Statement of Basis of the Federal Operating Permit

The Premcor Refining Group Inc.

Site Name: Valero Port Arthur Refinery
Area Name: DCU-844 Coker Complex
Physical Location: 1801 Gulfway Drive
         Nearest City: Port Arthur
         County: Jefferson

Permit Number: O3992
Project Type: Initial Issuance

The North American Industry Classification System (NAICS) Code: 32411
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). An application for initial permit issuance has been submitted in accordance with 30 TAC § 122.201. 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: May 21, 2019
Operating Permit
Basis of Determination

Permit Area Process Description
A process description of the new Delayed Coker Unit DCU-844 and new Sulfur Recovery Unit SRU-547 and its operation is presented as follows. These units will operate in the same general manner as the existing refinery DCU and SRU units.

DELAYED COKER UNIT

Typically, the charge to delayed cokers is the vacuum tower bottoms or vacuum residuals (resid) from the crude unit. Delayed coking is a thermal process where residuum material is rapidly heated and then thermally cracked in coke drums under set conditions of temperature and pressure. Products from the DCU are fuel gas, propane, butane, naphtha, light and heavy gas oil, and petroleum coke.

Part of the equipment on a coker operates as a continuous process and is designed to process the gases and liquids produced. That equipment typically consists of a main fractionating column, furnaces, pumps, compressor, exchangers, vessels, and other fractionating towers.

The remaining equipment on a delayed coker operates as a batch process and consists of:

1. the coke drums used to contain the coke produced from the charge
2. the water system used to cool and cut the coke from the drums
3. the conveyor system used to handle the coke.

SULFUR RECOVERY UNIT (SRU-547)

Conversion of \( \text{H}_2\text{S} \) to elemental sulfur is done by partial oxidation (combustion) in the reaction furnaces and catalytically in the reactors. Approximately 68% conversion of \( \text{H}_2\text{S} \) to elemental sulfur is achieved in the reaction furnaces, which are also referred to as the thermal reactors. In the modified Claus process, one third of the \( \text{H}_2\text{S} \) is converted to \( \text{SO}_2 \) using air or a mixture of air and oxygen. The hot gases are cooled in a waste heat boiler before passing through a series of catalytic reactors that complete the reaction at lower temperatures. Sulfur formed in the thermal reactors and catalytic reactors is condensed by raising steam in a series of sulfur condensers. The molten sulfur flows through steam jacketed lines to the sulfur pit where it is degassed and shipped out by truck. An on-line analyzer/controller measures the ratio of \( \text{H}_2\text{S} \) to \( \text{SO}_2 \) in the Claus tailgas and adjusts the air/oxygen flow to maintain the optimum \( \text{H}_2\text{S} \) to \( \text{SO}_2 \) ratio to maximize sulfur production. The tailgas is charged to the tailgas cleanup unit.

Liquid sulfur is pumped to a degassing reactor. In the reactor, molten sulfur is agitated with compressed air to strip out \( \text{H}_2\text{S} \). The stripped sulfur then gravity flows from the reactor to a pit which is divided by a weir wall to keep un-degassed sulfur and degassed sulfur segregated. The spent air (air/\( \text{H}_2\text{S} \) mixture) from the degassing reactor is sent to the front end of the Claus Thermal Reactor for recovery of the \( \text{H}_2\text{S} \) as product sulfur.

SCOT Process

The tailgas cleanup unit utilizes the SCOT process (Shell Claus Offgas Treating) to remove additional sulfur compounds from the tailgas and recycle them back to the Claus unit for conversion to elemental sulfur. When fitted with a tailgas cleanup unit, overall sulfur recovery can exceed 99.8%. The process consists of a reduction section in which all sulfur compounds present in the tail gas from the CLAUS Units are combined with hydrogen, heated, and catalytically converted to \( \text{H}_2\text{S} \). The primary reaction converts \( \text{SO}_2 \) to \( \text{H}_2\text{S} \) and any elemental sulfur present to \( \text{H}_2\text{S} \). Also, \( \text{COS} \) (carbonyl sulfide) and \( \text{CS}_2 \) (carbon disulfide) are converted to \( \text{H}_2\text{S} \). All reactions are exothermic, resulting in a temperature rise across the SCOT reactors. After cooling and moisture removal in a water wash column, the \( \text{H}_2\text{S} \) is concentrated in an MDEA based amine unit consisting of an absorber and regenerator. The treated vent gas from the absorber overhead is incinerated, cooled in a waste heat boiler, and vented through the stack. Concentrated \( \text{H}_2\text{S} \) from the regenerator overhead condenser is recycled back to the front end of the Claus unit.
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: O1498

Major Source Pollutants

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

| Major Pollutants | VOC, SO2, PM, NOX, HAPS, CO, GHG |

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
- Appendix B
  - Copies of major NSR authorizations
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 a 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 are 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.

Appendix B

Copies of major NSR authorizations applicable to the units covered by this permit have been included in this Appendix, to ensure that all interested persons can access those authorizations.

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 Requirement 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.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:
<table>
<thead>
<tr>
<th>Regulatory Program</th>
<th>Applicability (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention of Significant Deterioration (PSD)</td>
<td>Yes</td>
</tr>
<tr>
<td>Nonattainment New Source Review (NNSR)</td>
<td>Yes</td>
</tr>
<tr>
<td>Minor NSR</td>
<td>Yes</td>
</tr>
<tr>
<td>40 CFR Part 60 - New Source Performance Standards</td>
<td>Yes</td>
</tr>
<tr>
<td>40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)</td>
<td>Yes</td>
</tr>
<tr>
<td>40 CFR Part 63 - NESHAPs for Source Categories</td>
<td>Yes</td>
</tr>
<tr>
<td>Title IV (Acid Rain) of the Clean Air Act (CAA)</td>
<td>No</td>
</tr>
<tr>
<td>Title V (Federal Operating Permits) of the CAA</td>
<td>Yes</td>
</tr>
<tr>
<td>Title VI (Stratospheric Ozone Protection) of the CAA</td>
<td>Yes</td>
</tr>
<tr>
<td>CSAPR (Cross-State Air Pollution Rule)</td>
<td>No</td>
</tr>
<tr>
<td>Federal Implementation Plan for Regional Haze (Texas SO₂ Trading Program)</td>
<td>No</td>
</tr>
</tbody>
</table>

**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**

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:

1. Office activities such as photocopying, blueprint copying, and photographic processes.
2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
4. Outdoor barbecue pits, campfires, and fireplaces.
5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
7. 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.
8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
9. Vehicle exhaust from maintenance or repair shops.
10. 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).
11. 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.
12. 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.
13. 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.
14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
15. Well cellars.
16. 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.
17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
18. Equipment used exclusively for the melting or application of wax.
19. 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.
20. Shell core and shell mold manufacturing machines.
21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
22. Equipment used for inspection of metal products.
23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
25. Battery recharging areas.
26. Brazing, soldering, or welding equipment.

**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](http://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](http://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.
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination*</th>
</tr>
</thead>
</table>
| T-112   | 30 TAC Chapter 115, Storage of VOCs | R5112-2      | Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.  
Tank Description = Welded tank using an external floating roof  
Product Stored = Crude oil and/or condensate  
True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia  
Primary Seal = Mechanical shoe  
Storage Capacity = Capacity is greater than 40,000 gallons  
Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized |
| T-112   | 40 CFR Part 60, Subpart Kb | 60Kb-02      | Product Stored = Crude oil stored, processed, and/or treated after custody transfer  
Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters)  
Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia  
Storage Vessel Description = Pontoon-type or double-deck-type external floating roof with mechanical shoe primary seal  
Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia |
| T-112   | 40 CFR Part 63, Subpart CC | 63CC-2       | Product Stored = Crude oil  
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).  
Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,416 liters)  
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.  
Existing Kb Source = The storage vessel is part of an existing source and is also subject to the provisions of 40 CFR Part 60, Subpart Kb.  
Maximum TVP = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia  
Storage Vessel Description = Pontoon-type or double-deck-type external floating roof with mechanical shoe primary seal  
Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia |
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<th>Index Number</th>
<th>Basis of Determination*</th>
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</thead>
</table>
| T-113   | 40 CFR Part 63, Subpart CC | 63CC-2 | Storage Vessel Description = Pontoon-type or double-deck-type external floating roof with mechanical shoe primary seal  
Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia |
| T-114   | 30 TAC Chapter 115, Storage of VOCs | R5112-2 | Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.  
Tank Description = Welded tank using an external floating roof  
Product Stored = Crude oil and/or condensate  
True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia  
Primary Seal = Mechanical shoe  
Storage Capacity = Capacity is greater than 40,000 gallons  
Secondary Seal = Secondary seal not determined since 30 TAC §§ 115.117(a)(4) or 115.117(b)(4) exemption is not utilized |
| T-114   | 40 CFR Part 60, Subpart Kb | 60Kb-02 | Product Stored = Crude oil stored, processed, and/or treated after custody transfer  
Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters)  
Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia  
Storage Vessel Description = Pontoon-type or double-deck-type external floating roof with mechanical shoe primary seal  
Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia |
| T-114   | 40 CFR Part 63, Subpart CC | 63CC-2 | Product Stored = Crude oil  
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).  
Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,416 liters)  
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.  
Existing Kb Source = The storage vessel is part of an existing source and is also subject to the provisions of 40 CFR Part 60, Subpart Kb.  
Maximum TVP = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia  
Storage Vessel Description = Pontoon-type or double-deck-type external floating roof a with mechanical shoe primary seal  
Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia |
<p>| T-8002  | 30 TAC Chapter 115, Storage of VOCs | R5112-1 | Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria. |</p>
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination*</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-8002</td>
<td>40 CFR Part 60, Subpart Kb</td>
<td>60Kb-01</td>
<td>Product Stored = Other than crude oil, condensate, or VOC</td>
</tr>
<tr>
<td>T-8400</td>
<td>30 TAC Chapter 115, Storage of VOCs</td>
<td>R5112-3</td>
<td>Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.</td>
</tr>
<tr>
<td>T-8400</td>
<td>40 CFR Part 60, Subpart Kb</td>
<td>60Kb-03</td>
<td>Product Stored = Stored product other than volatile organic liquid or petroleum liquid</td>
</tr>
<tr>
<td>T-8400</td>
<td>40 CFR Part 61, Subpart FF</td>
<td>61FF-1</td>
<td>Product Stored = VOC other than crude oil or condensate</td>
</tr>
<tr>
<td>T-8400</td>
<td>40 CFR Part 61, Subpart FF</td>
<td>Specified in 40 CFR § 63.640(g)(1)-(6)</td>
<td>The storage vessel is not part of a process specified in 40 CFR § 63.640(g)(1) - (6).</td>
</tr>
<tr>
<td>T-8400</td>
<td>40 CFR Part 63, Subpart CC</td>
<td>63CC-3</td>
<td>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.</td>
</tr>
<tr>
<td>DCU-844H1</td>
<td>30 TAC Chapter 117, Subchapter B</td>
<td>30TAC-01</td>
<td>Unit Type = Process heater</td>
</tr>
</tbody>
</table>

---

* Product Stored = Other than crude oil, condensate, or VOC

Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.

Tank Description = Tank using a submerged fill pipe and vapor recovery system

Product Stored = VOC other than crude oil or condensate

True Vapor Pressure = True vapor pressure is less than 1.0 psia

Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons

Product Stored = Waste mixture of indeterminate or variable composition

Storage Capacity = Capacity is greater than or equal to 19,800 gallons (75,000 liters) but less than 39,900 gallons (151,000 liters)

Maximum True Vapor Pressure = True vapor pressure is less than 2.2 psia

Bypass Line = The closed vent system does not contain any by-pass line that could divert the vent stream away from the control device.

Tank Control Requirements = The tank has a fixed roof and closed vent system routing vapors to either a fuel gas system or control device.

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.

Fuel Gas System = Gaseous emissions from the tank or enclosure are not routed to a fuel gas system.

Control Device Type/Operations = Carbon adsorption system that does not regenerate the carbon bed directly in the control device

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

Engineering Calculations = Results of performance tests are used to demonstrate that the control device achieves emission limitation.

Alternative Means of Compliance = Not using an alternate means of compliance to meet the requirements of 40 CFR § 61.343 for tanks.

Carbon Replacement Interval = The carbon in the carbon adsorption system is replaced when monitoring indicates breakthrough.

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.

Existing Kb Source = The storage vessel is not part of an existing source or is not subject to the provisions of 40 CFR Part 60, Subpart Kb.

Group 1 Storage Vessel = The storage vessel is a Group 2 vessel.

Applicability = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.

Unit Type = Process heater

Maximum Rated Capacity = Maximum rated capacity is at least 200 MMBtu/hr.

RACT Date Placed in Service = On or after the final compliance date specified in 30 TAC §§ 117.9000, 117.9010 or 117.9020(1).
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination</th>
</tr>
</thead>
</table>
| DCU-844H1 | 40 CFR Part 63, Subpart DDDD | 63DDDD-1      | CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began after June 4, 2010.  
ANNUAL CAPACITY FACTOR = FEDERALLY ENFORCEABLE ANNUAL CAPACITY FACTOR OF GREATER THAN 10%  
FUEL TYPE = NATURAL GAS  
HEAT INPUT CAPACITY = RATED HEAT INPUT CAPACITY OF 100 MMBTU/HR OR GREATER |
| DCU-844H2 | 30 TAC Chapter 117, Subchapter B | 30TAC-02      | Unit Type = Process heater  
Maximum Rated Capacity = Maximum rated capacity is at least 200 MMBtu/hr.  
RACT Date Placed in Service = On or after the final compliance date specified in 30 TAC §§ 117.9000, 117.9010 or 117.9020(1) |
| DCU-844H2 | 40 CFR Part 63, Subpart DDDD | 63DDDD-1      | CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began after June 4, 2010.  
ANNUAL CAPACITY FACTOR = FEDERALLY ENFORCEABLE ANNUAL CAPACITY FACTOR OF GREATER THAN 10%  
FUEL TYPE = NATURAL GAS  
HEAT INPUT CAPACITY = RATED HEAT INPUT CAPACITY OF 100 MMBTU/HR OR GREATER |
| SRU-547  | 30 TAC Chapter 112, Sulfur Compounds | R2007-1      | Sulfur Recovery Plant = The gas sweetening unit is using sulfur recovery.  
Stack Height = Effective stack height greater than or equal to the standard effective stack height. |
| F-547    | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | R5352-ALL   | SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device. |
| F-547    | 40 CFR Part 63, Subpart CC | 63CCVV-ALL    | SOP Index No. = OWNER/OPERATOR ASSUMES VOC/VHAP FUGITIVE CONTROL REQUIREMENTS FOR ALL COMPONENTS SUBJECT TO MACT CC AND COMPLYING WITH NSPS VV REQUIREMENTS WITH NO ALTERNATE CONTROL OR CONTROL DEVICES |
| F-844    | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | R5352-ALL   | SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device. |
| F-844    | 40 CFR Part 63, Subpart CC | 63CC-ALL      | SOP Index No. = OWNER/OPERATOR ASSUMES STANDARD FUGITIVE CONTROL REQUIREMENTS FOR ALL COMPONENTS IN VOC/VHAP SERVICE SUBJECT TO MACT CC |
| CVS844   | 30 TAC Chapter 115, Vent Gas Controls | R5131-1      | 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 non-combustion 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 applicable and the vent is not specifically classified under the rule.  
Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).  
VOC Concentration/Emission Rate @ Max Operating Conditions = The VOC concentration or emission rate is less than the applicable exemption limit at maximum actual operating conditions and the alternate recordkeeping requirements of 30 TAC § 115.126(4) are being selected. |
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-05-SCOT</td>
<td>30 TAC Chapter 115, Vent Gas Controls</td>
<td>R5131-2</td>
<td>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 from a combustion unit exhaust and the combustion unit is not used as a control device for a vent stream originating from a non-combustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.</td>
</tr>
<tr>
<td>DCU-844H1</td>
<td>40 CFR Part 60, Subpart Ja</td>
<td>60Ja-01</td>
<td>Facility Type = Process heater that is used for fuel gas that does NOT meet requirements in § 60.107a(a)(3). Heater Capacity = The process heater is rated equal to or greater than 100 MMBtu/hr. Construction/Modification Date = After June 24, 2008 Sulfur Emission Limit = Owner or operator is choosing SO\textsubscript{2} limit in terms of ppmv H\textsubscript{2}S in fuel gas.</td>
</tr>
<tr>
<td>DCU-844H2</td>
<td>40 CFR Part 60, Subpart Ja</td>
<td>60Ja-01</td>
<td>Facility Type = Process heater that is used for fuel gas that does NOT meet requirements in § 60.107a(a)(3). Heater Capacity = The process heater is rated equal to or greater than 100 MMBtu/hr. Construction/Modification Date = After June 24, 2008 Sulfur Emission Limit = Owner or operator is choosing SO\textsubscript{2} limit in terms of ppmv H\textsubscript{2}S in fuel gas.</td>
</tr>
<tr>
<td>E-05-SCOT</td>
<td>40 CFR Part 60, Subpart Ja</td>
<td>60Ja-02</td>
<td>Facility Type = Fuel gas combustion device, other than a flare or process heater, that does NOT meet requirements in § 60.107a(a)(3)(i)-(iv). Construction/Modification Date = After June 24, 2008 Sulfur Emission Limit = Owner or operator is choosing SO\textsubscript{2} limit in terms of ppmv H\textsubscript{2}S in fuel gas.</td>
</tr>
<tr>
<td>SRU-547</td>
<td>40 CFR Part 60, Subpart Ja</td>
<td>60Ja-02</td>
<td>Facility Type = Sulfur recovery plant greater than 20 long tons per day. Construction/Modification Date = After June 24, 2008 SRP SO\textsubscript{2} Control = Plant utilizes an oxidation control, or a reduction control system followed by incineration.</td>
</tr>
<tr>
<td>SRU-547</td>
<td>40 CFR Part 63, Subpart UUU</td>
<td>63UUU-1</td>
<td>SRU Emission Limitation = SRU using oxidation or reduction control system followed by incineration not subject to NSPS SO\textsubscript{2} emission limit in §60.104(a)(2) electing to comply with NSPS requirements of 250 ppmv. SRU Bypass Line = Install and operate an automated system to detect flow in the bypass line.</td>
</tr>
</tbody>
</table>

* - 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:

<table>
<thead>
<tr>
<th>NSR Permit</th>
<th>Federal Operating Permit (FOP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issued Prior to new Construction or modification of an existing facility</td>
<td>For initial permit with application shield, can be issued after operation commences; significant revisions require approval prior to operation.</td>
</tr>
<tr>
<td>Authorizes air emissions</td>
<td>Codifies existing applicable requirements, does not authorize new emissions</td>
</tr>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Up to two Public notices may be required. Opportunity for public comment and contested case hearings for some authorizations.</td>
<td>One public notice required. Opportunity for public comments. No contested case hearings.</td>
</tr>
<tr>
<td>Applies to all point source emissions in the state.</td>
<td>Applies to all major sources and some non-major sources identified by the EPA.</td>
</tr>
<tr>
<td>Applies to facilities: a portion of site or individual emission sources</td>
<td>One or multiple FOPs cover the entire site (consists of multiple facilities)</td>
</tr>
<tr>
<td>Permits include terms and conditions under which the applicant must construct and operate its various equipment and processes on a facility basis.</td>
<td>Permits include terms and conditions that specify the general operational requirements of the site; and also include codification of all applicable requirements for emission units at the site.</td>
</tr>
<tr>
<td>Opportunity for EPA review for Federal Prevention of Significant Deterioration (PSD) and Nonattainment (NA) permits for major sources.</td>
<td>Opportunity for EPA review, Affected states review, and a Public petition period for every FOP.</td>
</tr>
<tr>
<td>Permits have a table listing maximum emission limits for pollutants</td>
<td>Permit has an applicable requirements table and Periodic Monitoring (PM) / Compliance Assurance Monitoring (CAM) tables which document applicable monitoring requirements.</td>
</tr>
<tr>
<td>Permits can be altered or amended upon application by company. Permits must be issued before construction or modification of facilities can begin.</td>
<td>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.</td>
</tr>
<tr>
<td>NSR permits are issued independent of FOP requirements.</td>
<td>FOPs are independent of NSR permits, but contain a list of all NSR permits incorporated by reference</td>
</tr>
</tbody>
</table>

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 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 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

<table>
<thead>
<tr>
<th>Prevention of Significant Deterioration (PSD) Permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD Permit No.: GHGPSDXTX167</td>
</tr>
<tr>
<td>PSD Permit No.: PSDTX49M1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nonattainment (NA) Permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA Permit No.: N65</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorization No.: 154606</td>
</tr>
<tr>
<td>Authorization No.: 6825A</td>
</tr>
<tr>
<td>Authorization No.: 80812</td>
</tr>
<tr>
<td>Authorization No.: 86757</td>
</tr>
<tr>
<td>Authorization No.: 91911</td>
</tr>
</tbody>
</table>
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 sandblasting 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:

<table>
<thead>
<tr>
<th>Unit/Group/Process Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ID No.: SRU-547</td>
<td></td>
</tr>
<tr>
<td>Control Device ID No.: E-05-SCOT</td>
<td>Control Device Type: Sulfur Recovery Unit with Incinerator</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicable Regulatory Requirement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: 30 TAC Chapter 112, Sulfur Compounds</td>
<td>SOP Index No.: R2007-1</td>
</tr>
<tr>
<td>Pollutant: SO(_2)</td>
<td>Main Standard: § 112.7(a)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monitoring Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicator: Sulfur Dioxide Concentration</td>
<td></td>
</tr>
<tr>
<td>Minimum Frequency: four times per hour</td>
<td></td>
</tr>
<tr>
<td>Averaging Period: one hour</td>
<td></td>
</tr>
<tr>
<td>Deviation Limit: 2220 lbs SO(_2)/hr.</td>
<td></td>
</tr>
</tbody>
</table>

Basis of CAM: It is widely practiced and accepted to calibrate and use a portable analyzer or CEMS to measure SO\(_2\) concentration with procedures such as EPA Test Method 6C. 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.
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

1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on April 11, 2019.
   Site rating: 24.80 / Satisfactory  Company rating: 19.94 / 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-UA8 - Coal Preparation Plant Attributes
OP-UA9 - Nonmetallic Mineral Process Plant 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 - Metallic 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