Statement of Basis of the Federal Operating Permit

Texas City Cogeneration, LLC

Site Name: Texas City Cogeneration
Physical Location: 3221 5th Ave S
Nearest City: Texas City
County: Galveston

Permit Number: O89
Project Type: Renewal

The North American Industry Classification System (NAICS) Code: 221112
NAICS Name: Fossil Fuel Electric Power Generation

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: June 5, 2019
Operating Permit
Basis of Determination

Permit Area Process Description

Three gas-fired stationary turbines are operated with three gas-fired heat recovery steam generators (HRSG) and one steam turbine to produce superheated steam and up to 450 MW of electrical power, with most of the electric power generally being directed to the local utility grid system for sale and distribution. A portion of the steam is sold to local industry or for use in plant processes.

FOPs at Site

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

Additional FOPs: None

Major Source Pollutants

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

| Major Pollutants | VOC, PM, NOX, CO |

Reading State of Texas's Federal Operating Permit

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

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

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

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

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

**Federal Regulatory Applicability Determinations**

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

<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>No</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>No</td>
</tr>
<tr>
<td>40 CFR Part 63 - NESHAPs for Source Categories</td>
<td>No</td>
</tr>
<tr>
<td>Title IV (Acid Rain) of the Clean Air Act (CAA)</td>
<td>Yes</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>Yes</td>
</tr>
<tr>
<td>Federal Implementation Plan for Regional Haze (Texas SO\textsubscript{2} Trading Program)</td>
<td>Yes</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.
Acid Rain Permit

The permitted area is subject to Federal Clean Air Act Title IV Acid Rain rules for Phase II units, as codified in 40 CFR Parts 72 through 78, because it meets the definition of “affected source.” Applicability of affected sources are defined in 40 CFR § 72.6 and include those sources that burn fossil fuel, and generates electricity for sale. Under 40 CFR Part 72, incorporated by reference into 30 TAC Chapter 122, all acid rain permits must contain specific terms and conditions, including monitoring, reporting, recordkeeping and excess emission requirements, established by the U.S. EPA. The Title IV permitting procedures are described within 30 TAC Chapter 122, Subchapter E. The applicable requirements of the Acid Rain Permit are contained in the Special Terms and Conditions of the FOP. The Acid Rain permit is effective as of the date of the issuance of the FOP and has a term ending in concurrence with the FOP.

Cross-State Air Pollution Rule

The Cross-State Air Pollution Rule (CSAPR) was established to mitigate the interstate transport of NO\textsubscript{x} and SO\textsubscript{2} which contribute to the formation of fine particles (PM\textsubscript{2.5}) and ground-level ozone and has replaced the previous Clean Air Interstate Rule (CAIR) program. The EPA has promulgated a model cap and trade program in 40 CFR Part 97 to implement CSAPR. While Texas is no longer included in the CSAPR NO\textsubscript{x} or SO\textsubscript{2} Annual Trading Programs, Texas remains included in the CSAPR NO\textsubscript{x} Ozone Season Group 2 Trading Program for the 2008 Ozone National Ambient Air Quality Standards. This rule has been adopted by reference into 30 TAC Chapter 122 as part of an effective rulemaking (Rule Project No. 2016-012-122-AL), which included the repeal of 30 TAC Chapter 122, Subchapter E, Division 2: Clean Air Interstate Rule.

The permitted area is subject to CSAPR as it contains units that meet a definition of a CSAPR unit in 40 CFR Part 97 (CSAPR NO\textsubscript{x} and SO\textsubscript{2} Trading Programs). The applicable CSAPR requirements are contained in the Special Terms and Conditions of the FOP.

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

<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination*</th>
</tr>
</thead>
</table>
| TK9100 | 30 TAC Chapter 115, Storage of VOCs | 115TK-1 | Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.  
Tank Description = Tank does not require emission controls  
Product Stored = Crude oil and/or condensate  
True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia  
Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 40,000 gallons |
| TK9100 | 40 CFR Part 60, Subpart Kb | 60Kb-1 | Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated after custody transfer  
Storage Capacity = Capacity is less than 10,600 gallons (40,000 liters) |
| LOAD-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | 115-LOAD1 | Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal.  
Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.  
Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline.  
Transfer Type = Only loading.  
True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia.  
Daily Throughput = Loading less than 20,000 gallons per day. |
| LOAD-2 | 30 TAC Chapter 115, Loading and Unloading of VOC | 115-LOAD2 | Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal.  
Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.  
Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline.  
Transfer Type = Loading and unloading.  
True Vapor Pressure = True vapor pressure less than 0.5 psia. |
| GRP-BLR | 40 CFR Part 60, Subpart Db | 60Db | 60.42b(k)(2) Low Sulfur Exemption = The § 60.42b(k)(2) exemption applies.  
Construction/Modification Date = Constructed or reconstructed after February 28, 2005.  
D-Series Fuel Type #1 = Natural gas.  
60.42b(k)(4) Alternative = The requirements of § 60.42b(k)(1) are used.  
Heat Input Capacity = Heat input capacity is greater than 250 MMBtu/hr (73 MW).  
PM Monitoring Type = No particulate monitoring.  
Opacity Monitoring Type = No particulate (opacity) monitoring.  
Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da.  
60.43b(h)(2) Alternative = The facility is not electing to use the alternative requirements of § 60.43b(h)(2) for PM.  
Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. |
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>NOx Monitoring Type = Continuous emission monitoring system used to comply with 40 CFR Part 75. Electrical or Mechanical Output = More than 10% of the annual output is electrical or mechanical. SO2 Monitoring Type = No SO2 monitoring. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA. Subpart J = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart J. Output Based Limit = The facility is not electing to comply with the output based limit in § 60.44b(t)(3). Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E. Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Technology Type = None. ACF Option - SO2 = Other ACF or no ACF. Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. Unit Type = OTHER UNIT TYPE ACF Option - PM = Other ACF or no ACF. Heat Release Rate = Natural gas oil with a heat release rate greater than 70 MBtu/hr/ft³. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. ACF Option - NOx = Other ACF or no ACF. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative.</td>
</tr>
<tr>
<td>GRP-HRSG</td>
<td>40 CFR Part 60, Subpart Da</td>
<td>60Da-1</td>
<td>Construction/Modification Date = Constructed after July 9, 1997, and on or before February 28, 2005. Fuel Pretreatment = Fuel pretreatment credit is not claimed. Combined Cycle System = The unit is used in conjunction with an electric utility combined cycle gas turbine not designed to burn fuels containing 50 percent (by heat input) or more solid derived fuel not meeting the definition of natural gas. Heat Input of Fossil Fuel = Heat input of fossil fuel is greater than 250 MMBtu/hr (73 MW). Unit Type = Not a resource recovery unit. D-Series Fuel Type #1 = Natural gas. Duct Burner = The unit is a duct burner. Opacity Monitoring Type = No monitoring for opacity, a CEMS is used to monitor PM. Changes to Existing Affected Facility = Changes have not been made to the existing fossil fuel-fired steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Da, to accommodate the use of fuels not previously fired. NOx Flow Monitoring System = Fuel flow monitoring system certified and operated according to the requirements of 40 CFR Part 75, Appendix D (gas-fired or oil-fired units only) [in accordance with 40 CFR § 60.49Da(n)]. NOx Monitoring Type = Continuous emission monitoring system installed to meet the requirements of Part 75. Commercial Demonstration Permit = The EPA Administrator has not issued a commercial demonstration permit (CDP). Combined Cycle Type = Combined cycle gas turbine (other than an IGCC) that is not subject to NSPS KKKK. SO2 Emission Rate = SO2 emission rate is less than 0.20 lb/MMBtu (86 ng/J) heat input.</td>
</tr>
<tr>
<td>Unit ID</td>
<td>Regulation</td>
<td>Index Number</td>
<td>Basis of Determination*</td>
</tr>
<tr>
<td>--------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------------------</td>
</tr>
</tbody>
</table>
| GRP-HRSG | 40 CFR Part 60, Subpart Da | 60Da-2 | **FGD** = The facility does not have a flue gas desulfurization system.  
**Construction/Modification Date** = Constructed after July 9, 1997, and on or before February 28, 2005.  
**Fuel Pretreatment** = Fuel pretreatment credit is not claimed.  
**Combined Cycle System** = The unit is used in conjunction with an electric utility combined cycle gas turbine not designed to burn fuels containing 50 percent (by heat input) or more solid derived fuel not meeting the definition of natural gas.  
**Heat Input of Fossil Fuel** = Heat input of fossil fuel is greater than 250 MMBtu/hr (73 MW).  
**Unit Type** = Not a resource recovery unit.  
**D-Series Fuel Type #1** = Natural gas.  
**Duct Burner** = The unit is a duct burner.  
**D-Series Fuel Type #2** = Gaseous fossil fuel.  
**Opacity Monitoring Type** = No monitoring for opacity, a CEMS is used to monitor PM.  
**Changes to Existing Affected Facility** = Changes have not been made to the existing fossil fuel-fired steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Da, to accommodate the use of fuels not previously fired.  
**NOx Flow Monitoring System** = Fuel flow monitoring system certified and operated according to the requirements of 40 CFR Part 75, Appendix D (gas-fired or oil-fired units only) [in accordance with 40 CFR § 60.49Da(n)].  
**NOx Monitoring Type** = Continuous emission monitoring system installed to meet the requirements of Part 75.  
**Commercial Demonstration Permit** = The EPA Administrator has not issued a commercial demonstration permit (CDP).  
**Combined Cycle Type** = Combined cycle gas turbine (other than an IGCC) that is not subject to NSPS KKKK.  
**SO2 Emission Rate** = SO\(_2\) emission rate is less than 0.20 lb/MMBtu (86 ng/J) heat input.  
**FGD** = The facility does not have a flue gas desulfurization system.  |
| GRP-HRSG | 30 TAC Chapter 117, Subchapter B | R7ICI-MSS | **Fuel Flow Monitoring** = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).  
**Megawatt Rating** = MR is greater than or equal to 30 MW.  
**CO Emission Limitation** = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125, 117.325 or 117.425.  
**EGF System Cap Unit** = The engine is used as an electric generating facility to generate electricity for sale to the electric grid.  
**Averaging Method** = Complying with the applicable emission limit using a 30-day rolling average.  
**CO Monitoring System** = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1).  
**NOx Reduction** = No NO\(_x\) reduction.  
**Service Type** = Duct burner used in turbine exhaust.  
**NOx Emission Limitation** = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11).  
**NOx Monitoring System** = Continuous emission monitoring system as required by 40 CFR Part 75.  |
| GRP-HRSG | 30 TAC Chapter 117, Subchapter B | R7ICI-NORMAL | **Fuel Flow Monitoring** = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).  
**Megawatt Rating** = MR is greater than or equal to 30 MW.  
**CO Emission Limitation** = Title 30 TAC § 117.310(c)(1).  |
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Regulation</th>
<th>Index Number</th>
<th>Basis of Determination*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>EGF System Cap Unit = The engine is used as an electric generating facility to generate electricity for sale to the electric grid. Averaging Method = Complying with the applicable emission limit using a 30-day rolling average. CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1). NOx Reduction = No NOx reduction. Service Type = Duct burner used in turbine exhaust. NOx Emission Limitation = Title 30 TAC §§117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11). NOx Monitoring System = Continuous emission monitoring system as required by 40 CFR Part 75.</td>
</tr>
<tr>
<td>GRP-TURB</td>
<td>30 TAC Chapter 117, Subchapter B</td>
<td>R7ICI-MSS</td>
<td>Fuel Flow Monitoring = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§117.140(a), 117.340(a) or 117.440(a). Megawatt Rating = MR is greater than or equal to 30 MW. CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§117.125, 117.325 or 117.425. EGF System Cap Unit = The engine is used as an electric generating facility to generate electricity for sale to the electric grid. Averaging Method = Complying with the applicable emission limit using a 30-day rolling average. CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1). NOx Reduction = No NOx reduction. Service Type = Stationary gas turbine. NOx Emission Limitation = Title 30 TAC §§117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11). NOx Monitoring System = Continuous emission monitoring system as required by 40 CFR Part 75.</td>
</tr>
<tr>
<td>GRP-TURB</td>
<td>30 TAC Chapter 117, Subchapter B</td>
<td>R7ICI-NORMAL</td>
<td>Fuel Flow Monitoring = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§117.140(a), 117.340(a) or 117.440(a). Megawatt Rating = MR is greater than or equal to 30 MW. CO Emission Limitation = Title 30 TAC § 117.310(c)(1). EGF System Cap Unit = The engine is used as an electric generating facility to generate electricity for sale to the electric grid. Averaging Method = Complying with the applicable emission limit using a 30-day rolling average. CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1). NOx Reduction = No NOx reduction. Service Type = Stationary gas turbine. NOx Emission Limitation = Title 30 TAC §§117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11). NOx Monitoring System = Continuous emission monitoring system as required by 40 CFR Part 75.</td>
</tr>
<tr>
<td>GRP-TURB</td>
<td>40 CFR Part 60, Subpart GG</td>
<td>60GG-1</td>
<td>Duct Burner = The turbine is part of a combined cycle turbine system equipped with supplemental heat (duct burner). NOx Control Method = NOx control method other than water or steam injection or selective catalytic reduction. Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004.</td>
</tr>
<tr>
<td>Unit ID</td>
<td>Regulation</td>
<td>Index Number</td>
<td>Basis of Determination*</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------------------------</td>
<td>--------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GRP-TURB</td>
<td>40 CFR Part 60, Subpart GG</td>
<td>60GG-2</td>
<td>NOx Allowance = The owner or operator is not electing to use a NOx allowance in determining emission limits in 40 CFR § 60.332(a). NOx Monitoring Method = Continuous emission monitoring system. 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 = Electric 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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Duct Burner = The turbine is part of a combined cycle turbine system equipped with supplemental heat (duct burner). NOx Control Method = NOx control method other than water or steam injection or selective catalytic reduction. Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. NOx Allowance = The owner or operator is not electing to use a NOx allowance in determining emission limits in 40 CFR § 60.332(a). NOx Monitoring Method = Continuous emission monitoring system. Sulfur Content = Compliance is not 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 = Gaseous fuel other than natural gas. Subpart GG Service Type = Electric utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Using the custom fuel monitoring schedule set forth in 40 CFR § 60.334(i)(3)(ii).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unit Type = Combined Heat and Power Combustion Turbine Construction/Modification Date = Turbine was constructed, reconstructed or modified on or before February 18, 2005.</td>
</tr>
<tr>
<td>GT-A</td>
<td>30 TAC Chapter 117, Subchapter B</td>
<td>R7ICI-MSS</td>
<td>Fuel Flow Monitoring = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). Megawatt Rating = MR is greater than or equal to 30 MW. CO Emission Limitation = Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.125, 117.325 or 117.425. EGF System Cap Unit = The engine is used as an electric generating facility to generate electricity for sale to the electric grid. Averaging Method = Complying with the applicable emission limit using a 30-day rolling average. CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1). NOx Reduction = Water or steam injection. Service Type = Stationary gas turbine. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11).</td>
</tr>
<tr>
<td>Unit ID</td>
<td>Regulation</td>
<td>Index Number</td>
<td>Basis of Determination*</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>GT-A</td>
<td>30 TAC Chapter 117, Subchapter B</td>
<td>R7ICI-NORMAL</td>
<td>NOx Monitoring System = Continuous emission monitoring system as required by 40 CFR Part 75. Fuel Flow Monitoring = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). Megawatt Rating = MR is greater than or equal to 30 MW. CO Emission Limitation = Title 30 TAC § 117.310(c)(1). EGF System Cap Unit = The engine is used as an electric generating facility to generate electricity for sale to the electric grid. Averaging Method = Complying with the applicable emission limit using a 30-day rolling average. CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1). NOx Reduction = Water or steam injection. Service Type = Stationary gas turbine. NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11). NOx Monitoring System = Continuous emission monitoring system as required by 40 CFR Part 75.</td>
</tr>
<tr>
<td>GT-A</td>
<td>40 CFR Part 60, Subpart GG</td>
<td>60GG-1</td>
<td>Duct Burner = The turbine is part of a combined cycle turbine system equipped with supplemental heat (duct burner). NOx Control Method = Water or steam injection only. Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. NOx Allowance = The owner or operator is not electing to use a NOx allowance in determining emission limits in 40 CFR § 60.332(a). NOx Monitoring Method = Continuous emission monitoring system. 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 = Electric 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.</td>
</tr>
<tr>
<td>GT-A</td>
<td>40 CFR Part 60, Subpart GG</td>
<td>60GG-2</td>
<td>Duct Burner = The turbine is part of a combined cycle turbine system equipped with supplemental heat (duct burner). NOx Control Method = Water or steam injection only. Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. NOx Allowance = The owner or operator is not electing to use a NOx allowance in determining emission limits in 40 CFR § 60.332(a). NOx Monitoring Method = Continuous emission monitoring system. Sulfur Content = Compliance is not 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 = Gaseous fuel other than natural gas.</td>
</tr>
<tr>
<td>Unit ID</td>
<td>Regulation</td>
<td>Index Number</td>
<td>Basis of Determination*</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------------------</td>
</tr>
</tbody>
</table>
| GT-A    | 40 CFR Part 60, Subpart KKKK | 60KKKK-1 | Subpart GG Service Type = Electric utility generation.  
Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage.  
Unit Type = Combined Heat and Power Combustion Turbine  
Construction/Modification Date = Turbine was constructed, reconstructed or modified on or before February 18, 2005. |
| GRP-STACK | 30 TAC Chapter 111, Visible Emissions | R1111 | Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.  
SIP Violation = The source is able to comply with applicable PM and opacity regulations without the use of PM collection equipment and has not been found to be in violation of any visible emission standard in a State Implementation Plan.  
Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.  
Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).  
Construction Date = After January 31, 1972  
Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute. |
| CLEANER | 30 TAC Chapter 115, Degreasing Processes | 115-SOLV | Solvent Degreasing Machine Type = Remote reservoir cold solvent cleaning machine.  
Alternate Control Requirement = The TCEQ Executive Director has not approved an alternative control requirement as allowed under 30 TAC § 115.413 or not alternative has been requested.  
Solvent Sprayed = A solvent is sprayed.  
Solvent Vapor Pressure = Solvent vapor pressure is less than or equal to 0.6 psia as measured at 100 degrees Fahrenheit.  
Solvent Heated = The solvent is not heated to a temperature greater than 120° F.  
Parts Larger than Drainage = No cleaned parts for which the machine is authorized to clean are larger than the internal drainage facility of the machine.  
Drainage Area = Area is less than 16 square inches.  
Disposal in Enclosed Containers = Waste solvent is properly disposed of in enclosed containers. |

* - 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>FOP 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.

<table>
<thead>
<tr>
<th>New Source Review Authorization References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention of Significant Deterioration (PSD) Permits</td>
</tr>
<tr>
<td>PSD Permit No.: PSDTX650M1</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Authorization No.: 155026</td>
</tr>
<tr>
<td>Authorization No.: 9570</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Permits By Rule (30 TAC Chapter 106) for the Application Area</td>
</tr>
<tr>
<td>Number: 106.263</td>
</tr>
<tr>
<td>Number: 106.452</td>
</tr>
<tr>
<td>Number: 106.454</td>
</tr>
<tr>
<td>Number: 106.472</td>
</tr>
<tr>
<td>Number: 106.473</td>
</tr>
<tr>
<td>Number: 106.511</td>
</tr>
<tr>
<td>Number: 106.532</td>
</tr>
<tr>
<td>Number: 4</td>
</tr>
<tr>
<td>Number: 5</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

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:
<table>
<thead>
<tr>
<th><strong>Unit/Group/Process Information</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ID No.: GRP-STACK</td>
<td></td>
</tr>
<tr>
<td>Control Device ID No.: N/A</td>
<td>Control Device Type: N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Applicable Regulatory Requirement</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: 30 TAC Chapter 111, Visible Emissions</td>
<td>SOP Index No.: R1111</td>
</tr>
<tr>
<td>Pollutant: Opacity</td>
<td>Main Standard: § 111.111(a)(1)(C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Monitoring Information</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicator: Fuel Type</td>
<td></td>
</tr>
<tr>
<td>Minimum Frequency: Annually</td>
<td></td>
</tr>
<tr>
<td>Averaging Period: n/a</td>
<td></td>
</tr>
<tr>
<td>Deviation Limit: Firing of an alternate fuel, either alone or in combination with the specified gases. The specified gases are pipeline natural gas and gaseous fossil fuel with &lt; 20 grains sulfur per 100 cubic feet.</td>
<td></td>
</tr>
<tr>
<td>Basis of monitoring: Industry and regulatory experience and historical data has demonstrated that opacity and particulate matter standards are consistently met when a combustion unit fires only pipeline quality natural gas and gaseous fossil fuel with &lt; 20 grains sulfur per 100 cubic feet. The unit listed above is designed to fire only natural gas and gaseous fossil fuel with &lt; 20 grains sulfur per 100 cubic feet, so if any other fuel is burned, it shall be deemed a deviation.</td>
<td></td>
</tr>
</tbody>
</table>
Obtaining Permit Documents

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

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

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

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

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

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

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

Additional information concerning PBRs is available on the TCEQ website:

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

Compliance Review

Compliance History Review
1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on May 4, 2019.
   Site rating: 0.20 / Satisfactory Company rating: 0.20 / 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