Statement of Basis of the Federal Operating Permit

Pasadena Refining System, Inc

Site Name: Pasadena Refinery
Area Name: Pasadena Refinery System
Physical Location: 111 Red Bluff Rd
Nearest City: Pasadena
County: Harris

Permit Number: O3711
Project Type: Renewal

The North American Industry Classification System (NAICS) Code: 324110
NAICS Name: Petroleum Refineries

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;
A basis for applying permit shields;
A list of the federal regulatory applicability determinations;
A table listing the determination of applicable requirements;
A list of the New Source Review Requirements;
The rationale for periodic monitoring methods selected;
The rationale for compliance assurance methods selected;
A compliance status; and
A list of available unit attribute forms.

Prepared on: August 1, 2024
Revised on: September 3, 2024

Operating Permit
Basis of Determination

Permit Area Process Description
The refinery processes crude oil into products such as gasoline, distillates (e.g., diesel, home heating oil, jet fuel), petrochemical feedstocks, residual oil, and slurry oil. Crude oil is pumped from tanks to the Crude Unit, where it is heated and washed to remove salts / solids that exist naturally in underground formations. Initial fractionation occurs via distillation. Overhead gases are compressed and routed to the Fluid Catalytic Cracking (FCC) Unit. A heavy liquid stream is sent to the Vacuum Tower where fractionation occurs under a vacuum. Liquid streams can be routed to the FCC or to the Light Oils Unit, an intermediate process.

The FCC uses a fluid catalyst in a high temperature environment to break the bonds of high molecular weight hydrocarbon materials (gas oils), producing a range of lighter hydrocarbon products such as high-octane gasoline, light olefins, distillates, and fuel oils. The Liquified Petroleum Gas (LPG) Unit recovers propane and heavier hydrocarbons from FCC off-gas product. The De-propanizer removes propane for sale or for use in the refinery fuel gas system. The Shell Unit Dry Gas Compressor Station, owned by Shell, consists of three electric-driven, three stage reciprocating compressors and a glycol dehydrator. The equipment owned by Shell is not considered part of the Pasadena Refinery.

Reformer No. 3 includes the Naphtha Hydrotreater (HDT) and the Catalytic Reformer. The primary purpose of the Naphtha HDT is to remove contaminants such as sulfur, nitrogen, and other metals that might affect the performance of reforming catalyst. Naphtha is fed primarily from the Crude Unit but can be pumped from other refinery process units, purchased feed material, or from onsite storage. The Catalytic Reformer is used to convert raw naphtha into high-octane gasoline or reformate and includes continuous catalyst regeneration (CCR). The Distillate Hydrotreater (HDT) processes distillate oils to reduce the sulfur content. Feed can come from the FCC or Crude Units. The SZorb Low Sulfur Gasoline (LSG) Unit removes sulfur from intermediate gasoline streams. The Reformate Splitter is designed to separate the reformate feedstock stream into heavy, medium, and light reformate product streams that can be sold or used for onsite gasoline blending. The two Hydrofluoric Acid Alkylation (Alky) Units convert low molecular weight alkenes into alkylate, a high-octane gasoline component. The main process and equipment are the same in each unit with some minor differences. Hydrogen sulfide is converted to elemental sulfur in the Sulfur Recovery Unit (SRU).

Tanks in two main areas at the Pasadena Refinery store crude feed, intermediate and final product storage: East Pasadena and Red Bluff Tank Farms. East Pasadena Refinery Tank Farm is located adjacent to the main refinery processing area. The Red Bluff Tank is located approximately ¾ of a mile southeast of the refinery processing area. A tank/distribution area storing caustic of various strengths is also located near the refinery process units. Caustic is delivered by tank truck and pumped upon request to other unit throughout the site.

Three cooling towers provide cooling water to multiple process units and numerous heat exchangers to control the temperature of process streams. The cooling tower circulates water through a header system and rejects waste heat through evaporative cooling using an induced draft design. Water treatment chemicals are added to the cooling water to maintain desired water chemistry and provide corrosion protection to equipment in the heat exchange systems. Steam is provided primarily by three boilers on site: Boilers 4, 6, and 10.

The Benzene Stripper Unit (BSU), originally constructed and authorized via a standard permit for pollution control projects, was designed to control process wastewater streams containing benzene from various refinery sources. The BSU removes hydrocarbons using steam from wastewater discharges such as the Crude Desalter and decanted water from oil-water storage tanks. Recovered hydrocarbons, including benzene, are recycled to storage tanks for further processing and/or blending. Hydrocarbon-stripped water is sent through wastewater storage tanks to the Corrugated Plate Interceptor (CPI) and discharged from the refinery to Gulf Coast Authority (GCA), the local Publicly Owned Treatment Works (POTW). The CPI is the final pre-treatment facility in the wastewater flow configuration, designed to remove oil separated from wastewater (including stormwater from process areas) before off-site discharge to GCA.

The East and West Flares control vent gas from process units and excess refinery fuel gas that cannot be beneficially used as fuel. The Flare Gas Recovery (FGR) Unit, originally constructed and authorized via a standard permit for pollution control projects, reduces the volume of vent gases sent for control at the refinery flares and reuses them as fuel gas. Process vent gas may also be sent directly to the flares instead of, or in addition to, routing to the FGR System. The East Flare primarily controls vent gas from the Alky Units. Pressure relief valves on the refinery pressurized sphere and bullet tanks are also routed to the East Flare. The West Flare primarily controls vent gas (not recovered in the FGR Unit) from other process units. Both flares use natural gas to maintain pilot flames.

FOPs at Site

The “application area” consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: None

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

Major Pollutants	VOC, SO_2, PM, NO_X, HAPs, CO

Reading State of Texas’s Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as “applicable requirements”) that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
    - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
    - Additional Monitoring Requirements
    - New Source Review Authorization Requirements
    - Compliance Requirements
    - Protection of Stratosphere Ozone
    - Permit Location
    - Permit Shield (30 TAC § 122.148)
- Attachments
    - Applicable Requirements Summary
        - Unit Summary
        - Applicable Requirements Summary
    - Additional Monitoring Requirements
    - Permit Shield
    - New Source Review Authorization References
    - Compliance Plan
    - Alternative Requirements
- Appendix A
    - Acronym list

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on an OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the “index number,” detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table is based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirements Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Stationary Vents subject to 30 TAC Chapter 111 not addressed in the Special Terms and Conditions

All other stationary vents subject to 30 TAC Chapter 111 not covered in the Special Terms and Conditions are listed in the permit's Applicable Requirements Summary. The basis for the applicability determinations for these vents are listed in the Determination of Applicable Requirements table.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	No
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	Yes
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	Yes
CSAPR (Cross-State Air Pollution Rule)	No
Federal Implementation Plan for Regional Haze (Texas SO_2 Trading Program)	No

Basis for Applying Permit Shields

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the “Permit Shield” attachment of the permit.

Insignificant Activities and Emission Units

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

De Minimis Sources

1. Sources identified in the “De Minimis Facilities or Sources” list maintained by TCEQ. The list is available at https://www.tceq.texas.gov/permitting/air/newsourcereview/de_minimis.html.

Miscellaneous Sources

2. Office activities such as photocopying, blueprint copying, and photographic processes.
3. Outdoor barbecue pits, campfires, and fireplaces.
4. Storage and handling of sealed portable containers, cylinders, or sealed drums.

5. Vehicle exhaust from maintenance or repair shops.
6. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
7. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
8. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
9. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
10. Well cellars.
11. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
12. Equipment used exclusively for the melting or application of wax.
13. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
14. Battery recharging areas.

Sources Authorized by 30 TAC Chapter 106, Permits by Rule

15. Sources authorized by §106.102: Combustion units designed and used exclusively for comfort heating purposes employing liquid petroleum gas, natural gas, solid wood, or distillate fuel oil.
16. Sources authorized by §106.122: Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
17. Sources authorized by §106.141: Batch mixers with rated capacity of 27 cubic feet or less for mixing cement, sand, aggregate, lime, gypsum, additives, and/or water to produce concrete, grout, stucco, mortar, or other similar products.
18. Sources authorized by §106.143: Wet sand and gravel production facilities that obtain material from subterranean and subaqueous beds where the deposits of sand and gravel are consolidated granular materials resulting from natural disintegration of rock and stone and have a production rate of 500 tons per hour or less.
19. Sources authorized by §106.148: Railcar or truck unloading of wet sand, gravel, aggregate, coal, lignite, and scrap iron or scrap steel (but not including metal ores, metal oxides, battery parts, or fine dry materials) into trucks or other railcars for transportation to other locations.
20. Sources authorized by §106.149: Sand and gravel production facilities that obtain material from deposits of sand and gravel consisting of natural disintegration of rock and stone, provided that crushing or breaking operations are not used and no blasting is conducted to obtain the material.
21. Sources authorized by §106.161: Animal feeding operations which confine animals in numbers specified and any associated on-site feed handling and/or feed millings operations, not including caged laying and caged pullet operations.
22. Sources authorized by §106.162: Livestock auction sales facilities.
23. Sources authorized by §106.163: All animal racing facilities, domestic animal shelters, zoos, and their associated confinement areas, stables, feeding areas, and waste collection and treatment facilities, other than incineration units.
24. Sources authorized by §106.229: Equipment used exclusively for the dyeing or stripping of textiles.
25. Sources authorized by §106.241: Any facility where animals or poultry are slaughtered and prepared for human consumption provided that waste products such as blood, offal, and feathers are stored in such a manner as to prevent the creation of a nuisance condition and these waste products are removed from the premises daily or stored under refrigeration.
26. Sources authorized by §106.242: Equipment used in eating establishments for the purpose of preparing food for human consumption.
27. Sources authorized by §106.243: Smokehouses in which the maximum horizontal inside cross-sectional area does not exceed 100 square feet.
28. Sources authorized by §106.244: Ovens, mixers, blenders, barbecue pits, and cookers if the products are edible and intended for human consumption.
29. Sources authorized by §106.266: Vacuum cleaning systems used exclusively for industrial, commercial, or residential housekeeping purposes.
30. Sources authorized by §106.301: Aqueous fertilizer storage tanks.

31. Sources authorized by §106.313: All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
32. Sources authorized by §106.316: Equipment used for inspection of metal products.
33. Sources authorized by §106.317: Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
34. Sources authorized by §106.318: Die casting machines.
35. Sources authorized by §106.319: Foundry sand mold forming equipment to which no heat is applied.
36. Sources authorized by §106.331: Equipment used exclusively to package pharmaceuticals and cosmetics or to coat pharmaceutical tablets.
37. Sources authorized by §106.333: Equipment used exclusively for the mixing and blending of materials at ambient temperature to make water-based adhesives.
38. Sources authorized by §106.372: Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
39. Sources authorized by §106.391: Presses used for the curing of rubber products and plastic products.
40. Sources authorized by §106.394: Equipment used for compression molding and injection molding of plastics.
41. Sources authorized by §106.414: Equipment used exclusively for the packaging of lubricants or greases.
42. Sources authorized by §106.415: Laundry dryers, extractors, and tumblers used for fabrics cleaned with water solutions of bleach or detergents.
43. Sources authorized by §106.431: Equipment used exclusively to mill or grind coatings and molding compounds where all materials charged are in paste form.
44. Sources authorized by §106.432: Containers, reservoirs, or tanks used exclusively for dipping operations for coating objects with oils, waxes, or greases where no organic solvents, diluents, or thinners are used; or dipping operations for applying coatings of natural or synthetic resins which contain no organic solvents.
45. Sources authorized by §106.451: Blast cleaning equipment using a suspension of abrasives in water.
46. Sources authorized by §106.453: Equipment used for washing or drying products fabricated from metal or glass, provided no volatile organic materials are used in the process and no oil or solid fuel is burned.
47. Sources authorized by §106.471: Equipment used exclusively to store or hold dry natural gas.
48. Sources authorized by §106.531: Sewage treatment facilities, excluding combustion or incineration equipment, land farms, or grease trap waste handling or treatment facilities.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled “Basis of Determination.” Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column “Changes and Exceptions to RRT.” If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word “None” will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled “Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected.”

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled “Basis for Applying Permit Shields” specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Unit ID	Regulation	Index Number	Basis of Determination*
635G-PV	40 CFR Part 63, Subpart GGGGG	63-5G-GWREMa	Emissions = Vent stream exiting the vent is less than 0.005 cubic meters per minute or is less than 6.0 cubic meters per minute and total HAP concentration is less than 20 parts per million by volume
635G-PV	40 CFR Part 63, Subpart GGGGG	63-5G-GWREMb	Emissions = The average total VOHAP concentration of the material managed by the process vented through the process vent is less than 10 parts per million by weight
BLRHT004	30 TAC Chapter 117, Subchapter B	TX-117B-NG	Unit Type = Other industrial, commercial, or institutional boiler. Maximum Rated Capacity = MRC is greater than or equal to 250 MMBtu/hr. Fuel Type #1 = Natural gas. Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average. NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]. EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Emission Limit Average = Comply with the applicable emission limit in pounds/hour on a using block one-hour average. NOx Reductions = No NO_x reduction. NOx Monitoring System = Continuous emissions monitoring system. Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.125(a), 117.325(a) or 117.425(a). CO Monitoring System = Continuous emissions monitoring system.
BLRHT004	30 TAC Chapter 117, Subchapter B	TX-117B-RG	Unit Type = Other industrial, commercial, or institutional boiler. Maximum Rated Capacity = MRC is greater than or equal to 250 MMBtu/hr. Fuel Type #1 = Gaseous fuel other than natural gas landfill gas or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average. NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]. EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Emission Limit Average = Comply with the applicable emission limit in pounds/hour on a using block one-hour average. NOx Reductions = No NO_x reduction. NOx Monitoring System = Continuous emissions monitoring system. Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).

Unit ID	Regulation	Index Number	Basis of Determination*
			CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.125(a), 117.325(a) or 117.425(a). CO Monitoring System = Continuous emissions monitoring system.
BLRHT004	40 CFR Part 60, Subpart Db	60Db-NG	Construction/Modification Date = On or after November 25, 1986, and on or before July 9, 1997. Heat Input Capacity = Heat input capacity is greater than 250 MMBtu/hr (73 MW). Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da. Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA. Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. D-Series Fuel Type #1 = Natural gas. Subpart J = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart J. Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E. ACF Option - SO2 = Other ACF or no ACF. ACF Option - PM = Other ACF or no ACF. ACF Option - NOx = Other ACF or no ACF. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative. PM Monitoring Type = No particulate monitoring. Opacity Monitoring Type = No particulate (opacity) monitoring. NOx Monitoring Type = Continuous emission monitoring system. SO2 Monitoring Type = No SO_2 monitoring. Technology Type = No emerging or conventional technology is used to reduce or control SO2 emissions Unit Type = OTHER UNIT TYPE Heat Release Rate = Natural gas oil with a heat release rate greater than 70 MBtu/hr/ft^3.
BLRHT004	40 CFR Part 60, Subpart Db	60Db-RG	Construction/Modification Date = On or after November 25, 1986, and on or before July 9, 1997. Heat Input Capacity = Heat input capacity is greater than 250 MMBtu/hr (73 MW). Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da. Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA.

Unit ID	Regulation	Index Number	Basis of Determination*
			Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. D-Series Fuel Type #1 = Gaseous fossil fuel other than natural gas and coal-derived synthetic fuel meeting the definition of natural gas. Subpart J = The affected facility meets applicability requirements of 40 CFR Part 60, Subpart J. ACF Option - SO2 = Other ACF or no ACF. ACF Option - PM = Other ACF or no ACF. ACF Option - NOx = Other ACF or no ACF. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative. PM Monitoring Type = No particulate monitoring. Opacity Monitoring Type = No particulate (opacity) monitoring. NOx Monitoring Type = Continuous emission monitoring system. SO2 Monitoring Type = No SO_2 monitoring. Technology Type = No emerging or conventional technology is used to reduce or control SO2 emissions Unit Type = OTHER UNIT TYPE Facility Type = The affected facility includes a fuel gas combustion device. Monitoring Device = An instrument is in place for continuous monitoring and recording the concentration (dry basis) of hydrogen sulfide in fuel gasses before being burned in any fuel gas combustion device. Common Fuel Source = The fuel gas combustion device has a common fuel source with other fuel gas combustion devices.
BLRHT004	40 CFR Part 60, Subpart J	60J-HTR-73to07	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 11, 1973 and on or before May 14, 2007. Monitoring Device = No instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere.
BLRHT004	40 CFR Part 63, Subpart DDDDD	63DDDDD-BLR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
BLRHT006	30 TAC Chapter 117, Subchapter B	TX-117B-NG-NH3	Unit Type = Other industrial, commercial, or institutional boiler. Maximum Rated Capacity = MRC is greater than or equal to 250 MMBtu/hr. Fuel Type #1 = Natural gas. Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average. NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration].

Unit ID	Regulation	Index Number	Basis of Determination*
			EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Emission Limit Average = Comply with the applicable emission limit in pounds/hour on a using block one-hour average. NOx Reductions = Post combustion control technique with ammonia injection. NOx Monitoring System = Continuous emissions monitoring system. Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.125(a), 117.325(a) or 117.425(a). CO Monitoring System = Continuous emissions monitoring system. NH3 Emission Limitation = Title 30 TAC § 117.310(c)(2). NH3 Emission Monitoring = Mass balance
BLRHT006	30 TAC Chapter 117, Subchapter B	TX-117B-RG-NH3	Unit Type = Other industrial, commercial, or institutional boiler. Maximum Rated Capacity = MRC is greater than or equal to 250 MMBtu/hr. Fuel Type #1 = Gaseous fuel other than natural gas landfill gas or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average. NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]. EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Emission Limit Average = Comply with the applicable emission limit in pounds/hour on a using block one-hour average. NOx Reductions = Post combustion control technique with ammonia injection. NOx Monitoring System = Continuous emissions monitoring system. Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.125(a), 117.325(a) or 117.425(a). CO Monitoring System = Continuous emissions monitoring system. NH3 Emission Limitation = Title 30 TAC § 117.310(c)(2). NH3 Emission Monitoring = Mass balance
BLRHT006	40 CFR Part 60, Subpart Db	60Db-NG	Construction/Modification Date = On or after November 25, 1986, and on or before July 9, 1997. Heat Input Capacity = Heat input capacity is greater than 250 MMBtu/hr (73 MW). Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da. Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281.

Unit ID	Regulation	Index Number	Basis of Determination*
			Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA. Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. D-Series Fuel Type #1 = Natural gas. Subpart J = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart J. Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E. ACF Option - SO2 = Other ACF or no ACF. ACF Option - PM = Other ACF or no ACF. ACF Option - NOx = Other ACF or no ACF. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative. PM Monitoring Type = No particulate monitoring. Opacity Monitoring Type = No particulate (opacity) monitoring. NOx Monitoring Type = Continuous emission monitoring system. SO2 Monitoring Type = No SO_2 monitoring. Technology Type = No emerging or conventional technology is used to reduce or control SO2 emissions Unit Type = OTHER UNIT TYPE Heat Release Rate = Natural gas oil with a heat release rate greater than 70 MBtu/hr/ft^3. Facility Type = The affected facility includes a fuel gas combustion device. Monitoring Device = An instrument is in place for continuous monitoring and recording the concentration (dry basis) of hydrogen sulfide in fuel gasses before being burned in any fuel gas combustion device. Common Fuel Source = The fuel gas combustion device has a common fuel source with other fuel gas combustion devices.
BLRHT006	40 CFR Part 60, Subpart Db	60Db-RG	Construction/Modification Date = On or after November 25, 1986, and on or before July 9, 1997. Heat Input Capacity = Heat input capacity is greater than 250 MMBtu/hr (73 MW). Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da. Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA. Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines.

Unit ID	Regulation	Index Number	Basis of Determination*
			D-Series Fuel Type #1 = Gaseous fossil fuel other than natural gas and coal-derived synthetic fuel meeting the definition of natural gas. Subpart J = The affected facility meets applicability requirements of 40 CFR Part 60, Subpart J. ACF Option - SO2 = Other ACF or no ACF. ACF Option - PM = Other ACF or no ACF. ACF Option - NOx = Other ACF or no ACF. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative. PM Monitoring Type = No particulate monitoring. Opacity Monitoring Type = No particulate (opacity) monitoring. NOx Monitoring Type = Continuous emission monitoring system. SO2 Monitoring Type = No SO_2 monitoring. Technology Type = No emerging or conventional technology is used to reduce or control SO2 emissions Unit Type = OTHER UNIT TYPE Facility Type = The affected facility includes a fuel gas combustion device. Monitoring Device = An instrument is in place for continuous monitoring and recording the concentration (dry basis) of hydrogen sulfide in fuel gasses before being burned in any fuel gas combustion device. Common Fuel Source = The fuel gas combustion device has a common fuel source with other fuel gas combustion devices.
BLRHT006	40 CFR Part 60, Subpart J	60J-HTR-73to07	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 11, 1973 and on or before May 14, 2007. Monitoring Device = No instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere.
BLRHT006	40 CFR Part 63, Subpart DDDDD	63DDDDD-BLR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
BLRHT010	30 TAC Chapter 117, Subchapter B	TX-117B-NG	Unit Type = Other industrial, commercial, or institutional boiler. Maximum Rated Capacity = MRC is greater than or equal to 250 MMBtu/hr. Fuel Type #1 = Natural gas. Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average. NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]. EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Emission Limit Average = Comply with the applicable emission limit in pounds/hour on a using block one-hour average.

Unit ID	Regulation	Index Number	Basis of Determination*
			NOx Reductions = No NO_x reduction. NOx Monitoring System = Continuous emissions monitoring system. Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.125(a), 117.325(a) or 117.425(a). CO Monitoring System = Continuous emissions monitoring system.
BLRHT010	30 TAC Chapter 117, Subchapter B	TX-117B-RG	Unit Type = Other industrial, commercial, or institutional boiler. Maximum Rated Capacity = MRC is greater than or equal to 250 MMBtu/hr. Fuel Type #1 = Gaseous fuel other than natural gas landfill gas or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average. NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]. EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Emission Limit Average = Comply with the applicable emission limit in pounds/hour on a using block one-hour average. NOx Reductions = No NO_x reduction. NOx Monitoring System = Continuous emissions monitoring system. Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.125(a), 117.325(a) or 117.425(a). CO Monitoring System = Continuous emissions monitoring system.
BLRHT010	30 TAC Chapter 117, Subchapter B	TX-117C-BLR10	NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(2) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]. 310A2-Option = Install and certify a NO_x CEMS or PEMS per § 117.310(a)(2)(C). NOx Monitoring System = Continuous emissions monitoring system. NOx Emission Limit Average = Emission limit in pounds/hour on a block one-hour average. Supplemental Fuel = The fluid catalytic cracking unit boiler is using supplemental fuel and thus requires a totalizing fuel flow meter. Fuel Flow Monitoring = Fuel flow is with a totalizing fuel flow meter per 30 TAC § 117.340(a). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option. CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1). Ammonia NOx Reduction = Urea or ammonia is not injected into the exhaust stream for NO_x control.
BLRHT010	40 CFR Part 60, Subpart D	60D-3	Construction/Modification Date = On or before August 17, 1971.

Unit ID	Regulation	Index Number	Basis of Determination*
BLRHT010	40 CFR Part 60, Subpart Db	60DB-3	Construction/Modification Date = On or before June 19, 1984.
BLRHT010	40 CFR Part 60, Subpart J	60J-HTR<1973	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = On or before June 11, 1973.
C3UL	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-LPG	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal. Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Liquefied petroleum gas (LPG) Transfer Type = Only unloading. True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Chapter 115 Control Device Type = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system. Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
COATINGS	30 TAC Chapter 115, Surface Coating Operations	R5421-1	Alternative Compliance Method = No alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria has been approved by the TCEQ Executive Director under 30 TAC § 115.423(2), § 115.423(3)(A) or § 115.423(4). Facility Operations = Other miscellaneous metal parts and products coating. Maintenance Shop = Recoating used miscellaneous metal parts and products at an on-site maintenance shop that began operations before January 1, 2012. VOC Emission Rate = All surface coating operations on a property, when uncontrolled, emit a combined weight of less than 3 lb/hr and less than 15 lb/24-hr period.
CPI	30 TAC Chapter 115, Industrial Wastewater	TX-115-WW-C	Petroleum Refinery = The affected source category is a petroleum refinery. Alternate Control Requirement = An alternate control requirement (ACR) or exemption criteria in accordance with 30 TAC § 115.910 is not used. 90% Overall Control Option = The unit is complying with the control requirements of 30 TAC § 115.142. Safety Hazard Exemption = No safety hazard exemption has been requested or none has been approved. Wastewater Component Type = The component is not a wet weather retention basin, exempted by §115.147(2), not a biotreatment unit. Roof or Seal Type = The wastewater component does not have a floating roof or internal floating roof. Control Devices = Carbon adsorber. Monitoring Type = The TCEQ Executive Director has approved other monitoring methods for the emission control device or other devices installed, in lieu of the monitoring requirements of 30 TAC §§ 115.144(3)(A) - (H).
CPI	30 TAC Chapter 115, Water Separation	TX-115-WS-VAP	Alternate Control Requirement = The executive director (or the EPA Administrator) has not approved an ACR or exemption criteria in accordance with 30 TAC § 115.910. Exemption = Water separator does not qualify for exemption.

Unit ID	Regulation	Index Number	Basis of Determination*
			Emission Control Option = Vapor recovery system which satisfies the provisions of 30 TAC § 115.131. Control Device = Carbon adsorption system.
CPI	40 CFR Part 60, Subpart QQQ	60QQQ<87	Construction/Modification Date = ON OR BEFORE MAY 4, 1987
CRUHT001	30 TAC Chapter 117, Subchapter B	TX117B>200	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than or equal to 200 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than 2.2 (10^{11}) Btu/yr, based on a rolling 12-month average. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater operates with a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Post combustion control technique with ammonia injection NOx Monitoring System = Continuous emissions monitoring system Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125(a) or 117.425(a) CO Monitoring System = Continuous emissions monitoring system NH3 Emission Limitation = Title 30 TAC § 117.310(c)(2) NH3 Monitoring = Mass balance
CRUHT001	40 CFR Part 60, Subpart J	60J-HTR<1973	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = On or before June 11, 1973.
CRUHT001	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
CRUHT002	30 TAC Chapter 117, Subchapter B	TX117B-100-200	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than 2.2 (10^{11}) Btu/yr, based on a rolling 12-month average. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater operates with a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Post combustion control technique with ammonia injection

Unit ID	Regulation	Index Number	Basis of Determination*
			NOx Monitoring System = Continuous emissions monitoring system Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125(a) or 117.425(a) CO Monitoring System = Continuous emissions monitoring system NH3 Emission Limitation = Title 30 TAC § 117.310(c)(2) NH3 Monitoring = Mass balance
CRUHT002	40 CFR Part 60, Subpart J	60J-HTR<1973	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = On or before June 11, 1973.
CRUHT002	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
CRUHT004	30 TAC Chapter 117, Subchapter B	TX117B-<40	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than 2 MMBtu/hr but less than 40 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater does not use a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Induced flue gas recirculation NOx Monitoring System = Maximum emission rate testing [in accordance with 30 TAC § 117.8000] Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125(a) or 117.425(a) CO Monitoring System = Emissions are monitored using method other than CEMS or PEMS.
CRUHT004	40 CFR Part 60, Subpart J	60J-HTR>2007	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After May 14, 2007.
CRUHT004	40 CFR Part 60, Subpart Ja	60JA-CRUHT	Facility Type = Process heater that is used for fuel gas combustion. Construction/Modification Date = After June 24, 2008 Sulfur Emission Limit = Owner or operator is choosing Sulfur Emission Limit in terms of ppmv H2S in fuel gas §60.107a(b) Exemption = The fuel gas combustion device is not eligible for the exemption in §60.107a(b)

Unit ID	Regulation	Index Number	Basis of Determination*
			Common Source of Fuel Gas = The fuel gas combustion device uses a common source of gas as described in §60.107a(a)(2)(iv) Alternative Standard = The process heater does not meet the criteria or has not requested approval from the Administrator for a NOX emissions limit as described in §60.102a(i) Heater Capacity = The process heater is rated equal to or less than 40 MMBtu/hr
CRUHT004	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
CRUVT001	30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	R5311-1	Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate control requirement for demonstrating and documenting compliance or no such alternate has been requested. Steam Ejection or Mechanical Vacuum Pump = The vacuum-producing system contains a steam ejector or mechanical vacuum pump. Hotwell with a Contact Condenser = The vacuum-producing system does not contain a hotwell with a contact condenser. Control Device = Any other vapor recovery system.
D-593	40 CFR Part 61, Subpart FF	61FF-5	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is not complying with the alternative standards in 40 CFR § 61.351. Alternative Means of Compliance = Not using an alternate means of compliance to meet the requirements of 40 CFR § 61.343 for tanks. Tank Control Requirements = The tank has a fixed roof and closed vent system routing vapors to either a fuel gas system or control device. Fuel Gas System = Gaseous emissions from the tank or enclosure are not routed to a fuel gas system. Cover and Closed Vent = The cover and closed vent system are not operated such that the tank is maintained at a pressure less than atmospheric pressure and meets the conditions of 40 CFR § 61.343(a)(1)(i)(C)(1)-(3). Closed Vent System and Control Device AMOC = Not using an alternate means of compliance Bypass Line = The closed vent system contains any by-pass line that could divert the vent stream away from the control device. Bypass Line Valve = A flow indicator is used to monitor the by-pass line. Control Device Type/Operation = Carbon adsorption system that regenerates the carbon bed directly in the control device and has a continuous recorder to measure exhaust concentration Engineering Calculations = Engineering calculations show that the control device is proven to achieve its emission limitation. Alternate Monitoring Parameters = Alternate monitoring parameters not requested
D-599	40 CFR Part 63, Subpart EEEE	63EEEE	Product Stored = Organic HAP containing liquid other than crude oil.
DESALTER	30 TAC Chapter 115, Industrial Wastewater	TX-115-WW-BSU	Petroleum Refinery = The affected source category is a petroleum refinery. Alternate Control Requirement = An alternate control requirement (ACR) or exemption criteria in accordance with 30 TAC § 115.910 is not used.

Unit ID	Regulation	Index Number	Basis of Determination*
			90% Overall Control Option = The unit is complying with the control requirements of 30 TAC § 115.142. Safety Hazard Exemption = No safety hazard exemption has been requested or none has been approved. Wastewater Component Type = The component is not a wet weather retention basin, exempted by §115.147(2), not a biotreatment unit. Roof or Seal Type = The wastewater component does not have a floating roof or internal floating roof. Control Devices = Steam stripper. Monitoring Type = The TCEQ Executive Director has approved other monitoring methods for the emission control device or other devices installed, in lieu of the monitoring requirements of 30 TAC §§ 115.144(3)(A) - (H).
DOKIN001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MR>0.5L	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only loading. True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals. Control Options = Vapor control system that maintains a control efficiency of at least 90%. Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected. Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B).
DOKIN001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MR>0.5U	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only unloading. True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals. Control Options = Vapor control system that maintains a control efficiency of at least 90%. Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
DOKIN001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MRGasL	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Gasoline Transfer Type = Only loading.

Unit ID	Regulation	Index Number	Basis of Determination*
			True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals. Control Options = Vapor control system that maintains a control efficiency of at least 90%. Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected. Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B).
DOKIN001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MRGasU	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Gasoline Transfer Type = Only unloading. True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals. Control Options = Vapor control system that maintains a control efficiency of at least 90%. Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
DOKIN001	40 CFR Part 63, Subpart Y	63Y-UL	Subpart Y Facility Type = Existing onshore loading terminal (located onshore or less than 0.5 miles from shore). Ballasting Operations = Operations other than or in addition to ballasting operations are performed at the facility. Vapor Pressure = Vapor pressure is greater than or equal to 10.3 kilopascals (1.5 psia) at standard conditions, 20° C and 760 mm Hg. Subpart BB Applicability = Marine vessel loading operations are not subject to and complying with 40 CFR Part 61, Subpart BB. Material Loaded = Both gasoline and crude oil. HAP Impurities Only = Marine vessel loading operations at loading berths transfer liquids containing organic hazardous air pollutants other than as impurities. Source Emissions = Source with emissions less than 10 and 25 tons. Throughput = Source with throughput less than 10 M barrels and 200 M barrels.
DOKLO001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MR<0.5L	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only loading. True Vapor Pressure = True vapor pressure less than 0.5 psia.

Unit ID	Regulation	Index Number	Basis of Determination*
DOKLO001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MR<0.5U	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only unloading. True Vapor Pressure = True vapor pressure less than 0.5 psia.
DOKLO001	40 CFR Part 63, Subpart CC	63CC-ML-VCU	Specified in 63.640(g)(1)-(6) = The gasoline loading rack or marine vessel loading operation is not part of a process specified in 40 CFR § 63.640(g)(1) - (6). Subject to 40 CFR Part 63, Subparts F, G, H or I = The gasoline loading rack or marine vessel loading operation is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Unit Type = Marine vessel loading operation at a petroleum refinery meeting the applicability criteria of 40 CFR § 63.560. Vapor Processing System = Vapor processing system, other than carbon adsorption, condenser, thermal oxidizer, or flare
EMGEN001	30 TAC Chapter 117, Subchapter B	TX-117B-EM2001+	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
EMGEN001	40 CFR Part 60, Subpart IIII	60IIII-EXEMPT	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before 07/11/2005.
EMGEN001	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-NOTIFY	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after December 19, 2002, but before June 12, 2006. Service Type = 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).
EMGEN002	30 TAC Chapter 117, Subchapter B	TX-117B-EM2001+	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
EMGEN002	40 CFR Part 60, Subpart IIII	60IIII-EMEN-07-	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is an emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured prior to model year 2007.

Unit ID	Regulation	Index Number	Basis of Determination*
			Kilowatts = Power rating is greater than or equal to 130 KW and less than or equal to 2237 KW. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Standard = The emergency CI ICE does not meet the Tier 1, 2, 3, or 4 standards applicable to non-emergency engines (for the same KW and model year) Compliance Option = Records are being kept of manufacturer data according to §60.4211(b)(3).
EMGEN002	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-NOTIFY2	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = 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).
EMGEN006	30 TAC Chapter 117, Subchapter B	TX-117B-EM2001+	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
EMGEN006	40 CFR Part 60, Subpart IIII	60IIII-EMEN-10S	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is an emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured in model year 2010. Kilowatts = Power rating is greater than or equal to 75 KW and less than 130 KW. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Standard = The emergency CI ICE does not meet the Tier 1, 2, 3, or 4 standards applicable to non-emergency engines (for the same KW and model year) Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
EMGEN006	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-EXEMPT	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than or equal to 100 HP and less than 250 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = 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).

Unit ID	Regulation	Index Number	Basis of Determination*
EMGEN007	30 TAC Chapter 117, Subchapter B	TX-117B-EM2001+	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
EMGEN007	40 CFR Part 60, Subpart IIII	60IIII-EMEN-11S	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is an emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured in model year 2011. Kilowatts = Power rating is greater than or equal to 75 KW and less than 130 KW. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Standard = The emergency CI ICE does not meet the Tier 1, 2, 3, or 4 standards applicable to non-emergency engines (for the same KW and model year) Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
EMGEN007	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-EXEMPT	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than or equal to 100 HP and less than 250 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = 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).
EMWWEN1	30 TAC Chapter 117, Subchapter B	TX-117B-EM2001+	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
EMWWEN1	40 CFR Part 60, Subpart IIII	60IIII-EMEN-10M	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is an emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine.

Unit ID	Regulation	Index Number	Basis of Determination*
			Model Year = CI ICE was manufactured in model year 2010. Kilowatts = Power rating greater than or equal to 130 KW and less than or equal to 368 KW. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Standard = The emergency CI ICE does not meet the Tier 1, 2, 3, or 4 standards applicable to non-emergency engines (for the same KW and model year) Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
EMWWEN1	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-EXEMPT	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than or equal to 100 HP and less than 250 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = 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).
FCCHT002	30 TAC Chapter 117, Subchapter B	TX117B-400ppmCO	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than 2.8 (10^{11}) Btu/yr, based on a rolling 12-month average. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater does not use a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = No NO_x reduction NOx Monitoring System = Maximum emission rate testing [in accordance with 30 TAC § 117.8000] Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option CO Monitoring System = Emissions are monitored using method other than CEMS or PEMS.
FCCHT002	40 CFR Part 60, Subpart J	60J-HTR<1973	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = On or before June 11, 1973.
FCCHT002	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
FLRFNEAST	30 TAC Chapter 111, Visible Emissions	R1111-01	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1. Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions. Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.

Unit ID	Regulation	Index Number	Basis of Determination*
			Construction Date = Newest source routing emissions to the flare began construction after January 31, 1972.
FLRFNEAST	30 TAC Chapter 115, HRVOC Vent Gas	R5720-01	Out of Service = Flare was not permanently out of service by April 1, 2006. Total Gas Stream = Flare receives a total gas stream with greater than 100 ppmv HRVOC at some time. Gas Stream Concentration = Flare receives a gas stream containing 5% or greater HRVOC by weight at some time. Alternative Monitoring Approach = No alternative monitoring approaches as outlined in 115.725(m)(1) or 115.725(m)(2) are used. Modifications to Testing/Monitoring = No modifications to test methods or monitoring methods specified in this section. Flare Type = Flare is in multi-purpose service. Monitoring Requirements = Flare is complying with the continuous monitoring requirements of § 115.725(d). Tank Service = Flare is not in dedicated service for storage tanks with 95% or greater of an individual HRVOC.
FLRFNEAST	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-FLARE	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is controlled by a flare.
FLRFNEAST	30 TAC Chapter 115, Vent Gas Controls	TX-115-VT	Chapter 115 Division = The vent stream originates from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
FLRFNEAST	40 CFR Part 60, Subpart J	60J-FLARE	Facility Type = Flare that is used for fuel gas combustion located at a petroleum refinery, that does NOT meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 24, 2008.
FLRFNEAST	40 CFR Part 60, Subpart Ja	60JA-FLARE	Facility Type = Flare that is used for fuel gas combustion. Construction/Modification Date = After June 24, 2008 AMEL = Not using an alternate means of emission limitation (AMEL) as it pertains to 40 CFR Part 60, Subpart Ja Alternative Monitoring = The flare meets the requirements and complies with the alternative monitoring mentioned in §60.107a(g) §60.107a(e)(4) Exemption = The flare is not eligible for the exemption in §60.107a(e)(4) §60.107a(a)(3) Exemption = The flare is not eligible for the exemption in §60.107a(a)(3) Common Source of Fuel Gas = The flare uses a common source of gas as described in §60.107a(a)(2)(iv) Modified Flare = The flare is considered as a modified flare Cascaded Flare System = The flare is not used as a part of a cascaded flare system
FLRFNEAST	40 CFR Part 63, Subpart CC	63CC-01	Flare Control Device = Flare controls an emission point subject to 40 CFR Part 63, Subpart CC Operating Limits = Flare complies with operating parameters and values in § 63.670(d)-(f) Flare Tip Velocity = Flare tip velocity is less than 60 feet per second (ft/s) Perimeter Assist Air = Flare does not receive perimeter assist air

Unit ID	Regulation	Index Number	Basis of Determination*
FLRFNWEST	30 TAC Chapter 111, Visible Emissions	R1111-01	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1. Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions. Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Construction Date = Newest source routing emissions to the flare began construction after January 31, 1972.
FLRFNWEST	30 TAC Chapter 115, HRVOC Vent Gas	R5720-01	Out of Service = Flare was not permanently out of service by April 1, 2006. Total Gas Stream = Flare receives a total gas stream with greater than 100 ppmv HRVOC at some time. Gas Stream Concentration = Flare receives a gas stream containing 5% or greater HRVOC by weight at some time. Alternative Monitoring Approach = No alternative monitoring approaches as outlined in 115.725(m)(1) or 115.725(m)(2) are used. Modifications to Testing/Monitoring = No modifications to test methods or monitoring methods specified in this section. Flare Type = Flare is in multi-purpose service. Monitoring Requirements = Flare is complying with the continuous monitoring requirements of § 115.725(d). Tank Service = Flare is not in dedicated service for storage tanks with 95% or greater of an individual HRVOC.
FLRFNWEST	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-FLARE	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is controlled by a flare.
FLRFNWEST	30 TAC Chapter 115, Vent Gas Controls	TX-115-VT	Chapter 115 Division = The vent stream originates from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
FLRFNWEST	40 CFR Part 60, Subpart J	60J-FLARE	Facility Type = Flare that is used for fuel gas combustion located at a petroleum refinery, that does NOT meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 24, 2008.
FLRFNWEST	40 CFR Part 60, Subpart Ja	60JA-FLARE	Facility Type = Flare that is used for fuel gas combustion. Construction/Modification Date = After June 24, 2008 AMEL = Not using an alternate means of emission limitation (AMEL) as it pertains to 40 CFR Part 60, Subpart Ja Alternative Monitoring = The flare meets the requirements and complies with the alternative monitoring mentioned in §60.107a(g) §60.107a(e)(4) Exemption = The flare is not eligible for the exemption in §60.107a(e)(4) §60.107a(a)(3) Exemption = The flare is not eligible for the exemption in §60.107a(a)(3) Common Source of Fuel Gas = The flare uses a common source of gas as described in §60.107a(a)(2)(iv) Modified Flare = The flare is considered as a modified flare Cascaded Flare System = The flare is not used as a part of a cascaded flare system
FLRFNWEST	40 CFR Part 63, Subpart CC	63CC-01	Flare Control Device = Flare controls an emission point subject to 40 CFR Part 63, Subpart CC Operating Limits = Flare complies with operating parameters and values in § 63.670(d)-(f)

Unit ID	Regulation	Index Number	Basis of Determination*
			Flare Tip Velocity = Flare tip velocity is less than 60 feet per second (ft/s) Perimeter Assist Air = Flare does not receive perimeter assist air
FUELDISP	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-Motor	Chapter 115 Facility Type = Motor vehicle fuel dispensing facility
FUGCTALK	30 TAC Chapter 115, HRVOC Cooling Towers	TX-115H-CT>8000	Cooling Tower Heat Exchange System Exemptions = The cooling tower heat exchange system does not qualify for an exemption. Alternative Monitoring = Alternative monitoring and testing methods approved by the executive director as allowed in § 115.764(f) are being used. Modified Monitoring = Minor modifications to the monitoring and testing methods approved by the executive director as allowed in § 115.764(f) are being used. Jacketed Reactor = The cooling tower heat exchange system is not in dedicated service to a jacketed reactor. Design Capacity = Design capacity to circulate 8000 gpm or greater. Finite Volume System = The cooling tower heat exchange system is complying with the requirements in § 115.764(a). Flow Monitoring/Testing Method = Choosing to use the maximum potential flow rate based on the manufacturer's pump performance data in accordance with §115.764(e)(1). Total Strippable VOC = The cooling tower heat exchange system is complying with the requirements of § 115.764(a). On-Line Monitor = A continuous on-line monitor capable of providing total HRVOC and speciated HRVOCs in ppbw is being used.
FUGCTALK	40 CFR Part 63, Subpart CC	63CC-CT	Monitoring Exemptions = Heat exchange system is not exempt from leak monitoring Existing Source = The heat exchange system is at an existing source Heat Exchange System Type = Once-through heat exchange system
FUGCTCPX	30 TAC Chapter 115, HRVOC Cooling Towers	TX-115H-CT>8000	Cooling Tower Heat Exchange System Exemptions = The cooling tower heat exchange system does not qualify for an exemption. Alternative Monitoring = Alternative monitoring and testing methods approved by the executive director as allowed in § 115.764(f) are being used. Modified Monitoring = Minor modifications to the monitoring and testing methods approved by the executive director as allowed in § 115.764(f) are being used. Jacketed Reactor = The cooling tower heat exchange system is not in dedicated service to a jacketed reactor. Design Capacity = Design capacity to circulate 8000 gpm or greater. Finite Volume System = The cooling tower heat exchange system is complying with the requirements in § 115.764(a). Flow Monitoring/Testing Method = Choosing to use the maximum potential flow rate based on the manufacturer's pump performance data in accordance with §115.764(e)(1). Total Strippable VOC = The cooling tower heat exchange system is complying with the requirements of § 115.764(a). On-Line Monitor = A continuous on-line monitor capable of providing total HRVOC and speciated HRVOCs in ppbw is being used.

Unit ID	Regulation	Index Number	Basis of Determination*
FUGCTCPX	40 CFR Part 63, Subpart CC	63CC-CT	Monitoring Exemptions = Heat exchange system is not exempt from leak monitoring Existing Source = The heat exchange system is at an existing source Heat Exchange System Type = Once-through heat exchange system
FUGCTUDX	30 TAC Chapter 115, HRVOC Cooling Towers	TX-115H-CT<8000	Cooling Tower Heat Exchange System Exemptions = The cooling tower heat exchange system does not qualify for an exemption. Alternative Monitoring = Complying with the specified monitoring in 30 TAC § 115.764. Modified Monitoring = NOT USING MINOR MODIFICATIONS TO THE MONITORING AND TESTING METHODS IN 30 TAC § 115.764. Jacketed Reactor = The cooling tower heat exchange system is not in dedicated service to a jacketed reactor. Design Capacity = Design capacity to circulate less than 8000 gpm. Finite Volume System = The cooling tower heat exchange system is complying with the requirements in § 115.764(a). Flow Monitoring/Testing Method = Choosing to use the maximum potential flow rate based on the manufacturer's pump performance data in accordance with §115.764(e)(1). Total Strippable VOC = The cooling tower heat exchange system is complying with the requirements of § 115.764(a). On-Line Monitor = Speciated strippable HRVOC concentration is being determined by sampling.
FUGCTUDX	40 CFR Part 63, Subpart CC	63CC-CT	Monitoring Exemptions = Heat exchange system is not exempt from leak monitoring Existing Source = The heat exchange system is at an existing source Heat Exchange System Type = Once-through heat exchange system
GRP-ALKHT	30 TAC Chapter 117, Subchapter B	TX117B-40-100	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than 2.8 (10^{11}) Btu/yr, based on a rolling 12-month average. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater does not use a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Induced flue gas recirculation NOx Monitoring System = Maximum emission rate testing [in accordance with 30 TAC § 117.8000] Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125(a) or 117.425(a) CO Monitoring System = Emissions are monitored using method other than CEMS or PEMS.
GRP-ALKHT	40 CFR Part 60, Subpart J	60J-HTR-73to07	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 11, 1973 and on or before May 14, 2007.

Unit ID	Regulation	Index Number	Basis of Determination*
			Monitoring Device = No instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere.
GRP-ALKHT	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
GRP-CC2-1	40 CFR Part 63, Subpart CC	63CC-TK-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel. Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.
GRP-CC2-2	30 TAC Chapter 115, Storage of VOCs	TX-115B<1TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank does not require emission controls True Vapor Pressure = True vapor pressure is less than 1.0 psia
GRP-CC2-2	40 CFR Part 63, Subpart CC	63CC-TK-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel. Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.
GRP-CC2-3	30 TAC Chapter 115, Storage of VOCs	TX-115B<1TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank does not require emission controls True Vapor Pressure = True vapor pressure is less than 1.0 psia
GRP-CC2-3	40 CFR Part 63, Subpart CC	63CC-TK-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel.

Unit ID	Regulation	Index Number	Basis of Determination*
			Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.
GRP-CC2-4	30 TAC Chapter 115, Storage of VOCs	TX-115B<1TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank does not require emission controls True Vapor Pressure = True vapor pressure is less than 1.0 psia
GRP-CC2-4	40 CFR Part 63, Subpart CC	63CC-TK-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel. Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.
GRP-EMENW	30 TAC Chapter 117, Subchapter B	TX-117B-EMEN	Type of Service = Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC §§ 117.103(a)(6)(D), 117.203(a)(6)(D), 117.303(a)(6)(D) or 117.403(a)(7)(D)] Fuel Fired = Petroleum-based diesel fuel
GRP-EMENW	40 CFR Part 60, Subpart IIII	60IIII-EXEMPT	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before 07/11/2005.
GRP-EMENW	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-EMEN-M	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than or equal to 300 HP and less than or equal to 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Service Type = 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). Stationary RICE Type = Compression ignition engine
GRP-EMENW2005-	30 TAC Chapter 117, Subchapter B	TX-117B-EM2001+	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
GRP-EMENW2005-	40 CFR Part 60, Subpart IIII	60IIII-EXEMPT	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before 07/11/2005.
GRP-EMENW2005-	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-EMEN-M	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than or equal to 300 HP and less than or equal to 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after December 19, 2002, but before June 12, 2006.

Unit ID	Regulation	Index Number	Basis of Determination*
			Service Type = 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). Stationary RICE Type = Compression ignition engine
GRP-NEMENG-L	30 TAC Chapter 117, Subchapter B	TX-117B-NEM	Type of Service = SRIC engine not meeting an exemption Fuel Fired = Petroleum-based diesel fuel Engine Type = Lean-burn ESAD Date Placed in Service = Installed, modified, reconstructed or relocated on or after October 1, 2007. Diesel HP Rating = Horsepower rating is 300 hp or greater, but less than 600 hp. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) EGF System Cap Unit = Engine is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Averaging Method = Complying with the applicable emission limit using a block one-hour average. NOx Reduction = No NOx reduction NOx Monitoring System = Maximum emission rate testing in accordance with 30 TAC § 117.8000 Fuel Flow Monitoring = Unit is a diesel engine operating with a run time meter and using monthly fuel use records maintained for each engine per 30 TAC §§ 117.140(a)(2)(C), 117.340(a)(2)(C) or 117.440(a)(2)(C). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 3 g/hp-hr option CO Averaging Method = Complying with the applicable emission limit using a block one-hour average. CO Monitoring System = Emissions monitored by means other than a CEMS or PEMS.
GRP-NEMENG-L	40 CFR Part 60, Subpart IIII	60IIII-NEM-17+L	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is a non-emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured in model year 2017 or later. Kilowatts = Power rating is greater than 368 KW and less than 560 KW. Filter = The CI ICE is not equipped with a diesel particulate filter. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.

Unit ID	Regulation	Index Number	Basis of Determination*
GRP-NEMENG-L	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-NEM	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = Normal use. Stationary RICE Type = Compression ignition engine Different Schedule = Schedule specified in Subpart ZZZZ for submission of reports applies. Emission Limitation = Limiting formaldehyde concentration from the stationary RICE exhaust Performance Test = A performance test has been previously conducted that meets the conditions in 40 CFR § 63.6610(d)(1)-(5). Control Technique = Control technique other than an oxidation catalyst Operating Limits = Administrator has been petitioned to establish operating limitations during the initial performance test. Monitoring System = Monitoring system other than a CPMS or CEMS
GRP-NEMENG-S	30 TAC Chapter 117, Subchapter B	TX-117B-NEM-HP	Type of Service = SRIC engine not meeting an exemption Fuel Fired = Petroleum-based diesel fuel Engine Type = Lean-burn ESAD Date Placed in Service = Installed, modified, reconstructed or relocated on or after October 1, 2007. Diesel HP Rating = Horsepower rating is 50 hp or greater, but less than 100 hp. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) EGF System Cap Unit = Engine is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Averaging Method = Complying with the applicable emission limit using a block one-hour average. NOx Reduction = No NOx reduction NOx Monitoring System = Maximum emission rate testing in accordance with 30 TAC § 117.8000 Fuel Flow Monitoring = Unit is a diesel engine operating with a run time meter and using monthly fuel use records maintained for each engine per 30 TAC §§ 117.140(a)(2)(C), 117.340(a)(2)(C) or 117.440(a)(2)(C). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 3 g/hp-hr option CO Averaging Method = Complying with the applicable emission limit using a block one-hour average. CO Monitoring System = Emissions monitored by means other than a CEMS or PEMS.
GRP-NEMENG-S	40 CFR Part 60, Subpart IIII	60IIII-NEM-17+S	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is a non-emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder.

Unit ID	Regulation	Index Number	Basis of Determination*
			Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured in model year 2017 or later. Kilowatts = Power rating is greater than or equal to 37 KW and less than 56 KW. Filter = The CI ICE is not equipped with a diesel particulate filter. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
GRP-NEMENG-S	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-NEM-S	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP less than 100 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = Normal use. Stationary RICE Type = Compression ignition engine
GRP-REFHT	30 TAC Chapter 117, Subchapter B	TX117B-<40	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than 2 MMBtu/hr but less than 40 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater does not use a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Induced flue gas recirculation NOx Monitoring System = Maximum emission rate testing [in accordance with 30 TAC § 117.8000] Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125(a) or 117.425(a) CO Monitoring System = Emissions are monitored using method other than CEMS or PEMS.
GRP-REFHT	40 CFR Part 60, Subpart J	60J-HTR<1973	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = On or before June 11, 1973.
GRP-REFHT	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
GRP-TVTKS-1	30 TAC Chapter 115, Storage of VOCs	TX-115B-EFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Crude oil and/or condensate

Unit ID	Regulation	Index Number	Basis of Determination*
			Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
GRP-TVTKS-1	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
GRP-TVTKS-3	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
GRP-TVTKS-3	40 CFR Part 60, Subpart Kb	60Kb-PL	Product Stored = Petroleum liquid (other than petroleum or condensate) Storage Capacity = Capacity is greater than or equal to 39,890 gallons (151,000 liters) WW Tank Control = The storage vessel is not using 40 CFR 63, subpart WW to comply with 40 CFR 60, subpart Kb Maximum True Vapor Pressure = True vapor pressure is less than 0.5 psia Storage Vessel Description = Emission controls not required (fixed roof)
GRP-TVTKS-3	40 CFR Part 63, Subpart CC	63CC-TK63WWIFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6).

Unit ID	Regulation	Index Number	Basis of Determination*
			Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Two seals mounted one above the other Inspection Requirement = Not complying with the inspection requirement in §63.1063(c)(1)(ii)
GRP-TVTKS-5	30 TAC Chapter 115, Storage of VOCs	TX-115B>1.5TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
GRP-TVTKS-5	40 CFR Part 63, Subpart CC	63CC-TK824-63WW	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank does not use an unslotted guidepole Slotted Guidepole = Slotted guidepole has a pole wiper and pole sleeve per 40 CFR § 63.1063(a)(2)(viii)(B) Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal

Unit ID	Regulation	Index Number	Basis of Determination*
GRP-TVTKS-8	30 TAC Chapter 115, Storage of VOCs	TX-115B>1.5TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
GRP-TVTKS-8	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
GRP-TVTKS-9	30 TAC Chapter 115, Storage of VOCs	TX-115B-EFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Crude oil and/or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
GRP-TVTKS-9	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6).

Unit ID	Regulation	Index Number	Basis of Determination*
			Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
GRP-VT-63CC	40 CFR Part 63, Subpart CC	63CC-VT-GRP1	Specified in 40 CFR § 63.640(g)(1)-(6) = The miscellaneous process vent is not part of a process specified in 40 CFR § 63.640(g)(1) - (6). Subject to 40 CFR Part 63, Subparts F, G, H or I = The miscellaneous process vent is subject to 40 CFR Part 63, Subpart CC. Vent Type = Group 1 vent Control Device = Flare Divert Vent Stream = The miscellaneous process vent utilizes a vent system that contains no by-pass lines. Continuous Operating Parameter Alternative = The owner or operator is not using an alternative to the continuous operating parameter monitoring and recordkeeping provisions of 40 CFR § 63.655(i)
GRP-VT-CRU	30 TAC Chapter 111, Visible Emissions	TX-111<72-HF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = On or before January 31, 1972 Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.
GRP-VT-CRU	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-VT	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is uncontrolled. Alternative Monitoring = Not using alternative monitoring and testing methods. Minor Modification = Not using any minor modification to the monitoring and testing methods of the rule. Process Knowledge = Process knowledge and engineering calculations are used to determine HRVOC emissions during emission events and scheduled startup, shutdown, and maintenance activities.

Unit ID	Regulation	Index Number	Basis of Determination*
			Waived Testing = The executive director has not waived testing for identical vents. Testing Requirements = Meeting § 115.725(a).
GRP-VT-HTR<72	30 TAC Chapter 111, Visible Emissions	TX-111<72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = On or before January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
GRP-VT-HTR<72	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-VT	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is uncontrolled. Alternative Monitoring = Not using alternative monitoring and testing methods. Minor Modification = Not using any minor modification to the monitoring and testing methods of the rule. Process Knowledge = Process knowledge and engineering calculations are used to determine HRVOC emissions during emission events and scheduled startup, shutdown, and maintenance activities. Waived Testing = The executive director has not waived testing for identical vents. Testing Requirements = Meeting § 115.725(a).
GRP-VT-HTR>72	30 TAC Chapter 111, Visible Emissions	TX-111>72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
GRP-VT-HTR>72	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-VT	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is uncontrolled. Alternative Monitoring = Not using alternative monitoring and testing methods. Minor Modification = Not using any minor modification to the monitoring and testing methods of the rule. Process Knowledge = Process knowledge and engineering calculations are used to determine HRVOC emissions during emission events and scheduled startup, shutdown, and maintenance activities. Waived Testing = The executive director has not waived testing for identical vents.

Unit ID	Regulation	Index Number	Basis of Determination*
			Testing Requirements = Meeting § 115.725(a).
GRP-VT-LOWVOC	30 TAC Chapter 111, Visible Emissions	TX-111>72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
GRP-VT-LOWVOC	30 TAC Chapter 115, Vent Gas Controls	TX-115-VT<100#	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source. Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2. Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are potentially applicable, the vent is not specifically classified under the rule and the vent is complying with the requirements of another Division under contingency provisions. Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).
GRP-VT-LSG-REF	30 TAC Chapter 111, Visible Emissions	TX-111>72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
GRP-VT-VE<72	30 TAC Chapter 111, Visible Emissions	TX-111<72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = On or before January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
HTBLR010	30 TAC Chapter 111, Visible Emissions	TX-111-OPMON	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = A continuous emissions monitoring system (CEMS) capable of measuring the opacity of emissions is installed in the vent in accordance with 30 TAC § 111.111(a)(1)(C).

Unit ID	Regulation	Index Number	Basis of Determination*
			Construction Date = On or before January 31, 1972 Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute. Total Feed Capacity = Total feed capacity is greater than 20,000 barrels per day.
HTBLR010	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-VT	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is uncontrolled. Alternative Monitoring = Not using alternative monitoring and testing methods. Minor Modification = Not using any minor modification to the monitoring and testing methods of the rule. Process Knowledge = Process knowledge and engineering calculations are used to determine HRVOC emissions during emission events and scheduled startup, shutdown, and maintenance activities. Waived Testing = The executive director has not waived testing for identical vents. Testing Requirements = Meeting § 115.725(a).
HTREF201	30 TAC Chapter 111, Visible Emissions	TX-111>72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
HTREF201	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-VT	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is uncontrolled. Alternative Monitoring = Not using alternative monitoring and testing methods. Minor Modification = Not using any minor modification to the monitoring and testing methods of the rule. Process Knowledge = Process knowledge and engineering calculations are used to determine HRVOC emissions during emission events and scheduled startup, shutdown, and maintenance activities. Waived Testing = The executive director has not waived testing for identical vents. Testing Requirements = Meeting § 115.725(a).
HTREF2631	30 TAC Chapter 111, Visible Emissions	TX-111>72-HF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).

Unit ID	Regulation	Index Number	Basis of Determination*
			Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.
HTREF2631	30 TAC Chapter 115, HRVOC Vent Gas	TX-115-H-VT	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times. Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr). Vent Gas Stream Control = Vent gas stream is uncontrolled. Alternative Monitoring = Not using alternative monitoring and testing methods. Minor Modification = Not using any minor modification to the monitoring and testing methods of the rule. Process Knowledge = Process knowledge and engineering calculations are used to determine HRVOC emissions during emission events and scheduled startup, shutdown, and maintenance activities. Waived Testing = The executive director has not waived testing for identical vents. Testing Requirements = Meeting § 115.725(a).
INDOK001	30 TAC Chapter 111, Visible Emissions	TX-111>72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
INDOK001	30 TAC Chapter 115, Vent Gas Controls	TX-115-VT	Chapter 115 Division = The vent stream originates from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
INSRU001	30 TAC Chapter 111, Visible Emissions	TX-111<72-LF	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = On or before January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
LABWST	30 TAC Chapter 115, Storage of VOCs	TX-115B-LABWST	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is less than or equal to 1,000 gallons
LABWST	40 CFR Part 61, Subpart FF	61FF-LABWST	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF.

Unit ID	Regulation	Index Number	Basis of Determination*
			Alternative Standard for Tanks = The tank is not complying with the alternative standards in 40 CFR § 61.351. Alternative Means of Compliance = Not using an alternate means of compliance to meet the requirements of 40 CFR § 61.343 for tanks. Tank Control Requirements = The tank has a fixed roof and closed vent system routing vapors to either a fuel gas system or control device. Fuel Gas System = Gaseous emissions from the tank or enclosure are not routed to a fuel gas system. Closed Vent System and Control Device = A closed vent system and control device is used. Cover and Closed Vent = The cover and closed vent system are not operated such that the tank is maintained at a pressure less than atmospheric pressure and meets the conditions of 40 CFR § 61.343(a)(1)(i)(C)(1)-(3). Closed Vent System and Control Device AMOC = Not using an alternate means of compliance Bypass Line = The closed vent system does not contain any by-pass line that could divert the vent stream away from the control device. Control Device Type/Operation = Carbon adsorption system that does not regenerate the carbon bed directly in the control device Engineering Calculations = Engineering calculations show that the control device is proven to achieve its emission limitation. Carbon Replacement Interval = The carbon in the carbon adsorption system is replaced at a regular predetermined interval.
LOAD-UNLD	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C>0.5	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Loading and unloading. True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Loading less than 20,000 gallons per day.
LODOK001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MR<0.5L	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only loading. True Vapor Pressure = True vapor pressure less than 0.5 psia.
LODOK001	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-MR<0.5U	Chapter 115 Facility Type = Marine terminal Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only unloading. True Vapor Pressure = True vapor pressure less than 0.5 psia.
LSGHT001	30 TAC Chapter 117, Subchapter B	TX117B-310C	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than 2 MMBtu/hr but less than 40 MMBtu/hr

Unit ID	Regulation	Index Number	Basis of Determination*
			Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater does not use a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Induced flue gas recirculation NOx Monitoring System = Maximum emission rate testing [in accordance with 30 TAC § 117.8000] Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option CO Monitoring System = Emissions are monitored using method other than CEMS or PEMS.
LSGHT001	40 CFR Part 60, Subpart J	60J-HTR-73to07	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 11, 1973 and on or before May 14, 2007. Monitoring Device = No instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere.
LSGHT001	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
NEMENG004	30 TAC Chapter 117, Subchapter B	TX-117B-NEM	Type of Service = SRIC engine not meeting an exemption Fuel Fired = Petroleum-based diesel fuel Engine Type = Lean-burn ESAD Date Placed in Service = Installed, modified, reconstructed or relocated on or after October 1, 2007. Diesel HP Rating = Horsepower rating is 300 hp or greater, but less than 600 hp. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) EGF System Cap Unit = Engine is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Averaging Method = Complying with the applicable emission limit using a block one-hour average. NOx Reduction = No NOx reduction NOx Monitoring System = Maximum emission rate testing in accordance with 30 TAC § 117.8000 Fuel Flow Monitoring = Unit is a diesel engine operating with a run time meter and using monthly fuel use records maintained for each engine per 30 TAC §§ 117.140(a)(2)(C), 117.340(a)(2)(C) or 117.440(a)(2)(C). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 3 g/hp-hr option CO Averaging Method = Complying with the applicable emission limit using a block one-hour average. CO Monitoring System = Emissions monitored by means other than a CEMS or PEMS.
NEMENG004	40 CFR Part 60, Subpart IIII	60IIII-NEM-2013	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005.

Unit ID	Regulation	Index Number	Basis of Determination*
			Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is a non-emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured in model year 2013. Kilowatts = Power rating is greater than 368 KW and less than 560 KW. Filter = The CI ICE is not equipped with a diesel particulate filter. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
NEMENG004	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-NEM	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = Normal use. Stationary RICE Type = Compression ignition engine Different Schedule = Schedule specified in Subpart ZZZZ for submission of reports applies. Emission Limitation = Limiting formaldehyde concentration from the stationary RICE exhaust Performance Test = A performance test has been previously conducted that meets the conditions in 40 CFR § 63.6610(d)(1)-(5). Control Technique = Control technique other than an oxidation catalyst Operating Limits = Administrator has been petitioned to establish operating limitations during the initial performance test. Monitoring System = Monitoring system other than a CPMS or CEMS
NEMENG008	30 TAC Chapter 117, Subchapter B	TX-117B-NEM-HP	Type of Service = SRIC engine not meeting an exemption Fuel Fired = Petroleum-based diesel fuel Engine Type = Lean-burn ESAD Date Placed in Service = Installed, modified, reconstructed or relocated on or after October 1, 2007. Diesel HP Rating = Horsepower rating is 50 hp or greater, but less than 100 hp. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) EGF System Cap Unit = Engine is not used as an electric generating facility to generate electricity for sale to the electric grid. NOx Averaging Method = Complying with the applicable emission limit using a block one-hour average.

Unit ID	Regulation	Index Number	Basis of Determination*
			NOx Reduction = No NOx reduction NOx Monitoring System = Maximum emission rate testing in accordance with 30 TAC § 117.8000 Fuel Flow Monitoring = Unit is a diesel engine operating with a run time meter and using monthly fuel use records maintained for each engine per 30 TAC §§ 117.140(a)(2)(C), 117.340(a)(2)(C) or 117.440(a)(2)(C). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 3 g/hp-hr option CO Averaging Method = Complying with the applicable emission limit using a block one-hour average. CO Monitoring System = Emissions monitored by means other than a CEMS or PEMS.
NEMENG008	40 CFR Part 60, Subpart IIII	60IIII-NEM-2016	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Service = CI ICE is a non-emergency engine. Commencing = CI ICE was newly constructed after 07/11/2005 Manufacture Date = Date of manufacture was after 04/01/2006. Diesel = Diesel fuel is used. Displacement = Displacement is less than 10 liters per cylinder. Generator Set = The CI ICE is a generator set engine. Model Year = CI ICE was manufactured in model year 2016. Kilowatts = Power rating is greater than or equal to 37 KW and less than 56 KW. Filter = The CI ICE is not equipped with a diesel particulate filter. AECD = The CI ICE is not equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665 Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
NEMENG008	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-NEM-S	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP less than 100 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = Normal use. Stationary RICE Type = Compression ignition engine
OILDSUMP	40 CFR Part 61, Subpart FF	61FF-5	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is not complying with the alternative standards in 40 CFR § 61.351. Alternative Means of Compliance = Not using an alternate means of compliance to meet the requirements of 40 CFR § 61.343 for tanks. Tank Control Requirements = The tank has a fixed roof and closed vent system routing vapors to either a fuel gas system or control device. Fuel Gas System = Gaseous emissions from the tank or enclosure are not routed to a fuel gas system.

Unit ID	Regulation	Index Number	Basis of Determination*
			Cover and Closed Vent = The cover and closed vent system are not operated such that the tank is maintained at a pressure less than atmospheric pressure and meets the conditions of 40 CFR § 61.343(a)(1)(i)(C)(1)-(3). Closed Vent System and Control Device AMOC = Not using an alternate means of compliance Bypass Line = The closed vent system contains any by-pass line that could divert the vent stream away from the control device. Bypass Line Valve = A flow indicator is used to monitor the by-pass line. Control Device Type/Operation = Carbon adsorption system that regenerates the carbon bed directly in the control device and has a continuous recorder to measure exhaust concentration Engineering Calculations = Engineering calculations show that the control device is proven to achieve its emission limitation. Alternate Monitoring Parameters = Alternate monitoring parameters not requested
REFHT201	30 TAC Chapter 117, Subchapter B	TX117B-40-100	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than 2.8 (10^{11}) Btu/yr, based on a rolling 12-month average. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater does not use a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Induced flue gas recirculation NOx Monitoring System = Maximum emission rate testing [in accordance with 30 TAC § 117.8000] Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125(a) or 117.425(a) CO Monitoring System = Emissions are monitored using method other than CEMS or PEMS.
REFHT201	40 CFR Part 60, Subpart J	60J-HTR>2007	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After May 14, 2007.
REFHT201	40 CFR Part 60, Subpart Ja	60JA-REFHT	Facility Type = Process heater that is used for fuel gas combustion. Construction/Modification Date = After June 24, 2008 Sulfur Emission Limit = Owner or operator is choosing Sulfur Emission Limit in terms of ppmv H2S in fuel gas §60.107a(b) Exemption = The fuel gas combustion device is not eligible for the exemption in §60.107a(b) Common Source of Fuel Gas = The fuel gas combustion device uses a common source of gas as described in §60.107a(a)(2)(iv) Alternative Standard = The process heater does not meet the criteria or has not requested approval from the Administrator for a NOX emissions limit as described in §60.102a(i) Heater Capacity = The process heater is rated greater than 40 MMBtu/hr but less than 100MMBtu/hr

Unit ID	Regulation	Index Number	Basis of Determination*
			Heater Type = The unit is a natural draft process heater NOx Emission Limit = The owner or operator is choosing the NOx concentration emission limit Low NOx = The process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the alternative to the monitoring requirements in paragraphs §60.107a(c)(1) through (5) O2 Operating Curve = An oxygen operating curve is used rather than a single oxygen operating limit
REFHT201	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
REFHT2631	30 TAC Chapter 117, Subchapter B	TX117B>200FGR	Unit Type = Process heater Maximum Rated Capacity = MRC is greater than or equal to 200 MMBtu/hr Fuel Type #1 = Gaseous fuel other than natural gas, landfill gas, or renewable non-fossil fuel gases. Annual Heat Input = Annual heat input is greater than 2.2 (10^{11}) Btu/yr, based on a rolling 12-month average. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) Diluent CEMS = The process heater operates with a carbon dioxide CEMS to monitor diluent. NOx Emission Limit Basis = Complying with the applicable emission limit using a block one-hour average NOx Reduction = Induced flue gas recirculation NOx Monitoring System = Continuous emissions monitoring system Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option CO Monitoring System = Continuous emissions monitoring system
REFHT2631	40 CFR Part 60, Subpart J	60J-HTR-73to07	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 11, 1973 and on or before May 14, 2007. Monitoring Device = No instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere.
REFHT2631	40 CFR Part 63, Subpart DDDDD	63DDDDD-HTR	Commence = Source is existing (commenced construction or reconstruction on or before June 4, 2010) Table Applicability = The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr
REFUNLOAD	30 TAC Chapter 115, Loading and Unloading of VOC	R5211-4	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal. Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only unloading.

Unit ID	Regulation	Index Number	Basis of Determination*
			True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Loading less than 20,000 gallons per day.
REFUNLOAD	40 CFR Part 63, Subpart EEEE	63EEEE-3	Existing Source = Source is an existing source Transfer Operation = Transfer rack only unloads organic liquids
SRU001	30 TAC Chapter 112, Sulfur Compounds	REG2-SRUIN001	Sulfur Recovery Plant = The gas sweetening unit is using sulfur recovery. Stack Height = Effective stack height less than standard effective stack height.
SRU001	40 CFR Part 60, Subpart J	60J-SRU	Facility Type = Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems followed by incineration. Construction/Modification Date = After October 4, 1976 and on or before May 14, 2007.
SRUIN001	40 CFR Part 60, Subpart J	60J-HTR-73to07	Facility Type = Fuel gas combustion device, other than a flare, that does not meet requirements in §§ 60.105(a)(4)(iv) or 60.105(b). Construction/Modification Date = After June 11, 1973 and on or before May 14, 2007. Monitoring Device = No instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere.
SRU-UNLOAD	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-U<0.5	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal. Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only unloading. True Vapor Pressure = True vapor pressure less than 0.5 psia. Chapter 115 Control Device Type = No control device.
SRU-UNLOAD	40 CFR Part 63, Subpart EEEE	63EEEE-4	Existing Source = Source is an existing source Transfer Operation = Transfer rack only unloads organic liquids
TKFTK202	30 TAC Chapter 115, Storage of VOCs	TX-115B-OTHER	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Other than crude oil, condensate, or VOC
TKFTK202	40 CFR Part 60, Subpart K	60K-18	Construction/Modification Date = On or before June 11, 1973
TKFTK202	40 CFR Part 60, Subpart Kb	60Kb-OTHER	Product Stored = Stored product other than volatile organic liquid or petroleum liquid
TKFTK202	40 CFR Part 61, Subpart FF	61FF-TK-EFR	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351.

Unit ID	Regulation	Index Number	Basis of Determination*
			Kb Tank Type = Using an external floating roof that meets the requirements of 40 CFR § 60.112b(a)(2) Seal Type = Mechanical shoe primary seal
TKFTK202	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel. Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit. Product Stored = Volatile organic liquid other than crude oil, refined petroleum products or waste of variable or indeterminate composition Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,416 liters) Maximum TVP = True vapor pressure is less than 0.75 psia Storage Vessel Description = Pontoon-type or double-deck-type external floating roof a with mechanical shoe primary seal
TKFTK250	30 TAC Chapter 115, Storage of VOCs	TX-115B<1TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank does not require emission controls True Vapor Pressure = True vapor pressure is less than 1.0 psia
TKFTK250	30 TAC Chapter 115, Water Separation	TX-115-WS-ROOF	Alternate Control Requirement = The executive director (or the EPA Administrator) has not approved an ACR or exemption criteria in accordance with 30 TAC § 115.910. Exemption = Water separator does not qualify for exemption. Emission Control Option = The compartment is equipped with a floating roof or internal floating cover that rests on the contents and has closure seals to close space between the roof edge and tank wall with gauging and sampling devices that are vapor tight except when in use.
TKFTK250	40 CFR Part 61, Subpart FF	61FF-Kb	Alternate Means of Compliance = NO Alternative Standards for Oil-Water Separator = COMPLIANCE IS ACHIEVED WITH THE ALTERNATIVE STANDARDS IN 40 CFR 61.352. Floating Roof = A FLOATING ROOF MEETING THE REQUIREMENTS OF 40 CFR § 60.693-2(A) IS USED Floating Roof Portion Feasibility = OIL-WATER SEPARATOR IS COVERED COMPLETEY BY A FLOATING ROOF
TKFTK250	40 CFR Part 61, Subpart FF	61FF-TK-IFR2SL	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351. Kb Tank Type = Using a fixed roof and internal floating roof, that meets the requirements of 40 CFR § 60.112b(a)(1)

Unit ID	Regulation	Index Number	Basis of Determination*
			Seal Type = Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof.
TKFTK250	40 CFR Part 63, Subpart CC	63CC-TK63WWIFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe seal
TKFTK301	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK301	30 TAC Chapter 115, Water Separation	TX-115-WS-ROOF	Alternate Control Requirement = The executive director (or the EPA Administrator) has not approved an ACR or exemption criteria in accordance with 30 TAC § 115.910. Exemption = Water separator does not qualify for exemption. Emission Control Option = The compartment is equipped with a floating roof or internal floating cover that rests on the contents and has closure seals to close space between the roof edge and tank wall with gauging and sampling devices that are vapor tight except when in use.
TKFTK301	40 CFR Part 60, Subpart Kb	60Kb-VOL-IFR	Product Stored = Volatile organic liquid Storage Capacity = Capacity is greater than or equal to 39,890 gallons (151,000 liters) WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Storage Vessel Description = Fixed roof with an internal floating roof using a mechanical shoe seal Guidepole = Only an unslotted guidepole is used per 40 CFR §63.1063(a)(2)(vii)
TKFTK301	40 CFR Part 60, Subpart QQQ	60QQQ-Kb	Construction/Modification Date = AFTER MAY 4, 1987

Unit ID	Regulation	Index Number	Basis of Determination*
			Alternate Means of Emission Limitation = NO Alternative Standard = YES
TKFTK301	40 CFR Part 61, Subpart FF	61FF-Kb	Alternate Means of Compliance = NO Alternative Standards for Oil-Water Separator = COMPLIANCE IS ACHIEVED WITH THE ALTERNATIVE STANDARDS IN 40 CFR 61.352. Floating Roof = A FLOATING ROOF MEETING THE REQUIREMENTS OF 40 CFR § 60.693-2(A) IS USED Floating Roof Portion Feasibility = OIL-WATER SEPARATOR IS COVERED COMPLETEY BY A FLOATING ROOF
TKFTK301	40 CFR Part 61, Subpart FF	61FF-TK-IFR2SL	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351. Kb Tank Type = Using a fixed roof and internal floating roof, that meets the requirements of 40 CFR § 60.112b(a)(1) Seal Type = Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof.
TKFTK301	40 CFR Part 63, Subpart CC	63CC-TK63WWIFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Two seals mounted one above the other Inspection Requirement = Not complying with the inspection requirement in §63.1063(c)(1)(ii)
TKFTK309	30 TAC Chapter 115, Storage of VOCs	TX-115B<1TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank does not require emission controls True Vapor Pressure = True vapor pressure is less than 1.0 psia
TKFTK309	40 CFR Part 60, Subpart K	60K-25	Construction/Modification Date = On or before June 11, 1973

Unit ID	Regulation	Index Number	Basis of Determination*
TKFTK309	40 CFR Part 60, Subpart Kb	60Kb-OTHER-IFR	Product Stored = Stored product other than volatile organic liquid or petroleum liquid WW Tank Control = The storage vessel is not using 40 CFR 63, subpart WW to comply with 40 CFR 60, subpart Kb Maximum True Vapor Pressure = True vapor pressure is less than 0.5 psia
TKFTK309	40 CFR Part 61, Subpart FF	61FF-TK-IFR2SL	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351. Kb Tank Type = Using a fixed roof and internal floating roof, that meets the requirements of 40 CFR § 60.112b(a)(1) Seal Type = Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof.
TKFTK309	40 CFR Part 63, Subpart CC	63CC-TK-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel. Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit. Product Stored = Volatile organic liquid other than crude oil, refined petroleum products or waste of variable or indeterminate composition Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,416 liters) Maximum TVP = True vapor pressure is less than 0.75 psia
TKFTK328	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK328	30 TAC Chapter 115, Water Separation	TX-115-WS-ROOF	Alternate Control Requirement = The executive director (or the EPA Administrator) has not approved an ACR or exemption criteria in accordance with 30 TAC § 115.910. Exemption = Water separator does not qualify for exemption. Emission Control Option = The compartment is equipped with a floating roof or internal floating cover that rests on the contents and has closure seals to close space between the roof edge and tank wall with gauging and sampling devices that are vapor tight except when in use.
TKFTK328	40 CFR Part 61, Subpart FF	61FF-Kb	Alternate Means of Compliance = NO Alternative Standards for Oil-Water Separator = COMPLIANCE IS ACHIEVED WITH THE ALTERNATIVE STANDARDS IN 40 CFR 61.352. Floating Roof = A FLOATING ROOF MEETING THE REQUIREMENTS OF 40 CFR § 60.693-2(A) IS USED

Unit ID	Regulation	Index Number	Basis of Determination*
			Floating Roof Portion Feasibility = OIL-WATER SEPARATOR IS COVERED COMPLETEY BY A FLOATING ROOF
TKFTK328	40 CFR Part 61, Subpart FF	61FF-TK-EFR	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351. Kb Tank Type = Using an external floating roof that meets the requirements of 40 CFR § 60.112b(a)(2) Seal Type = Mechanical shoe primary seal
TKFTK328	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
TKFTK332	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK332	40 CFR Part 60, Subpart K	60K-33	Construction/Modification Date = On or before June 11, 1973
TKFTK332	40 CFR Part 63, Subpart CC	63CC-TKG1>11TVP	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660

Unit ID	Regulation	Index Number	Basis of Determination*
			True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is greater than or equal to 11.11 psi (76.6 kPa) Control Device Type = Non-combustion device other than an absorber, carbon adsorber, or condenser Prior Test = A prior design evaluation or performance test has not been previously conducted Negative Pressure = The closed vent system is not operated and maintained under negative pressure Bypass Lines = Closed vent system has no bypass lines
TKFTK342	30 TAC Chapter 115, Storage of VOCs	TK-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK342	30 TAC Chapter 115, Storage of VOCs	TX-115B-TK342	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Crude oil and/or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK342	40 CFR Part 60, Subpart K	60K-40	Construction/Modification Date = On or before June 11, 1973
TKFTK342	40 CFR Part 63, Subpart CC	63CC-TK63WWIFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Two seals mounted one above the other

Unit ID	Regulation	Index Number	Basis of Determination*
			Inspection Requirement = Not complying with the inspection requirement in §63.1063(c)(1)(ii)
TKFTK343	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK343	40 CFR Part 60, Subpart K	60K-41	Construction/Modification Date = On or before June 11, 1973
TKFTK343	40 CFR Part 63, Subpart CC	63CC-TK343-63WW	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank does not use an unslotted guidepole Slotted Guidepole = Slotted guidepole has a pole wiper and pole sleeve per 40 CFR § 63.1063(a)(2)(viii)(B) Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Two seals mounted one above the other Inspection Requirement = Not complying with the inspection requirement in §63.1063(c)(1)(ii)
TKFTK345	30 TAC Chapter 115, Storage of VOCs	TX-115B-OTHER	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Other than crude oil, condensate, or VOC
TKFTK345	40 CFR Part 61, Subpart FF	61FF-TK-EFR	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351. Kb Tank Type = Using an external floating roof that meets the requirements of 40 CFR § 60.112b(a)(2) Seal Type = Mechanical shoe primary seal
TKFTK345	40 CFR Part 63, Subpart CC	63CC-TK-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6).

Unit ID	Regulation	Index Number	Basis of Determination*
			Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 2 vessel. Group 2 Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.
TKFTK349	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device
TKFTK349	40 CFR Part 60, Subpart K	60K-43	Construction/Modification Date = On or before June 11, 1973
TKFTK349	40 CFR Part 63, Subpart CC	63CC-TK63WWIFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe seal
TKFTK350	30 TAC Chapter 115, Storage of VOCs	TX-115B>40K-IFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Tank using an internal floating roof (IFR) True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Control Device Type = Other control device

Unit ID	Regulation	Index Number	Basis of Determination*
TKFTK350	40 CFR Part 60, Subpart K	60K-44	Construction/Modification Date = On or before June 11, 1973
TKFTK350	40 CFR Part 63, Subpart CC	63CC-TK350-63WW	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An IFR is operated and maintained per 40 CFR § 63.1062(a)(1) Unslotted Guidepole = The tank does not use an unslotted guidepole Slotted Guidepole = Slotted guidepole has a pole wiper and pole sleeve per 40 CFR § 63.1063(a)(2)(viii)(B) Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe seal
TKFTK400	30 TAC Chapter 115, Industrial Wastewater	TX-115-WW-FRV	Petroleum Refinery = The affected source category is a petroleum refinery. Alternate Control Requirement = An alternate control requirement (ACR) or exemption criteria in accordance with 30 TAC § 115.910 is not used. 90% Overall Control Option = The unit is complying with the control requirements of 30 TAC § 115.142. Safety Hazard Exemption = No safety hazard exemption has been requested or none has been approved. Wastewater Component Type = The component is not a wet weather retention basin, exempted by §115.147(2), not a biotreatment unit. Roof or Seal Type = Floating roof or internal floating roof wastewater component with a vapor mounted primary seal.
TKFTK400	30 TAC Chapter 115, Storage of VOCs	TX-115B>1.5TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
TKFTK400	40 CFR Part 60, Subpart Kb	60Kb-VOL-EFR	Product Stored = Volatile organic liquid Storage Capacity = Capacity is greater than or equal to 39,890 gallons (151,000 liters)

Unit ID	Regulation	Index Number	Basis of Determination*
			WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Storage Vessel Description = Liquid-mounted seal or mechanical shoe seal, or a vapor-mounted seal and secondary seal complying with §63.1063(a)(1)(ii)(C) Guidepole = Only an unslotted guidepole is used per 40 CFR §63.1063(a)(2)(vii)
TKFTK400	40 CFR Part 61, Subpart FF	61FF-TK-EFR	Waste Treatment Tank = The tank manages, treats or stores a waste stream subject to 40 CFR Part 61, Subpart FF. Alternative Standard for Tanks = The tank is complying with the alternative standards in 40 CFR § 61.351. Kb Tank Type = Using an external floating roof that meets the requirements of 40 CFR § 60.112b(a)(2) Seal Type = Mechanical shoe primary seal
TKFTK400	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
TKFTK807	30 TAC Chapter 115, Storage of VOCs	TX-115B>1.5TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
TKFTK807	30 TAC Chapter 115, Storage of VOCs	TX-115B-EFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Crude oil and/or condensate Storage Capacity = Capacity is greater than 40,000 gallons

Unit ID	Regulation	Index Number	Basis of Determination*
			Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
TKFTK807	40 CFR Part 60, Subpart K	60K-47	Construction/Modification Date = On or before June 11, 1973
TKFTK807	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
TKFTK814	30 TAC Chapter 115, Storage of VOCs	TX-115B>1.5TVP	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = VOC other than crude oil or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
TKFTK814	40 CFR Part 63, Subpart CC	63CC-TKG1>11TVP	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I.

Unit ID	Regulation	Index Number	Basis of Determination*
			Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is greater than or equal to 11.11 psi (76.6 kPa) Control Device Type = Non-combustion device other than an absorber, carbon adsorber, or condenser Prior Test = A prior design evaluation or performance test has not been previously conducted Negative Pressure = The closed vent system is not operated and maintained under negative pressure Bypass Lines = Closed vent system has no bypass lines
TKFTK822	30 TAC Chapter 115, Storage of VOCs	TX-115B-EFR	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. Product Stored = Crude oil and/or condensate Storage Capacity = Capacity is greater than 40,000 gallons Tank Description = Welded tank using an external floating roof True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia Primary Seal = Mechanical shoe Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized Control Device Type = Other control device
TKFTK822	40 CFR Part 63, Subpart CC	63CC-TK63WWEFR	Specified in 40 CFR § 63.640(g)(1)-(6) = The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1)-(6). Subject to 40 CFR Part 63 Subparts F, G, H, or I = The storage vessel is not subject to 40 CFR Part 63, Subparts F, G, H, or I. Group 1 Storage Vessel = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641) Group 1 Applicability = The storage vessel is complying with 40 CFR Part 63, Subpart CC requirements in § 63.660 True Vapor Pressure = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa) Emission Standard = Storage vessel is complying with 40 CFR Part 63, Subpart WW WW Tank Control = An EFR is operated and maintained per 40 CFR § 63.1062(a)(2) Unslotted Guidepole = The tank uses an unslotted guidepole Slotted Guidepole = Storage vessel does not have a slotted guidepole Slotted Ladder = Storage vessel does not have a ladder with at least one slotted leg Seal Configuration = Mechanical shoe primary seal and a secondary seal
TKFTKD48	40 CFR Part 63, Subpart EEEE	63EEEE-5	Product Stored = Organic HAP containing liquid other than crude oil.

Unit ID	Regulation	Index Number	Basis of Determination*
TRRLOLPG	30 TAC Chapter 115, Loading and Unloading of VOC	TX-115C-L>0.5	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal. Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline. Transfer Type = Only loading. True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia. Daily Throughput = Loading less than 20,000 gallons per day.
TVCVSEAST	40 CFR Part 63, Subpart CC	63CCVV-48210	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO OPEN-ENDED VALVES OR LINES = YES OPEN-ENDED VALVES OR LINES EQUIVALENT EMISSION LIMITATION = NO OPEN-ENDED VALVES OR LINES COMPLYING WITH § 60.482-6 = YES VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE = YES 2.0% = The owner or operator is electing to comply with an allowable percentage of valves leaking equal to or less than 2.0% VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE EQUIVALENT EMISSION LIMITATION = NO VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE COMPLYING WITH § 60.482-7 = YES VALVES IN HEAVY LIQUID SERVICE = NO FLANGES AND OTHER CONNECTORS = YES FLANGES AND OTHER CONNECTORS EQUIVALENT EMISSION LIMITATION = NO FLANGES AND OTHER CONNECTORS COMPLYING WITH § 60.482-8 = YES VAPOR RECOVERY SYSTEM = NO ENCLOSED COMBUSTION DEVICE = NO FLARE = YES CLOSED VENT SYSTEMS = Closed-vent (or vapor collection) system complying with NSPS VV FLARE EQUIVALENT EMISSION LIMITATION = NO FLARE COMPLYING WITH §60.482-10 = YES
TVCVSWEST	40 CFR Part 63, Subpart CC	63CCVV-48210	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO OPEN-ENDED VALVES OR LINES = YES OPEN-ENDED VALVES OR LINES EQUIVALENT EMISSION LIMITATION = NO OPEN-ENDED VALVES OR LINES COMPLYING WITH § 60.482-6 = YES VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE = YES

Unit ID	Regulation	Index Number	Basis of Determination*
			2.0% = The owner or operator is electing to comply with an allowable percentage of valves leaking equal to or less than 2.0% VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE EQUIVALENT EMISSION LIMITATION = NO VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE COMPLYING WITH § 60.482-7 = YES VALVES IN HEAVY LIQUID SERVICE = NO FLANGES AND OTHER CONNECTORS = YES FLANGES AND OTHER CONNECTORS EQUIVALENT EMISSION LIMITATION = NO FLANGES AND OTHER CONNECTORS COMPLYING WITH § 60.482-8 = YES VAPOR RECOVERY SYSTEM = NO ENCLOSED COMBUSTION DEVICE = NO FLARE = YES CLOSED VENT SYSTEMS = Closed-vent (or vapor collection) system complying with NSPS VV FLARE EQUIVALENT EMISSION LIMITATION = NO FLARE COMPLYING WITH §60.482-10 = YES
TVFCCPROC	40 CFR Part 60, Subpart J	60J-FCCU	Facility Type = FCCU catalyst regenerator located at a petroleum refinery. Construction/Modification Date = On or before June 11, 1973. Contact Material = The FCCU catalyst regenerator has contact material that reacts with petroleum derivatives to improve feedstock quality in which the contact material is regenerated by burning off coke and/or other deposits. Discharged Gases = Gases discharged by the FCCU catalyst regenerator do not pass through an incinerator or waste heat boiler in which auxiliary or supplemental liquid or solid fossil fuel is burned. CO Monitoring = It has not been demonstrated to the Administrator that the average CO emissions are less than 50 ppm (dry basis).
TVFCCPROC	40 CFR Part 63, Subpart UUU	63UUU-FCC	CCU PM/Ni Emission Limitation = CCU subject to the NSPS for PM in 40 CFR § 60.102 and not electing § 60.100(e) complying with Table 1.1 to Subpart UUU CCU PM/Ni Control Device = Electrostatic Precipitator CCU PM/Ni Monitoring Method = Continuous Opacity Monitoring System. CCU CO Emission Limitation = CCU subject to the NSPS requirements for CO in 40 CFR § 60.103 or § 60.102a(b)(4) complying with Table 8.1 to Subpart UUU CCU CO Monitoring Method = Continuous Emissions Monitoring System for measuring CO concentration. CCU Bypass Line = Install and operate an automated system to detect flow in the bypass line (Option 1).
TVFUG-115VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-01	Title 30 TAC § 115.352 Applicable = The site contains a petroleum refinery, a synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process as defined in 30 TAC § 115.10 Less Than 250 Components at Site = Fugitive unit not located at site with less than 250 fugitive components. Weight Percent VOC = Components in the fugitive unit contact process fluids that contain less than 10% VOC by weight and process fluids that contains VOC at 10%, or greater, by weight. Reciprocating Compressors Or Positive Displacement Pumps = The fugitive unit has reciprocating compressors or positive displacement pumps used in natural gas/gasoline processing operations.

Unit ID	Regulation	Index Number	Basis of Determination*
			Rupture Disks = The fugitive unit has pressure relief valves equipped with rupture disks. Instrumentation Systems = The fugitive unit has instrumentation systems, as defined in 40 CFR § 63.161, that meet 40 CFR § 63.169. Sampling Connection Systems = The fugitive unit has sampling connection systems, as defined in 40 CFR § 63.161, that meet 40 CFR § 63.169. TVP 0.002 PSIA or Less = The fugitive unit has components or systems that contact a process fluid containing VOC having a true vapor pressure less than or equal to 0.002 psia at 68 degrees Fahrenheit. Process Drains = The fugitive unit has process drains. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for process drains or no alternate has been requested. Complying with 30 TAC § 115.352(1) = Process drains are complying with the requirements in 30 TAC § 115.352(1). TVP of Process Fluid VOC <= 0.044 PSIA AT 68° F = Process drains contact a process fluid containing VOC having a true vapor pressures less than or equal to 0.044 psia at 68 degrees Fahrenheit. TVP of Process Fluid VOC > 0.044 PSIA AT 68° F = Process drains contact a process fluid containing VOC having a TVP greater than 0.044 psia at 68 degrees Fahrenheit. Pressure Relief Valves = The fugitive unit contains pressure relief valves. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for pressure relief valves or no alternate has been requested. Complying with § 115.352(1) = Pressure relief valves are complying with § 115.352(1). TVP of Process Fluid VOC <= 0.044 psia at 68° F = Pressure relief valves contact a process fluid with a TVP of less than or equal to 0.044 psia at 68° F. TVP of Process Fluid VOC > 0.044 psia at 68° F = Pressure relief valves contact a process fluid with a TVP > 0.044 psia at 68° F. Open-ended Valves = The fugitive unit contains open-ended valves. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for open-ended valves or no alternate has been requested. Complying with § 115.352(1) = Open-ended valves and lines are complying with § 115.352(1). TVP of Process Fluid VOC <= 0.044 PSIA AT 68□° F = Open-ended valves or lines contact a process fluid containing VOC having a true vapor pressures less than or equal to 0.044 psia at 68 degrees Fahrenheit. TVP of Process Fluid VOC > 0.044 PSIA AT 68° F = Open-ended valves contact a process fluid containing VOC having a TVP greater than 0.044 psia at 68 degrees Fahrenheit. Valves (other than pressure relief and open-ended) = The fugitive unit contains valves other than pressure relief valves or open-ended valves or lines. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for valves or no alternate has been requested. Complying with § 115.352(1) = Valves are complying with § 115.352(1). TVP of Process Fluid VOC <= 0.044 psia at 68° F = Valves contact a process fluid with a TVP less than or equal to 0.044 psia at 68° F.

Unit ID	Regulation	Index Number	Basis of Determination*
			TVP of Process Fluid VOC > 0.044 psia at 68° F = Valves contact a process fluid with a TVP greater than 0.044 psia at 68° F. Flanges = The fugitive unit contains flanges. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for flanges or no alternate has been requested. Complying with 30 TAC § 115.352(1) = Flanges are complying with the requirements in 30 TAC § 115.352(1). TVP of Process Fluid VOC <= 0.044 PSIA AT 68□° F = Flanges contact a process fluid containing VOC having a true vapor pressures less than or equal to 0.044 psia at 68 degrees Fahrenheit. TVP of Process Fluid VOC > 0.044 PSIA AT 68° F = Flanges contact a process fluid containing VOC having a TVP greater than 0.044 psia at 68 degrees Fahrenheit. Agitators = The fugitive unit contains agitators. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for agitators or no alternate has been requested. Complying WIth § 115.352(1) = Agitators are complying with § 115.352(1). TVP of Process Fluid VOC <= 0.044 psia at 68° F = Agitators contact a process fluid with a TVP less than or equal to 0.044 psia at 68° F. TVP of Process Fluid VOC > 0.044 psia at 68° F = Agitators contact a process fluid with a TVP greater than 0.044 psia at 68° F. Compressor Seals = The fugitive unit contains compressor seals. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for compressor seals or no alternate has been requested. Complying with § 115.352(1) = Compressor seals are complying with the requirements in 30 TAC § 115.352(1). Hydrogen Content to Exceed 50% by Volume = Compressors are in hydrogen service and the hydrogen content can be reasonably expected to always exceed 50% by volume. Shaft Seal System = Compressors are equipped with a shaft sealing system that prevents or detects emission of VOC from the seal. TVP of Process Fluid VOC <= 0.044 PSIA AT 68□° F = Compressor seals contact a process fluid containing VOC having a true vapor pressure less than or equal to 0.044 psia at 68 degrees Fahrenheit. TVP of Process Fluid VOC > 0.044 psia at 68°F = Compressor seals contact a process fluid containing VOC having a true vapor pressure greater than 0.044 psia at 68 degrees Fahrenheit Pump Seals = The fugitive unit contains pump seals. Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for pump seals or no alternate has been requested. Complying with 30 TAC § 115.352(1) = Pump seals are complying with the requirements in 30 TAC § 115.352(1). Shaft Seal System = Pump seals are equipped with a shaft seal system that prevents or detects emission of VOC from the seal. TVP of Process Fluid VOC <= 0.044 psia at 68°F = Pump seals contact a process fluid containing VOC having a true vapor pressures less than or equal to 0.044 psia at 68 degrees Fahrenheit

Unit ID	Regulation	Index Number	Basis of Determination*
			TVP of Process Fluid VOC > 0.044 psia at 68°F = Pump seals contact a process fluid containing VOC having a true vapor pressures greater than 0.044 psia at 68 degrees Fahrenheit.
TVFUG-63CC	40 CFR Part 63, Subpart CC	63CCVV-648	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO VACUUM SERVICE = YES PUMP IN LIGHT LIQUID SERVICE = YES PUMP EQUIVALENT EMISSION LIMITATION = NO PUMP COMPLYING WITH § 60.482-2 = YES PUMP IN HEAVY LIQUID SERVICE = YES PUMP EQUIVALENT EMISSION LIMITATION = NO PUMP COMPLYING WITH § 60.482-8 = YES COMPRESSOR IN HYDROGEN SERVICE = YES COMPRESSOR NOT IN HYDROGEN SERVICE = YES COMPRESSOR EQUIVALENT EMISSION LIMITATION = NO COMPRESSOR COMPLYING WITH § 60.482-3 = YES PRESSURE RELIEF DEVICE IN HEAVY LIQUID SERVICE = YES EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH § 60.482-8 = NO SAMPLING CONNECTION SYSTEMS = YES SAMPLING CONNECTION SYSTEM EQUIVALENT EMISSION LIMITATION = NO SAMPLING CONNECTION SYSTEMS COMPLYING WITH § 60.482-5 = YES OPEN-ENDED VALVES OR LINES = YES OPEN-ENDED VALVES OR LINES EQUIVALENT EMISSION LIMITATION = NO OPEN-ENDED VALVES OR LINES COMPLYING WITH § 60.482-6 = YES VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE = YES 2.0% = The owner or operator is not electing to comply with an allowable percentage of valves leaking equal to or less than 2.0% VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE EQUIVALENT EMISSION LIMITATION = NO VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE COMPLYING WITH § 60.482-7 = YES VALVES IN HEAVY LIQUID SERVICE = YES VALVES IN HEAVY LIQUID SERVICE EQUIVALENT EMISSION LIMITATION = NO VALVES IN HEAVY LIQUID SERVICE COMPLYING WITH § 60.482-8 = YES FLANGES AND OTHER CONNECTORS = YES FLANGES AND OTHER CONNECTORS EQUIVALENT EMISSION LIMITATION = NO FLANGES AND OTHER CONNECTORS COMPLYING WITH § 60.482-8 = YES

Unit ID	Regulation	Index Number	Basis of Determination*
			VAPOR RECOVERY SYSTEM = NO ENCLOSED COMBUSTION DEVICE = NO FLARE = YES CLOSED VENT SYSTEMS = Closed-vent (or vapor collection) system complying with NSPS VV FLARE EQUIVALENT EMISSION LIMITATION = NO FLARE COMPLYING WITH §60.482-10 = YES
TVFUG-63CCJ1	40 CFR Part 63, Subpart CC	63CCVV-648J1	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO PRESSURE RELIEF DEVICE IN GAS/VAPOR SERVICE = YES PRESSURE RELIEF DEVICES IN LIGHT LIQUID SERVICE = YES EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH §60.482-8 = NO PRESSURE RELIEF DEVICE IN HEAVY LIQUID SERVICE = NO SAMPLING CONNECTION SYSTEMS = NO Routing to Control = All leaks and releases from the pressure relief device are not routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i) 63.684(j)(5) Exemptions = The pressure relief device does not meet any condition in § 63.648(j)(5)(ii)-(vi) Pilot-Operated PRD = A pilot-operated pressure relief device is not used and controlled as described in § 63.648(j)(4)(ii) Balanced Bellows PRD = A balanced bellows pressure relied device is not used and controlled as described in §63.648(j)(4)(iii)
TVFUG-63CCJ2	40 CFR Part 63, Subpart CC	63CCVV-648J2	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO PRESSURE RELIEF DEVICE IN GAS/VAPOR SERVICE = YES PRESSURE RELIEF DEVICES IN LIGHT LIQUID SERVICE = NO EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH §60.482-8 = NO PRESSURE RELIEF DEVICE IN HEAVY LIQUID SERVICE = NO SAMPLING CONNECTION SYSTEMS = NO Routing to Control = All leaks and releases from the pressure relief device are not routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i) 63.684(j)(5) Exemptions = The pressure relief device does not meet any condition in § 63.648(j)(5)(ii)-(vi) Pilot-Operated PRD = A pilot-operated pressure relief device is not used and controlled as described in § 63.648(j)(4)(ii) Balanced Bellows PRD = A balanced bellows pressure relied device is not used and controlled as described in §63.648(j)(4)(iii)

Unit ID	Regulation	Index Number	Basis of Determination*
TVFUG-63CCJ3	40 CFR Part 63, Subpart CC	63CCVV-648J3	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO PRESSURE RELIEF DEVICE IN GAS/VAPOR SERVICE = YES PRESSURE RELIEF DEVICES IN LIGHT LIQUID SERVICE = YES EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH §60.482-8 = NO PRESSURE RELIEF DEVICE IN HEAVY LIQUID SERVICE = NO SAMPLING CONNECTION SYSTEMS = NO Routing to Control = All leaks and releases from the pressure relief device are not routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i) 63.684(j)(5) Exemptions = The pressure relief device does not meet any condition in § 63.648(j)(5)(ii)-(vi) Pilot-Operated PRD = A pilot-operated pressure relief device is not used and controlled as described in § 63.648(j)(4)(ii) Balanced Bellows PRD = A balanced bellows pressure relied device is not used and controlled as described in §63.648(j)(4)(iii)
TVFUG-63CCJ4	40 CFR Part 63, Subpart CC	63CCVV-648J4	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO PRESSURE RELIEF DEVICE IN GAS/VAPOR SERVICE = YES PRESSURE RELIEF DEVICES IN LIGHT LIQUID SERVICE = YES EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH §60.482-8 = NO PRESSURE RELIEF DEVICE IN HEAVY LIQUID SERVICE = NO SAMPLING CONNECTION SYSTEMS = NO Routing to Control = All leaks and releases from the pressure relief device are routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i) 63.684(j)(5) Exemptions = The pressure relief device does not meet any condition in § 63.648(j)(5)(ii)-(vi) Control Device Type = Flare Alternate Parameter Monitoring = Approval was not obtained to monitor an alternate parameter to those specified in § 63.644(a) Continuous Operating Parameter Alternative = An approved alternative to the continuous operating parameter provisions of § 63.655(i) is not used
TVFUG-63CCJ5	40 CFR Part 63, Subpart CC	63CCVV-648J5	EXISTING SOURCE = YES COMPLYING WITH TITLE 40 CFR 60 SUBPART VV = YES AMEL = NO PRESSURE RELIEF DEVICE IN GAS/VAPOR SERVICE = YES

Unit ID	Regulation	Index Number	Basis of Determination*
			PRESSURE RELIEF DEVICES IN LIGHT LIQUID SERVICE = YES EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH §60.482-8 = NO PRESSURE RELIEF DEVICE IN HEAVY LIQUID SERVICE = YES EQUIVALENT EMISSION LIMIT = NO COMPLYING WITH § 60.482-8 = NO SAMPLING CONNECTION SYSTEMS = NO Routing to Control = All leaks and releases from the pressure relief device are not routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i) 63.684(j)(5) Exemptions = The pressure relief device meets a condition in § 63.648(j)(5)(ii)-(vi)
TVFUG-63GGGGG	40 CFR Part 63, Subpart GGGGG	63GGGGG-7915	Means of Compliance = Equipment leak source is also subject to another subpart under 40 CFR part 61 or part 63 and complying with the applicable emission limitations and work practice standards in the other subpart
TVFUG-GGGA	40 CFR Part 60, Subpart GGGa	60GGGa-590a	Construction/Modification Date = After November 7, 2006 Affected Facility Covered by 40 CFR 60 Subparts VVa or KKK = Not subject to and controlled under any of the above regulations. Vacuum Service = Fugitive unit contains components in vacuum service. Pumps in Light Liquid Service = Fugitive unit contains pumps in light liquid service. EEL = No equivalent emission limitation is used for pumps in light liquid service. Complying with 60.482-2a = Pumps in light liquid service are complying with the requirements of § 60.482-2a. Pumps in Heavy Liquid Service = Fugitive unit contains pumps in heavy liquid service. EEL = No equivalent emission limitation is used for pumps in heavy liquid service. Complying with 60.482-8a = Pumps in heavy liquid service are complying with the requirements of § 60.482-8a. Compressors = Fugitive unit contains compressors. Compressors in Hydrogen Service = Fugitive unit contains compressors in hydrogen service. Reciprocating Compressors under 60.14 or 60.15 = Fugitive unit contains reciprocating compressors that became an affected facility under 40 CFR § 60.14 or § 60.15. EEL = No equivalent emission limitation is used for reciprocating compressors that became an affected facility under 40 CFR § 60.14 or § 60.15. Complying with 60.482-3a = Reciprocating compressors that became an affected facility under 40 CFR § 60.14 or § 60.15 are complying with the requirements of § 60.482-3a. Sampling Connection Systems = Fugitive unit contains sampling connection systems. EEL = No equivalent emission limitation is used for sampling connection systems. Complying with 60.482-5a = Sampling connection systems are complying with the requirements of § 60.482-5a. Open-Ended Valves or Lines = Fugitive unit contains open-ended valves. Open-Ended Valves or Lines Containing Asphalt = Fugitive unit does not contain open-ended valves or lines containing asphalt. EEL = No equivalent emission limitation is used for open-ended valves or lines containing asphalt.

Unit ID	Regulation	Index Number	Basis of Determination*
			Complying with 60.482-6a = Open-ended valves or lines containing asphalt are complying with the requirements of § 60.482-6a. Valves in Gas/Vapor or Light Liquid Service = Fugitive unit contains valves in gas/vapor or light liquid service. Valves with Alternative Compliance with 60.483-1a = The owner or operator is not electing to comply with an allowable percentage of valves leaking equal to or less than 2.0% under § 60.483-1a as an alternative to § 60.482-7a Valves with Alternative Compliance with 60.483-2a = The owner or operator is not electing to comply with the option to skip leak detection periods under § 60.483-2a as an alternative to § 60.482-7a Leakless Phase III Valves = The owner or operator is not electing to comply with Phase III provisions in § 63.168 as an alternative to § 60.482-7a EEL = No equivalent emission limitation is used for leakless phase III valves. Complying with 60.482-7a = Leakless phase III valves are complying with the requirements of § 60.482-7a. Valves in Heavy Liquid Service = Fugitive unit contains valves in heavy liquid service. EEL = No equivalent emission limitation is used for valves in heavy liquid service. Complying with 60.482-8a = Valves in heavy liquid service are complying with the requirements of § 60.482-8a. Pressure Relief Devices in Gas/Vapor Service = Fugitive unit does not contain pressure relief devices in gas/vapor service. Pressure Relief Devices in Light Liquid Service = Fugitive unit does not contain pressure relief devices in light liquid service. Pressure Relief Devices in Heavy Liquid Service = Fugitive unit contains pressure relief devices in heavy liquid service. EEL = No equivalent emission limitation is used for pressure relief devices in heavy or light liquid service. Complying with 60.482-8a = No pressure relief devices in heavy or light liquid service are complying with the requirements of § 60.482-8a. Connectors in Heavy Liquid Service = Fugitive unit contains connectors in heavy liquid service. EEL = No equivalent emission limitation is used for connectors in heavy liquid service. Complying with 60.482-8a = Connectors in heavy liquid service are complying with the requirements of § 60.482-8a. Connectors in Gas/Vapor or Light Liquid Service = Fugitive unit contains connectors in gas/vapor or light liquid service. Vapor Recovery System = Fugitive unit does not contain a vapor recovery system. EEL = No equivalent emission limitation is used for a vapor recovery system. Complying with 60.482-10a = Vapor recovery system is complying with the requirements of 60.482-10a. Enclosed Combustion Device = Fugitive unit does not contain an enclosed combustion device. Flare = Fugitive unit contains a flare. EEL = No equivalent emission limitation is used for a flare. Complying with 60.482-10a = Flares are complying with 60.482-10a. Closed-Vent (Or Vapor Collection) Systems = Fugitive unit contains a closed vent (or vapor collection) system. EEL = No equivalent emission limitation is used for a closed vent (or vapor collection) system. Complying with 60.482-10a = Closed vent (or vapor collection) system is complying with § 60.482-10a.

Unit ID	Regulation	Index Number	Basis of Determination*
TVFUG-HRVOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	R5780-01	Title 30 TAC §115.780 Applicable = The fugitive unit contains a defined process and Highly Reactive VOC. Less Than 250 Components at Site = The fugitive unit is located at a site with at least 250 fugitive components in VOC service. Weight Percent HRVOC = Components in the fugitive unit contact process fluids that contain less than 5.0% HRVOC by weight and process fluids that contain HRVOC at 5.0%, or greater, by weight on an annual average basis. Pumps with Shaft Seal System = Pumps are equipped with a shaft sealing system that prevents or detects emission of VOC from the seal. Compressors with Shaft Seal System = Compressors are equipped with a shaft sealing system that prevents or detects emission of VOC from the seal. Agitators with Shaft Seal System = Agitators are equipped with a shaft sealing system that prevents or detects emission of VOC from the seal. Process Drains = The fugitive unit contains process drains. ACR = No process drains are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Process drains are complying with the requirements of § 115.781(b)(9). Pressure Relief Valves = The fugitive unit contains pressure relief valves. ACR = No pressure relief valves are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Pressure relief valves are complying with the requirements of § 115.781(b)(9). Open-ended Valves or Lines = The fugitive unit contains open-ended valves or lines. ACR = No open-ended valves or lines are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Open-ended valves or lines are complying with the requirements of § 115.781(b)(9). Bypass Line Valves = The fugitive unit contains bypass line valves. ACR = No bypass line valves are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Bypass line valves are complying with the requirements of § 115.781(b)(9). Valves (not pressure relief, open-ended or bypass line valves) = The fugitive unit contains valves other than pressure relief, open-ended or bypass line valves. ACR = No valves (other than pressure relief, open-ended, and bypass line) are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Valves (other than pressure relief, open-ended, and bypass line) are complying with the requirements of § 115.781(b)(9). Flanges or Other Connectors = The fugitive unit contains flanges or other connectors. ACR = No flanges or other connectors are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Flanges or other connectors are complying with the requirements of § 115.781(b)(9). Compressor Seals = The fugitive unit contains compressor seals. ACR = No compressor seals are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Compressor seals are complying with the requirements of § 115.781(b)(9). Pump Seals = The fugitive unit contains pump seals. ACR = No pump seals are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Pump seals are complying with the requirements of § 115.781(b)(9). Agitators = The fugitive unit contains agitators.

Unit ID	Regulation	Index Number	Basis of Determination*
			ACR = No agitators are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Agitators are complying with the requirements of § 115.781(b)(9). Heat Exchanger Heads, etc. = The fugitive unit contains heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolter manways, hatches, sump covers, junction vent boxes or covers and seals on VOC water separators. ACR = No heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, or covers and seals on VOC water separators are complying with an alternate control requirement. Complying with § 115.781(b)(9) = Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, or covers and seals on VOC water separators are complying with the requirements of § 115.781(b)(9). Alternative Work Practice in § 115.358 = No components are complying with the alternative work practice requirements in 30 TAC § 115.358.
TVREF3PROC	40 CFR Part 63, Subpart UUU	63UUU-REF3	CRU TOC Emission Limitation = Reduce uncontrolled emissions of TOC or nonmethane TOC by 98% by weight or to a concentration of 20 ppmv (Option 2) complying with Table 15.2 to Subpart UUU CRU TOC Compliance Method = Complying with the TOC percent reduction limit. CRU TOC Control Device = Boiler with a design heat input capacity less equal to or greater than 44MW or which all vent streams are introduced into the flame zone CRU Engineering Assessment = Demonstrating compliance by performance test. CRU Alternate Monitoring = Not monitoring alternate parameters in accordance with § 63.1573(e) CRU HCl Emission Limitation = Existing cyclic or continuous CRU reducing uncontrolled emissions of HCl by 97% by weight or to a concentration of 10 ppmv complying with Table 22.2 to Subpart UUU CRU HCl Compliance Method = Complying with the HCl percent reduction limit CRU HCl Control Device = Wet Scrubber. CRU HCl Alt Monitoring = No alternate monitoring CRU Bypass Line = Seal the bypass line by installing a solid blind between piping flanges.
TVSRUPROC	40 CFR Part 63, Subpart UUU	63UUU-SRU	SRU Emission Limitation = New or existing Claus SRU subject to 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration complying with 250 ppmv SO_2 emission limit SRU Alternate Monitoring = Not monitoring alternate parameters in accordance with § 63.1573(e) SRU Startup/ShutdownEmissions = Startup/shutdown emissions sent to thermal incinerator SRU Bypass Line = No bypass line serving the SRU.
VTCCG2	40 CFR Part 63, Subpart CC	63CC-VT-GRP2	Specified in 40 CFR § 63.640(g)(1)-(6) = The miscellaneous process vent is not part of a process specified in 40 CFR § 63.640(g)(1) - (6). Subject to 40 CFR Part 63, Subparts F, G, H or I = The miscellaneous process vent is subject to 40 CFR Part 63, Subpart CC. Vent Type = Group 2 vent Engineering Assessment = Engineering assessment is used to determine the total organic compound emission rate for the representative operating condition expected to yield the highest daily emission rate.

Unit ID	Regulation	Index Number	Basis of Determination*
VTCCMT	40 CFR Part 63, Subpart CC	63CC-VT-MAINT	Specified in 40 CFR § 63.640(g)(1)-(6) = The miscellaneous process vent is not part of a process specified in 40 CFR § 63.640(g)(1) - (6). Subject to 40 CFR Part 63, Subparts F, G, H or I = The miscellaneous process vent is subject to 40 CFR Part 63, Subpart CC. Vent Type = Vent is designated as a maintenance vent Maintenance Vent Compliance = Maintenance vent operation includes a period of time after February 1, 2016 and prior to the date of compliance with § 63.643(c)
VTFCC003	30 TAC Chapter 111, Visible Emissions	TX-111-CATREG	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = On or before January 31, 1972 Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute. Total Feed Capacity = Total feed capacity is less than or equal to 20,000 barrels per day.
VTFCC003	30 TAC Chapter 115, Vent Gas Controls	TX-115-VT<100#	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source. Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2. Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are potentially applicable, the vent is not specifically classified under the rule and the vent is complying with the requirements of another Division under contingency provisions. Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).
WPSLS	30 TAC Chapter 115, Water Separation	TX-115-WS-ENCL	Alternate Control Requirement = The executive director (or the EPA Administrator) has not approved an ACR or exemption criteria in accordance with 30 TAC § 115.910. Exemption = Water separator does not qualify for exemption. Emission Control Option = The compartment has all openings sealed and totally encloses the liquid contents with gauging and sampling devices that are vapor tight except when in use.
WPSLS	40 CFR Part 60, Subpart QQQ	60QQQ-C	Construction/Modification Date = AFTER MAY 4, 1987 Alternate Means of Emission Limitation = NO Alternative Standard = NO Capacity < 38 L/s = NO Capacity = DESIGN CAPACITY TO TREAT IS GREATER THAN 16 LITERS/SECOND (250 GAL/MIN) OF REFINERY WASTEWATER. Control Device = Carbon Adsorber Alternative Monitoring = NO Regenerate Onsite = NO

* - The “unit attributes” or operating conditions that determine what requirements apply

NSR Versus Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit (FOP)
Issued Prior to new Construction or modification of an existing facility	For initial permit with application shield, can be issued after operation commences; significant revisions require approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not authorize new emissions
Ensures issued permits are protective of the environment and human health by conducting a health effects review and that requirement for best available control technology (BACT) is implemented.	Applicable requirements listed in permit are used by the inspectors to ensure proper operation of the site as authorized. Ensures that adequate monitoring is in place to allow compliance determination with the FOP.
Up to two Public notices may be required. Opportunity for public comment and contested case hearings for some authorizations.	One public notice required. Opportunity for public comments. No contested case hearings.
Applies to all point source emissions in the state.	Applies to all major sources and some non-major sources identified by the EPA.
Applies to facilities: a portion of site or individual emission sources	One or multiple FOPs cover the entire site (consists of multiple facilities)
Permits include terms and conditions under which the applicant must construct and operate its various equipment and processes on a facility basis.	Permits include terms and conditions that specify the general operational requirements of the site; and include codification of all applicable requirements for emission units at the site.
Opportunity for EPA review for Federal Prevention of Significant Deterioration (PSD) and Nonattainment (NA) permits for major sources.	Opportunity for EPA review, affected states review, and a Public petition period for every FOP.
Permits have a table listing maximum emission limits for pollutants	Permit has an applicable requirements table and Periodic Monitoring (PM) / Compliance Assurance Monitoring (CAM) tables which document applicable monitoring requirements.
Permits can be altered or amended upon application by company. Permits must be issued before construction or modification of facilities can begin.	Permits can be revised through several revision processes, which provide for different levels of public notice and opportunity to comment. Changes that would be significant revisions require that a revised permit be issued before those changes can be operated.
NSR permits are issued independent of FOP requirements.	FOPs are independent of NSR permits, but contain a list of all NSR permits incorporated by reference

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. In addition, many of the permits are accessible online through the link provided below. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. Permit by Rule (PBR) registrations submitted by permittees are also available online through the link provided below. The following table specifies the PBRs that apply to the site.

The status of air permits, applications, and PBR registrations may be found by performing the appropriate search of the databases located at the following website:

www.tceq.texas.gov/permitting/air/nav/air_status_permits.html

Details on how to search the databases are available in the **Obtaining Permit Documents** section below.

New Source Review Authorization References

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits by Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 20246	Issuance Date: 10/19/2023
Authorization No.: 22039	Issuance Date: 10/10/2023
Authorization No.: 56389	Issuance Date: 10/10/2023
Authorization No.: 80804	Issuance Date: 10/10/2023
Authorization No.: 136490	Issuance Date: 11/24/2015
Authorization No.: 173183	Issuance Date: 07/14/2023
Authorization No.: 174735	Issuance Date: 01/11/2024
Permits by Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.148	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.244	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.266	Version No./Date: 09/04/2000
Number: 106.316	Version No./Date: 09/04/2000
Number: 106.317	Version No./Date: 09/04/2000
Number: 106.355	Version No./Date: 11/01/2001
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.372	Version No./Date: 09/04/2000

New Source Review Authorization References

Number: 106.373	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 03/14/1997
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.419	Version No./Date: 09/04/2000
Number: 106.451	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 03/14/1997
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.531	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 03/14/1997
Number: 106.532	Version No./Date: 09/04/2000
Number: 14	Version No./Date: 06/07/1996
Number: 51	Version No./Date: 11/05/1986
Number: 51	Version No./Date: 06/07/1996
Number: 70	Version No./Date: 06/07/1996
Number: 82	Version No./Date: 06/07/1996
Number: 103	Version No./Date: 06/07/1996

Permits by Rule

The TCEQ has interpreted the emission limits prescribed in 30 TAC §106.4(a) as both emission thresholds and default emission limits. The emission limits in 30 TAC §106.4(a) are all considered applicable to each facility as a threshold matter to ensure that the owner/operator qualifies for the PBR authorization. Those same emission limits are also the default emission limits if the specific PBR does not further limit emissions or there is no lower, certified emission limit claimed by the owner/operator.

This interpretation is consistent with how TCEQ has historically determined compliance with the emission limits prior to the addition of the “as applicable” language. The “as applicable” language was added in 2014 as part of changes to the sentence structure in a rulemaking that made other changes to address greenhouse gases and was not intended as a substantive rule change. This interpretation also provides for effective and practical enforcement of 30 TAC §106.4(a), since for the TCEQ to effectively enforce the emission limits in 30 TAC §106.4(a) as emission thresholds, all emission limits must apply. As provided by 30 TAC §106.4(a)(2) and (3), an owner/operator shall not claim a PBR authorization if the facility is subject to major New Source Review. The practical and legal effect of the language in 30 TAC § 106.4 is that if a facility does not emit a pollutant, then the potential to emit for that particular pollutant is zero, and thus, the facility is not authorized to emit the pollutant pursuant to the PBR.

The permit holder is required to keep records for demonstrating compliance with PBRs in accordance with 30 TAC § 106.8 for the following categories:

- As stated in 30 TAC § 106.8(a), the permit holder is not required to keep records for de minimis sources as designated in 30 TAC § 116.119.

- As stated in 30 TAC § 106.8(b) for PBRs on the insignificant activities list, the permit holder is required to provide information that would demonstrate compliance with the general requirements of 30 TAC § 106.4.
- As stated in 30 TAC § 106.8(c) for all other PBRs, the permit holder must maintain sufficient records to demonstrate compliance with the general requirements specified in 30 TAC § 106.4 and to demonstrate compliance with the emission limits and any specific conditions of the PBR as applicable.

The application, or a previously submitted application, contains a PBR Supplemental Table. This table provides supplemental information for all PBR authorizations at the site or application area, including PBRs that are not listed on the OP-REQ1 form. PBRs that are not listed on the OP-REQ1 form authorize emission units that the TCEQ has determined are insignificant sources of emissions (IEUs). PBRs are enforceable through permit condition number 25. The EPA gives States broad discretion in prescribing monitoring, recordkeeping, and reporting for generally applicable requirements that cover insignificant emission units. (see EPA *White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program*). Federal regulations specifically identify recordkeeping as an appropriate level of monitoring necessary to assure compliance with the requirements applicable to an emissions unit. Permitting authorities have the best sense of where it is appropriate to conclude that periodic monitoring is not necessary for IEUs, when state program rules already provide sufficient monitoring for these units.

In the case of IEUs in particular, the recordkeeping in 30 TAC §106.8 is sufficient because the units do not have the potential to violate emission limitations or other requirements under normal operating conditions. In particular, where the establishment of a regular program of monitoring would not significantly enhance the ability of the permit to assure compliance with the applicable requirement, the permitting authority can provide that the applicable requirement has monitoring sufficient to yield reliable data that is representative of the emission unit's compliance with the limitations. Therefore, for IEUs compliance with 30 TAC §106.8 is sufficient to meet federal monitoring requirements.

The PBR records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, or parametric monitoring. The PBR records also satisfy the federal operating permit periodic monitoring requirements of 30 TAC § 122.142(c) as they are representative of the emission unit's compliance with 30 TAC Chapter 106.

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

Compliance Assurance Monitoring (CAM):

Compliance Assurance Monitoring (CAM) is a federal monitoring program established under Title 40 Code of Federal Regulations Part 64 (40 CFR Part 64).

Emission units are subject to CAM requirements if they meet the following criteria:

1. the emission unit is subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement;

2. the emission unit uses a control device to achieve compliance with the emission limitation or standard specified in the applicable requirement; and

3. the emission unit has the pre-control device potential to emit greater than or equal to the amount in tons per year for a site to be classified as a major source.

The following table(s) identify the emission unit(s) that are subject to CAM:

Unit/Group/Process Information	
ID No.: DESALTER	
Control Device ID No.: BZSTRIP	Control Device Type: Other control device type
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Industrial Wastewater	SOP Index No.: TX-115-WW-BSU
Pollutant: VOC	Main Standard: § 115.142(1)
Monitoring Information	
Indicator: Steam flow rate	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: Minimum steam flow rate = 6,000 lb/hr when the benzene stripper is in normal operation.	
Basis of CAM: Steam stripping is an acceptable method of stripping VOCs from industrial wastewater. Monitoring the steam flow rate ensures that the minimum amount established during historical performance tests is being sent to the stripper for demonstrating compliance with the VOC removal requirement of 30 TAC Chapter 115, Industrial Wastewater.	

Unit/Group/Process Information	
ID No.: SRU001	
Control Device ID No.: INSRU001	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-SRUIN001
Pollutant: SO_2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: The minimum combustion temperature is 1250 degrees F. This requirement is applicable during operation of the tail gas incinerator.	
Basis of CAM: A common way to determine if a sulfur recovery unit (SRU) is operating correctly is to operate the thermal incinerator above a minimal combustion temperature based on performance tests, manufacturer's recommendations, engineering calculations and/or historical data. The monitoring of combustion temperature of a thermal incinerator used to oxidize sulfur compounds is required in 40 CFR Part 60, Subparts BB (Standards of Performance for Kraft Pulp Mills) and LLL (Standards of Performance for Onshore Natural Gas Processing: SO2 Emissions). Additionally, this option requires the monitoring of the SO2 mass emission rate since an increase in SO2 emissions may indicate operational problems with the SRU.	

Unit/Group/Process Information	
ID No.: SRU001	
Control Device ID No.: INSRU001	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-SRUIN001
Pollutant: SO_2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO2 Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Maximum SO_2 emission limit = 7.29 lb SO_2/hr. This requirement is applicable during operation of the tail gas incinerator.	
Basis of CAM: A common way to determine if a sulfur recovery unit (SRU) is operating correctly is to operate the thermal incinerator above a minimal combustion temperature based on performance tests, manufacturer's recommendations, engineering calculations and/or historical data. The monitoring of combustion temperature of a thermal incinerator used to oxidize sulfur compounds is required in 40 CFR Part 60, Subparts BB (Standards of Performance for Kraft Pulp Mills) and LLL (Standards of Performance for Onshore Natural Gas Processing: SO2 Emissions). Additionally, this option requires the monitoring of the SO2 mass emission rate since an increase in SO2 emissions may indicate operational problems with the SRU.	

Periodic Monitoring:

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information	
ID No.: BLRHT006	
Control Device ID No.: SCR	Control Device Type: Selective catalytic reduction (SCR)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX-117B-NG-NH3
Pollutant: NH_3	Main Standard: § 117.310(c)(2)
Monitoring Information	
Indicator: Ammonia concentration	
Minimum Frequency: Once per hour	
Averaging Period: One hour (excluding authorized MSS periods)	
Deviation Limit: Maximum ammonia concentration = 10 ppmv at 3.0% O2, dry	
Basis of monitoring: A common method to determine ammonia emissions is to conduct a mass balance using differential NOx concentration across the control device and the ammonia injection rate to determine the output ammonia concentration. The calculation is performed using the equation specified in 30 TAC § 117.8130(1).	

Unit/Group/Process Information	
ID No.: BLRHT006	
Control Device ID No.: SCR	Control Device Type: Selective catalytic reduction (SCR)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX-117B-RG-NH3
Pollutant: NH_3	Main Standard: § 117.310(c)(2)
Monitoring Information	
Indicator: Ammonia concentration	
Minimum Frequency: Once per hour	
Averaging Period: One hour (excluding authorized MSS periods)	
Deviation Limit: Maximum ammonia concentration = 10 ppmv at 3.0% O2, dry	
Basis of monitoring: A common method to determine ammonia emissions is to conduct a mass balance using differential NOx concentration across the control device and the ammonia injection rate to determine the output ammonia concentration. The calculation is performed using the equation specified in 30 TAC § 117.8130(1).	

Unit/Group/Process Information	
ID No.: CRUHT001	
Control Device ID No.: SCR	Control Device Type: Selective catalytic reduction (SCR)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B>200
Pollutant: NH_3	Main Standard: § 117.310(c)(2)
Monitoring Information	
Indicator: Ammonia concentration	
Minimum Frequency: Once per hour	
Averaging Period: 24-hour rolling average (excluding authorized MSS periods)	
Deviation Limit: Maximum ammonia concentration = 10 ppmv at 3.0% O2, dry	
Basis of monitoring: A common method to determine ammonia emissions is to conduct a mass balance using differential NOx concentration across the control device and the ammonia injection rate to determine the output ammonia concentration. The calculation is performed using the equation specified in 30 TAC § 117.8130(1).	

Unit/Group/Process Information	
ID No.: CRUHT002	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-100-200
Pollutant: NH_3	Main Standard: § 117.310(c)(2)
Monitoring Information	
Indicator: Ammonia concentration	
Minimum Frequency: Once per hour	
Averaging Period: 24-hour rolling average	
Deviation Limit: Maximum ammonia concentration = 10 ppmv at 3.0% O2, dry	
Basis of monitoring: A common method to determine ammonia emissions is to conduct a mass balance using differential NOx concentration across the control device and the ammonia injection rate to determine the output ammonia concentration. The calculation is performed using the equation specified in 30 TAC § 117.8130(1).	

Unit/Group/Process Information	
ID No.: CRUHT004	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-<40
Pollutant: CO	Main Standard: § 117.325(a)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: One-hour average (excluding authorized MSS periods)	
Deviation Limit: Maximum CO concentration = 400 ppm	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer to measure CO concentration with procedures such as EPA Test Method 10 or a CO CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. In addition, if the CO concentration is too high it shows that a control device such as a catalytic converter is not functioning properly or an emission unit is not obtaining complete combustion.	

Unit/Group/Process Information	
ID No.: CRUVT001	
Control Device ID No.: CRUHT001	Control Device Type: Steam generating unit (boiler)/process heater (design heat input is less than 44 megawatts)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	SOP Index No.: R5311-1
Pollutant: VOC	Main Standard: § 115.311(a)(1)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Hourly	
Averaging Period: Daily average excluding periods of MSS	
Deviation Limit: Temperature below 1000 degrees F on T1609 and T1610 thermocouples shall be reported as a deviation.	
Basis of monitoring: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for boilers/process heaters. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of combustion temperature of a boiler/process heater is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, DD, and HH; and 30 TAC Chapter 115.	

Unit/Group/Process Information	
ID No.: FCCHT002	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-400ppmCO
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: One-hour average (excluding authorized MSS periods)	
Deviation Limit: Maximum CO concentration = 400 ppmv	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer to measure CO concentration with procedures such as EPA Test Method 10 or a CO CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. In addition, if the CO concentration is too high it shows that a control device such as a catalytic converter is not functioning properly or an emission unit is not obtaining complete combustion.	

Unit/Group/Process Information	
ID No.: GRP-ALKHT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-40-100
Pollutant: CO	Main Standard: § 117.325(a)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: One-hour average (excluding authorized MSS periods)	
Deviation Limit: Maximum CO concentration = 400 ppmv	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer to measure CO concentration with procedures such as EPA Test Method 10 or a CO CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. In addition, if the CO concentration is too high it shows that a control device such as a catalytic converter is not functioning properly or an emission unit is not obtaining complete combustion.	

Unit/Group/Process Information	
ID No.: GRP-REFHT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-<40
Pollutant: CO	Main Standard: § 117.325(a)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: One-hour average (excluding authorized MSS periods)	
Deviation Limit: Maximum CO concentration = 400 ppmv	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer to measure CO concentration with procedures such as EPA Test Method 10 or a CO CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. In addition, if the CO concentration is too high it shows that a control device such as a catalytic converter is not functioning properly or an emission unit is not obtaining complete combustion.	

Unit/Group/Process Information	
ID No.: GRP-VT-CRU	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111<72-HF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Records or Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Burning alternate fuels or Maximum Opacity = 15%	
Basis of monitoring: Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only or other low sulfur fuels. The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: GRP-VT-HTR<72	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111<72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Fuel Records or Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Burning alternate fuels or Maximum Opacity = 30%	
Basis of monitoring: Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only or other low sulfur fuels. The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: GRP-VT-HTR>72	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111>72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Fuel Records or Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Burning alternate fuels or Maximum Opacity = 20%	
Basis of monitoring: Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only or other low sulfur fuels. The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: GRP-VT-LOWVOC	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111>72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Presence of visible emissions or Maximum Opacity = 20%	
Basis of monitoring: The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: GRP-VT-LSG-REF	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111>72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Presence of visible emissions or Maximum Opacity = 20%	
Basis of monitoring: The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: GRP-VT-VE<72	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111<72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: block 6-minute average	
Deviation Limit: Maximum Opacity = 30%. This monitoring requirement is not applicable during periods when the equipment does not operate for the entire quarter.	
Basis of monitoring: The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: HTREF201	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111>72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Fuel Records or Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Burning alternate fuels or Maximum Opacity = 20%	
Basis of monitoring: Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only or other low sulfur fuels. The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: HTREF2631	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111>72-HF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Records or Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Burning alternate fuels or Maximum Opacity = 15%	
Basis of monitoring: Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only or other low sulfur fuels. The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: INDOK001	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111>72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per year	
Averaging Period: block 6-minute average	
Deviation Limit: Maximum Opacity = 20%	
Basis of monitoring: The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: INSRU001	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111<72-LF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: block 6-minute average	
Deviation Limit: Maximum Opacity = 30%. This monitoring requirement is not applicable during periods when the equipment does not operate for the entire quarter.	
Basis of monitoring: The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: LSGHT001	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-310C
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: One-hour average (excluding authorized MSS periods)	
Deviation Limit: Maximum CO concentration = 400 ppmv	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer to measure CO concentration with procedures such as EPA Test Method 10 or a CO CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. In addition, if the CO concentration is too high it shows that a control device such as a catalytic converter is not functioning properly or an emission unit is not obtaining complete combustion.	

Unit/Group/Process Information	
ID No.: REFHT201	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: TX117B-40-100
Pollutant: CO	Main Standard: § 117.325(a)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: One-hour average (excluding authorized MSS periods)	
Deviation Limit: Maximum CO concentration = 400 ppmv	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer to measure CO concentration with procedures such as EPA Test Method 10 or a CO CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. In addition, if the CO concentration is too high it shows that a control device such as a catalytic converter is not functioning properly or an emission unit is not obtaining complete combustion.	

Unit/Group/Process Information	
ID No.: TKFTK250	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: TX-115-WS-ROOF
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any defects (as described below) detected in the inspection of the internal floating roof and seals shall be reported as a deviation.	
Basis of monitoring: Visual inspections of the external or internal floating roof to ensure: that the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric; provides an assurance of compliance that it is operating in accordance with its design to meet the required control efficiency. Visually inspecting the external floating roof or the internal floating roof is commonly required in federal and state rules, including: 40 CFR Part 60, Subpart Kb; 40 CFR Part 61, Subpart Y; and 30 TAC Chapter 115, Subchapter B, Division 1: Storage of VOCs. Measuring and recording the accumulated area of gaps if the tank is equipped with primary seals is commonly required in federal and state rules, including: 40 CFR Part 60, Subpart Kb; 40 CFR Part 61, Subpart Y; 40 CFR 63 Subparts VV, DD, and MMM; and 30 TAC Chapter 115, Subchapter B, Division 1: Storage of VOCs.	

Unit/Group/Process Information	
ID No.: TKFTK301	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: TX-115-WS-ROOF
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any defects (as described below) detected in the inspection of the internal floating roof and seals shall be reported as a deviation.	
Basis of monitoring: Visual inspections of the external or internal floating roof to ensure: that the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric; provides an assurance of compliance that it is operating in accordance with its design to meet the required control efficiency. Visually inspecting the external floating roof or the internal floating roof is commonly required in federal and state rules, including: 40 CFR Part 60, Subpart Kb; 40 CFR Part 61, Subpart Y; and 30 TAC Chapter 115, Subchapter B, Division 1: Storage of VOCs. Measuring and recording the accumulated area of gaps if the tank is equipped with primary seals is commonly required in federal and state rules, including: 40 CFR Part 60, Subpart Kb; 40 CFR Part 61, Subpart Y; 40 CFR 63 Subparts VV, DD, and MMM; and 30 TAC Chapter 115, Subchapter B, Division 1: Storage of VOCs.	

Unit/Group/Process Information	
ID No.: TKFTK328	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: TX-115-WS-ROOF
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: External Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any defects (as described below) detected in the inspection of the internal floating roof and seals shall be reported as a deviation.	
Basis of monitoring: Visual inspections of the external or internal floating roof to ensure: that the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric; provides an assurance of compliance that it is operating in accordance with its design to meet the required control efficiency. Visually inspecting the external floating roof or the internal floating roof is commonly required in federal and state rules, including: 40 CFR Part 60, Subpart Kb; 40 CFR Part 61, Subpart Y; and 30 TAC Chapter 115, Subchapter B, Division 1: Storage of VOCs. Measuring and recording the accumulated area of gaps if the tank is equipped with primary seals is commonly required in federal and state rules, including: 40 CFR Part 60, Subpart Kb; 40 CFR Part 61, Subpart Y; 40 CFR 63 Subparts VV, DD, and MMM; and 30 TAC Chapter 115, Subchapter B, Division 1: Storage of VOCs.	

Unit/Group/Process Information	
ID No.: VTFCC003	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: TX-111-CATREG
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: block 6-minute average	
Deviation Limit: Maximum Opacity = 30%. This monitoring requirement is not applicable during periods when the equipment does not operate for the entire calendar quarter.	
Basis of monitoring: The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.	

Unit/Group/Process Information	
ID No.: WPSLS	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: TX-115-WS-ENCL
Pollutant: VOC	Main Standard: § 115.132(a)(1)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Quarterly	
Averaging Period: Specified in Test Method 21	
Deviation Limit: Any monitoring data exceeding 500 ppmv for all leak interfaces other than a seal around a shaft that passes through a cover opening or 10,000 ppm for shaft seal systems shall be considered and reported as a deviation.	
Basis of monitoring: It is widely practiced and accepted to monitor the VOC concentration at the outlet of a control device by use of a portable analyzer with procedures such as EPA Test Method 25A or a VOC CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. Outlet VOC concentration has been used as an indicator of VOC emissions in many federal rules including 40 CFR Part 60, Subpart III, 40 CFR Part 60, Subpart NNN, 40 CFR Part 60, Subpart RRR, 40 CFR Part 61, Subpart BB, 40 CFR Part 61, Subpart FF, 40 CFR Part 63, Subpart R, 40 CFR Part 63, Subpart DD, and 40 CFR Part 63, Subpart HH.	

Obtaining Permit Documents

The New Source Review Authorization References table in the FOP specifies all NSR authorizations that apply at the permit area covered by the FOP. Individual NSR permitting files are located in the TCEQ Central File Room (TCEQ Main Campus located at 12100 Park 35 Circle, Austin, Texas, 78753, Building E, Room 103). They can also be obtained electronically from TCEQ's Central File Room Online (https://www.tceq.texas.gov/goto/cfr-online). Guidance documents that describe how to search electronic records, including Permits by Rule (PBRs) or NSR permits incorporated by reference into an FOP, archived in the Central File Room server are available at https://www.tceq.texas.gov/permitting/air/nav/air_status_permits.html

All current PBRs are contained in Chapter 106 and can be viewed at the following website:

https://www.tceq.texas.gov/permitting/air/permitbyrule/air_pbr_index.html

Previous versions of 30 TAC Chapter 106 PBRs may be viewed at the following website:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html

Historical Standard Exemption lists may be viewed at the following website:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

Additional information concerning PBRs is available on the TCEQ website:

https://www.tceq.texas.gov/permitting/air/nav/air_pbr.html

Compliance Review

Compliance History Review

1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on **7/8/2024**
   Site rating: 42.09 / Satisfactory Company rating: 42.09 / Satisfactory
   (High < 0.10; Satisfactory ≥ 0.10 and ≤ 55; Unsatisfactory > 55)
2. Has the permit changed on the basis of the compliance history or site/company rating? ..... **No**

Site/Permit Area Compliance Status Review

1. Were there any out-of-compliance units listed on Form OP-ACPS? ..... **No**
2. Is a compliance plan and schedule included in the permit? ..... **No**

Available Unit Attribute Forms

OP-UA1 - Miscellaneous and Generic Unit Attributes
OP-UA2 - Stationary Reciprocating Internal Combustion Engine Attributes
OP-UA3 - Storage Tank/Vessel Attributes
OP-UA4 - Loading/Unloading Operations Attributes
OP-UA5 - Process Heater/Furnace Attributes
OP-UA6 - Boiler/Steam Generator/Steam Generating Unit Attributes
OP-UA7 - Flare Attributes
OP-UA10 - Gas Sweetening/Sulfur Recovery Unit Attributes
OP-UA11 - Stationary Turbine Attributes
OP-UA12 - Fugitive Emission Unit Attributes
OP-UA13 - Industrial Process Cooling Tower Attributes
OP-UA14 - Water Separator Attributes
OP-UA15 - Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
OP-UA16 - Solvent Degreasing Machine Attributes
OP-UA17 - Distillation Unit Attributes
OP-UA18 - Surface Coating Operations Attributes
OP-UA19 - Wastewater Unit Attributes
OP-UA20 - Asphalt Operations Attributes
OP-UA21 - Grain Elevator Attributes
OP-UA22 - Printing Attributes

OP-UA24 - Wool Fiberglass Insulation Manufacturing Plant Attributes
OP-UA25 - Synthetic Fiber Production Attributes
OP-UA26 - Electroplating and Anodizing Unit Attributes
OP-UA27 - Nitric Acid Manufacturing Attributes
OP-UA28 - Polymer Manufacturing Attributes
OP-UA29 - Glass Manufacturing Unit Attributes
OP-UA30 - Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes
OP-UA31 - Lead Smelting Attributes
OP-UA32 - Copper and Zinc Smelting/Brass and Bronze Production Attributes
OP-UA33 - Mineral Processing Plant Attributes
OP-UA34 - Pharmaceutical Manufacturing
OP-UA35 - Incinerator Attributes
OP-UA36 - Steel Plant Unit Attributes
OP-UA37 - Basic Oxygen Process Furnace Unit Attributes
OP-UA38 - Lead-Acid Battery Manufacturing Plant Attributes
OP-UA39 - Sterilization Source Attributes
OP-UA40 - Ferroalloy Production Facility Attributes
OP-UA41 - Dry Cleaning Facility Attributes
OP-UA42 - Phosphate Fertilizer Manufacturing Attributes
OP-UA43 - Sulfuric Acid Production Attributes
OP-UA44 - Municipal Solid Waste Landfill/Waste Disposal Site Attributes
OP-UA45 - Surface Impoundment Attributes
OP-UA46 - Epoxy Resins and Non-Nylon Polyamides Production Attributes
OP-UA47 - Ship Building and Ship Repair Unit Attributes
OP-UA48 - Air Oxidation Unit Process Attributes
OP-UA49 - Vacuum-Producing System Attributes
OP-UA50 - Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
OP-UA51 - Dryer/Kiln/Oven Attributes
OP-UA52 - Closed Vent Systems and Control Devices
OP-UA53 - Beryllium Processing Attributes
OP-UA54 - Mercury Chlor-Alkali Cell Attributes
OP-UA55 - Transfer System Attributes
OP-UA56 - Vinyl Chloride Process Attributes
OP-UA57 - Cleaning/Depainting Operation Attributes
OP-UA58 - Treatment Process Attributes
OP-UA59 - Coke By-Product Recovery Plant Attributes
OP-UA60 - Chemical Manufacturing Process Unit Attributes
OP-UA61 - Pulp, Paper, or Paperboard Producing Process Attributes
OP-UA62 - Glycol Dehydration Unit Attributes
OP-UA63 - Vegetable Oil Production Attributes
OP-UA64 - Coal Preparation Plant Attributes