

# Statement of Basis of the Federal Operating Permit

Tristream East Texas, LLC

Site Name: Eustace Gas Plant  
Physical Location: 16401 County Road 2854  
Nearest City: Eustace  
County: Henderson

Permit Number: O3381  
Project Type: Renewal

Standard Industrial Classification (SIC) Code: 1321  
SIC Name: Natural Gas Liquids

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: January 21, 2016

## Operating Permit Basis of Determination

### Permit Area Process Description

The facility is a natural gas processing facility capable of producing 70 million (MM) SCFD of gas with roughly 30% H<sub>2</sub>S. The inlet gas comes in from two streams, one from a local field (low pressure) and the other from Myrtle Springs Separation and Condensate Stabilization Station (high pressure). The low pressure gas (about 80 psig) accounts for less than 15% of the total gas that enters the facility. The low pressure gas is compressed to 175 psig and sent to a low pressure sulfinol contactor to absorb CO<sub>2</sub> and H<sub>2</sub>S. Then, the gas is further compressed to 800 psig before it goes to plant processing. The high pressure gas enters the facility at 840 psig and goes to a high pressure sulfinol contactor and is compressed if necessary to maintain 800 psig before it goes to processor.

The first stage in processing is dehydrating the sweet gas. Dry gas then enters the cryogenic unit where natural gas liquids (NGL) are removed and routed offsite via pipeline and/or trucks. The remaining sweet natural gas is routed to a nitrogen removal unit where fuel-bound nitrogen is removed from the gas. Finally, the sweet natural gas is pumped to pipeline pressure and shipped to be sold via pipeline.

Each one of the three gas turbines generates 3 KW of electricity for the plant. Steam production for the plant is shared between heat recovery boilers and duct burners.

### 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	SO <sub>2</sub> , NO <sub>X</sub> , CO
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### 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:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	Yes
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)	No
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	No
CAIR (Clean Air Interstate Rule)	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

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.

## Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*
FWPUMP	30 TAC Chapter 117, East Texas Combustion	R117SUBE	Unit Type = The engine has a maximum rated horsepower capacity less than 240 hp.
FWPUMP	40 CFR Part 63, Subpart ZZZZ	63ZZZZ	<p>HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.</p> <p>Brake HP = Stationary RICE with a brake HP greater than or equal to 100 HP and less than 250 HP.</p> <p>Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.</p> <p>Different Schedule = Schedule specified in Subpart ZZZZ for submission of reports applies.</p> <p>Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.</p> <p>Service Type = Emergency use where the RICE does not operate or is not contractually obligated to be available for more than 15 hours per calendar year as specified in 40 CFR §63.6640(f)(2)(ii)-(iii) or does not operate as specified in 40 CFR §63.6640(f)(4)(ii).</p> <p>Stationary RICE Type = Compression ignition engine</p>
GRP-ENG1	30 TAC Chapter 117, East Texas Combustion	R117SUBE	<p>Unit Type = The unit does not qualify for any exemptions under the rule.</p> <p>Horsepower Rating = Horsepower rating is 500 HP or greater</p> <p>Landfill = The engine is not fired on landfill gas.</p> <p>Control Operations = The engine is controlled with nonselective catalytic reduction.</p> <p>NOx and O2 Monitoring = The engine is not using a CEMS or PEMS to monitor for NO<sub>x</sub> or O<sub>2</sub> and is complying with § 117.3330(b)(3) monitoring.</p> <p>Ammonia Use = Ammonia injection is not used to control NO<sub>x</sub> emissions.</p>
GRP-ENG1	40 CFR Part 63, Subpart ZZZZ	63ZZZZ	<p>HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.</p> <p>Brake HP = Stationary RICE with a brake HP greater than 500 HP.</p> <p>Operating Hours = The stationary RICE is operated more than 24 hours per calendar year.</p> <p>Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.</p> <p>Different Schedule = Schedule specified in Subpart ZZZZ for submission of reports applies.</p> <p>Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.</p> <p>Service Type = Normal use.</p> <p>Stationary RICE Type = Remote 4 stroke spark ignited rich burn engine.</p>
GRP-ENG2	30 TAC Chapter 117, East Texas Combustion	R117SUBE	<p>Unit Type = The unit does not qualify for any exemptions under the rule.</p> <p>Horsepower Rating = Horsepower rating is 500 HP or greater</p> <p>Landfill = The engine is not fired on landfill gas.</p> <p>Control Operations = The engine is controlled with nonselective catalytic reduction.</p> <p>NOx and O2 Monitoring = The engine is not using a CEMS or PEMS to monitor for NO<sub>x</sub> or O<sub>2</sub> and is complying with § 117.3330(b)(3) monitoring.</p> <p>Ammonia Use = Ammonia injection is not used to control NO<sub>x</sub> emissions.</p>
GRP-ENG2	40 CFR Part 63, Subpart ZZZZ	63ZZZZ	<p>HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.</p> <p>Brake HP = Stationary RICE with a brake HP greater than 500 HP.</p>

Unit ID	Regulation	Index Number	Basis of Determination*
			<p>Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.</p> <p>Different Schedule = Schedule specified in Subpart ZZZZ for submission of reports applies.</p> <p>Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.</p> <p>Service Type = Normal use.</p> <p>Stationary RICE Type = Remote 4 stroke spark ignited rich burn engine.</p>
BOZURN	40 CFR Part 60, Subpart D	40CFR60SUBD	<p>Construction/Modification Date = After September 18, 1978.</p> <p>Covered Under Subpart Da = The steam generating unit is not covered under 40 CFR Part 60, Subpart Da.</p> <p>Changes to Existing Affected Facility = No change has been made to the existing fossil fuel-fired steam generating unit.</p> <p>Heat Input Rate = Heat input rate is less than or equal to 250 MMBtu/hr (73 MW).</p>
BOZURN	40 CFR Part 60, Subpart Db	40CFR60SUBDB	<p>Construction/Modification Date = On or before June 19, 1984.</p>
GRP-AUXWHRU	40 CFR Part 60, Subpart D	40CFR60SUBD	<p>Construction/Modification Date = After December 22, 1976, and on or before September 18, 1978.</p> <p>Covered Under Subpart Da = The steam generating unit is not covered under 40 CFR Part 60, Subpart Da.</p> <p>Changes to Existing Affected Facility = No change has been made to the existing fossil fuel-fired steam generating unit.</p> <p>Heat Input Rate = Heat input rate is less than or equal to 250 MMBtu/hr (73 MW).</p>
FL-CPLT	30 TAC Chapter 111, Visible Emissions	R111	<p>Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.</p> <p>Emergency/Upset Conditions Only = Flare is used only under emergency or upset conditions.</p>
FL-CPLT	40 CFR Part 60, Subpart A	40CFR60SUBA	<p>Subject to 40 CFR § 60.18 = Flare is subject to 40 CFR § 60.18.</p> <p>Adhering to Heat Content Specifications = Adhering to the heat content specifications in 40 CFR § 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR § 60.18(c)(4).</p> <p>Flare Assist Type = Steam-assisted</p> <p>Flare Exit Velocity = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec).</p> <p>Heating Value of Gas = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm)</p>
FL-CPLT	40 CFR Part 63, Subpart A	40CFR63SUBA	<p>Required Under 40 CFR Part 63 = Flare is not required by a Subpart under 40 CFR Part 63.</p>
FL-FIELD	30 TAC Chapter 111, Visible Emissions	R111	<p>Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.</p> <p>Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions.</p>
FL-FIELD	40 CFR Part 60, Subpart A	40CFR60SUBA	<p>Subject to 40 CFR § 60.18 = Flare is not subject to 40 CFR § 60.18.</p>
FL-FIELD	40 CFR Part 63, Subpart A	40CFR63SUBA	<p>Required Under 40 CFR Part 63 = Flare is not required by a Subpart under 40 CFR Part 63.</p>
FL-PROC	30 TAC Chapter 111, Visible Emissions	R111	<p>Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.</p> <p>Emergency/Upset Conditions Only = Flare is used only under emergency or upset conditions.</p>
FL-PROC	40 CFR Part 60,	40CFR60SUBA	<p>Subject to 40 CFR § 60.18 = Flare is not subject to 40 CFR § 60.18.</p>

Unit ID	Regulation	Index Number	Basis of Determination*
	Subpart A		
FL-PROC	40 CFR Part 63, Subpart A	40CFR63SUBA	Required Under 40 CFR Part 63 = Flare is not required by a Subpart under 40 CFR Part 63.
PROSRU	30 TAC Chapter 112, Sulfur Compounds	R112	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.
PROSRU	40 CFR Part 60, Subpart LLL	R112	Onshore = The sweetening unit is located onshore at a gas processing plant. Construction Date = On or before January 20, 1984. Acid Gas Vented = Acid gas is vented (acid gas is not completely reinjected into oil- or gas-bearing strata or is otherwise released into the atmosphere [burning is considered to be a release into the atmosphere]).
GRP-TRB	30 TAC Chapter 117, Subchapter E, Division 1	R117-E-D1	Date Placed in Service = Prior to December 31, 1995. Unit = Turbine generates electric energy primarily for internal use.
GRP-TRB	40 CFR Part 60, Subpart GG	40CFR60SUBGG	Duct Burner = The turbine is part of a combined cycle turbine system equipped with supplemental heat (duct burner). NOx Control Method = No NO <sub>x</sub> control method is used. Peak Load Heat Input = Heat Input is greater or equal to 10 MMBtu/hr (10.7 GJ/hr) and less than or equal to 100 MMBtu/hr (107.2 GJ/hr). Construction/Modification Date = After October 3, 1977 and on or before January 27, 1982. NOx Allowance = The owner or operator is not electing to use a NO <sub>x</sub> allowance in determining emission limits in 40 CFR § 60.332(a). NOx Monitoring Method = No continuous monitoring system is used. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Natural gas meeting the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored.
GRP-TRB	40 CFR Part 60, Subpart KKKK	60KKKK	Unit Type = Combined Cycle Combustion Turbine Construction/Modification Date = Turbine was constructed, reconstructed or modified on or before February 18, 2005.
FUG-CRYO	40 CFR Part 60, Subpart KKK	60KKK	Closed Vent Systems = No closed-vent systems addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit. Facility Type = Affected facility is the group of all equipment except compressors within a process unit. Heavy Liquid Service = No pump in heavy liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit. Light Liquid Service = No pressure relief device in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit. Open-Ended Valves or Lines = No open-ended valves or lines addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit. Vacuum Service = No component in vacuum service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit. Vapor Recovery System = No vapor recovery system addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit. AMEL = Not using alternate means of emission limitation. Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10. Construction/Modification Date = After January 20, 1984 and on or before August 23, 2011.

Unit ID	Regulation	Index Number	Basis of Determination*
			<p>Gas/Vapor Service = Valves in gas/vapor service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Non-VOC or Non-Wet Gas Service = Component in non-VOC or non-wet gas service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Facility Covered by 40 CFR Part 60, Subparts VV or GGG = Facility not covered by NSPS Subpart VV or Subpart GGG or NESHAP Subpart V.</p> <p>Light Liquid Service = No pump in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-6 = Not complying with 40 CFR 60.482-6.</p> <p>Complying With § 60.482-8 = Not complying with 40 CFR 60.482-8.</p> <p>Compressors = Compressor in VOC or Wet Gas Service.</p> <p>Enclosed Combustion Device = No enclosed combustion device addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Complying With § 60.482-7 = Not complying with 40 CFR 60.482-7.</p> <p>Control Devices Used to Comply With AMEL = No control devices used to comply with AMEL.</p> <p>Flanges and Other Connectors = Flanges or other connectors addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Gas/Vapor Service = Pressure relief device in gas/vapor service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Heavy Liquid Service = No pressure relief device in heavy liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Reciprocating Compressor in Wet Gas Service = Reciprocating compressor not in wet gas service (or not reciprocating compressor).</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Complying With § 60.482-2 = Not complying with 40 CFR 60.482-2.</p> <p>Light Liquid Service = Valves in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Flare = Flare control device addressed in 40 CFR 60 (NSPS) Subpart KKK.</p> <p>Complying With § 60.482-3 = Not complying with 40 CFR 60.482-3.</p> <p>Complying With § 60.482-4 = Not complying with 40 CFR 60.482-4.</p> <p>Complying With § 60.482-8 = Not complying with 40 CFR 60.482-8.</p> <p>Complying With § 60.482-7 = Not complying with 40 CFR 60.482-7.</p>
FUG-NRU	40 CFR Part 60, Subpart KKK	60KKK	<p>Closed Vent Systems = No closed-vent systems addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Facility Type = Affected facility is the group of all equipment except compressors within a process unit.</p> <p>Heavy Liquid Service = No pump in heavy liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Light Liquid Service = No pressure relief device in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Open-Ended Valves or Lines = No open-ended valves or lines addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Vacuum Service = No component in vacuum service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Vapor Recovery System = No vapor recovery system addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p>

Unit ID	Regulation	Index Number	Basis of Determination*
			<p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Construction/Modification Date = After January 20, 1984 and on or before August 23, 2011.</p> <p>Gas/Vapor Service = Valves in gas/vapor service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Non-VOC or Non-Wet Gas Service = Component in non-VOC or non-wet gas service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Facility Covered by 40 CFR Part 60, Subparts VV or GGG = Facility not covered by NSPS Subpart VV or Subpart GGG or NESHAP Subpart V.</p> <p>Light Liquid Service = No pump in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-6 = Not complying with 40 CFR 60.482-6.</p> <p>Complying With § 60.482-8 = Not complying with 40 CFR 60.482-8.</p> <p>Compressors = Compressor in VOC or Wet Gas Service.</p> <p>Enclosed Combustion Device = No enclosed combustion device addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Complying With § 60.482-7 = Not complying with 40 CFR 60.482-7.</p> <p>Control Devices Used to Comply With AMEL = No control devices used to comply with AMEL.</p> <p>Flanges and Other Connectors = Flanges or other connectors addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Gas/Vapor Service = Pressure relief device in gas/vapor service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Heavy Liquid Service = No pressure relief device in heavy liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Reciprocating Compressor in Wet Gas Service = Reciprocating compressor not in wet gas service (or not reciprocating compressor).</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Complying With § 60.482-2 = Not complying with 40 CFR 60.482-2.</p> <p>Light Liquid Service = Valves in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Flare = No flare control device addressed in 40 CFR 60 (NSPS) Subpart KKK.</p> <p>Complying With § 60.482-3 = Not complying with 40 CFR 60.482-3.</p> <p>Complying With § 60.482-4 = Not complying with 40 CFR 60.482-4.</p> <p>Complying With § 60.482-8 = Not complying with 40 CFR 60.482-8.</p> <p>Complying With § 60.482-7 = Not complying with 40 CFR 60.482-7.</p>
SITEFUG	40 CFR Part 60, Subpart KKK	60KKK	<p>Facility Type = Affected facility is the group of all equipment except compressors within a process unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Construction/Modification Date = On or before January 20, 1984.</p> <p>Complying With § 60.482-6 = Not complying with 40 CFR 60.482-6.</p>
SLGFUG	40 CFR Part 60, Subpart KKK	60KKK	<p>Closed Vent Systems = No closed-vent systems addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Facility Type = Affected facility is the group of all equipment except compressors within a process unit.</p>

Unit ID	Regulation	Index Number	Basis of Determination*
			<p>Heavy Liquid Service = No pump in heavy liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Light Liquid Service = No pressure relief device in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Open-Ended Valves or Lines = No open-ended valves or lines addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Vacuum Service = No component in vacuum service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Vapor Recovery System = No vapor recovery system addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Construction/Modification Date = After January 20, 1984 and on or before August 23, 2011.</p> <p>Gas/Vapor Service = Valves in gas/vapor service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Non-VOC or Non-Wet Gas Service = Component in non-VOC or non-wet gas service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Facility Covered by 40 CFR Part 60, Subparts VV or GGG = Facility not covered by NSPS Subpart VV or Subpart GGG or NESHAP Subpart V.</p> <p>Light Liquid Service = No pump in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-6 = Not complying with 40 CFR 60.482-6.</p> <p>Complying With § 60.482-8 = Not complying with 40 CFR 60.482-8.</p> <p>Compressors = Compressor not in VOC or Wet Gas Service.</p> <p>Enclosed Combustion Device = No enclosed combustion device addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Complying With § 60.482-7 = Not complying with 40 CFR 60.482-7.</p> <p>Control Devices Used to Comply With AMEL = No control devices used to comply with AMEL.</p> <p>Flanges and Other Connectors = Flanges or other connectors addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Gas/Vapor Service = No pressure relief device in gas/vapor service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Heavy Liquid Service = No pressure relief device in heavy liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>Reciprocating Compressor in Wet Gas Service = Reciprocating compressor not in wet gas service (or not reciprocating compressor).</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Complying With § 60.482-10 = Not complying with 40 CFR 60.482-10.</p> <p>Complying With § 60.482-2 = Not complying with 40 CFR 60.482-2.</p> <p>Light Liquid Service = Valves in light liquid service addressed in 40 CFR 60 (NSPS) Subpart KKK included in the fugitive unit.</p> <p>AMEL = Not using alternate means of emission limitation.</p> <p>Flare = No flare control device addressed in 40 CFR 60 (NSPS) Subpart KKK.</p> <p>Complying With § 60.482-3 = Not complying with 40 CFR 60.482-3.</p> <p>Complying With § 60.482-4 = Not complying with 40 CFR 60.482-4.</p> <p>Complying With § 60.482-8 = Not complying with 40 CFR 60.482-8.</p> <p>Complying With § 60.482-7 = Not complying with 40 CFR 60.482-7.</p>

Unit ID	Regulation	Index Number	Basis of Determination*
CT-1	40 CFR Part 63, Subpart Q	40CFR63SUBQ	Used Compounds Containing Chromium on or After September 8, 1994 = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.

\* - 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 also 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.	FOP 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. 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. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

[www.tceq.texas.gov/permitting/air/permitbyrule/historical\\_rules/old106list/index106.html](http://www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html)

Outdated Standard Exemption lists may be viewed at the following Web site:

[www.tceq.texas.gov/permitting/air/permitbyrule/historical\\_rules/oldselist/se\\_index.html](http://www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html)

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

[www.tceq.texas.gov/permitting/air/nav/air\\_status\\_permits.html](http://www.tceq.texas.gov/permitting/air/nav/air_status_permits.html)

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX55M3	Issuance Date: 07/28/2010
<b>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.</b>	
Authorization No.: 6051	Issuance Date: 07/28/2010
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
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: 106.352	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

### **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:

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG1	
Control Device ID No.: CMK201A-CC	Control Device Type: Other Control Device Type
Control Device ID No.: CMK201B-CC	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 106, Permits by Rule	SOP Index No.: N/A
Pollutant: CO	Main Standard: 106.512
<b>Monitoring Information</b>	
Indicator: CO emission rate	
Minimum Frequency: Quarterly	
Averaging Period: n/a	
Deviation Limit: The maximum hourly CO emission rate shall not exceed 5.29 lb/hr for each engine.	
Basis of CAM: 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.	

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG1	
Control Device ID No.: CMK201A-CC	Control Device Type: Other Control Device Type
Control Device ID No.: CMK201B-CC	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 106, Permits by Rule	SOP Index No.: N/A
Pollutant: CO	Main Standard: 106.512
<b>Monitoring Information</b>	
Indicator: Fuel consumption	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: Fuel usage shall not exceed 166.7 scfm for each engine.	
Basis of CAM: 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.	

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG1	
Control Device ID No.: CMK201A-CC	Control Device Type: Other Control Device Type
Control Device ID No.: CMK201B-CC	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 106, Permits by Rule	SOP Index No.: N/A
Pollutant: NOX	Main Standard: 106.512
<b>Monitoring Information</b>	
Indicator: Fuel Consumption	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Fuel usage shall not exceed 166.7 scfm for each engine.	
Basis of CAM: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a correlation between fuel consumption and emission rates. In situations where such a correlation exists, measuring, calculating and recording the fuel consumption rate indicates whether the emission limitation or standard is being met.	

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG1	
Control Device ID No.: CMK201A-CC	Control Device Type: Other Control Device Type
Control Device ID No.: CMK201B-CC	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 106, Permits by Rule	SOP Index No.: N/A
Pollutant: NOX	Main Standard: 106.512
<b>Monitoring Information</b>	
Indicator: NO <sub>x</sub> Concentration	
Minimum Frequency: once every two years	
Averaging Period: n/a	
Deviation Limit: The maximum hourly NO <sub>x</sub> emission rate shall not exceed 2.65 lb/hr for each engine.	
Basis of CAM: A common way to reduce NO <sub>x</sub> emissions is by the use of a catalytic converter. A catalytic converter uses a catalyst such as platinum and rhodium to reduce the NO <sub>x</sub> emissions. When an NO or NO <sub>2</sub> molecule contacts the catalyst, the catalyst frees oxygen and allows the formation of N <sub>2</sub> in lieu of NO <sub>x</sub> . Parameters that may be measured to determine control device performance include the outlet NO <sub>x</sub> concentration, the inlet temperature of the catalyst and the oxygen concentration in the exhaust gas.	

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG1	
Control Device ID No.: CMK201A-CC	Control Device Type: Catalytic Converter
Control Device ID No.: CMK201B-CC	Control Device Type: Catalytic Converter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 117, East Texas Combustion	SOP Index No.: R117SUBE
Pollutant: NO <sub>x</sub>	Main Standard: § 117.3310(a)(2)(B)
<b>Monitoring Information</b>	
Indicator: Fuel Consumption	
Minimum Frequency: once per day	
Averaging Period: n/a*	
Deviation Limit: The maximum fuel consumption shall not exceed 166.7 scfm for each engine.	
Basis of CAM: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a correlation between fuel consumption and emission rates. In situations where such a correlation exists, measuring, calculating and recording the fuel consumption rate indicates whether the emission limitation or standard is being met.	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG1	
Control Device ID No.: CMK201A-CC	Control Device Type: Catalytic Converter
Control Device ID No.: CMK201B-CC	Control Device Type: Catalytic Converter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 117, East Texas Combustion	SOP Index No.: R117SUBE
Pollutant: NO <sub>x</sub>	Main Standard: § 117.3310(a)(2)(B)
<b>Monitoring Information</b>	
Indicator: NO <sub>x</sub> Concentration	
Minimum Frequency: once per quarter	
Averaging Period: n/a*	
Deviation Limit: The maximum NO <sub>x</sub> concentration shall not exceed 0.50 g/hp-hr.	
Basis of CAM: A common way to reduce NO <sub>x</sub> emissions is by the use of a catalytic converter. A catalytic converter uses a catalyst such as platinum and rhodium to reduce the NO <sub>x</sub> emissions. When an NO or NO <sub>2</sub> molecule contacts the catalyst, the catalyst frees oxygen and allows the formation of N <sub>2</sub> in lieu of NO <sub>x</sub> . Parameters that may be measured to determine control device performance include the outlet NO <sub>x</sub> concentration, the inlet temperature of the catalyst and the oxygen concentration in the exhaust gas.	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG2	
Control Device ID No.: CMK201C-CC	Control Device Type: Catalytic Converter
Control Device ID No.: CMK201D-CC	Control Device Type: Catalytic Converter
Control Device ID No.: CMK201E-CC	Control Device Type: Catalytic Converter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 117, East Texas Combustion	SOP Index No.: R117SUBE
Pollutant: NO <sub>x</sub>	Main Standard: § 117.3310(a)(2)(B)
<b>Monitoring Information</b>	
Indicator: Fuel Consumption	
Minimum Frequency: once per day	
Averaging Period: n/a*	
Deviation Limit: The maximum fuel consumption shall not exceed 166.7 scfm for each engine.	
Basis of CAM: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a correlation between fuel consumption and emission rates. In situations where such a correlation exists, measuring, calculating and recording the fuel consumption rate indicates whether the emission limitation or standard is being met.	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

<b>Unit/Group/Process Information</b>	
ID No.: GRP-ENG2	
Control Device ID No.: CMK201C-CC	Control Device Type: Catalytic Converter
Control Device ID No.: CMK201D-CC	Control Device Type: Catalytic Converter
Control Device ID No.: CMK201E-CC	Control Device Type: Catalytic Converter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 117, East Texas Combustion	SOP Index No.: R117SUBE
Pollutant: NO <sub>x</sub>	Main Standard: § 117.3310(a)(2)(B)
<b>Monitoring Information</b>	
Indicator: NO <sub>x</sub> Concentration	
Minimum Frequency: once per quarter	
Averaging Period: n/a*	
Deviation Limit: The Maximum NO <sub>x</sub> concentration shall not exceed 0.50 g/hp-hr.	
Basis of CAM: A common way to reduce NO <sub>x</sub> emissions is by the use of a catalytic converter. A catalytic converter uses a catalyst such as platinum and rhodium to reduce the NO <sub>x</sub> emissions. When an NO or NO <sub>2</sub> molecule contacts the catalyst, the catalyst frees oxygen and allows the formation of N <sub>2</sub> in lieu of NO <sub>x</sub> . Parameters that may be measured to determine control device performance include the outlet NO <sub>x</sub> concentration, the inlet temperature of the catalyst and the oxygen concentration in the exhaust gas.	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

**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:

<b>Unit/Group/Process Information</b>	
ID No.: PROSRU	
Control Device ID No.: INSTK	Control Device Type: Sulfur Recovery Unit with Incinerator
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112
Pollutant: SO <sub>2</sub>	Main Standard: § 112.7(a)
<b>Monitoring Information</b>	
Indicator: SO <sub>2</sub> Concentration	
Minimum Frequency: Four times per hour	
Averaging Period: Hourly	
Deviation Limit: Any monitoring data above the SO <sub>2</sub> emission limit of 1847 lbs/hr shall be considered and reported as a deviation.	
Basis of monitoring: It is widely practiced and accepted to calibrate and use a portable analyzer or CEMS to measure SO <sub>2</sub> 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.	

**Compliance Review**

1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on November 20, 2015.

Site rating: 32.43 / Satisfactory Company rating: 16.40 / 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