammonia injection is used to control NOx emissions. Otherwise, enter "NO."

▼ **Continue only if "Ammonia Use" is "YES**."

NH_3 Emission Limitation:
Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NH_3 limitation standards listed in 30 TAC Chapter 117, Subchapter E. Select one of the following options. Enter the code on the form.

Code	Description
3310	Title 30 TAC § 117.3310(e) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC § 117.3325

Ammonia Monitoring:
Select one of the following options that describes the ammonia monitoring used. Enter the code on the form.

Code	Description
CEMS	A continuous emissions monitoring system is used to monitor ammonia emissions.
PEMS	A parametric emissions monitoring system is used to monitor ammonia emissions.
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary spark ignited internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Construction/Reconstruction/Modification Date:
Enter "YES" if you own or operate a stationary spark ignition (SI) internal combustion engine (ICE) that commenced construction, reconstruction, or modification after June 12, 2006.

▼ **Do not continue if "Construction/Reconstruction/Modification Date" is "NO."**

Test Cell:
Enter "YES" if the SI ICE is being tested at an engine test cell/stand. Otherwise, enter "NO."

▼ **Do not continue if "Test Cell" is "YES."**

Exemption:
Select one of the following codes if the SI ICE is exempt from the requirements of NSPS JJJJ as described in 40 CFR Part 1068, Subpart C or 40 CFR Parts 90 and 1048. *Owners and operator, as well as manufactures may be eligible to request an exemption for national security.*

Code	Description
EXEMPT	The SI ICE is exempt as described in 40 CFR Part 1068 Subpart C or 40 CFR Parts 90 and 1048, OR due to national security
NONE	The SI ICE is not exempt

▼ **Do not continue if "Exemption" is "EXEMPT."**

Temporary Replacement:
Enter "YES" if the SI ICE is acting as a temporary replacement and is located at a stationary source for less than 1 year and has been properly certified to the standards that would be applicable to such engines under the appropriate non-road engine provisions. Otherwise, enter "NO."

▼ **Do not continue if "Temporary Replacement" is "YES."**

Horsepower:
Select one of the following options to indicate the maximum engine power in horsepower (HP). Enter the code on the form.

For SI ICE that are emergency use only

Code	Description
25-E	Maximum engine power less than or equal to 25 HP
25-100E	Maximum engine power greater than 25 HP and less than or equal to 100 HP
100-130E	Maximum engine power greater than 100 HP and less than 130 HP
130-500E	Maximum engine power greater than or equal to 130 HP and less than 500 HP
500+E	Maximum engine power greater than or equal to 500 HP

For SI ICE that are non-emergency use only

Code	Description
25-	Maximum engine power less than or equal to 25 HP
25-100	Maximum engine power greater than 25 HP and less than 100 HP
100-500	Maximum engine power greater than or equal to 100 HP and less than 500 HP
500-1350	Maximum engine power greater than or equal to 500 HP and less than 1350 HP
1350+	Maximum engine power greater than or equal to 1350 HP

Fuel:
Select one of the following options to indicate what fuel the SI ICE is using. Enter the code on the form.

Code	Description
GASO	SI ICE that uses gasoline
NATGAS	SI ICE that uses natural gas
RBLPG	SI ICE that is a rich-burn engine that uses liquefied petroleum gas (LPG)
LBLPG	SI ICE that is a lean-burn engine that uses liquefied petroleum gas (LPG)
LAND	SI ICE that is a landfill/digester gas engine
WELL	SI ICE that is a wellhead gas engine that cannot meet natural gas emission limits (use only for SOP applications and only if you are petitioning the EPA per § 60.4233(g); otherwise use "NATGAS")

★ **Complete "AEL No." only if "FUEL" is "WELL."**

AEL No.:
Enter the date of the Alternative Emission Limit approval letter from the EPA.

▼ **Do not continue if "Fuel" is "WELL."**

★ **Complete "Lean Burn" only if BOTH of the following conditions are met:**
- **"Fuel" is "NATGAS" or "LAND" or "LBLPG;" and**
- **"Horsepower" is "500-1350."**

Lean Burn:
Enter "YES" if the SI ICE is a lean-burn engine. Otherwise, enter "NO."

Commencing:
Select one of the following options to indicate the type of construction the SI ICE is commencing. Enter the code on the form.

Code	Description
CON	SI ICE that is commencing new construction
RECON	SI ICE that is commencing modification or reconstruction

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Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary spark ignited internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please

go to the TCEQ website at
www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Manufacture Date:
Select one of the following options to indicate the date of manufacture of the SI ICE. Enter the code on the form. Please read each date and be careful in choosing the correct date code as each code is very specific to a certain type of SI ICE.

For SI ICE that is commencing ***New Construction Only***

For SI ICE that is less than or equal to 25 HP (emergency or non-emergency)

Code	Description
N25-0708-	Date of manufacture is prior to July 1, 2008 (use for any cc)
N25-1211-	Date of manufacture is on or after July 1, 2008 to December 31, 2011 (use only for SI ICE that is less than 225cc)
N25-0112+	Date of manufacture is on or after January 1, 2012 (use only for SI ICE that is less than225cc)
N25-1210-	Date of manufacture is on or after July 1, 2008 to December 31, 2010 (use only for SI ICE that is greater than or equal to 225cc)
N25-0111+	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 225cc)

For SI ICE that is greater than 25 HP (non-emergency only)

Code	Description
N0708-	Date of manufacture is prior to July 1, 2008 (use only for SI ICE that is less than 500 HP)
N0708+	Date of manufacture is on or after July 1, 2008 (use only for SI ICE that is less than 100 HP)
N08-10	Date of manufacture is on or after July 1, 2008 to December 31, 2010 (use only for SI ICE that is greater than or equal to 100 HP and less than 500 HP)
N0111+	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 100 HP and less than 500 HP)
N0707-	Date of manufacture is prior to July 1, 2007 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP)
N0108-	Date of manufacture is prior to January 1, 2008 (use only if "Lean Burn" is "YES")
N07-0610-	Date of manufacture is on or after July 1, 2007 to June 30, 2010 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP; as stated in Table 1of 40 CFR 60 Subpart JJJJ)
N08-0610-	Date of manufacture is on or after January 1, 2008 to June 30, 2010 (use only if "Lean Burn" is "YES")
N0710+	Date of manufacture is on or after July 1, 2010 (use only for SI ICE that is greater than or equal to 500HP as stated in Table 1 of 40 CFR 60 Subpart JJJJ)
N08-	Date of manufacture is on or after July 1, 2007 to July 1, 2008 (use only if "Fuel" is "GASO" or "RBLPG" and SI ICE is greater than or equal to 500 HP) [as stated in § 60.4243(h)]
N08+	Date of manufacture is on or after July 1, 2008 (use only if "Fuel" is "GASO" or "RBLPG" and SI ICE is greater than or equal to 500 HP) [as stated in § 60.4243(h)]

For SI ICE that is greater than 25 HP (emergency only)

Code	Description
N0109-E	Date of manufacture is prior to January 1, 2009
N0109+E	Date of manufacture is on or after January 1, 2009 (use only for SI ICE that is greater than 25 HP and less than 130 HP)
N09-10E	Date of manufacture is on or after January 1, 2009 to December 31, 2010 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
N0111+E	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
N09-610-E	Date of manufacture is on or after January 1, 2009 to June 30, 2010 (use only for SI ICE that is greater than or equal to 500 HP)

N0710+E	Date of manufacture is on or after July 1, 2010 (use only for SI ICE that is greater than or equal to 500HP)

For SI ICE that is commencing ***Modification or Reconstruction Only***

For SI ICE that is less than or equal to 25 HP (emergency or non-emergency)

Code	**Description**
R25-0112-	Date of manufacture of SI ICE is prior to January 1, 2012(use only for SI ICE that is less than 225cc)
R25-0112+	Date of manufacture of SI ICE is on or after January 1, 2012(use only for SI ICE that is less than 225cc)
R25-0111-	Date of manufacture of SI ICE is prior to January 1, 2011(use only for SI ICE that is greater than or equal to 225cc)
R25-0111+	Date of manufacture of SI ICE is on or after January 1, 2011(use only for SI ICE that is greater than or equal to 225cc)

For SI ICE that is greater than 25 HP (non-emergency only)

Code	**Description**
R0708-	Date of manufacture is prior to July 1, 2008 (use only for SI ICE that is less than 500 HP)
R0708+	Date of manufacture is on or after July 1, 2008 (use only for SI ICE that is less than 500 HP)
R0707-	Date of manufacture is prior to July 1, 2007(use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP)
R0707+	Date of manufacture is on or after July 1, 2007 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP)
R0108-	Date of manufacture is prior to January 1, 2008 (use only if “Lean Burn” is “YES”)
R0108+	Date of manufacture is on or after January 1, 2008 (use only if “Lean Burn” is “YES”)

For SI ICE that is greater than 25 HP (emergency only)

Code	**Description**
R0708-E	Date of manufacture is prior to July 1, 2008 (use only for SI ICE that is less than 130 HP)
R0708+E	Date of manufacture is on or after July 1, 2008 (use only for SI ICE that is less than 130 HP)
R0109-E	Date of manufacture is prior to January 1, 2009(use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
R09-10E	Date of manufacture is on or after January 1, 2009 to December 31, 2010 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
R0111+E	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
R09-610-E	Date of manufacture is on or after January 1, 2009 to June 30, 2010 (use only for SI ICE that is greater than or equal to 500HP)
R0710+E	Date of manufacture is on or after July 1, 2010 (use only for SI ICE that is greater than or equal to 500HP)

▼ **Do not continue if “Manufacture Date” is “N25-0708-,” “N0708-,” “N0707-,” “N0109-E,” or “N0108-.”**

★ **Complete “Displacement” only if “Horsepower” is “25-” or “25-E.”**

Displacement:
Select one of the following options to indicate the engine displacement in cubic centimeters (cc). Enter the code on the form.

Code	**Description**
66-	Engine displacement is less than 66cc
66-100	Engine displacement is greater than or equal to 66cc and less than 100cc
100-225	Engine displacement is greater than or equal to 100cc and less than 225cc
225+	Engine displacement is greater than or equal to 225cc

★ **Complete "Certified" only if "Commencing" is "CON."**

Certified:
Enter "YES" if you purchased a certified SI ICE. Otherwise, enter "NO."

★ **Complete "Operation" only if "Certified" is "YES."**

Operation:
Enter "YES" if you are operating and maintaining the certified SI ICE and control device according to manufacturer's written instructions. Otherwise, enter "NO."

★ **Complete "Certified Modification" only if "Commencing" is "RECON."**

Certified Modification:
Enter "YES" if you purchased, or otherwise own/operate, a modified/reconstructed SI ICE that is certified. Otherwise, enter "NO."

Service:
Select one of the following options to indicate what type of service the SI ICE is performing. Enter the code on the form.

Code	Description
EMERG	SI ICE is an emergency engine
NON	SI ICE is a non-emergency engine

★ **Complete "Severe Duty" only if either of the following conditions are met:**

- **"Fuel" is "GASO" or "RBLPG," and "Service" is "NON," and "Horsepower" is greater than 25 HP; or**
- **"Fuel" is not "GASO" or "RBLPG" and "Service" is "NON," and "Horsepower" is "25-100."**

Severe Duty:
Enter "YES" if the SI ICE is a severe-duty engine. Otherwise, enter "NO."

★ **Complete "Optional Compliance" only if "Horsepower" is "500-1350" or "1350+" and "Fuel" is "GASO" or "RBLPG" and "Manufacture Date" is "N08-".**

Optional Compliance:
Select one of the following options to indicate the optional compliance requirements you are choosing to perform.

Code	Description
PURCH	Choosing to purchase an engine certified according to 40 CFR Part 1048 and install and configure the engine according to manufacturer's specifications.
RECORD	Choosing to keep records as indicated in § 60.4243(h)(1), (h)(2), or (h)(3)

Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary compression ignition internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60IIII-XX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Applicability Date
Select one of the following options to indicate the construction, reconstruction, or modification date of the stationary compression ignition (CI) internal combustion engine (ICE). Enter the code on the form.

Code	Description
2005+	Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005
2005-	Stationary CI ICE commenced construction, reconstruction, or modification on or before 07/11/2005

▼ **Do not continue if "Applicability Date" is "2005-."**

Exemptions:
Select one of the following options to indicate which exemption could apply to the CI ICE. Enter the code on the form.

Code	Description
TEST	The CI ICE is being tested at an engine test cell/stand
NATSEC	The CI ICE is exempt due to national security
TEMP	The CI ICE is acting as a temporary replacement and is located at a stationary source for less than 1 year and has been properly certified to the standards that would be applicable to such engines under the appropriate non-road engine provisions
NONE	The CI ICE is not eligible for any of these exemptions

▼ **Continue only if "Exemptions" is "NONE."**

Service:
Select one of the following options to indicate what type of service the CI ICE is performing. Enter the code on the form.

Code	Description
NON	CI ICE is a non-emergency engine
EMERG	CI ICE is an emergency engine
FIRE	CI ICE is a fire-pump engine (an emergency engine certified to National Fire Protection Association requirements)

Commencing:
Select one of the following options to indicate what type of construction occurred after 07/11/2005. Enter the code on the form.

Code	Description
CON	CI ICE was newly constructed after 07/11/2005
RECON	CI ICE was modified or reconstructed after 07/11/2005

★ **Complete "Manufacture Date" only if "Commencing" is "CON."**

Manufacture Date:
Select one of the following options to indicate when the CI ICE was manufactured. Enter the code on the form.

For CI ICE for which "Service" is "NON" or "EMERG"

Code	Description
0406-	Date of manufacture was on or prior to 04/01/2006.
0406+	Date of manufacture was after 04/01/2006.

For CI ICE for which "Service" is "FIRE"

Code	Description
0706-	Date of manufacture was on or prior to 07/01/2006.
0706+	Date of manufacture was after 07/01/2006.

▼ **Do not continue if "Manufacture Date" is "0406-" or "0706-."**

Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary compression ignition internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60IIII-XX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Diesel:
Select one of the following codes to indicate fuel being used. Enter the code on the form.

Code	Description
DIESEL	Diesel fuel is used
AES	Alternative Emission Standard has been approved by the EPA Administrator

★ **Complete "AES No." only if "Diesel" is "AES."**

AES No.:
If an AES has been approved by the EPA administrator, enter the corresponding AES unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AES approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate regulated entity number. Otherwise, leave this column blank.

▼ **Do not continue if "Diesel" is "AES."**

Displacement:
Select one of the following options to indicate the displacement of the CI ICE (expressed in liters per cylinder). Enter the code on the form.

Code	Description
10-CS	Displacement is less than 10 liters per cylinder and is a constant-speed engine. (*Use only if "Service" is "NON" or "EMERG."*)
10-	Displacement is less than 10 liters per cylinder.
10-15	Displacement is greater than or equal to 10 and less than 15 liters per cylinder.
15-20	Displacement is greater than or equal to 15 and less than 20 liters per cylinder.
20-25	Displacement is greater than or equal to 20 and less than 25 liters per cylinder.
25-30	Displacement is greater than or equal to 25 and less than 30 liters per cylinder.
30+	Displacement is greater than or equal to 30 liters per cylinder.

★ **Complete "Generator Set" only if "Service" is "NON" and "Displacement" is "10-."**

Generator Set:
Enter "YES" if the CI ICE is a generator set engine. Otherwise, enter "NO."

★ **Do not complete "Model Year" if "Displacement" is "30+."**

Model Year:
Select one of the following options to indicate what model year the CI ICE was manufactured in. Enter the code on the form.

Code	Description
2007-	CI ICE was manufactured prior to model year 2007.
2007	CI ICE was manufactured in model year 2007.
2008	CI ICE was manufactured in model year 2008.
2009	CI ICE was manufactured in model year 2009.
2010	CI ICE was manufactured in model year 2010.
2011	CI ICE was manufactured in model year 2011.
2012	CI ICE was manufactured in model year 2012.
2013	CI ICE was manufactured in model year 2013.
2014	CI ICE was manufactured in model year 2014.
2015	CI ICE was manufactured in model year 2015.
2016	CI ICE was manufactured in model year 2016.
2017+	CI ICE was manufactured in model year 2017 or later.

★ **Complete "Install Date" only if "Displacement" is "30+."**

Install Date:
Select one of the following options to indicate what year the CI ICE was installed. Enter the code on the form.

Code	Description
2012-	The CI ICE was installed prior to 2012.
2012+	The CI ICE was installed in 2012 or later (use only if "Service" is "EMERG" or "FIRE").
2012-2015	The CI ICE was installed in 2012 through 2015.
2016+	The CI ICE was installed in 2016 or later.

Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Unit ID No.:
Enter the identification number (ID No.) for the stationary compression ignition internal combustion engine unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60IIII-XX]). GOP applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Do not complete "Kilowatts" if "Displacement" is "30+."**

Kilowatts:
Select one of the following options to indicate the power rating of the CI ICE expressed in Kilowatts (KW). Enter the code on the form.

For non-emergency and emergency (NOT fire pump) CI ICE manufactured prior to model year 2007

Code	Description
8-	Power rating is less than 8 KW.
8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
37-75	Power rating is greater than or equal to 37 KW and less than 75 KW.
75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
130-2237	Power rating is greater than or equal to 130 KW and less than or equal to 2237 KW.
2237+	Power rating is greater than or equal to 2237 KW.

For non-emergency CI ICE manufactured in model year 2007 and later

For CI ICE with a displacement less than 10 liters per cylinder

Code	Description
N8-	Power rating is less than 8 KW.
N8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
N19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
N37-56	Power rating is greater than or equal to 37 KW and less than 56 KW.
N56-75	Power rating is greater than or equal to 56 KW and less than 75 KW.
N75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
N130-368	Power rating greater than or equal to 130 KW and less than or equal to 368 KW.
N368-560	Power rating is greater than 368 KW and less than 560 KW.
N560-900	Power rating greater than or equal to 560 KW and less than or equal to 900 KW.
N900-2237	Power rating is greater than 900 KW and less than or equal to 2237 KW.
N2237+	Power rating is greater than 2237 KW.

For CI ICE with a displacement greater than or equal to 10 and less than 30 liters per cylinder

Code	Description
N368-3300	Power rating is greater than 368 KW and less than 3300KW (use only if “Displacement” is “15-20” and “Model Year” is “2007” through “2013”).
N3300+	Power rating is greater than or equal to 3300 KW (use only if “Displacement” is “15-20” and “Model Year” is “2007” through “2013”).
N75-	Power rating is less than 75 KW.
N75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
N368-600	Power rating is greater than 368 KW and less than 600 KW.
N600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
N1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
N2000-3700	Power rating is greater than or equal to 2000 KW and less than 3700 KW.
N3700+	Power rating is greater than or equal to 3700 KW.

For emergency (NOT fire pump) CI ICE manufactured in model year 2007 and later

For CI ICE with a displacement less than 10 liters per cylinder

Code	Description
E8-	Power rating is less than 8 KW.
E8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
E19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
E37-75	Power rating is greater than or equal to 37 KW and less than 75 KW.
E75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
E130-368	Power rating greater than or equal to 130 KW and less than or equal to 368 KW.
E368-560	Power rating greater than or equal to 368 KW and less than or equal to 560KW.
E560-2237	Power rating is greater than 560 KW and less than or equal to 2237 KW.
E2237+	Power rating is greater than 2237 KW.

For CI ICE with a displacement greater than or equal to 10 and less than 15 liters per cylinder

Code	Description
E75-	Power rating is less than 75 KW.
E75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
E368-600	Power rating is greater than 368 KW and less than 600 KW.
E600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
E1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
E2000-3700	Power rating is greater than or equal to 2000 KW and less than 3700 KW.
E3700+	Power rating is greater than or equal to 3700 KW.

For CI ICE with a displacement greater than or equal to 15 and less than 20 liters per cylinder

Code	Description
E368-3300	Power rating is greater than 368 KW and less than 3300 KW (use only if “Model Year” is 2013).
E75-	Power rating is less than 75 KW.
E75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
E368-600	Power rating is greater than 368 KW and less than 600 KW.
E600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
E1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
E2000-3300	Power rating is greater than or equal to 2000 KW and less than 3300 KW.
E3300+	Power rating is greater than or equal to 3300 KW.

For CI ICE with a displacement greater than or equal to 20 and less than 30 liters per cylinder

Code	Description
E75-	Power rating is less than 75 KW.
E75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
E368-600	Power rating is greater than 368 KW and less than 600 KW.
E600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
E1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
E2000+	Power rating is greater than or equal to 2000 KW.

For ALL fire pump CI ICE less than 30 liters per cylinder

Code	Description
F8-	Power rating is less than 8 KW.
F8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
F19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
F37-75	Power rating is greater than or equal to 37 KW and less than 75 KW.
F75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
F130-368	Power rating is greater than or equal to 130 KW and less than or equal to 368 KW.
F368-450	Power rating is greater than 368 KW and less than 450 KW.
F450-560	Power rating is greater than or equal to 450 KW and less than or equal to 560 KW.
F560+	Power rating is greater than 560 KW.

★ **Complete "Filter" only if "Service" is "NON."**

Filter:
Enter "YES" if the CI ICE is equipped with a diesel particulate filter. Otherwise, enter "NO."

★ **Complete "Standards" only if "Service" is "EMERG" or "FIRE."**

Standards:
Enter "YES" if the emergency CI ICE meets the standards applicable to non-emergency engines. Otherwise, enter "NO."

Compliance Option:
Select one of the following options to indicate how compliance is being demonstrated. Enter the code on the form.

Select one of the following two options only if "Commencing" is "RECON."

Code	Description
CERT	Engine certified to meet the emission standards in §60.4204(e) or §60.4205(f), as applicable.
NONCERT	Engine not certified to meet the emission standards in §60.4204(e) or §60.4205(f), as applicable.

Select one of the following five options only if "Commencing" is "CON:" **and**

- "Service" is "NON" or "EMERG" and "Displacement" is NOT "30+" and "Model Year" is "2007-"; **or**
- "Service" is "FIRE;" **and**
  - "Kilowatts" is "F8-", "F8-19", "F19-37", or "F37-75" **and** "Model Year" is "2010" or prior; or
  - "Kilowatts" is "F75-130" **and** "Model Year" is "2009" or prior; or
  - "Kilowatts" is "F130-368", "F368-450", or "F450-560" **and** "Model Year" is "2008" or prior; or
  - "Kilowatts" is "F560+" **and** "Model Year" is "2007" or prior.

Code	Description
PURCH	Certified engine according to § 60.4211(b)(1).
SIMILAR	Records are kept on a similar engine according to § 60.4211(b)(2).
MDATA	Records are kept of manufacturer data according to § 60.4211(b)(3).
CDDATA	Records are kept of control device data according to § 60.4211(b)(4).
TEST	Performance test conducted according to § 60.4211(b)(5).

Select one of the following two options only if "Commencing" is "CON:" **and**

- "Service" is "NON" or "EMERG" and "Displacement" is **not** "30+" and "Model Year" is ***not*** "2007-"; **or**
- "Service" is "FIRE;" **and**
  - "Kilowatts" is "F8-", "F8-19", "F19-37", or "F37-75" **and** "Model Year" is "2011" or later; or
  - "Kilowatts" is "F75-130" **and** "Model Year" is "2010" or later; or
  - "Kilowatts" is "F130-368", "F368-450", or "F450-560" **and** "Model Year" is "2009" or later; or
  - "Kilowatts" is "F560+" **and** "Model Year" is "2008" or later.

Code	Description
MANU YES	The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
MANU NO	The CI ICE and control device IS NOT installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.

★ **Complete "PM Compliance" only if "Commencing" is "CON" and "Service" is "NON," and "Displacement" is "30+."**

PM Compliance:
Select one of the following options to indicate which Particulate Matter compliance option you are using. Enter the code on the form.

Code	Description
PM60	Particulate matter emissions are reduced by 60% or more
PM15	Particulate matter emissions are limited in the engine exhaust to 0.15 g/KW-hr

★ **Complete "Options" only if "Service" is "FIRE" and if one of the following conditions are met:**

- **"Kilowatts" is "F37-75" and "Model Year" is "2011", "2012," or "2013"; or**
- **"Kilowatts" is "F75-130" and "Model Year" is "2010," "2011", or "2012"; or**
- **"Kilowatts" is "F130-368" or "F368-450" and "Model Year" is "2009," "2010", or "2011"**

Options:
Select one of the following options to indicate the rated speed (in RPMs) and whether or not you are choosing to alternatively comply with the previous model year's emission limits as stated in 40 CFR 60, Subpart IIII-Table 4 (Footnotes 1-3). Enter the code on the form.

Code	Description
2650-	The CI ICE rated speed is less than 2650 RPMs (Not allowed to comply with the previous model year's emission limits).
2650+YES	The CI ICE rated speed is greater than 2650 RPMs and is complying with the previous model year's emission limits.
2650+NO	The CI ICE rated speed is greater than 2650 RPMs but is not complying with the previous model year's emission limits.

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Horsepower Rating	RACT Date Placed in Service	Functionally Identical Replacement	Type of Service	Fuel Fired	Engine Type	ESAD Date Placed in Service	Diesel HP Rating

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 2)
Federal Operating Permit Program
Table 1b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	NO_x Emission Limitation	23-C Option	30 TAC Chapter 116 Limit	EGF System CAP Unit	NO_x Averaging Method	NO_x Reduction	NO_x Monitoring System

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 3)
Federal Operating Permit Program
Table 1c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Fuel Flow Monitoring	CO Emission Limitation	CO Averaging Method	CO Monitoring System	NH_3 Emission Limitation	NH_3 Monitoring

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

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
(P) G-1	63ZZZZ-PG1	AREA	500+	06+	NO	NORMAL	CI
(P) G-2	63ZZZZ-PG2	AREA	500+	06+	NO	NORMAL	CI
(P) C-1	63ZZZZ-PC1	AREA	300-500	06+	NO	NORMAL	CI
(P) FWP-1	63ZZZZ-PFWP	AREA	300-500	06+	NO	EMER-A	CI
(OSV) GT-1	63ZZZZ-OSVGT1	AREA	500+	06+	NO	NORMAL	SI
(OSV) GT-2	63ZZZZ-OSVGT2	AREA	500+	06+	NO	NORMAL	SI
(OSV) EDG-1	63ZZZZ-OSVEDG1	AREA	500+	06+	NO	NORMAL	CI
(OSV) EDG-2	63ZZZZ-OSVEDG2	AREA	500+	06+	NO	NORMAL	CI
(OSV) EDG-3	63ZZZZ-OSVEDG3	AREA	500+	06+	NO	NORMAL	CI
(OSV) EDG-4	63ZZZZ-OSVEDG4	AREA	500+	06+	NO	NORMAL	CI

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 5)
Federal Operating Permit Program
Table 2b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Operating Hours	Different Schedule	Emission Limitation	Displacement
(P) G-1	63ZZZZ-PG1	YES	NO	NO		
(P) G-2	63ZZZZ-PG2	YES	NO	NO		
(P) C-1	63ZZZZ-PC1	YES	NO	NO		
(OSV) GT-1	63ZZZZ-OSVGT1	YES	NO	NO		
(OSV) GT-2	63ZZZZ-OSVGT2	YES	NO	NO		
(OSV) EDG-1	63ZZZZ-OSVEDG1	YES	NO	NO		
(OSV) EDG-2	63ZZZZ-OSVEDG2	YES	NO	NO		
(OSV) EDG-3	63ZZZZ-OSVEDG3	YES	NO	NO		
(OSV) EDG-4	63ZZZZ-OSVEDG4	YES	NO	NO		

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 6)
Federal Operating Permit Program
Table 2c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Crankcase	Performance Test	Control Technique	Operating Limits	Monitoring System
(P) G-1	63ZZZZ-PG1	NO	NO	OTHER2	NO	OTHER
(P) G-2	63ZZZZ-PG2	NO	NO	OTHER2	NO	OTHER
(P) C-1	63ZZZZ-PC1	NO	NO	OTHER2	NO	OTHER
(OSV) GT-1	63ZZZZ-OSVGT1	NO	NO	OTHER2	NO	OTHER
(OSV) GT-2	63ZZZZ-OSVGT2	NO	NO	OTHER2	NO	OTHER
(OSV) EDG-1	63ZZZZ-OSVEDG1	NO	NO	OTHER2	NO	OTHER
(OSV) EDG-2	63ZZZZ-OSVEDG2	NO	NO	OTHER2	NO	OTHER
(OSV) EDG-3	63ZZZZ-OSVEDG3	NO	NO	OTHER2	NO	OTHER
(OSV) EDG-4	63ZZZZ-OSVEDG4	NO	NO	OTHER2	NO	OTHER

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 7)
Federal Operating Permit Program
Table 3: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter E: Multi-Region Combustion Control

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Unit Type	Horsepower Rating	Landfill	Control Operations	NO_x and O_2 Monitoring	Ammonia Use	NH_3 Emission Limitation	Ammonia Monitoring

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

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Construction/ Reconstruction/ Modification Date	Test Cell	Exemption	Temp Replacement	Horsepower	Fuel	AEL No.	Lean Burn	Commencing
(OSV) GT-1	60JJJJ-OSVGT1	YES	NO	NONE	NO	1350+	OTHER			CON
(OSV) GT-2	60JJJJ-OSVGT2	YES	NO	NONE	NO	1350+	OTHER			CON

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

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Displacement	Certified	Operation	Certified Modification	Service	Severe Duty	Optional Compliance
(OSV) GT-1	60JJJJ-OSVGT1	N08+		YES	YES	NO	NON	NO	
(OSV) GT-2	60JJJJ-OSVGT2	N08+		YES	YES	NO	NON	NO	

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 10)
Federal Operating Permit Program
Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Applicability Date	Exemptions	Service	Commencing	Manufacture Date
(P) G-1	60IIII-PG1	2005+	NONE	NON	CON	0406+
(P) G-2	60IIII-PG2	2005+	NONE	NON	CON	0406+
(P) C-1	60IIII-PC1	2005+	NONE	NON	CON	0406+
(P) FWP-1	60IIII-PFWP	2005+	NONE	FIRE	CON	0706+
(OSV) EDG-1	60IIII-OSVEDG1	2005+	NONE	NON	CON	0406+
(OSV) EDG-2	60IIII-OSVEDG2	2005+	NONE	NON	CON	0406+
(OSV) EDG-3	60IIII-OSVEDG3	2005+	NONE	NON	CON	0406+
(OSV) EDG-4	60IIII-OSVEDG4	2005+	NONE	NON	CON	0406+

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 11)
Federal Operating Permit Program
Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
(P) G-1	60IIII-PG1	DIESEL		10-	YES	2007	
(P) G-2	60IIII-PG2	DIESEL		10-	YES	2007	
(P) C-1	60IIII-PC1	DIESEL		10-	NO	2007	
(P) FWP-1	60IIII-PFWP	DIESEL		10-	NO	2008	
(OSV) EDG-1	60IIII-OSVEDG1	DIESEL		10-	YES	2017+	
(OSV) EDG-2	60IIII-OSVEDG2	DIESEL		10-	YES	2017+	
(OSV) EDG-3	60IIII-OSVEDG3	DIESEL		10-	YES	2017+	
(OSV) EDG-4	60IIII-OSVEDG4	DIESEL		10-	YES	2017+	

Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 12)
Federal Operating Permit Program
Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	**3/31/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP/GOP Index No.	Kilowatts	Filter	Standards	Compliance Option	PM Compliance	Options
(P) G-1	60IIII-PG1	N560-900	NO		MANU YES		
(P) G-2	60IIII-PG2	N560-900	NO		MANU YES		
(P) C-1	60IIII-PC1	N130-368	NO		MANU YES		
(P) FWP-1	60IIII-PFWP	F130-368		NO	MDATA		
(OSV) EDG-1	60IIII-OSVEDG1	N900-2237	NO		MANU YES		
(OSV) EDG-2	60IIII-OSVEDG2	N900-2237	NO		MANU YES		
(OSV) EDG-3	60IIII-OSVEDG3	N900-2237	NO		MANU YES		
(OSV) EDG-4	60IIII-OSVEDG4	N900-2237	NO		MANU YES		

Texas Commission on Environmental Quality
Form OP-UA11
Stationary Turbine Attributes

General:

This form is used to provide a description and data pertaining to all stationary turbines with potentially applicable requirements associated with a particular regulated entity number and application. Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to a stationary turbine then it should be left blank and need not be submitted with the application. The following stationary turbines are considered off-permit sources and do not need to be listed:

A. In the Beaumont/Port Arthur Ozone Nonattainment Area affected by Title 30 Texas Administrative Code Chapter 117, Subchapter B (30 TAC Chapter 117, Subchapter B),: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas, Division 1, stationary gas turbines with a megawatt (MW) rating of less than 1.0 MW, unless the unit is placed in service after June 9, 1993, as a functionally identical replacement for existing units subject to the provisions of 30 TAC Chapter 117, Subchapter B.

B. In counties not affected by 30 TAC Chapter 117, Subchapter B, stationary gas turbines with a heat input at peak load of less than 5.35 gigajoules per hour (5 MMBtu/hr).

If the codes entered by the applicant show negative applicability to the rule or sections of the rule represented on the table, then the applicant need not complete the remainder of the table(s) that correspond to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the "Specific" section of the instruction text. The following is included in this form:

Table 1a - 1c:	Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart GG: Stationary Gas Turbines
Table 2a - 2b:	Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone Nonattainment Areas
Table 3a - 3c:	Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas
Table 4a - 4b:	Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter E, Division 1: Utility Electric Generation in East and Central Texas
Table 5:	Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart YYYY: National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
Table 6a - 6c:	Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart KKKK: Stationary Combustion Turbines

The application area name from Form OP-1, (Site Information Summary) must appear in the header of each page for the purpose of identification for the initial submittal. The date of the initial form submittal must also be included and should be consistent throughout the application (MM/DD/YYYY). Leave the permit number blank for the initial form submittal. If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name (from Form OP-1), and the date of the revision submittal.

Unit attribute questions that do not require a response from all applicants are preceded by qualification criteria in the instructions. If the unit does not meet the qualification criteria, a response to the question is not required. Anytime a response is not required based on the qualification criteria, leave the space on the form blank.

Notwithstanding any qualification criteria in the form instructions or information provided in other TCEQ guidance, the applicant may leave an attribute question blank (or indicate "N/A" for "Not Applicable") if the attribute is not needed for the applicable requirement determinations of a regulation for a unit.

In some situations, the applicant has the option of selecting alternate requirements, limitations, and/or practices for a unit. Note that these alternate requirements, limitations, and/or practices must have the required approval from the TCEQ executive director and/or the U.S. Environmental Protection Agency Administrator before the federal operating permit application is submitted.

The Texas Commission on Environmental Quality (TCEQ) requires that a Core Data Form be submitted on all incoming registrations unless all of the following are met: the Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and no core data information has changed. The Central Registry, a common record area of the TCEQ, maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as "core data." The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the Customer Reference (CN) number and the Regulated Entity (RN) number. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed. If this is the initial registration, permit, or license for a facility site, then the Core Data Form must be completed and submitted with application or registration forms. If amending, modifying, or otherwise updating an existing record for a facility site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ website at www.tceq.texas.gov/permitting/central_registry/index.html.

Specific:

Table 1a: Title 40 Code of Federal Regulations Part 60 Subchapter GG: Stationary Gas Turbines

Complete Tables 1a – 1c for turbines that commenced construction, reconstruction, or modification prior to February 18, 2005. Turbines constructed, reconstructed, or modified after February 18, 2005, are subject to 40 CFR Part 60, Subpart KKKK

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Peak Load Heat Input:
Select **one** of the following ranges for the heat input at peak load (100% of the manufacturer's design capacity of the stationary gas turbine at ISO standard day conditions, 288 degrees Kelvin, 60% relative humidity, and 101.3 kilopascals). Enter the **code** on the form.

Code	Description
10-	Heat Input is less than 10 MMBtu/hr (10.7 GJ/hr)
10-100	Heat Input is greater or equal to 10 MMBtu/hr (10.7 GJ/hr) and less than or equal to (107.2 GJ/hr) 100 MMBtu/hr
100+	Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr)

▼ **Continue only if "Peak Load Heat Input" is "10-100" or "100+."**

Construction/Modification Date:
Select **one** of the following ranges based on the most recent construction, modification, or reconstruction date. Enter the **code** on the form.

Code	Description
77-	On or before October 3, 1977
77-82	After October 3, 1977, and on or before January 27, 1982
82-82	After January 27, 1982, and before October 3, 1982
82-04	On or after October 3, 1982, and before July 8, 2004
2004+	On or after July 8, 2004, and prior to February 18, 2005

▼ **Continue only if "Construction/Modification Date" is "77-82," "82-82," "82-04," or "2004+."**

Turbine Cycle:
Select **one** of the cycle types that describe the operation of the turbine. Enter the **code** on the form.

Code	Description
SIMPLE	Unit does not recover heat from the gas turbine exhaust to preheat inlet combustion air or to heat water or generate steam
REGEN	Unit recovers heat from the gas turbine exhaust to preheat inlet combustion air
COMB	Unit recovers heat from the gas turbine exhaust to heat water or generate steam

★ **If "Turbine Cycle" is "REGEN" and "Peak Load Heat Input" is "10-100" do not complete the remainder of Table 1a or Table 1b, go to Table 1c and provide information beginning with "Sulfur Content."**

Subpart GG Service Type:
Select **one** of the following types of service for the stationary gas turbine. Enter the **code** on the form (GOP applicants may only select "OTHER" or "EMERG").

Code	Description
ELCTRC	Electric utility generation
MLTRY	Military gas turbines installed for use as a military training facility, or for use in other than a garrison facility
EMERG	Emergency or firefighting
RESDEV	Used by a manufacturer engaged in research and development of both gas turbine emission control techniques and efficiency improvements and exempted by the EPA Administrator
OTHER	Other type of service

★ **If "Subpart GG Service Type" is "MLTRY," "EMERG," or "RESDEV" do not complete the remainder of Table 1a or Table 1b, go to Table 1c and provide information beginning with "Sulfur Content."**

★ **If "Subpart GG Service Type" is "ELCTRC" do not complete the remainder of Table 1a, go to Table 1b.**

★ **Complete "Federal Register" only if "Peak Load Heat Input" is "100+," "Construction/Modification Date" is "77-82" and "Subpart GG Service Type" is "OTHER."**

Federal Register:
Select **one** of the following options to describe the Federal Register notification. Enter the **code** on the form.

Code	Description
REQ	Required in the September 10, 1979, Federal Register (44 FR 52792) to comply with 40 CFR § 60.332(a)(1)
NOREQ	Not required in the September 10, 1979, Federal Register (44 FR 52792) to comply with 40 CFR § 60.332(a)(1)

★ **If "Federal Register" is "REQ," do not complete the remainder of Table 1a or Table 1b, go to Table 1c and provide information beginning with "Sulfur Content."**

★ **Complete "Manufacturer's Rated Base Load" only if "Peak Load Heat Input" is "100+," "Subpart GG Service Type" is "OTHER" and one of the following conditions is met:**

1. **"Construction/Modification Date" is NOT "77-82;" or**
2. **"Construction/Modification Date" is "77-82" and "Federal Register" is "NOREQ"**

Manufacturer's Rated Base Load:
Select **one** of the following ranges for manufacturer's rated base load (load level at which the stationary gas turbine is normally operated) at ISO conditions (288 degrees Kelvin, 60% relative humidity, and 101.3 kilopascals). Enter the **code** on the form.

Code	Description
30-	Base load is less than or equal to 30 MW
30+	Base load is greater than 30 MW

★ **If "Manufacturer's Rated Base Load" is "30+," do not complete Table 1b, go to Table 1c and provide information beginning with "Sulfur Content."**

Table 1b: Title 40 Code of Federal Regulations Part 60 Subchapter GG: Stationary Gas Turbines

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

NO_x Control Method:
Select **one** of the following options for the NO_x control method. Enter the **code** on the form.

Code	Description
H2OSTM	Water or steam injection only
H2OSTM+	Water or steam injection with other add-on controls
SCR	Selective catalytic reduction
OTHER	Other NO_x control method
NONE	No NO_x control method is used

NO_x Monitoring Method:
Select **one** of the following options for the NO_x monitoring method. Enter the **code** on the form.

Code	Description
CMS	Continuous monitoring system for water or steam injection
CEMS	Continuous emission monitoring system
CPMS	Continuous parameter monitoring system
ALT	Previously approved alternate for continuous monitoring of compliance with the applicable NO_x limit under 40 CFR § 60.332
NONE	No continuous monitoring system is used

Alternate Monitoring ID No.:
If an alternate method for continuous monitoring has been approved, then enter the corresponding unique identifier (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the compliance file under the appropriate account number. Otherwise, leave this column blank.

★ **Complete "Regulated under Part 75" only if "NO_x Monitoring Method" is "CPMS."**

Regulated Under Part 75:
Enter "YES," if the turbine is also regulated under 40 CFR Part 75 and the owner or operator is electing to monitor parameters under either section 2.3 of appendix E to Part 75 or 40 CFR § 75.19(c)(1)(iv)(H). Otherwise, enter "NO."

★ **Do not complete "Turbine Combustion Process" if "NO_x Monitoring Method" is "ALT."**

Turbine Combustion Process:
Select the combustion process that describes combustion in the gas turbine. Enter the code on the form.

Code	Description
DIFFLM	Combustion process is diffusion flame combustion
LNPMX	Combustion process is lean-premix staged combustion

Note: Turbines capable of operating in either combustion process mode should submit on separate lines for each combustion process used at the site.

★ **Complete "CEMS Performance Evaluation" only if "Construction/Modification Date" is "2004+" and "NO_x Monitoring Method" is "CEMS."**

CEMS Performance Evaluation:
Enter "YES," if the owner or operator is electing to conduct a separate performance evaluation as described in 40 CFR § 60.335(b)(7). Otherwise, enter "NO."

Table 1c: Title 40 Code of Federal Regulations Part 60 Subchapter GG: Stationary Gas Turbines

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "Duct Burner" only if "Turbine Cycle" is "COMB."**

Duct Burner:
Enter "YES," if the turbine is part of a combined cycle turbine system equipped with supplemental heat (duct burner). Otherwise, enter "NO."

NO_x Allowance:
Enter "YES," if the owner or operator is electing to use a NO_x allowance in determining emission limits in 40 CFR § 60.332(a). Otherwise, enter "NO."

Sulfur Content:
Enter "YES" if compliance is demonstrated by determining the sulfur content of the fuel. Otherwise, enter "NO."

Fuel Type Fired:
Select **one** of the following options to describe the type of fuel fired in operation of the turbine. Enter the **code** on the form.

Code	Description
NG	Natural gas meeting the definition in § 60.331(u)
GAS	Other gaseous fuel (SOP applications only)
LIQ	Liquid fuel (SOP applications only)

Fuel Supply:
Select **one** of the following options to describe the stationary gas turbine fuel supply. Enter the **code** on the form.

Code	Description
BULK	Stationary gas turbine is supplied its fuel from a bulk storage tank (for SOP applications only)
NONE	Stationary gas turbine is supplied its fuel without intermediate bulk storage

Fuel Monitoring Schedule:
Select the option that describes the fuel monitoring schedule used to demonstrate compliance with sulfur requirement. Enter the **code** on the form.

Code	Description
331U	Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored
PREV	Previously approved custom fuel monitoring schedule (use only for turbines constructed/modified prior to July 8, 2004, for which a custom fuel monitoring schedule was approved prior to that date)
I2	Monitoring and recording the sulfur content once per unit operating day
I3	Using a custom fuel monitoring schedule approved by the Administrator as required by 40 CFR § 60.334(i)(3)
I3I	Using the custom fuel monitoring schedule set forth in 40 CFR § 60.334(i)(3)(i)
I3II	Using the custom fuel monitoring schedule set forth in 40 CFR § 60.334(i)(3)(ii)

★ **Complete "Custom Fuel Monitoring Id. No." only if "Fuel Monitoring Schedule" is "PREV" or "I3."**

Custom Fuel Monitoring ID No.:
If a previously approved custom fuel monitoring schedule or a custom fuel monitoring schedule, under 40 CFR § 60.334(i)(3), approved by the Administrator is being used, then enter the unique identifier (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the compliance file under the appropriate account number. Otherwise, leave this column blank.

Table 2a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone Nonattainment Areas

Complete Tables 2a and 2b only for stationary gas turbines that are:

- *included in an SOP application;*
- *used in an electric power generating system owned or operated by an electric cooperative, municipality, river authority, public utility, or a Public Utility Commission (PUC) of Texas regulated utility or any of their successors; and*
- *located within the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas.*

The Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area consists of Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties.

Sites located in Parker County, other than independent power producers, have applicability under both 30 TAC Chapter 117, Subchapter C, Division 4 and under 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete both Tables 2a - 2b and Tables 4a - 4b to determine requirements.

Independent power producers in Parker County are subject only to the requirements of 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete only Tables 4a - 4b.

Unit ID No.:
Enter the identification number (ID No.) for the gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Date Placed in Service:
Select **one** of the following options for the date the gas turbine was placed in service. Enter the **code** on the form.

Code	Description
92-	On or before November 15, 1992
92-93	After November 15, 1992, and on or before June 9, 1993
93-FCD	After June 9, 1993, and before the final compliance date in 30 TAC §§ 117.9100, or 117.9120
FCD+	On or after the final compliance date in 30 TAC §§ 117.9100 or 117.9120

★ **Complete "Functionally Identical Replacement" only if "Date Placed in Service" is "93-FCD" and located in Beaumont/Port Arthur Ozone Nonattainment Area.**

Functionally Identical Replacement:
Select **one** of the following codes to identify if the stationary gas turbine as functionally identical replacement for a unit or group of units. Enter the **code** on the form.

Code	Description
YES	Unit is a functionally identical replacement
NO	Unit is not a functionally identical replacement

★ **Complete "MW Rating" only if located in Beaumont/Port Arthur or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas.**

MW Rating:
Select **one** of the following options for the megawatt rating (MR), as defined in 30 TAC Chapter 117 for the exempt units. Enter the **code** on the form.

Code	Description
1-	MR is less than 1 MW
1-10	MR is greater than or equal to 1 MW and less than 10 MW
10-30	MR is greater than or equal to 10 MW and less than 30 MW
30+	MR is greater than or equal to 30 MW

Service Type:
Select **one** of the following options for type of service. Enter the **code** on the form.

Code	Description
START	Used solely to power other engines or gas turbines during start-up
850-A	Demonstrated to operate less than 850 hours per year, based on a rolling 12-month average (use for turbines located in the Beaumont-Port Arthur and Dallas-Fort Worth Eight-Hour Ozone Nonattainment Areas only)
PK72	Gas turbine defined as a peaking unit in 40 CFR § 72.2
PKOTH	Gas turbine used for peaking service, not including peaking units as defined in 40 CFR § 72.2
NORM	Gas turbine (other than peaking service)

▼ **Do NOT continue if "Date Placed in Service" is "92-93" or "FCD+" and located in Beaumont/Port Arthur or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas.**

▼ **Do NOT continue if "Functionally Identical Replacement" is "NO" and located in Beaumont/Port Arthur.**

▼ **Do NOT continue if "Service Type" is "START" or "850-A."**

Fuel Type:
Select **one** of the following options for fuel type. Enter the **code** on the form.

Code	Description
NATGAS	Firing natural gas only
FUELOIL	Firing fuel oil only

Only one fuel type code may be entered per fuel-firing option. Start each additional fuel-firing option on a different line with a different SOP index number.

Example:	**SOP Index No.**	**Fuel Type**
Fuel-firing Option A:	R7UT-1	NATGAS
Fuel-firing Option B:	R7UT-2	FUELOIL

★ **Complete "RACT NO_x Emission Limitation" only if located in the Beaumont/Port Arthur Ozone Nonattainment Area.**

RACT NO_x Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable limitation standards listed in 30 TAC Chapter 117, Subchapter C. Select **one** of the following options. Enter the **code** on the form.

Code	Description
X05	30 TAC § 117.1005 [relating to Emission Specifications for Reasonably Available Control Technology]
ASES	Unit is complying with an Alternative System-wide Emission Specification under 30 TAC § 117.1015
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC § 117.1025

Note: If using some other alternative, such as an alternate reasonably available control technology, alternate means of control, or emission reduction credit, the type of alternate used will need to be explained in a cover letter or some other attachment to the permit application.

★ **Complete "ESAD NO_x Emission Limitation" only if located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.**

ESAD NO_x Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NO_x limitation standards listed in 30 TAC § 117.1210. Select **one** of the following options. Enter the **code** on the form.

Code	Description
1201-	Unit complying with any applicable permit limit in a permit issued before January 2, 2001, in lb/MMBtu heat input as specified in § 117.1220 [relating to System Cap] and 30 TAC Chapter 101, Subchapter H, Division 3
1201+	Unit complying with any applicable permit limit in a permit issued on or after January 2, 2001, that the owner or operator submitted an application determined to be administratively complete by the E.D. before January 2, 2001, in lb/MMBtu heat input as specified in § 117.1220 [relating to System Cap] and 30 TAC Chapter 101, Subchapter H, Division 3
12PBR	Unit complying with any applicable permit limit in a permit by rule under which construction commenced by January 2, 2001, that the owner or operator submitted an application determined to be administratively complete by the E.D. before January 2, 2001, in lb/MMBtu heat input as specified in § 117.1220 [relating to System Cap] and 30 TAC Chapter 101, Subchapter H, Division 3
1210	Title 30 TAC § 117.1210 [relating to Emission Specifications for Attainment Demonstration] (not complying with any above emission specifications)

★ **Complete "Steam or Water Injection" only if located in the Beaumont/Port Arthur or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas.**

Steam or Water Injection:
Enter "YES" if the stationary gas turbine is using steam or water injection to comply with the NO_x emission specifications in either § 117.1005(g) (for Beaumont/Port Arthur Ozone Nonattainment Areas) or § 117.1310(a)(3) (for Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas). Otherwise, enter "NO."

★ **Complete "EGF" only if located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.**

EGF:
Enter "YES" if the unit meets the definition of an electric generating facility (EGF). Otherwise, enter "NO."

★ **Complete "Title 30 TAC Chapter 116 Permit Limit" only if "RACT NO_x Emission Limitation" is "X05."**

Table 2b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone Nonattainment Areas

Unit ID No.:
Enter the identification number (ID No.) for the gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Title 30 TAC Chapter 116 Permit Limit:
Select **one** of the following descriptions for the 30 TAC Chapter 116 permit limit. Enter the **code** on the form.

For units having a 30 TAC Chapter 116 permit in effect on June 9, 1993:

Code	Description
93Y	NO_x emission limit in 30 TAC § 117.1005 is greater than the NO_x emission limit in a 30 TAC Chapter 116 permit
93N	NO_x emission limit in 30 TAC § 117.1005 is not greater than the NO_x emission limit in a 30 TAC Chapter 116 permit

For units placed into service after June 9, 1993, and prior to the final compliance date in 30 TAC §§ 117.9100, as functionally identical replacement for an existing unit or group of units and limited to the cumulative maximum rated capacity of the units replaced:

Code	Description
95Y	Emission limit in 30 TAC § 117.1005 is greater than the NO_x emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993
95N	Emission limit in 30 TAC § 117.1005 is not greater than the NO_x emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993

NO_x Monitoring System:
Select **one** of the following monitoring system options. Enter the **code** on the form.

Code	Description
75-E	Monitoring operating parameters in accordance with 40 CFR Part 75, Appendix E (use only for peaking units)
CEMS	Continuous emission monitoring system
PEMS	Predictive emission monitoring system in accordance with 30 TAC §§ 117.1040(f), 117.1140(f), 117.1240(g) or 117.1340(g)
1HR	Monitoring operating parameters using the maximum block one-hour emission rate as measured by the 30-day test
OTHER	Not using any of the above monitoring methods

Annual Electric Output:
Select **one** of the following options for annual electric output. Enter the **code** on the form.

Code	Description
2500-	Annual electric output is less than the product of 2,500 hours and MW rating of the unit
2500+	Annual electric output is greater than or equal to the product of 2,500 hours and MW rating of the unit

▼ **Do NOT continue if "Megawatt Rating" is "1-" or "1-10."**

CO Emission Limitation:
Title 30 TAC Chapter 117 provides options to be in compliance with the applicable CO limitation standards listed in 30 TAC Chapter 117, Subchapter C. Select **one** of the following options. Enter the **code** on the form.

Code	Description
1005	Title 30 TAC § 117.1005(i) (relating to Emission Specifications for Reasonably Available Control Technology) (use for turbines located in the Beaumont/Port Arthur Ozone Nonattainment Area)
1210	Title 30 TAC § 117.1210(b)(1) (relating to Emission Specifications for Attainment Demonstration) (use for turbines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area)
1310	Title 30 TAC § 117.1310(b)(1)(B) (relating to Emission Specifications for Eight-Hour Attainment Demonstration) (use for turbines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
ACSS	Turbine is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.1025, 117.1225 or 117.1325

CO Monitoring System:
Select **one** of the following monitoring system options. Enter the **code** on the form.

Code	Description
CEMS	Continuous emission monitoring system
PEMS	Predictive emission monitoring system
OTHER	Other than a CEMS or PEMS

Ammonia Use:
Enter "YES" if urea or ammonia injection is used to control NO_x emissions. Otherwise, enter "NO."

▼ **Continue only if "Ammonia Use" is "YES."**

NH3 Emission Limitation:
Title 30 TAC Chapter 117 provides options to be in compliance with the applicable NH3 limitation standards listed in 30 TAC Chapter 117, Subchapter C. Select **one** of the following options. Enter the **code** on the form.

Code	Description
1005	Title 30 TAC § 117.1005(j) (relating to Emission Specifications for Reasonably Available Control Technology) (use for turbines located in the Beaumont/Port Arthur Ozone Nonattainment Area)
1210	Title 30 TAC § 117.1210(b)(2) (relating to Emission Specifications for Attainment Demonstration) (use for turbines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area)
1310	Title 30 TAC § 117.1310(b)(2) (relating to Emission Specifications for Eight-Hour Attainment Demonstration) (use for turbines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
ACSS	Turbine is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.1025, 117.1225 or 117.1325

NH3 Monitoring System:
Select **one** of the following monitoring system options. Enter the **code** on the form.

Code	Description
CEMS	Continuous emission monitoring system
PEMS	Predictive emission monitoring system in accordance with 30 TAC §§ 117.1040(f), 117.1240(g) or 117.1340(g)

MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

Table 3a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

★ **Complete Tables 3a - 3c of this form for stationary gas turbines located at a commercial, institutional, and industrial major source of NO_x in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas or for duct burners used in turbine exhausts located at a commercial, institutional, and industrial major source of NO_x in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area.**

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at
www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

Megawatt Rating:
Select **one** of the following ranges for the megawatt rating (MR), as defined in 30 TAC Chapter 117. Enter the **code** on the form.

Code	Description
1-	MR is less than 1 MW
1-10	MR is greater than or equal to 1 MW and less than 10 MW and unit is not an opt-in unit
10-30	MR is greater than or equal to 10 MW and less than 30 MW
30+	MR is greater than or equal to 30 MW
10-OPT	Stationary gas turbine with an MR greater than or equal to 1.0 but less than 10.0 that is exempt from RACT requirements under 30 TAC § 117.103(b) but is included under either a Source Cap or an Alternative Plant-Wide Emission Specification in 30 TAC §§117.123(a) or 117.115(a) as an opt-in unit (for SOP applications in the Beaumont/Port Arthur Ozone Nonattainment Area only)
WL10HP	Stationary gas turbine is located in Wise County and the horsepower rating is less than 10,000 horsepower (7.5 MW)
W10HP	Stationary gas turbine is located in Wise County and horsepower rating is greater than or equal to 10,000 HP (7.5 MW) but less than 40,230 HP (30 MW)
WG40HP	Stationary gas turbine is located in Wise County and the horsepower rating is greater than or equal to 40,230 HP (30 MW)

▼ **Do not continue if located in the Beaumont/Port Arthur Ozone Nonattainment Areas and "Megawatt Rating" is"1-."**

★ **Complete "RACT Date Placed in Service" if located in the Beaumont/Port Arthur Ozone Nonattainment Area.**

RACT Date Placed in Service (ICI):
Select **one** of the following options for the date stationary gas turbine was placed in service. Enter the **code** on the form.

Code	Description
92-	On or before November 15, 1992
92-93	After November 15, 1992, and on or before June 9, 1993
93-FCD	After June 9, 1993, and before final compliance date specified in 30 TAC §§ 117.9000, 117.9010, or 117.9020
FCD+	On or after the final compliance date specified in 30 TAC §§ 117.9000, 117.9010 or 117.9020

★ **Complete "Functionally Identical Replacement (ICI)" only if "RACT Date Placed in Service" is "93-FCD."**

Functionally Identical Replacement (ICI):
Enter "YES" if the stationary gas turbine is a functionally identical replacement for a unit or group of units. Otherwise, enter "NO."

▼ **If located in the Beaumont/Port Arthur Ozone Nonattainment Area, continue only if "Date Placed in Service" is "93-FCD" and "Functionally Identical Replacement" is "YES;" or if "Date Placed in Service" is "92-."**

Service Type (ICI):
Select **one** of the following options for type of service. Enter the **code** on the form.

Code	Description
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency, directly and exclusively in agricultural operations or as a chemical processing gas turbine
EMERG	TAC §§ 117.103(a)(6)(D), 117.303(a)(6)(D), 117.403(a)(7)(D), or 117.403(b)(2)(D)
850-B	Demonstrated to operate less than 850 hours per year, based on a rolling 12-month average (low annual capacity factor in the Beaumont/Port Arthur Ozone Nonattainment Areas)
TURB	Stationary gas turbine
DUCT	Duct burner used in turbine exhaust

▼ **Do not continue if "Service Type" is "EXEMPT" or "EMERG" or if located in the Beaumont/Port Arthur Ozone Nonattainment Areas and "Service Type" is "850-B" or "DUCT."**

NO_x Emission Limitation (ICI):
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable limitation standards listed in 30 TAC Chapter 117, Subchapter B. Select **one** of the following options. Enter the **code** on the form.

For GOP applications:

Code	Description
X05	Title 30 TAC §§ 117.105 or 117.305 (relating to Emission Specifications for Reasonably Available Control Technology)
310A	Title 30 TAC § 117.310(a)(10) (relating to Emission Specifications for Attainment Demonstration) (use in the Houston/Galveston Ozone Nonattainment Area)
410A	Title 30 TAC § 117.410(a)(5) (relating to Emission Specifications for Eight-Hour Attainment Demonstration) (use in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area excluding Wise County)
405B	Title 30 TAC §§ 117.405(b)(3)(A) or 117.405(b)(3)(B) (relating to Emission Specifications for Reasonably Available Control Technology (RACT)) (use in Wise County)

For SOP applications:

For turbines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
105	Title 30 TAC § 117.105 (relating to Emission Specifications for Reasonably Available Control Technology)
APES	Unit is complying with an Alternative Plant-Wide Emissions Specification under Title 30 TAC § 117.115
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.125
SC	Unit is complying with a Source Cap under Title 30 TAC § 117.123

For turbines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310D	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11) (relating to Emission Specifications for Attainment Demonstration) (use in the Houston/Galveston Ozone Nonattainment Area)
ACF	Turbine is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(17)

For turbines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410A	Title 30 TAC §§ 117.410(a)(5) or 117.410(a)(6) (relating to Emission Specifications for Eight-Hour Attainment Demonstration) (use in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area excluding Wise County)
405B	Title 30 TAC §§ 117.405(b)(3)(A) or 117.405(b)(3)(B) (relating to Emission Specifications for Reasonably Available Control Technology (RACT)) (use in Wise County)
ACF	Turbine is complying with an annual capacity factor specification under Title 30 TAC § 117.410(a)(14)
SC	Unit is complying with a Source Cap under Title 30 TAC § 117.423

★ **Complete "23C-Option" only if "NO_x Emission Limitation" is "SC."**

23C-Option:
Select **one** of the following § 117.123(c)(1) or 423(c)(1) options for monitoring. Enter the **code** on the form.

Code	Description
23C-A	CEMS and a totalizing fuel flow meter per §117.123(c)(1)(A) or §117.423(c)(1)(A).
23C-B	PEMS and a totalizing fuel flow meter per §117.123(c)(1)(B) or §117.423(c)(1)(B).
23C-C	Rate measured by hourly emission rate testing per §117.123(c)(1)(C) or §117.423(c)(1)(C).

Table 3b: Title 30 Texas Administrative Code Chapter 117
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary.)

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "30 TAC Chapter 116 Limit" only if "NO_x Emission Limitation" is "105."**

30 TAC Chapter 116 Permit Limit (ICI):
Select **one** of the following descriptions for the 30 TAC Chapter 116 permit limit. Enter the **code** on the form.

For units having a 30 TAC Chapter 116 permit in effect on June 9, 1993:

Code	Description
93Y	NO_x emission limit in 30 TAC § 117.105 is greater than the NO_x emission limit in a 30 TAC Chapter 116 permit
93N	NO_x emission limit in 30 TAC § 117.105 is not greater than the NO_x emission limit in a 30 TAC Chapter 116 permit

For units placed into service after June 9, 1993, and prior to the final compliance date specified in 30 TAC §§ 117.9000, 117.9010 or 117.9020, as functionally identical replacement for an existing unit or group of units and limited to the cumulative maximum rated capacity of the units replaced:

Code	Description
95Y	Emission limit in 30 TAC § 117.105 is greater than the NO_x emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993
95N	Emission limit in 30 TAC § 117.105 is not greater than the NO_x emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993

For existing units without a 30 TAC Chapter 116 Permit in effect on June 9, 1993 or for units placed into service after the final compliance date in 30 TAC §§ 117.9000, 117.9010 or 117.9020 as a functionally identical replacement for and existing unit or group of units and limited to the cumulative maximum rated capacity of the units replaced:

Code	Description
N/A	30 TAC Chapter 117 limits applies for purposes of 30 TAC Chapter 117

★ **Complete "EGF System Cap Unit" only if located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.**

EGF System Cap Unit:
Enter "YES" if the engine is used as an electric generating facility to generate electricity for sale to the electric grid. Otherwise, enter "NO."

Averaging Method:
Select **one** of the following options for the method used to comply with the applicable emission limitation. Enter the **code** on the form.

Code	Description
30D	Complying with the applicable emission limit using a 30-day rolling average
1HR	Complying with the applicable emission limits using a block one-hour average

NO_x Reduction (ICI):
Select **one** of the following NO_x reduction options. Enter the **code** on the form.

Code	Description
WATER	Water or steam injection
POST1	Post combustion control technique with urea or ammonia injection
POST2	Post combustion control technique with chemical reagent injection other than urea or ammonia
OTHER	Other post combustion control method
NONE	No NO_x reduction

NO_x Monitoring System (ICI):
Select **one** of the following monitoring system options. Enter the **code** on the form.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
FRM	Steam to fuel or water to fuel ratio monitoring *(for SOP applications in the Beaumont/Port Arthur Ozone Nonattainment Area only)*
75ARC	Continuous emission monitoring system as required by 40 CFR Part 75 *(for SOP applications only)*
75ARP	Predictive emission monitoring system as required by 40 CFR Part 75, Appendix E *(for SOP applications only)*
MERT	Maximum emission rate testing

Table 3c: Title 30 Texas Administrative Code Chapter 117
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary.)

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Fuel Flow Monitoring:
Select **one** of the following options to indicate how fuel flow is monitored. Enter the **code** on the form.

Code	Description
X40A	Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a)
X40A2-A	Unit operates with a NO_x and diluent CEMS and monitors stack exhaust flow per 30 TAC §§ 117.140(a)(2)(A), 117.340(a)(2)(A) or 117.440(a)(2)(A)
X40A2-B	Unit vents to a common stack with a NO_x and diluent CEMS and uses a single totalizing fuel flow meter per 30 TAC §§ 117.140(a)(2)(B), 117.340(a)(2)(B) or 117.440(a)(2)(B).
X40A2-D	The unit is equipped with a continuous monitoring system that continuously monitors horsepower and hours of operation per 30 TAC §§ 117.140(a)(2)(D), 117.340(a)(2)(D) or 117.440(a)(2)(D).

★ **Complete "CO Emission Limitation" only for SOP applications.**

CO Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable CO emission specifications of 30 TAC Chapter 117. Select **one** of the following options. Enter the **code** on the form.

For turbines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
105	Title 30 TAC § 117.105(c) [relating to Emission Specifications for Reasonably Available Control Technology] (use only in the Beaumont/Port Arthur Ozone Nonattainment Area)
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.125

For turbines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310C	Title 30 TAC § 117.310(c)(1) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325

For turbines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410C	Title 30 TAC § 117.410(c)(1) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area excluding Wise County)
405D	Title 30 TAC § 117.405(d)(1) [relating to Emission Specifications for Reasonably Available Control Technology (RACT)] (use in Wise County)
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.425

Note: If using some other alternative, such as an alternate reasonably available control technology, alternate means of control, or emission reduction credit, the type of alternate used will need to be explained in a cover letter or some other attachment to the permit application.

CO Monitoring System:
Select **one** of the following options to indicate how the unit is monitored for CO exhaust emissions. Enter the **code** on the form.

Code	Description
CEMS	Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1)
PEMS	Predictive emissions monitoring system complying with 30 TAC § 117.8100(b)
FRM	Steam to fuel or water to fuel ratio monitoring (for SOP applications in the Beaumont/Port Arthur Ozone Nonattainment Area only)
OTHER	Other than CEMS or PEMS or ratio monitoring

★ **Continue only for SOP applications and only if "NO_x Reduction (ICI)" is "POST1."**

NH_3 Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH_3 emission specifications of 30 TAC Chapter 117. Select **one** of the following options. Enter the **code** on the form.

For turbines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
105	Title 30 TAC § 117.105(g) [relating to Emissions Specifications for Reasonably Available Control Technology] (use only in the Beaumont/Port Arthur Ozone Nonattainment Area)
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC § 117.125

For turbines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310C	Title 30 TAC § 117.310(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325

For turbines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410C	Title 30 TAC § 117.410(c)(2) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area excluding Wise County)
405D	Title 30 TAC § 117.405(d)(2) [relating to Emission Specifications for Reasonably Available Control Technology (RACT)] (use in Wise County)]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125, 117.325 or 117.425

Note: If using some other alternative, such as an alternate reasonably available control technology, alternate means of control, or emission reduction credit, the type of alternate used will need to be explained in a cover letter or some other attachment to the permit application.

NH3 Monitoring:
Select **one** of the following options to indicate how the unit is monitored for NH3 emissions. Enter the **code** on the form.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter E, Division 1: Utility Electric Generation in East and Central Texas

Complete this table only for utility stationary gas turbines (including duct burners used in turbine exhaust ducts) generating electric energy for compensation used in an electric power generating system owned or operated by an electric cooperative, independent power producer, municipality, river authority, or public utility, or any of its successors.

Complete this table only for facilities located in Atascosa, Bastrop, Bexar, Brazos, Calhoun, Cherokee, Fannin, Fayette, Freestone, Goliad, Gregg, Grimes, Harrison, Henderson, Hood, Hunt, Lamar, Limestone, Marion, McLennan, Milam, Morris, Nueces, Parker, Palo Pinto, Red River, Robertson, Rusk, Titus, Travis, Victoria, or Wharton County.

Sites owned or operated by an electric cooperative, municipality, river authority, or public utility located in Parker County have applicability under both 30 TAC Chapter 117, Subchapter C, Division 4: Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area Utility Electric Generation Sources and under 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete both Tables 4a - 4b and Tables 2a - 2b to determine requirements.

Independent power producers in Parker County are subject only to the requirements of 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete only Tables 4a - 4b.

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary.)

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Date Placed in Service:
Select **one** of the following options for the date the unit was placed in service. Enter the **code** on the form.

Code	Description
95-	Before December 31, 1995
95+	On or after December 31, 1995

▼ **Continue only if "Date Placed in Service" is "95-."**

Unit:
Select **one** of the following options that describe the unit. Enter the **code** on the form.

Code	Description
SUP	Turbine used solely to power other engines or gas turbines during start-up
HPY	Turbine that operates no more than an average of 10% of the hours per year, averaged over three most recent years, and no more than 20% of the hours in a single year
INT	Turbine generates electric energy primarily for internal use
HEATIN	Turbine has an annual heat input of less than or equal to 2.2 (1011) Btu/yr
TURB264	Turbine that is subject to TUC § 39.264, except units designated under TUC § 39.264(i)
TURB264I	The unit is a turbine that is designated, in accordance with TUC § 39.264(i), to be subjected to TUC § 39.264
TURB	Turbine that is not subject to TUC § 39.264

▼ **Continue only if "Unit" is "TURB," "TURB264," or "TURB264I."**

NO_x Emission Limitation:
Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NO_x limitation standards listed in 30 TAC §§ 117.3010(1). Select **one** of the following options. Enter the **code** on the form.

Code	Description
3010	Title 30 TAC § 117.3010(1) [relating to Emission Specifications]
SC	Unit is complying with the System Cap under 30 TAC § 117.3020

NO_x Monitoring:
Select **one** of the following options that describe the NO_x monitoring used. Enter the **code** on the form.

Code	Description
CEMS	A continuous emissions monitoring system is used to monitor NO_x emissions.
PEMS	A parametric emissions monitoring system is used to monitor NO_x emissions.
OTHER	A monitoring system other than a CEMS or PEMS is used to monitor NO_x emissions

Maximum Emission Rate:
Enter "YES" if the owner or operator is using the maximum emission rate measured by the testing conducted in §117.3035(d) to provide substitute emissions compliance when the NO_x monitor is off-line. Otherwise, enter "NO."

MW Rating:
Enter "YES" if the unit has a MW rating greater than or equal to 1 MW operated more than an average of 10% of the hours of the year, averaged over the three most recent calendar years, or more than 20% of the hours in a single calendar year. Otherwise, enter "NO."

Table 4b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter E, Division 1: Utility Electric Generation in East and Central Texas

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary.)

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Monitoring Operations:
Enter "YES" if the owner or operator is monitoring operating parameters in accordance with 40 CFR Part 75, Appendix E. Otherwise, enter "NO."

★ **Complete "Steam or Water Injection" only if "Monitoring Parameters" is "NO."**

Steam or Water Injection:
Enter "YES" if the stationary gas turbine is rated less than 30 MW or a peaking gas turbine that uses steam or water injection to comply with the NO_x emission specifications of § 117.3010(1)(B). Otherwise, enter "NO."

Acid Rain:
Enter "YES" if the turbine is an acid rain peaking unit as defined in 40 CFR § 72.2. Otherwise, enter "NO."

Ammonia Use:
Enter "YES" if urea or ammonia injection is used to control NO_x emissions. Otherwise, enter "NO."

▼ **Continue only if "Ammonia Use" is "YES."**

NH3 Emission Limitation:
Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NH3 limitation standards listed in 30 TAC Chapter 117, Subchapter E. Select **one** of the following options. Enter the **code** on the form.

Code	Description
3010	Title 30 TAC § 117.3010(2) [relating to Emission Specifications]
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC § 117.3025

Ammonia Monitoring:
Select **one** of the following options that describe the ammonia monitoring used. Enter the **code** on the form.

Code	Description
CEMS	A continuous emissions monitoring system is used to monitor ammonia emissions.
PEMS	A parametric emissions monitoring system is used to monitor ammonia emissions.
OTHER	A monitoring system other than a CEMS or PEMS is used to monitor ammonia emissions.

Table 5: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart YYYY: National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines

★ **Complete this table only for stationary gas turbines located at major sources of hazardous air pollutants as defined in 40 CFR Part 63, Subpart YYYY that are in service. Turbines being tested at test cells are not subject to the requirements of Subpart YYYY.**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary.)

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Construction/Reconstruction Date:
Select **one** of the following options that describes the date for the construction or reconstruction of the turbine. Enter the **code** on the form.

Code	Description
03-	Turbine was constructed, modified, or reconstructed on or before 1/14/2003.
03+	Turbine was constructed, modified, or reconstructed after 1/14/2003.

▼ **Continue only if "Construction/Reconstruction Date" is "03+."**

Rated Peak Power Output:
Select **one** of the following options that describe the rated peak power output of the turbine. Enter the **code** on the form.

Code	Description
1-	Power output rating is less than one megawatt.
1+	Power output rating is one megawatt or greater.

▼ **Continue only if "Rated Peak Power Output" is "1+."**

Type of Service:
Select **one** of the following options that describe the type of service of the turbine. Enter the **code** on the form.

Code	Description
EMERG	Turbine is used exclusively in emergency service.
NORM	Turbine is used in non-emergency service.

▼ **Continue only if "Type of Service" is "NORM."**

Fuel Fired:
Select **one** of the following options that describe the fuel fired in the turbine. Enter the **code** on the form.

For purposes of Subpart YYYY, natural gas includes pipeline quality natural gas and similarly constituted fuels such as field gas, refinery gas, and syngas. It does not include landfill gas or gasified municipal solid waste.)

Use the following codes for turbines which are:

- *Equipped to fire only natural gas;*
- *Equipped to fire both natural gas and oil, when firing natural gas;*
- *Equipped to fire both natural gas and oil, and are located at a site where all new, reconstructed, and existing stationary turbines fire oil for no more than an aggregate total of 1000 hours during a calendar year; or*
- *Operating under GOPs511, 512, 513, 514, or 517*

Code	Description
NG	Turbine is fired with natural gas.
NGFINAL	Turbine is fired with natural gas and EPA has taken final action to require compliance with standards for gas-fired subcategories and published a document in the Federal Register in accordance with 40 CFR § 63.6095(d).

Use the following code for turbines which are:

- *Equipped to fire only oil*
- *Equipped to fire both natural gas and oil, and are located at a site where all new, reconstructed, and existing stationary turbines fire oil for more than an aggregate total of 1000 hours during a calendar year.*

OIL	Turbine is fired with distillate oil (SOP applications only)

Use the following codes for turbines firing any other type of fuel (including turbines operating under GOP 517):

LFG	Turbine is fired with landfill gas equivalent to 10% or more of the gross heat input on an annual basis.
DIGEST	Turbine is fired with digester gas equivalent to 10% or more of the gross heat input on an annual basis.
MSWGAS	Turbine is fired with gasified municipal solid waste equivalent to 10% or more of the gross heat input on an annual basis. (SOP applications only)

▼ **Continue only if "Fuel Fired" is "OIL" or "NGFINAL."**

Turbine Combustion Process:
Select **one** of the following options that describe combustion in the gas turbine. Enter the **code** on the form.

Code	Description
DIFFLM	Combustion process is diffusion flame combustion
LNPMX	Combustion process is lean-premix staged combustion

Note: Turbines capable of operating in either combustion process mode should submit on separate lines for each combustion process used at the site.

▼ **Continue only if application type is SOP.**

Oxidation Catalyst:
Enter "YES" if the turbine is controlled with an oxidation catalyst. Otherwise, enter "NO."

★ **Complete "Alternate Limitations" only if "Oxidation Catalyst" is "NO."**

Alternate Limitations:
Select **one** of the following options that describe the approved petition for alternate limitations for the turbine. Enter the **code** on the form.

Code	Description
ALT	Petition for alternate limitations
NOALT	Petition for no alternate limitations

★ **Complete "Previous Performance Test" only if "Oxidation Catalyst" is "YES."**

Previous Performance Test:
Enter "YES" if a previous performance test meeting the requirements of 40 CFR § 63.6110(b)(1)-(5) was conducted. Otherwise, enter "NO."

★ **Complete "Distillate Oil Fired" only if "Fuel Fired" is "NGFINAL."**

Distillate Oil Fired:
Enter "YES" if any quantity of distillate oil is used to fire any new or existing stationary combustion turbine which is located at the same major source as the gas-fired stationary turbine. Otherwise, enter "NO."

Table 6a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart KKKK: Stationary Combustion Turbines

★ **Complete this table only for stationary combustion turbines (and heat recovery units operating independent of a stationary combustion engine) that are not part of a test cell/stand.**

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Unit Type:
Select **one** of the following options that describe the affected unit type. Enter the **code** on the form.

Code	Description
SIMPLE	Simple Combustion Turbine
REGEN	Regenerative Cycle Combustion Turbine
COMB	Combined Cycle Combustion Turbine
CHPT	Combined Heat and Power Combustion Turbine
HEATR	Heat Recovery Steam Generating Unit

Construction/Modification Date:
Select **one** of the following options that describe the date of commencement of the most recent construction, modification, or reconstruction. Enter the **code** on the form.

Code	Description
2005-	Constructed, reconstructed, or modified on or before February 18, 2005
2005C	Constructed after February 18, 2005
2005R	Reconstructed after February 18, 2005
2005M	Modified after February 18, 2005

▼ **Do not continue if "Construction/Modification Date" is "2005-."**

Heat Input:
Select **one** of the following options that describes the heat input at peak load. Enter the **code** on the form.

Code	Description
10-	Less than 10 MMBtu per hour
10-50	Equal to or greater than 10 MMBtu per hour but less than 50 MMBtu per hour
50-850	Equal to or greater than 50 MMBtu per hour but less than 850 MMBtu per hour
850+	Equal to or greater than 850 MMBtu per hour

▼ **Do not continue if "Heat Input" is "10-."**

Subject To Da:
Enter "YES" if the combustion turbine is located at an integrated gasification combined cycle electric utility steam generating unit subject to Da of Part 60. Otherwise, enter "NO."

▼ **Continue only if "Subject to Da" is "NO."**

Service Type:
Select **one** of the following options for type of service. Enter the **code** on the form.

Code	Description
EMERG	Emergency combustion turbines, as defined in § 60.4420(i)
RSRCH	Stationary combustion turbines engaged by manufacturers in research and development of equipment for both combustion turbine emission control techniques and combustion turbine efficiency improvements
NOTER	Affected sources not described by the previous two codes

▼ **Continue only if "Service Type" is "NOTER."**

NO_x Standard:
Enter "YES" if the output-based NO_x emission standard in Table 1 is being used. Otherwise, enter "NO."

Fuel Type:
Select **one** of the following options that describe the fuel type used by the affected source. Enter the **code** on the form.

Code	Description
NGO	100% natural gas
NGG+	Only gaseous fuel, > 50% natural gas
GS	Only gaseous fuel, < 50% natural gas
NGFO+	Gaseous fuels and fuel oil, > 50% natural gas
GSFO+	Gaseous fuels and fuel oil, > 50% other gas besides natural gas
FNG	Gaseous fuels and fuel oil, > 50% fuel oil
FGS	Gaseous fuels besides natural gas and fuel oil, > 50% fuel oil
FO	100% fuel oil
BIOG	Only gaseous fuel, > 50% biogas (on a calendar basis)
BIOG+	Gaseous fuels and fuel oil, > 50% biogas (on a calendar basis)

Table 6b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart KKKK: Stationary Combustion Turbines

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

75% of Peak:
Enter "YES" if the combustion turbine operates at less than 75% of peak load or if the turbine operates at temperatures less than 0 °F. Otherwise, enter "NO."

★ **Complete "30 MW" only if "75% of Peak" is "YES."**

30 MW:
Enter "YES" if the combustion turbine has an output of less than 30 MW. Otherwise, enter "NO."

★ **Complete "Turbine Use" only if "NO_x Standard" is "YES" or "Heat input" is "10-50."**

Turbine Use:
Select **one** of the following options that best describes the turbine application. Enter the **code** on the form.

Code	Description
ELCT	Turbine is used for electric generation
MECH	Turbine is used for mechanical drive

NO_x Control:
Enter "YES" if NO_x emissions are being controlled by steam or water injection. Otherwise, enter "NO."

NO_x Monitoring:
Select **one** of the following options that best describes how continuous compliance with the applicable NO_x emission limitation is being demonstrated. Enter the **code** on the form.

Code	Description
CMS	Continuous Monitoring System for fuel consumption and ratio of water or steam to fuel fired
CEMS	A diluent NO_x CEMS is used
CPMS	Continuous Parameter Monitoring is used
CPMS+	Continuous Parameter Monitoring according to § 60.4340(b)(2)(iv)
ANNUAL	Compliance is demonstrated with annual performance tests

★ **Complete "Common Steam Header" only if "Unit Type" is "COMB" or "CHPT."**

Common Steam Header:
Select **one** of the following options that describe a common steam header possibly associated with the combustion turbine(s). Enter the **code** on the form.

Code	Description
CMN	A steam header with one or more combustion turbines is utilized
CMN+	A steam header with one or more combustion turbines is utilized for which the Administrator has approved methods for apportioning combined gross energy output
CMN-	A steam header is not utilized

★ **Complete "Duct Burner" only if "Unit Type" is "COMB" or "CHPT."**

Duct Burner:
Enter "YES" if the heat recovery system includes a duct burner. Otherwise, enter "NO."

Table 6c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart KKKK: Stationary Combustion Turbines

Unit ID No.:
Enter the identification number (ID No.) for the stationary gas turbine (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Location:
Enter "YES" if the turbine is located in a noncontinental area or in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit. Otherwise, enter "NO."

SO_2 Standard:
Enter "YES" if the output-based SO_2 emission standard in § 60.4330(a)(1) is being used. Otherwise, enter "NO."

★ **Complete "Fuel Monitoring" only if "SO_2 Standard" is "NO."**

Fuel Monitoring:
Enter "YES" if all fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365. Otherwise, enter "NO."

★ **Complete "Fuel Quality" only if "Fuel Monitoring" is "YES."**

Fuel Quality:
Select **one** of the following codes that describe how continuous compliance with the SO_2 emission standard is being shown. Enter the **code** on the form.

Code	Description
SAMP	Fuel is demonstrated not to exceed emission standard by representative fuel sampling data
PRCHS	Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet

Performance Test:
Select **one** of the following codes that describe how performance tests are being conducted. Enter the **code** on the form.

Code	Description
SAMP	Sulfur content of the fuel combusted in the turbine is being periodically determined
CONC	SO_2 concentration is being monitored
DILNT	SO_2 concentration and diluent gas concentration are being monitored
CTRCT	Maximum sulfur content of fuels combusted is specified with a purchase contract, tariff sheet, transportation contract, or historical 12-month sulfur and GCV sampling data

▼ **Continue only if "SO_2 Standard" is "YES," or if "SO_2 Standard" is "NO," and "Fuel Monitoring" is "NO."**

★ **Complete "Intermediate Storage" only if "Fuel Type" is not "FO."**

Intermediate Storage:
Enter "YES" if fuel is supplied with intermediate storage. Otherwise, enter "NO."

Fuel Schedules:
Select **one** of the following codes that describe the schedule on which the sulfur content is monitored. Enter the **code** on the form.

Code	Description
NONE	No custom fuel monitoring schedule is used
CUST1	Custom fuel monitoring schedule described in § 60.4370(c)(1)
CUST2	Custom fuel monitoring schedule based on data collected during the 720-hour sulfur sampling demonstration in Appendix D to Part 75
ADM	Custom fuel monitoring schedule approved by Administrator

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 1)
Federal Operating Permit Program
Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GG: Stationary Gas Turbines

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Peak Load Heat Input	Construction/ Modification Date	Turbine Cycle	Subpart GG Service Type	Federal Register	Manufacturer's Rated Base Load

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 2)
Federal Operating Permit Program
Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GG: Stationary Gas Turbines

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	NO_x Control Method	NO_x Monitoring Method	Alternative Monitoring ID No.	Regulated Under Part 75	Turbine Combustion Process	CEMS Performance Evaluation

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 3)
Federal Operating Permit Program
Table 1c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GG: Stationary Gas Turbines

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Duct Burner	NO_x Allowance	Sulfur Content	Fuel Type Fired	Fuel Supply	Fuel Monitoring Schedule	Custom Fuel Monitoring ID No.

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 4)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter C: Combustion Control at Major Utility Electric Generation in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Date Placed in Service	Functionally Identical Replacement	MW Rating	Service Type	Fuel Type	RACT NO_x Emission Limitation	ESAD NO_x Emission Limitation	Steam or Water Injection	EGF

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 5)
Federal Operating Permit Program
Table 2b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter C: Combustion Control at Major Utility Electric Generation in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	30 TAC Chapter 116 Permit Limit	NO_x Monitoring System	Annual Electric Output	CO Emission Limitation	CO Monitoring System	Ammonia Use	NH3 Emission Limitation	NH3 Monitoring System

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 6)
Federal Operating Permit Program
Table 3a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Area

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Megawatt Rating	RACT Date Placed in Service (ICI)	Functionally Identical Replacement (ICI)	Service Type (ICI)	NO_x Emission Limitation (ICI)	23C-Option

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 7)
Federal Operating Permit Program
Table 3b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	30 TAC Chapter 116 Limit (ICI)	EGF System Cap Unit	Averaging Method	NO_x Reduction (ICI)	NO_x Monitoring System (ICI)

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 8)
Federal Operating Permit Program
Table 3c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	NH3 Emission Limitation	NH3 Monitoring

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 9)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter E, Division 1: Utility Electric Generation in East and Central Texas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Date Placed in Service	Unit	NO_x Emission Limitation	NO_x Monitoring	Max Emission Rate	MW Rating

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 10)
Federal Operating Permit Program
Table 4b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter E, Division 1: Utility Electric Generation in East and Central Texas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Monitoring Operations	Steam or Water Injection	Acid Rain	Ammonia Use	NH3 Emission Limitation	Ammonia Monitoring

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 11)
Federal Operating Permit Program
Table 5: Title 40 Code of Federal Regulations, Part 63 (40 CFR, Part 63)
Subpart YYYY: National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Construction/ Reconstruction Date	Rated Peak Power Output	Type of Service	Fuel Fired	Turbine Combustion Process	Oxidation Catalyst	Alternate Limitations	Previous Performance Test	Distillate Oil Fired

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 12)
Federal Operating Permit Program
Table 6a: Title 40 Code of Federal Regulations (40 CFR Part 60)
Subpart KKKK: Stationary Combustion Turbines

Date:	**4/1/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP Index No.	Unit Type	Construction/ Modification Date	Heat Input	Subject to Da	Service Type	NO_x Standard	Fuel Type
(OSV) GT-1	60KKKK-OSVGT1	COMB	2005R	850+	NO	NOTER	NO	GS
(OSV) GT-2	60KKKK-OSVGT2	COMB	2005R	850+	NO	NOTER	NO	GS

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 13)
Federal Operating Permit Program
Table 6b: Title 40 Code of Federal Regulations (40 CFR Part 60)
Subpart KKKK: Stationary Combustion Turbines

Date:	**4/1/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP Index No.	75% of Peak	30 MW	Turbine Use	NO_x Control	NO_x Monitoring	Common Steam Header	Duct Burner
(OSV) GT-1	60KKKK-OSVGT1	NO	YES	ELCT	NO			
(OSV) GT-2	60KKKK-OSVGT2	NO	YES	ELCT	NO			

Texas Commission on Environmental Quality
Stationary Turbine Attributes
Form OP-UA11 (Page 14)
Federal Operating Permit Program
Table 6c: Title 40 Code of Federal Regulations (40 CFR Part 60)
Subpart KKKK: Stationary Combustion Turbines

Date:	**4/1/2022**
Permit No.:	**TBD**
Regulated Entity No.:	**TBD**

Unit ID No.	SOP Index No.	Location	SO_2 Standard	Fuel Monitoring	Fuel Quality	Performance Test	Intermediate Storage	Fuel Schedules
(OSV) GT-1	60KKKK-OSVGT1	YES	NO	YES	PRCHS	CTRCT		
(OSV) GT-2	60KKKK-OSVGT2	YES	NO	YES	PRCHS	CTRCT		

Appendix E
EPA Part 71 Forms (Includes Certification of Compliance)

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
GENERAL INFORMATION AND SUMMARY (GIS)

A. Mailing Address and Contact Information

Facility name: Texas GulfLink, LLC

Mailing address: Street or P.O. Box: 8333 Douglas Ave., Ste. 400

City: Dallas State: TX ZIP: 75225

Contact person: Mr. Jeff Ballard Title President and CEO

Telephone (214) 712 – 2140 Ext. _____

Facsimile (_____) _____ - _____

B. Facility Location

Temporary source? __ Yes X No Plant site location: The site will be approximately 32.5 nautical miles off the coast of Brazoria County, Texas.

City: N/A State: N/A County: N/A EPA Region: 6

Is the facility located within:

Indian lands? ___ YES X NO An offshore source in federal waters? X YES ___ NO

Non-attainment area? ___ YES X NO If yes, for what air pollutants? _____

Within 50 miles of affected State? X YES ___ NO If yes, What State(s)? Texas

C. Owner

Name: Texas GulfLink, LLC Street/P.O. Box: 8333 Douglas Ave., Ste. 400

City Dallas State: TX ZIP: 75225

Telephone Ext_____

D. Operator

Name: Texas GulfLink, LLC Street/P.O. Box: 8333 Douglas Ave., Ste. 400

City: Dallas State: TX ZIP: 75225

Telephone Ext_____

E. Application Type

Mark only one permit application type and answer the supplementary question appropriate for the type marked.

_X_Initial Permit ___ Renewal ___ Significant Mod ___ Minor Permit Mod(MPM)

___ Group Processing, MPM ___ Administrative Amendment

For initial permits, when did operations commence? Not yet in operation; startup expected in 2025

For permit renewal, what is the expiration date of current permit? _____/____/_____

F. Applicable Requirement Summary

Mark the types of applicable requirements that apply:

___ SIP ___ FIP/TIP ___ PSD ___ Non-attainment NSR

_X_ Minor source NSR _X_ Section 111 ___ Phase I acid rain ___ Phase II acid rain

___ Stratospheric ozone ___ OCS regulations _X_NESHAP ___Sec. 112(d) MACT

_X_Sec. 112(g) MACT ___ Early reduction of HAP ___Sec 112(j) MACT ___ RMP [Sec.112(r)]

___ Section 129 ___ NAAQS, increments or visibility but for temporary sources (This is rare)

Is the source subject to the Deepwater Port Act? _X_YES __NO

Has a risk management plan been registered? ___ YES _X_NO Agency: _____

Phase II acid rain application submitted? ___ YES _X_ NO If YES, Permitting Authority: _____

G. Source-Wide PTE Restrictions and Generic Applicable Requirements

Cite and describe any emissions-limiting requirements and/or facility-wide "generic" applicable requirements.

Please see Sections 4.0 (Regulatory Applicability) and 5.0 (State-BACT) of the revised Title V application (August 2022).

H. Process Description

List processes, products, and SIC codes for the facility.

Process	Products	SIC
Marine Loading	Crude Oil	4612

I. Emission Unit Identification

Assign an emissions unit ID and describe each emissions unit at the facility. Control equipment and/or alternative operating scenarios associated with emissions units should by listed on a separate line. Applicants may exclude from this list any insignificant emissions units or activities.

Emissions Unit ID	Description of Unit
(P) M-1	Marine loading into VLCCs (controlled)
(P) G-1	Diesel generator (non-emergency)
(P) G-2	Diesel generator (non-emergency)
(P) C-1	Diesel portal crane engine
(P) DT-1	Day tank storing diesel fuel (fixed roof)
(P) BT-1	Belly Tank #1
(P) BT-2	Belly Tank #2
(P) BT-3	Belly Tank #3
(P) BT-4	Belly Tank #4
(P) T-1	Crude oil surge tank (covered)
(P) FWP-1	Diesel *emergency* firewater pump engine (*MSS activity*)
(P) P-1	Pipeline pigging operations (*MSS activity*)
(P) F-1	Fugitive emissions from platform piping component leaks
(P) F-2	Fugitive emissions from SPM piping component leaks
(P) S-1	Crude oil sampling activities
(P) PM-1	Routine pump maintenance (*MSS activity*)
(P) MSS-1	Painting/abrasive blasting (*MSS activity*)
(OSV) GT-1	Gas turbine generator (non-emergency)
(OSV) GT-2	Gas turbine generator (non-emergency)

Emissions Unit ID	Description of Unit
(OSV) EDG-1	Diesel generator (non-emergency)
(OSV) EDG-3	Diesel generator (non-emergency)
(OSV) F-1	Fugitive emissions from vapor processing module equipment leaks
(OSV) F-2	Fugitive emissions from hose disconnects
(OSV) UM-1	Uncontrolled VLCC loading due to bad weather (very rare)
(OSV) MSS-2	Miscellaneous maintenance activities on the OSV

(P) stands for platform and (OSV) stands for Offshore Service Vessel

J. Facility Emissions Summary

Enter potential to emit (PTE) for the facility as a whole for each regulated air pollutant listed below. Enter the name of the single HAP emitted in the greatest amount and its PTE. For all pollutants, stipulations to major source status may be indicated by entering "major" in the space for PTE. Indicate the total actual emissions for fee purposes for the facility in the space provided. Applications for permit modifications need not include actual emissions information.

NOx 123.04 tons/yr (Major) VOC 248.64 tons/yr (Major) SO_2 0.51 tons/yr (Minor)

$PM_{10}/PM_{2.5}$ 6.37/6.31 tons/yr (Minor) CO 76.73 tons/yr (Minor) Lead 0 tons/yr (Minor)

Total HAP < 10/25 tons/yr (Minor)

Single HAP with greatest amount n-Hexane PTE 7.83 tons/yr

Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE 0 tons/yr

K. Existing Federally-Enforceable Permits

Permit number(s): N/A Permit type _____ Permitting authority _____

Permit number(s): N/A Permit type _____ Permitting authority _____

L. Emission Unit(s) Covered by General Permits

Emission unit(s) subject to general permit: N/A

Check one: _____ Application made: _____ Coverage granted:

General permit identifier: _____ Expiration Date: ____/____/____

M. Cross-referenced Information

Does this application cross-reference information? ___ YES X NO (If yes, see instructions)

INSTRUCTIONS FOLLOW

INSTRUCTIONS FOR GIS, GENERAL INFORMATION AND SUMMARY

Use this form to provide general and summary information about the part 71 source (facility or plant) and to indicate the permitting action requested. Submit this form once for each part 71 source. Several sections of this form ask for information you may not know until you complete other part 71 forms.

Section A - Enter the facility's official or legal name. The contact person should be a person familiar with the day-to-day operation of the facility, such as a plant site manager or similar individual.

Section B – If different from the mailing address, include the plant site location.

Sections C and D - If more than one owner or operator, list them on an attachment.

Section E - Mark initial permit issuance if you are applying for the first time. For all types of permit revisions, applicants must provide a brief narrative description of the changes.

Section F - Indicate the broad categories of applicable requirements that apply to the facility or any emissions units. Note that acid rain requirements must be included in part 71 permits the same as other requirements. Also, see definition of “applicable requirement” in part 71. Offshore sources in Federal waters may be either Outer Continental shelf (OCS) sources or Deepwater Port Act (DPA) sources, but not both. The DPA is not an applicable requirement, but the EPA needs to know if such requirements apply because the EPA coordinates with other Federal agencies on such projects.

Section G – List emission-limiting requirements that apply to the facility as a whole, such as restrictions on potential to emit or applicable requirements that apply identically to all emission units at a facility.

Section H - List, in descending order of priority, the 4-digit standard industrial classification (SIC) code(s) that best describes your facility in terms of its principal products or processes, and provide a brief narrative description for each classification. For a listing of SIC codes, see the Standard Industrial Classification Manual, 1987 edition, prepared by the Executive Office of the President, Office of Management and Budget, from the Government Printing Office, Washington DC.

Section I - Assign a unique identifier (unit ID) under the "emissions unit ID" column and provide a text description for each significant emissions unit at facility. These IDs will be used in other part 71 forms. A "significant emissions unit" is any unit that is not an insignificant emission unit or activities. Note that unit IDs need only be assigned if they will be referenced in subsequent portions of the application. You may choose any numbering system you wish to assign unit IDs. If a unit ID was previously assigned, use the original ID. If the unit is a new unit, assign a unit ID consistent with the existing units’ IDs.

You may group emissions units, activities, or pieces of equipment together and assign a single unique unit ID when they are subject to the same applicable requirement(s) and will have the same monitoring, record keeping, and reporting requirements in the permit.

In addition, assign a unit ID for each alternative operating scenario and each piece of pollution control equipment. When possible, assign these numbers to show with which emissions units or processes these scenarios or control devices are associated.

Section J – Enter the facility-wide PTE for each listed air pollutant for applicability purposes and enter the facility-wide actual emissions of all pollutants that count for fee purposes. Applications for permit revisions should report PTE after the change for the emissions units affected by the change.

Completion of form **PTE** is recommended prior to the entry of PTE information in this section.

"NOx" is for nitrogen oxides,
"VOC" is for volatile organic compounds,
"SO2" is for sulfur dioxide,
"PM10" is for particulate matter with an aerodynamic diameter of 10 micrometers or less,
"CO" is for carbon monoxide, and
“Lead” is for elemental lead regulated by a NAAQS (“compounds of lead” are HAP).

Note that the emissions of greenhouse gasses (GHGs) are not counted for major source applicability purposes or for part 71 fee purposes, so no need to enter them anywhere on this form.

Note that a source may be major for a single HAP or any combination of HAP.

Include fugitive emissions when reporting PTE to the extent that they count toward major source applicability. All fugitive emissions of HAP count toward major source applicability.

Sources may also stipulate to major source status for the pollutants indicated on the form by entering "Major" in the space provided for PTE values.

You may use the value for actual emissions from section F, line 5, of form **FEE**. When totaling actual emissions for fee purposes, include all emissions, including fugitive emissions, regardless of whether they count for applicability purposes.

Section L - If any emissions unit within your facility is applying, has applied, or currently has a general permit, identify the emissions unit ID and name of the unit, consistent with section I of this form.

Section M - Attach copies of any cross-referenced documents that are not publicly available or otherwise available to the permitting authority.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (OSV) EDG-1 Description Generator (non-emergency)

SIC Code (4-digit) 3519 SCC Code N/A

B. Emissions Unit Description

Primary use Supply electricity to the OSV. Temporary Source __Yes X No

Manufacturer __Caterpillar_____ Model No. __3516C (2,000 kW)___

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	.0015	.01	139,000 BTU / gallon

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		26.69 gal.	233,810 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (OSV) EDG-3 Description Generator (non-emergency)

SIC Code (4-digit) 3519 SCC Code N/A

B. Emissions Unit Description

Primary use Supply electricity to the OSV. Temporary Source __Yes X No

Manufacturer __Caterpillar_____ Model No. __3512C (1,700 kW)___

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	.0015	.01	139,000 BTU / gallon

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		26.69 gal.	233,810 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (OSV) GT-1 Description Generator (non-emergency)

SIC Code (4-digit) 3511 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected

Primary use Supply electricity to the OSV. Temporary Source __Yes X No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) _____ Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (per cf, gal, or lb)
Waste gas - L-VOC (60%) and S-VOC (40%)	0.0015	0.01	9.4 MJ/kg (average)

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Waste gas - L-VOC (60%) and S-VOC (40%)		0.23 kg/sec	3.88×10^6 kg/year

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (OSV) GT-2 Description Generator (non-emergency)

SIC Code (4-digit) 3511 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected

Primary use Supply electricity to the OSV. Temporary Source __Yes X No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) _____ Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (per cf, gal, or lb)
Waste gas - L-VOC (60%) and S-VOC (40%)	0.0015	0.01	9.4 MJ/kg (average)

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Waste gas - L-VOC (60%) and S-VOC (40%)		0.23 kg/sec	3.88×10^6 kg/year

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) C-1 Description Portal Crane

SIC Code (4-digit) 3533 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected

Primary use Loading Temporary Source ___Yes X No

Manufacturer ___TBD_____ Model No. _____

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	0.0015	0.01	139,000 BTU / gal.

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		22.1 gal.	193,476.3 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (ºF) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) FWP-1 Description Emergency Firewater Pump

SIC Code (4-digit) 3561 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Primary use Water supply in emergency cases Temporary Source ___Yes X No

Manufacturer ____TBD_____ Model No. _____

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A_____ Industrial boiler ___ Process burner ___ Electric utility boiler
Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	0.0015	0.01	139,000 BTU / gal.

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		17.63 gal.	1.763 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____._____

Actual stack flow rate (ACFM) _____._____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) G-1 Description Generator (non-emergency)

SIC Code (4-digit) 3519 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Primary use Supply electricity to the platform. Temporary Source __Yes X No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	.0015	.01	139,000 BTU / gallon

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		26.69 gal.	233,810 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) G-2 Description Generator (non-emergency)

SIC Code (4-digit) 3519 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Primary use Supply electricity to the platform. Temporary Source __Yes X No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date____/____/_____

Boiler Type: N/A ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only): N/A

___ Hand fired ___Spreader stoker ___Underfeed stoker ___Overfeed stoker

___ Traveling grate ___Shaking grate ___Pulverized, wet bed ___ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	.0015	.01	139,000 BTU / gallon

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		26.69 gal.	233,810 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

INSTRUCTIONS FOR EUD-1
EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (OSV) F-1 Description Fugitive emissions from vapor processing module
SIC Code (4-digit) 4226 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer __Wartsila_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____._____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (OSV) F-2 Description Fugitive emissions from hose disconnects
SIC Code (4-digit) 4226 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer __Wartsila_____ Model No. _____

Serial No. _____ Installation date____/_____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (OSV) MSS-2 Description MSS emissions from misc. OSV maintenance
SIC Code (4-digit) 8999 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (OSV) UM-1 Description Uncontrolled VOC emissions from VLCC due to bad weather (very rare event)
SIC Code (4-digit) 8999 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) BT-1 Description "Belly" fuel tank connected to Generator #1(diesel)
SIC Code (4-digit) 3519 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Diesel fuel					99,667	

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) BT-2 Description "Belly" fuel tank connected to Generator #2 (diesel)
SIC Code (4-digit) 3519 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Diesel fuel					99,667	

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) BT-3 Description "Belly" fuel tank connected to portable crane (diesel)
SIC Code (4-digit) 3533 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Diesel fuel					99,667	

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) BT-4 Description "Belly" fuel tank connected to emerg. FWP (diesel)
SIC Code (4-digit) 3561 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Diesel fuel					1,000	

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) DT-1 Description Diesel Storage Day Tank #1
SIC Code (4-digit) 4226 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type Vertical fixed roof diesel fuel tank. Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Diesel					300,000	

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) F-1 Description Platform Fugitive Emissions

SIC Code (4-digit) 1389 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) F-2 Description SPM System Fugitives

SIC Code (4-digit) 1389 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) M-1 Description Marine Loading of VLCCs

SIC Code (4-digit) 4612 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type __Manned platform and 2 SPM buoys_ Temporary source: ___Yes _X_ No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID OSV Device Type __Submerged fill loading into VLCC and vapors collected and routed to vapor processing module onboard adjacent OSV

Manufacturer __Wartsila_____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _~ 98.0_ Capture efficiency (%) _100.0_

Air pollutant(s) controlled VOC___ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____._____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed, or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) MSS-1 Description MSS emissions from spot abrasive blasting and painting on the platform
SIC Code (4-digit) 8999 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) P-1 Description Pigging Operations (*MSS activity*)
SIC Code (4-digit) 1389 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) PM-1 Description Pump Maintenance (*MSS activity*)
SIC Code (4-digit) 3561 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet classified.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) S-1 Description Sampling Activities

SIC Code (4-digit) 1389 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____._____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) T-1 Description Crude oil surge tank (covered)
SIC Code (4-digit) 4226 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type Surge Tank _____ Temporary source: ___Yes X No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/___/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec)
_____._____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (OSV) GT-1, GT-2 – Gas Turbine Generators (2 Units)

B. Identification and Quantification of Emissions – Emission rates shown are for both units.

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.83	1.95	
SO_2	N/A	0.38	0.37	
CO	N/A	5.29	12.42	
NOx	N/A	6.96	16.32	
PM_{10}	N/A	0.60	2.63	
$PM_{2.5}$	N/A	0.60	2.63	
HAPs	N/A	0.14	0.11	
CO_2e	N/A	---	7,719	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (OSV) F-2 – Fugitives from OSV hose disconnects

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.39	0.03	
HAPs	N/A	0.01	0.001	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (OSV) MSS-2 – Misc. OSV maintenance activities

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	9.37	0.81	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (OSV) UM-1 – Uncontrolled VLCC loading due to bad weather (very rare)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	3,601.55	31.03	
HAPs	N/A	259.34	2.23	

NSTRUCTIONS FOR EMISS

EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for "not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (OSV) F-1 – Fugitives from OSV vapor processing module

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.02	0.11	
HAPs	N/A	0.001	0.006	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (OSV) EDG-1, EDG-3 – Diesel Generators on OSV (2 Units)

B. Identification and Quantification of Emissions – Emission rates shown are for both units.

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.32	1.39	
SO_2	N/A	0.01	0.06	
CO	N/A	6.65	29.11	
NOx	N/A	11.84	51.84	
PM_{10}	N/A	0.38	1.66	
$PM_{2.5}$	N/A	0.38	1.66	
HAPs	N/A	0.01	0.05	
CO_2e	N/A	---	6,660	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) BT-1, BT-2, BT-3, BT-4 "Belly" fuel tanks connected to diesel engines

B. Identification and Quantification of Emissions Emission rates shown are for all 4 tanks

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC (sum total)	N/A	0.0005	0.002	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) MSS-1 – Misc. spot abrasive blasting/painting on platform (*MSS activity*)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.06	0.26	
$PM_{2.5}$	N/A	0.002	0.01	
PM_{10}	N/A	0.01	0.06	
HAPs	N/A	0.0	0.0	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) FWP-1 – Emergency firewater pump on platform

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.18	0.01	
CO	N/A	2.01	0.10	
NOx	N/A	2.12	0.11	
SO_2	N/A	0.0	0.0	
$PM_{2.5}$	N/A	0.12	0.01	
PM_{10}	N/A	0.12	0.01	
HAPs	N/A	0.0	0.0	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) G-1, (P) G-2 – Diesel Electric Generator (2 Units)

B. Identification and Quantification of Emissions – Emission rates shown are for both units.

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.27	1.16	
SO_2	N/A	0.01	0.05	
CO	N/A	5.57	24.40	
NOx	N/A	9.92	43.45	
PM_{10}	N/A	0.32	1.39	
$PM_{2.5}$	N/A	0.32	1.39	
HAPs	N/A	0.02	0.08	
CO_2e	N/A	---	4,856	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) M-1 – Marine Loading of VLCCs (controlled)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	101.26	208.10	
H_2S	N/A	0.003	0.001	
Benzene	N/A	0.45	0.92	
Isopropyl benzene	N/A	0.003	0.01	
Ethylbenzene	N/A	0.25	0.52	
Hexane(-n)	N/A	3.29	6.76	
2,2,4-Trimethylpentane (isooctane)	N/A	1.77	3.64	
Toluene	N/A	0.84	1.73	
Xylene (-m)	N/A	0.68	1.40	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) P-1 – Pigging Operations (*MSS activity*)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	83.76	0.50	
HAPs	N/A	2.59	0.01	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) F-1 – Platform Fugitive Emissions

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.03	0.12	
HAPs	N/A	0.0009	0.006	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) C-1 – Portal crane on platform

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.21	0.92	
SO_2	N/A	0.01	0.02	
CO	N/A	2.45	10.71	
NOx	N/A	2.59	11.32	
PM_{10}	N/A	0.14	0.61	
$PM_{2.5}$	N/A	0.14	0.61	
HAPs	N/A	0.004	0.02	
CO_2e	N/A	---	2,132	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) PM-1 – Pump Maintenance (*MSS activity*)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	4.0	0.002	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) S-1 – Sampling Activities

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.10	0.05	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) F-2 – SPM Fugitive Emissions

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.10	0.44	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) T-1 – Surge Tank (covered)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.4	1.74	
HAPs	N/A	0.01	0.06	

NSTRUCTIONS FOR EMISS

EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for "not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

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Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID (P) DT-1 – Day Tank on platform storing diesel fuel (fixed roof)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.001	0.01	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each “regulated air pollutant” that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any “regulated pollutant (for fee calculation)” emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation) that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each “regulated air pollutant” you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

“Potential to emit” is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
POTENTIAL TO EMIT (PTE)

For each emissions unit at the facility, list the unit ID and the PTE of each air pollutant listed below and sum the values to determine the total PTE for the facility. It may be helpful to complete form **EMISS** before completing this form. Report each pollutant at each unit to the nearest tenth (0.1) of a ton; values may be reported with greater precision (i.e., more decimal places) if desired. Report facility total PTE for each listed pollutant on this form and in section **J** of form **GIS**. The HAP column is for the PTE of all HAPs for each unit. You may use an attachment to show any pollutants that may be present in major amounts that are not already listed on the form (this is not common).

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which Source is Major (PTE in tons/yr)						
	NOx	VOC	SO_2	PM_{10}	CO	Lead	HAP
(P) M-1	-	208.10	-	-	-	-	14.98
(P) G-1	21.72	0.58	0.03	0.70	12.20	-	0.04
(P) G-2	21.72	0.58	0.03	0.70	12.20	-	0.04
(P) C-1	11.32	0.92	0.02	0.61	10.71	-	0.02
(P) DT-1	-	0.01	-	-	-	-	-
(P) BT-1	-	0.001	-	-	-	-	-
(P) BT-2	-	0.001	-	-	-	-	-
(P) BT-3	-	0.001	-	-	-	-	-
(P) BT-4	-	0.0001	-	-	-	-	-
(P) T-1	-	1.74	-	-	-	-	0.05
(P) FWP-1	0.11	0.01	-	0.01	0.10	-	-
(P) P-1	-	0.5	-	-	-	-	0.02
(P) F-1	-	0.12	-	-	-	-	< 0.01
(P) F-2	-	0.44	-	-	-	-	-
(P) S-1	-	0.05	-	-	-	-	-
(P) PM-1	-	0.002	-	-	-	-	-
(P) MSS-1	-	0.26	-	0.06	-	-	-
(OSV) GT-1	8.16	0.98	0.19	1.31	6.21	-	0.06

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which Source is Major (PTE in tons/yr)						
	NOx	VOC	SO_2	PM_{10}	CO	Lead	HAP
(OSV) GT-2	8.16	0.98	0.19	1.31	6.21	-	0.06
(OSV) EDG-1	45.44	1.21	0.05	1.46	25.51	-	0.04
(OSV) EDG-3	6.4	0.17	0.09	0.21	3.59	-	< 0.01
(OSV) F-1	-	0.11	-	-	-	-	< 0.01
(OSV) F-2	-	0.03	-	-	-	-	< 0.01
(OSV) UM-1	-	31.03	-	-	-	-	2.23
(OSV) MSS-2	-	0.81	-	-	-	-	-
FACILITY TOTALS:	**123.04**	**248.64**	**0.51**	**6.37**	**76.73**	**0.00**	**17.54**

INSTRUCTIONS FOR POTENTIAL TO EMIT (PTE)

The purpose of this form is to calculate the total PTE for each regulated air pollutant (and pollutants for which the source is major) that are used in major source determinations. Do not include PTE for GHGs on this form (or an attachment), unless instructed by the permitting authority to do so.

On each line (row) in the table provided, enter the emissions unit ID and the quantity of each air pollutant identified on the form. If form **EMISS** was prepared previously, simply copy the annual PTE (or stipulations to major source status) contained on those forms to this form. Values should be reported to the nearest tenth (0.1) of a ton for each pollutant for each unit. The total PTE for the facility should be reported to the nearest ton.

Applicants may stipulate to major source status for an air pollutant and, thereby, avoid detailed PTE calculations. If a unit emits in major amounts, enter "MU" in the column for that air pollutant. If the facility is a major source for a pollutant but the emissions unit in question does not trigger major source status, enter "MS" in the space provided. If a listed pollutant is emitted at a unit but PTE cannot be calculated based on readily available information, enter "UN" (for "unknown") in the space provided. If the source is a major source for air pollutants not represented by columns on this form, please provide an attachment stipulating major source status or the calculation of the total for that air pollutant. The column for lead is for elemental lead regulated by a NAAQS, while compounds of lead are HAP.

The total line is provided at the bottom of each column to enter the total facility-wide PTE for each pollutant. Enter the total PTE for each pollutant and the name of the HAP emitted in the greatest amount, in section J of form **GIS**.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
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Federal Operating Permit Program (40 CFR Part 71)
FEE CALCULATION WORKSHEET (FEE)

Use this form initially, or thereafter on an annual basis, to calculate part 71 fees.

A. General Information

Type of fee (Check one): X Initial ___Annual

Deadline for submitting fee calculation worksheet ____/____/_____

For initial fees, emissions are based on (Check one):

X Actual emissions for the preceding calendar year. (Required in most circumstances.)

___ Estimates of actual emissions for the current calendar year. (Required when operations commenced during the preceding calendar year.)

Date commenced operations ____/____/_____

___ Estimates of actual emissions for the preceding calendar year. (Optional after a part 71 permit was issued to replace a part 70 permit, but only if initial fee payment is due between January 1 and March 31; otherwise use actual emissions for the preceding calendar year.)

For annual fee payment, you are required to use actual emissions for the preceding calendar year.

B. Source Information: Complete this section only if you are paying fees but not applying for a permit.

Source or facility name Texas GulfLink, LLC

Mailing address: Street or P.O. Box 8333 Douglas Ave., Ste. 400

City Dallas State TX ZIP 75225 - _____

Contact person Mr. Jeff Ballard Title President and CEO

Telephone (214) 712 - 2140 Ext_____ Part 71 permit no. TBD

C. Certification of Truth, Accuracy and Completeness: Only needed if not submitting a separate form CTAC.

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in this submittal (form and attachments) are true, accurate and complete.

Name (signed) _____

Name (typed) Jeff Ballard Date:____ /____ /_____

D. Annual Emissions Report for Fee Calculation Purposes -- Non-HAP

You may use this to report actual emissions (tons per year) of regulated pollutants (for fee calculation) on a calendar-year basis for both initial and annual fee calculation purposes. Section E is designed to report HAP emissions. Quantify all actual emissions, including fugitives, but do not include insignificant emissions and certain regulated air pollutants that are not counted for fee purposes, such as CO and GHGs (see instructions). Sum the emissions in each column to calculate subtotals. Subtotals should be reported to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000 for that column. This data is for: **SEE NOTE 1 BELOW**

Emission Unit ID	NOx	VOC	SO_2	PM_{10}	Lead	Other
(P) M-1						
(P) G-1						
(P) G-2						
(P) C-1						
(P) DT-1						
(P) BT-1						
(P) BT-2						
(P) BT-3						
(P) BT-4						
(P) T-1						
(P) FWP-1						
(P) P-1						
(P) F-1						
(P) F-2						
(P) S-1						
(P) PM-1						
(P) MSS-1						
(OSV) GT-1						
(OSV) GT-2						
(OSV) EDG-1						
(OSV) EDG-3						
(OSV) F-1						
(OSV) F-2						
(OSV) UM-1						
(OSV) MSS-2						
SUBTOTALS:	0.00	0.00	0.00	0.00	0.00	0.00

NOTE 1: Project has not yet begun operations. There are no actual emissions to report.

E. Annual Emissions Report for Fee Calculation Purposes -- HAP

HAP Identification. Identify individual HAP emitted at the facility, identify the CAS number, and assign a unique identifier for use in the second table in this section. Whenever assigning identifier codes, use "HAP1" for the first, "HAP2" for the second, and so on.

Name of HAP	CAS No	Identifier
1,3-Butadiene	106-99-0	H1
Acetaldehyde	75-07-0	H2
Acrolein	107-02-8	H3
Benzene	71-43-2	H4
Isopropyl benzene	98-82-8	H5
Ethylbenzene	100-41-4	H6
Formaldehyde	50-00-0	H7
Hexane (-n)	110-54-3	H8
Naphthalene	91-20-3	H9
PAHs	(multiple)	H10
Propylene Oxide	75-56-9	H11
2,2,4-Trimethylpentane (Isooctane)	540-84-1	H12
Toluene	108-88-3	H13
Xylene (-m)	1330-20-7	H14

HAP Emissions. Report the actual emissions of individual HAP identified above. Use the identifiers assigned in the table above. Include all emissions, including fugitives, and do not include insignificant emissions. Sum the emissions in each column to calculate subtotals. Report subtotals to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000. This data is for: **SEE NOTE 1 BELOW**

Emissions Unit ID	Actual Emissions (Tons/Year)							
	HAP___	HAP___	HAP___	HAP___	HAP___	HAP___	HAP___	HAP___
(P) M-1								
(P) G-1								
(P) G-2								
(P) C-1								
(P) DT-1								
(P) BT-1								
(P) BT-2								
(P) BT-3								
(P) BT-4								
(P) T-1								
(P) FWP-1								
(P) P-1								
(P) F-1								
(P) F-2								
(P) S-1								
(P) PM-1								
(P) MSS-1								
(OSV) GT-1								
(OSV) GT-2								
(OSV)								
(OSV)								
(OSV)								
(OSV)								
(OSV)								
(OSV)								
SUBTOTALS:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

NOTE 1: Project has not yet begun operations. There are no actual HAP emissions to report.

F. Fee Calculation Worksheet

This worksheet is used to calculate the total fee owed (including the emissions-based fee and the GHG fee adjustment) for both initial and annual fee payment purposes. Reconciliation is only for cases where you are paying the annual fee and you used any type of estimate of actual emissions when you calculated the initial fee. If you do not need to reconcile fees, complete line 1-5 (emissions summary) and then skip down to line 21 (emission calculation). See instructions for more detailed explanation.

EMISSIONS SUMMARY

1. Sum the subtotals from section D of this form (non-HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	**0**
2. Sum the subtotals from section E of this form (HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	**0**
3. Sum lines 1 and 2.	**0**
4. Enter the emissions that were counted twice. If none, enter "0."	**0**
5. Subtract line 4 from line 3, round to the nearest ton, and enter the result here. This is the **total emissions** that count for fees purposes.	**0**

RECONCILIATION
(WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "CURRENT" CALENDAR YEAR)

Only complete lines 6-10 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year in which you paid initial fees; otherwise skip to line 11 or to line 21.

6. Enter the total estimated actual emissions for the year the initial fee was paid (previously reported on line 5 of the initial fee form).	**N/A**
7. If line 5 is greater than line 6, subtract line 6 from line 5, and enter the result. Otherwise enter "0."	**0**
8. If line 6 is greater than line 5, subtract line 5 from line 6, and enter the result. Otherwise enter "0."	**0**
9. If line 7 is greater than 0, multiply line 7 by last year's fee rate ($/ton) and enter the result here. This is the underpayment. Go to line 21.	**0**
10. If line 8 is greater than 0, multiply line 8 by last year's fee rate ($/ton) and enter the result here. This is the overpayment. Go to line 21.	**0**

RECONCILIATION
(WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "PRECEDING" CALENDAR YEAR)

Only complete lines 11-20 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year preceding initial fee payment; otherwise skip to line 21. If completing this section, you will also need to complete sections D and E to report actual emissions for the calendar year preceding initial fee payment.

11. Sum the actual emissions from section D (non-HAP) for the calendar year preceding initial fee payment and enter the result here.	**N/A**
12. Sum the actual emissions from section E (HAP) for the calendar year preceding initial fee payment and enter the result here.	**N/A**
13. Add lines 11 and 12 and enter the total here. These are total actual emissions for the calendar year preceding initial fee payment.	**N/A**
14. Enter double counted emission from line 13 here. If none, enter "0."	**0**
15. Subtract line 14 from line 13, round to the nearest ton, and enter the result here.	**N/A**
16. Enter the total estimated actual emissions previously reported on line 5 of the initial fee form. These are estimated actual emissions for the calendar year preceding initial fee payment.	**N/A**
17. If line 15 is greater than line 16, subtract line 16 from line 15, and enter the result here. Otherwise enter "0."	**0**
18. If line 16 is greater than line 15, subtract line 15 from line 16, and enter the result here. Otherwise enter "0."	**0**
19. If line 17 is greater than 0, multiply line 17 by last year's fee rate ($/ton) and enter the result here. This is the underpayment.	**N/A**
20. If line 18 is greater than 0, multiply line 18 by last year's fee rate ($/ton) and enter the result on this line. This is the overpayment.	**N/A**
EMISSION FEE CALCULATION	
21. Multiply line 5 (tons) by the current fee rate ($/ton) and enter the result here. This is the unadjusted emissions fee. Continue on to line 23.	**0**
GHG FEE ADJUSTMENT	
22. If you are submitting an initial permit application and this is the first time you are paying fees, enter $2,236, otherwise enter "0". [Note that any updates to the initial application are covered under this one-time charge.]	**0**
23. Enter the number of permit modifications (or related permit actions) you have submitted to the permitting authority since you last paid fees. If none, skip to line 25.	**0**
24. Multiply the number in line 23 by $365 and enter the result.	**0**
25. If you have submitted a permit renewal application since the last time you paid fees enter $520, otherwise enter "0"	**0**
26. Sum line 22, 24, and 25 and enter the result. This is the GHG fee adjustment	**0**

OTHER ADJUSTMENTS	
27. Add the total on line 21 and the total on line 26 and enter the result.	**0**
28. Enter any underpayment from line 9 or 19 here. Otherwise enter "0."	**0**
29. Enter any overpayment from line 10 or 20 here. Otherwise enter "0."	**0**
30. If line 28 is greater than "0," add it to line 27 and enter the result here. If line 29 is greater than "0," subtract this from line 27 and enter the result here. Otherwise enter the amount on line 27 here. This is the fee adjusted for over/underpayment**.**	**0**
31. Enter any credit for fee assessment error here. Otherwise, enter "0."	**0**
32. Subtract line 31 from line 30 and enter the result here. Stop here. This is the **TOTAL FEE (AFTER ADJUSTMENTS)** that you must remit to EPA.	**0**

INSTRUCTIONS FOR FEE
FEE CALCULATION WORKSHEET

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

Use this form to initially or annually calculate fees. This form is for paying fees to EPA or a delegate agency (such as a State or tribe) under a part 71 operating permit program. The requirements for paying fees under part 71 programs, as well as the forms and instructions contained herein, are based on the requirements of 40 CFR 71.9

There may be cases, under a part 71 program, when you are not required to complete this form or pay the EPA fee rate (where the part 71 program has been delegated and EPA's fee has been suspended because EPA incurs no administrative costs). In such cases, the delegate agency will instruct you on how to calculate fees and how to pay them. If in doubt, contact your permitting authority.

General Rules for Fee Calculation under Part 71:

- Use the fee rate in effect at the time you pay the fee regardless of the time period that the emissions data represents. For example, if the annual fee for the current year is due July 1, you would use the fee rate in effect for the current year and the actual emissions for the previous calendar year.
- Do not prorate initial or annual fees. Pay full fees for the entire calendar year regardless of how many days you operated or were subject to the program during the previous or current year.
- Do not hesitate to contact the permitting authority if you have any doubt about how to calculate fees, especially if you have an unusual set of circumstances not addressed specifically by these forms or whenever the permit requirements appear to conflict with these forms (however, always assume the permit requirements take precedence in such cases).

Section A. General Information

The deadline for submitting the fee form and paying the fee for initial fee payment purposes for most sources is the same deadline as for submitting all other forms required for the initial permit application. Other deadlines apply for initial fee payment in certain limited circumstances:

- When a source is subject to part 71 because of an unresolved EPA objection to a part 70 permit, fees are not due with the part 71 application, but are due 3 months following the date of the issuance of the part 71 permit.
- When EPA withdraws approval of a part 70 program and implements a part 71 programs, fees are submitted according to a schedule based on the source's SIC code (within 6 to 9 months of the effective date of the part 71 program).

The deadline for submitting the fee form and paying the fee for annual fee payment purposes is the anniversary date of initial fee payment. This is required whether or not a permit has been issued. If you were required to pay initial fees between January 1 and March 31, the regulations allow for submittal of annual fees no later than April 1.

Whether you are paying initial or annual fees see the instructions for sections D and E for more information on which calendar-year emission data to use (preceding or current year) and how to quantify such emissions (actual emissions or estimates of actual emissions).

Section B. Source Information

Complete this section only if you are preparing this form for submittal at a different time than for the other portions of an initial application or for annual fee purposes.

Section C. Certification of Truth, Accuracy and Completeness

This form and any other document required by a permit must be signed by a responsible official certifying truth, accuracy and completeness of the information. If you are submitting a separate **CTAC** form, there is no need to complete this section of the form. If you complete this section, there is no need to submit form **CTAC** separately.

Section D. Annual Emissions Report for Fee Calculation Purposes – Non-HAP

Calculate actual emissions of regulated pollutants (for fee calculation), except for HAP, on a calendar-year basis for the facility in this section. Section E is provided to report actual emissions of HAP. Note the phrase “regulated pollutant (for fee calculation)” is any “regulated air pollutant” except carbon monoxide (CO), and pollutants regulated solely because they are: 1) subject to regulation under section 112(r) of the Act, or 2) a class I or II substance under title VI of the Act. **Note that GHG emissions are not counted for fee purposes.**

If more than one year of data is being submitted with the fee calculation worksheet, copy this page and complete a separate table for each year. If you are submitting an initial application, you may use emissions data already reported on form **EMISS**, provided this is the same data you would otherwise report in sections D and E of this form. If using **EMISS** in this manner, please note this on the fee calculation form. Also, sources must submit attachments to this form to show (at a minimum) examples of the calculations used to determine these values.

Show actual emissions for each listed air pollutant for each emission unit. Values should be reported to the nearest tenth (0.1) of a ton.

The column for "other" is for other regulated pollutants (for fee calculation) not already listed on the form. Write in the name of the pollutant in the proximity of the "other" column. If more than one such pollutant, show the pollutants, and the totals on an attachment.

Actual emissions must be calculated using actual operating hours, production rates, in-place control equipment, and types of materials processed, stored, or combusted over the preceding calendar year. Sources that have been issued title V permits are required to compute actual emissions using compliance methods required by the permits, such as monitoring or source testing data. If this is not possible, actual emissions should be determined using other federally recognized procedures.

For initial fee calculation purposes, most sources are required to use actual emissions for the preceding calendar year. However, there are certain exceptions where estimates of actual emissions are either required or allowed in place of actual emissions for the preceding calendar year (see table below):

Exception	Emission Data
When the source commenced operation during the preceding calendar year.	Estimates of actual emissions for the "current" calendar year are required
When EPA withdraws approval of a part 70 program and implements a part 71 program, and the source pays initial part 71 fees between January 1 and March	Either estimates of actual emissions for the "preceding" calendar year or actual emissions for the preceding calendar year may be used.
When a part 71 permit was issued following an unresolved objection to a part 70 permit, and the source is required to pay initial part 71 fees between January 1 and March 31.	Either estimates of actual emissions for the "preceding" calendar year or actual emissions for the preceding calendar year may be used.

For annual fee purposes, fee calculation should be based on actual emissions for the preceding calendar year in all cases.

In most cases you will only need to report one set of emission data using sections D and E of this form (the data that is the basis of the initial or annual fee being paid as explained above). This data is subsequently carried over to lines 1 and 2 of section F (Fee Calculation Worksheet) of the form.

However, there is one exception where you would be required to report two different sets of emissions data using sections D and E – when paying the first annual fee and reconciliation is required because the initial fee was based on estimated actual emissions for the "preceding" calendar year (the year preceding initial fee payment). In this case, the two data sets would be:

- actual emissions for the year initial fees paid (for annual fee purposes in lines 1-5 of section F of the form), and
- actual emissions for the year preceding initial fee payment (for reconciliation in lines 11-20 of the form)

Whenever reconciliation is required as part of annual fee payment, you will also need a copy of the fee forms you previously submitted with initial fee payment in order to obtain the value of estimated actual emissions.

Include all fugitive emissions in the calculation of actual emissions, including those that do not count for applicability. Do not include any insignificant emissions identified on form **IE**.

The subtotal line in section D of the form is provided at the bottom of each column to enter total emissions for each pollutant reported above. Each subtotal should be reported to the nearest tenth (0.1) of a ton. If any subtotal exceeds 4,000 tons, enter 4,000 tons for that column.

Any necessary adjustments for double counting of emissions will be performed later in section F.

Section E. Annual Emissions Report for Fee Calculation Purposes -- HAP

List the actual emissions of individual HAP from each emission unit. If you are initially applying for a permit, you may use the emissions of HAP reported on form **EMISS,** instead of completing this section of this form, provided these emissions are the same as you would otherwise report using this section of the form. If you are doing this, please note it on the form.

This section is composed of two tables. The first table is to identify individual HAP emitted at each emission unit. Assign a unique identifier for use in the second table. Please use "HAP1" for the first

one, "HAP2" for the second one, and so on. The second table is to calculate the actual emission of individual HAP at each emission unit. Use the identifiers assigned in the first table to label the column headers for the second table. You may round and report these emissions to the nearest tenth (0.1) of a ton. Sum the values in each column and enter the subtotals at the bottom of the table. If any subtotal exceeds 4,000 tons, enter 4,000 for that column.

See instructions for section D for more information on reporting emissions data.

Section F. Fee Calculation Worksheet

This worksheet is used to sum the total tons of actual emissions subject to fees, adjust for double counting of emissions, perform certain reconciliations for underpayment and overpayment of fees and adjust for fee assessment errors, if needed, and ultimately to determine the total fee to be paid.

A detailed explanation of Section F follows (separated into six parts):

Emissions Summary

The subtotals for each pollutant listed in Sections D and E (or from form **EMISS**) are added together to calculate the total emissions (in tons per year) for the facility.

The emissions that are reported here will vary for initial fee payment purposes, depending on the specific circumstances, but will always be actual emissions for the preceding calendar year for annual fee purposes. See the instructions for section D for more on the emissions data you should use in the part of the form.

The total emissions are adjusted for double counting and are rounded to the nearest ton. For example, double counting may occur where a pollutant is defined as HAP and VOC. If you adjust for double counting, attach an explanation for this.

Reconciliation (When Initial Emission Fees Were Based on Estimates for the Current Calendar Year)

This section is only used by sources paying their first annual fee when their initial fee was based on estimates of calendar-year emissions for the “current” year (the same year that initial fees were paid). This reconciliation is done by comparing the actual emissions for the “current” year provided in sections D and E of this submittal with the estimate of those emissions previously provided with initial fee payment. There may have been overpayment or underpayment of the initial fee. The fee you are paying now will be adjusted for this difference later.

Reconciliation (When Initial Emission Fees Were Based on Estimates for the Preceding Calendar Year)

This section is only used by sources paying their first annual fee when their initial fee was based on estimates of calendar-year emissions for the year preceding initial fee payment, provided the source was required to pay its initial fee between January 1 and March 31, and EPA issued the Part 71permit to replace a Part 70 permit. This reconciliation is done by comparing the actual emissions for the “preceding” year provided in sections D and E of this submittal with the estimate of those emissions provided with initial fee payment. There may have been overpayment or underpayment of the initial fee. The fee you are paying now will be adjusted for this difference later.

Emission Fee Calculation

Calculate the emission-based fee using the emissions from line 5 (tons) multiplied by the fee rate ($/ton) in effect at the time the fee is paid.

GHG Fee Adjustment

The part 71 rule was amended in 2015 to require the fees to be increased by a GHG fee adjustment. The GHG adjustment must be calculated by each source that is required to pay fees. The adjustment is based on the burden for the permitting authority to conduct certain GHG evaluations or reviews related to the source, rather than on emissions. Set fees are charged for certain activities that have occurred at the source since the last time fees were paid. For an initial application, the set fee is a one-time charge that includes the costs of processing application updates. The term “permit modification” refers to any significant and minor modifications, but not to administrative amendments. The number of permit modifications must be multiplied by the set fee for modifications to determine the total GHG adjustment for modifications. The set fee for a permit renewal also includes any permit modifications that may be processed at the same time as the renewal. Note that you may need to check with the permitting authority to determine if they are holding any permit modification requests you have submitted for processing with an upcoming permit renewal.

Other Adjustments

The purpose of this section is to adjust the emissions-based to determine the total fee (after adjustments) that is due to the EPA. The emissions fee determined on line 21 is adjusted by the GHG fee adjustment, any amounts of overpayment or underpayment related to a previous fee submittal, and to correct for any fee assessment errors.

Fee assessment errors occur when the permitting authority determines that the source has calculated the fee incorrectly. If this occurs, you will be notified of the error. Any overpayment will be credited against the next fee owed. In the case of underpayment, you will be billed for the corrected fee and you will have 30 days to remit the amount. If you think the assessed fee is in error, you may submit a written explanation of the alleged error, but you must pay the fee. The permitting authority will provide a determination in 90 days. If the assessment of underpayment is in error, your account will be credited.

Fee Payment

See form **FF** (the Fee Filing form) for instructions on how to make fee payment to the EPA.

Penalties and Interest

The permitting authority will bill sources for appropriate penalties and interest for late payment or excessive underpayment of fees. Interest will be assessed on payments received later than the due date. Penalties shall be assessed if payment is not paid within 30 days of the due date. For sources issued with issued permits, penalties and interest shall be assessed for excessive underpayment of the annual fee amount.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
FEE FILING FORM (FF)

The purpose of this form is to ensure that fee payments made by check are credited to the proper facility and to the proper government account. Send this form, along with form **FEE** and the check, to the appropriate lockbox bank address listed on the following page. This form is required whenever you pay by check, including for initial fee payment and to pay annual fees. Part 71 fees may be paid by check or electronically, and further information on making payments by check or electronically is provided on the following page.

Source or Facility Name: Texas Gulflink Project

Source Location: The site will be approximately 32.5 nautical miles off the coast of Brazoria County, Texas.

EPA Region where Source Located: 6

Mailing Address:

Street/P.O. Box 8333 Douglas Ave., Ste. 400

City Dallas

State TX ZIP 75225 - _____

Contact Person: Mr. Jeff Ballard

Title President and CEO

Telephone (214) 712- 2140 Ext. _____

Total Fee Payment Remitted: $ **0.00**

TWO PAYMENT OPTIONS FOR PART 71 FEES:

OPTION 1 - CHECK PAYMENT VIA U.S. POSTAL SERVICE

- Fee payment shall be in U.S. currency drawn on a U.S. bank.
- Check should be made out to the order of the "U.S. Environmental Protection Agency."
- Indicate on the check that the payment is for "Part 71 Fee Payment."
- Make a photocopy of the check.

- **Send the following to the EPA region (or delegate agency):**
  - ✓ Form *FEE* (EPA Form 5900-03) and
  - ✓ Photocopy of check

- **Send the following to the address below:**
  - ✓ Form *FF* (EPA Form 5900-06) and
  - ✓ Original check

***Address* for *Regular Mail* (U.S. Postal Service):**
U.S. EPA OCFO/OC/ACAD/FCB Attn: Collections Team 1300 Pennsylvania Ave NW Mail Code 2733R Washington, DC 20004

- **Tips for Completing form FF (Fee Filing Form)**
  - ***Source Location:*** Physical location - Street address (if any), City, County, and State.
  - ***Mailing Address:*** Address for the EPA to send correspondence. This address may be different from the source location, such as a corporate office.
  - ***EPA Region:*** EPA region in which the source is located (e.g., EPA Region 8).
  - ***Contact:*** Person that can best answer questions concerning fee payment.

OPTION 2 – ONLINE PAYMENT

- Part 71 fees can be paid online at www.pay.gov using form **"SFO 1.1 (EPA Miscellaneous Payments - Cincinnati Finance Center)."** *Note that EPA Form 5900-06 cannot be used for online payments.*

- **Tips for completing online form SFO 1.1:**
  - From the "*Type of Payment"* drop down menu, select "Other/Miscellaneous"
  - On the "*Bill# or description"* line, enter "Part 71 Fee Payment"
  - In the "*Comments"* box, enter the source or facility name and the part 71 permit number associated with this payment.

- **After submitting payment online, send the following to the EPA region (or delegate agency):**
  - Form *FEE* (EPA Form 5900-03) and
  - Copy of the electronic payment confirmation generated by the online payment system.

- **FOR MORE INFORMATION:** The following link provides detailed information on how to make payments to EPA for part 71 fees, penalties, and interest, including contact information for EPA's Accounts Receivable Branch in Cincinnati https://www.epa.gov/financial/makepayment

- Questions/inquiries may be sent to: CollectionInquiryMailbox@epa.gov
  Laura Collier - collier.laura@epa.gov
  Stacey Church - church.stacey@epa.gov

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
INITIAL COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION (I-COMP)

SECTION A – COMPLIANCE STATUS AND COMPLIANCE PLAN

Complete this section for each unique combination of applicable requirements and emissions units at the facility. List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the applicable requirement described above. Indicate your compliance status at this time for this requirement and compliance methods and check "YES" or "NO" to the follow-up question.

Emission Unit ID(s): Deepwater Port Facility (all EPNs)

Applicable Requirement (Describe and Cite)

The proposed facility has not yet been constructed. Therefore, the requirements of 40 CFR 71.5(c)(8) do not apply, except for 71.5(c)(8)(ii)(B). See following statement.

Compliance Methods for the Above (Description and Citation):

When constructed, the proposed offshore deepwater port facility will be in compliance with regulatory requirements as they become applicable at the site.

Compliance Status:

___ In Compliance: Will you continue to comply up to permit issuance? ____Yes ____No

___ Not In Compliance: Will you be in compliance at permit issuance? ___Yes ___No

___ Future-Effective Requirement: Do you expect to meet this on a timely basis? ____Yes ____No

Emission Unit ID(s):

Applicable Requirement (Description and Citation):

Compliance Methods for the Above (Description and Citation):

Compliance Status:

___ In Compliance: Will you continue to comply up to permit issuance? ____Yes ____No

___ Not In Compliance: Will you be in compliance at permit issuance? ___Yes ___No

___ Future-Effective Requirement: Do you expect to meet this on a timely basis? ____Yes _____No

B. SCHEDULE OF COMPLIANCE

Complete this section if you answered "NO" to any of the questions in section A. Also, complete this section if required to submit a schedule of compliance by an applicable requirement. Please attach copies of any judicial consent decrees or administrative orders for this requirement.

Unit(s)_____ Requirement_____

Reason for Noncompliance. Briefly explain reason for noncompliance at time of permit issuance or that future-effective requirement will not be met on a timely basis:

Narrative Description of how Source Compliance Will be Achieved. Briefly explain your plan for achieving compliance:

Schedule of Compliance. Provide a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance, including a date for final compliance.

Remedial Measure or Action	Date to be Achieved

C. SCHEDULE FOR SUBMISSION OF PROGRESS REPORTS

Only complete this section if you are required to submit one or more schedules of compliance in section B or if an applicable requirement requires submittal of a progress report. If a schedule of compliance is required, your progress report should start within 6 months of application submittal and subsequently, no less than every six months. One progress report may include information on multiple schedules of compliance.

Contents of Progress Report (describe):

First Report____/____/___ Frequency of Submittal_____

Contents of Progress Report (describe):

First Report____/____/___ Frequency of Submittal_____

D. SCHEDULE FOR SUBMISSION OF COMPLIANCE CERTIFICATIONS

This section must be completed once by every source. Indicate when you would prefer to submit compliance certifications during the term of your permit (at least once per year).

Frequency of submittal_____ Beginning____/____/____

E. COMPLIANCE WITH ENHANCED MONITORING & COMPLIANCE CERTIFICATION REQUIREMENTS

This section must be completed once by every source. To certify compliance with these, you must be able to certify compliance for every applicable requirement related to monitoring and compliance certification at every unit.

Enhanced Monitoring Requirements: ____ In Compliance ____ Not In Compliance

Compliance Certification Requirements: ____ In Compliance ____ Not In Compliance

INSTRUCTIONS FOR I-COMP

INITIAL COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION

Section A (Compliance Status and Compliance Plan)

Description of Applicable Requirement: Complete Section A for each unique combination of applicable requirements (emission limitations, standards or other similar requirements of federal rules, SIP, TIP, FIP, or federally-enforceable permits) that apply to particular emissions units. You will likely have to complete this section numerous times to include all requirements at all emission units.

The emissions unit ID(s) should be the ones defined in section I of form GIS. If the requirement, including compliance method, applies in the same way to multiple emission units, you may list multiple units for a particular requirement.

The descriptions here should be detailed to the individual requirement level, rather than the standard level (if a MACT applies to you, describe each requirement of the MACT, rather than just a citation to the MACT as a whole). If the requirement imposes a particular numerical limit or range, include that in your description.

Citations to the requirements should unambiguously identify the requirement to the lowest level necessary.

Compliance Methods: List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the applicable requirement described above. Such methods may be required by the applicable requirements or performed for other reasons. List all compliance methods required by applicable requirements, whether you used them to determine compliance or not.

To describe monitoring, indicate the monitoring device, the equipment, process, or pollutant monitored, averaging time, frequency, and a citation or cross-reference to the requirement. To describe recordkeeping, describe the records kept, the frequency of collection, and include a citation or cross-reference to the requirement. Please indicate whether monitoring data, results, or other records kept for compliance purposes may be kept on-site rather than reported. To describe reporting requirements, describe what is reported, when it is reported, and cite or cross-reference the requirement.

The citation or cross-reference here must unambiguously identify the requirement to the lowest level necessary.

Note that Compliance Assurance Monitoring (CAM) under part 64 is also an applicable requirement that may impose compliance methods for title V sources and require the submittal of a CAM plan with this application. Also note that periodic monitoring (which may be monitoring or recordkeeping designed to serve as monitoring) under part 71 may be required in certain limited circumstances: when there is no monitoring required, monitoring is required but there is no frequency specified, or only a one-time test is required. You may propose periodic monitoring in your application, but the permitting authority will make the final decision. If you wish to propose periodic monitoring, please do so in an attachment that clearly identifies the requirements, the units they apply to, and what you propose for periodic monitoring.

Compliance Status: For each requirement and associated compliance methods described above, indicate whether you are in compliance, not in compliance, or it is a future-effective requirement (only check one). This is with respect to your compliance status at the time of application submittal. You should consider all available information or knowledge that you have when evaluating your compliance status, including reference test methods and other compliance requirements that are required directly by a statute, regulation, or permit and “credible evidence” (e.g., non-reference test methods and other information “readily available” to you and already being utilized by you). For each compliance status indication, you must answer “YES” or “NO” as to your expectations for continuing (or future) compliance. If you answer “NO” to any of these questions, you will have to complete the schedule of compliance section (section B).

Section B (Schedule of Compliance)

Complete this section if you answered "NO" to any of the questions in section A. Regardless of how you answered the questions in section A, complete this section if required to have a schedule of compliance by an applicable requirement, or if a judicial consent decree or administrative order includes a schedule of compliance.

Identify the applicable requirement using the same information you used in section A. Provide a brief explanation of the reason for noncompliance (either now or in the future). [e.g., "do not have control device required as BACT."] Next, provide a brief description of what the schedule of compliance is trying to achieve. Then in the table provided, include a detailed schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with the applicable requirement. This schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such schedule of compliance must be supplemental to, and not sanction noncompliance with, the applicable requirements on which it is based. For each remedial measure, provide the date by which the action will be completed. This schedule or one approved by the permitting authority will be included in the permit.

Lastly, attach a copy of any judicial consent decrees or administrative orders for which you are providing a schedule of compliance.

Section C (Schedule for Submission of Progress Reports)

If you must submit one or more schedules of compliance (specified in section B), or if an applicable requirement requires submittal of a progress report, complete this section. Progress reports describe your progress in meeting the milestone dates for the remedial measures required by the schedule of compliance. Progress reports must be submitted at least every 6 months, but specific applicable requirements may require them more frequently. One progress report may include information on one or more schedules of compliance. Describe the contents of the progress report, including the date that your facility will begin submitting them and the frequency they will be submitted.

Section D (Schedule for Submission of Compliance Certifications)

All applicants must complete this section. Compliance certifications must be submitted at least every year unless the applicable requirement or EPA requires them more frequently. Provide the date when the first compliance certification will be sent.

Section E (Compliance Status for Enhanced Monitoring and Compliance Certification)

All applicants must complete this section. The completion of this section does not satisfy the requirement for the responsible official to submit a certification of truth, accuracy, and completeness (instead, this is met by completing form CTAC and submitting it with the other forms you send to EPA).

To certify compliance with "Enhanced Monitoring," you must be in compliance at all emission units with CAM and "Periodic Monitoring" [required by 40 CFR 71.6(a)(3)(i)(B)], if they apply. "Compliance Certification Requirements" include requirements for compliance certification in title V applications and permits, and possibly through applicable requirements (e.g., certain MACT standards). If you have fully completed sections A - E of this form, you will be in compliance with the compliance certification requirement for applications. If you do not have a title V permit at this time, you can assume you are in compliance with the compliance certification requirements for permits and with periodic monitoring requirements. If you indicate you are "not in compliance" with either of these requirements, attach an explanation.

END

United States Environmental Protection Agency

OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

A. Responsible Official

Name: (Last) __Ballard_____ (First) __Jeff_____ (MI) ____

Title ____President and CEO_____

Street or P.O. Box ___8333 Douglas Ave., Ste. 400_____

City __Dallas_____ State __TX_ ZIP _75225__ - _____

Telephone (214) 712-2140__ Ext. _____ Facsimile (____) ____ - _____

B. Certification of Truth, Accuracy and Completeness (to be signed by the responsible official)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Name (signed) _____

Name (typed) __Jeff Ballard_____ Date: _____ /_____ /_____

INSTRUCTIONS FOR CTAC
CERTIFICATION OF TRUTH, ACURACY, and COMPLETENESS

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

This form is for the responsible official to certify that submitted documents (i.e., permit applications, updates to application, reports, and any other information required to be submitted as a condition of a permit) are true, accurate, and complete.

This form should be completed and submitted with each set of documents sent to the permitting authority. It may be used at time of initial application, at each step of a phased application submittal, for application updates, as well as to accompany routine submittals required as a term or condition of a permit.

Section A - Title V permit applications must be signed by a responsible official. The definition of responsible official can be found at 40 CFR 70.2.

Section B - The responsible official must sign and date the certification of truth, accuracy and completeness. This should be done after all application forms are complete and the responsible official has reviewed the information. Normally this would be the last form completed before the package of forms is mailed to the permitting authority.