

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Texas Instruments Incorporated

AUTHORIZING THE OPERATION OF
Texas Instruments Richardson
Semiconductor and Related Device Manufacturing

LOCATED AT
Collin County, Texas
Latitude 32° 59' 55" Longitude 96° 43' 15"
Regulated Entity Number: RN103941910

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O4510 Issuance Date: _____

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 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.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
 - (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

- (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- C. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
- (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

- (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 6. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

- 7. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular

instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

8. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated May 8, 2024 in the application for project 35728), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
9. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

11. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
12. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
 - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
 - (i) For sources in the Dallas-Fort Worth Eight-Hour Nonattainment area, 30 TAC § 117.9030

- B. The permit holder shall comply with the Initial Control Plan unit identification requirements in 30 TAC § 117.450(a) and (a)(1)-(7).
 - C. The permit holder shall comply with the requirements of 30 TAC § 117.452 for Final Control Plan Procedures for Reasonably Available Control Technology (RACT) and 30 TAC § 117.456 for Revision of Final Control Plan.
 - D. The permit holder shall comply with the requirements of 30 TAC § 117.454 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.456 for Revision of Final Control Plan.
 - E. The permit holder shall comply with the requirement in 30 TAC § 117.450(b) for identification of exempt units in the Initial Control Plan.
13. Use of Emission Credits to comply with applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
 - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
14. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116

- (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

- 15. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

- 16. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

- 17. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

- 18. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be

modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPBOILER1	Boilers/Steam Generators/Steam Generating Units	B1, B2	R2A-0001	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRPBOILER1	Boilers/Steam Generators/Steam Generating Units	B1, B2	R7ICI-0001	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPBOILER1	Boilers/Steam Generators/Steam Generating Units	B1, B2	60Dc-0001	40 CFR Part 60, Subpart Dc	No changing attributes.
GRPBOILER2	Boilers/Steam Generators/Steam Generating Units	B10, B11, B22, B23, B24, B25, B26, B7, B8, B9	R7ICI-0002	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPCOOL1	Emission Points/Stationary Vents/Process Vents	COOL1, COOL2, REABCT	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPCOOL1	Emission Points/Stationary Vents/Process Vents	COOL1, COOL2, REABCT	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPEG1	SRIC Engines	EG-1	R7ICI-0001	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPEG1	SRIC Engines	EG-1	63ZZZZ-0001	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPEG2	SRIC Engines	FP-1, FP-2	R7ICI-0001	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPEG2	SRIC Engines	FP-1, FP-2	63ZZZZ-0002	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPEG3	SRIC Engines	EG-2, EG-3	R7ICI-0002	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPEG3	SRIC Engines	EG-2, EG-3	60IIII-0003	40 CFR Part 60, Subpart IIII	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPEG3	SRIC Engines	EG-2, EG-3	63ZZZZ-0003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPGENEX1	Emission Points/Stationary Vents/Process Vents	GX-1, GX-10, GX-11, GX-12, GX-13, GX-14, GX-15, GX-16, GX-17, GX-18, GX-19, GX-2, GX-20, GX-205, GX-206, GX-207, GX-208, GX-209, GX-210, GX-211, GX-212, GX-213, GX-214, GX-215, GX-216, GX-217, GX-218, GX-219, GX-220, GX-221, GX-222, GX-223, GX-224, GX-225, GX-226, GX-227, GX-228, GX-229, GX-23, GX-230, GX-231, GX-232, GX-233, GX-24, GX-25, GX-26, GX-27, GX-28, GX-3, GX-4, GX-5, GX-6, GX-7, GX-8, GX-9	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPGENEX1	Emission Points/Stationary Vents/Process Vents	GX-1, GX-10, GX-11, GX-12, GX-13, GX-14, GX-15, GX-16, GX-17, GX-18, GX-19, GX-2, GX-20, GX-205, GX-206, GX-207, GX-208, GX-209, GX-210, GX-211, GX-212, GX-213, GX-214, GX-215, GX-216, GX-217, GX-218, GX-219, GX-220, GX-221, GX-222, GX-223, GX-224, GX-225, GX-226, GX-227, GX-228, GX-229, GX-23, GX-230, GX-231, GX-232, GX-233, GX-24, GX-25, GX-26, GX-27, GX-28, GX-3, GX-4, GX-5, GX-6, GX-7, GX-8, GX-9	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPMVENT1	Emission Points/Stationary Vents/Process Vents	VGX-1, VGX-2, VGX-21, VGX-22, VGX-23, VGX-24, VGX-25, VGX-26, VGX-27, VGX-28, VGX-29, VGX-3, VGX-4	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPMVENT1	Emission Points/Stationary Vents/Process Vents	VGX-1, VGX-2, VGX-21, VGX-22, VGX-23, VGX-24, VGX-25, VGX-26, VGX-27, VGX-28, VGX-29, VGX-3, VGX-4	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPRCTO1	Emission Points/Stationary Vents/Process Vents	VX-1A, VX-1B, VX- 2A, VX-2B, VX-3A, VX-3B, VX-4A, VX- 4B, VX-5A, VX-5B, VX-6A, VX-6B, VX- 7A, VX-7B, VX-8A, VX-8B, VX-9A, VX- 9B	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPRCTO1	Emission Points/Stationary Vents/Process Vents	VX-1A, VX-1B, VX- 2A, VX-2B, VX-3A, VX-3B, VX-4A, VX- 4B, VX-5A, VX-5B, VX-6A, VX-6B, VX- 7A, VX-7B, VX-8A, VX-8B, VX-9A, VX- 9B	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPSCRUB1	Emission Points/Stationary Vents/Process Vents	AX-1, AX-10, AX-2, AX-21, AX-22, AX- 23, AX-24, AX-25, AX-26, AX-27, AX- 28, AX-29, AX-3, AX-30, AX-31, AX- 32, AX-4, AX-5, AX- 6, AX-7, AX-8, AX-9	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPSCRUB1	Emission Points/Stationary Vents/Process Vents	AX-1, AX-10, AX-2, AX-21, AX-22, AX-23, AX-24, AX-25, AX-26, AX-27, AX-28, AX-29, AX-3, AX-30, AX-31, AX-32, AX-4, AX-5, AX-6, AX-7, AX-8, AX-9	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPSCRUB2	Emission Points/Stationary Vents/Process Vents	CX-1, CX-2, CX-22, CX-23, CX-24, CX-25, CX-26, CX-3, CX-4, CX-5	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPSCRUB2	Emission Points/Stationary Vents/Process Vents	CX-1, CX-2, CX-22, CX-23, CX-24, CX-25, CX-26, CX-3, CX-4, CX-5	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPTANKS1	Loading/Unloading Operations	ST11, ST12, ST21, ST22	115C-001	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPTANKS1	Storage Tanks/Vessels	ST11, ST12, ST21, ST22	115B-001	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPTANKS3	Loading/Unloading Operations	T1ING11	115C-001	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPTANKS3	Storage Tanks/Vessels	DTANKS, T1ING11	115B-001	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPBOILER1	EU	R2A-0001	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO ₂ from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
GRPBOILER1	EU	R7ICI-0001	CO	30 TAC Chapter 117, Subchapter B	§ 117.410(c)(1) [G]§ 117.403(c) § 117.410(c)(1)(B) § 117.440(j)	No person shall allow the discharge into the atmosphere from any unit carbon monoxide (CO) emissions that exceed 400 ppmv at 3.0% oxygen, dry basis.	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.445(a) § 117.445(f) § 117.445(f)(1) § 117.445(f)(8)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPBOILER1	EU	R7ICI-0001	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.410(a)(1)(C) [G]§ 117.403(c) § 117.410(a) § 117.410(b)(2) [G]§ 117.410(e)(1) § 117.410(e)(2) [G]§ 117.410(e)(3) § 117.410(e)(4) § 117.430(b) § 117.430(b)(1) § 117.440(j)	No person shall allow the discharge from gas-fired boilers with a maximum rated capacity less than 40 MMBtu/hr, NO _x emissions in excess of 0.036 lb/MMBtu (or alternatively, 30 parts per million by volume (ppmv) NO _x , at 3.0% oxygen, dry basis).	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a) § 117.440(k)(1) § 117.440(k)(2) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.445(a) § 117.445(f) § 117.445(f)(1) § 117.445(f)(8)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPBOILER1	EU	60Dc-0001	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
GRPBOILER1	EU	60Dc-0001	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
GRPBOILER1	EU	60Dc-0001	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.42c(e) § 60.40c(c) § 60.42c(e)(2) § 60.42c(h) § 60.42c(i) § 60.42c(j)	A facility that combusts oil with any other fuel shall not discharge into the atmosphere any gases that contain sulfur dioxide in excess of the emission limit determined according to the formula in § 60.42c(e)(2).	§ 60.44c(a) [G]§ 60.44c(e) § 60.44c(h) § 60.44c(j) § 60.46c(e)	[G]§ 60.48c(e) [G]§ 60.48c(f) § 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(b) § 60.48c(d) [G]§ 60.48c(e) § 60.48c(j)
GRPBOILER2	EU	R7ICI-0002	CO	30 TAC Chapter 117, Subchapter B	§ 117.410(c)(1) [G]§ 117.403(c) § 117.410(c)(1)(B) § 117.440(j)	No person shall allow the discharge into the atmosphere from any unit carbon monoxide (CO) emissions that exceed 400 ppmv at 3.0% oxygen, dry basis.	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.445(a) § 117.445(f) § 117.445(f)(1) § 117.445(f)(8)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPBOILER2	EU	R7ICI-0002	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.410(a)(1)(C) [G]§ 117.403(c) § 117.410(a) § 117.410(b)(2) [G]§ 117.410(e)(1) § 117.410(e)(2) [G]§ 117.410(e)(3) § 117.410(e)(4) § 117.430(b) § 117.430(b)(1) § 117.440(j)	No person shall allow the discharge from gas-fired boilers with a maximum rated capacity less than 40 MMBtu/hr, NO _x emissions in excess of 0.036 lb/MMBtu (or alternatively, 30 parts per million by volume (ppmv) NO _x , at 3.0% oxygen, dry basis).	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a) § 117.440(k)(1) § 117.440(k)(2) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.445(a) § 117.445(f) § 117.445(f)(1) § 117.445(f)(8)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPCOOL1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPCOOL1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPCOOL1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPEG1	EU	R7ICI-0001	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.403(a)(7)(D) § 117.403(a)	Units exempt from this division, except as specified in §§ 117.440(i), 117.445(f)(4) and (9), 117.450 and 117.454, include stationary gas turbines and stationary internal combustion engines used exclusively in emergency situations, except that operation for testing or maintenance is allowed for up to 100 hours per year, based on a rolling 12-month average. New, modified, reconstructed or relocated stationary diesel engine placed into service on or after June 1, 2007, are ineligible.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.440(i) § 117.445(f) § 117.445(f)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPEG1	EU	63ZZZ-0001	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRPEG2	EU	R7ICI-0001	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.403(a)(7)(D) § 117.403(a)	Units exempt from this division, except as specified in §§ 117.440(i), 117.445(f)(4) and (9), 117.450 and 117.454, include stationary gas turbines and stationary internal combustion engines used exclusively in emergency situations, except that operation for testing or maintenance is allowed for up to 100 hours per year, based on a rolling 12-month average. New, modified, reconstructed or relocated stationary diesel engine placed into service on or after June 1, 2007, are ineligible.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.440(i) § 117.445(f) § 117.445(f)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPEG2	EU	63ZZZ-0002	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRPEG3	EU	R7ICI-0002	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.403(a)(9) § 117.403(a) [G]§ 117.410(f)	Units exempt from this division, except as specified in §§ 117.440(i), 117.445(f)(4) and (9), 117.450 and 117.454, include new, modified, reconstructed or relocated diesel engines placed into service on or after June 1, 2007 that operate less than 100 hr/yr except in emergency situations and that meet the emission standard for non-road engines listed in 40 CFR § 89.112(a), Table 1 in effect at the time of installation, modification, reconstruction or relocation per § 117.403(a)(9)(A)-(B)	None	§ 117.440(i) § 117.445(f) § 117.445(f)(4) [G]§ 117.445(f)(9)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPEG3	EU	60III-0003	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)
GRPEG3	EU	60III-0003	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPEG3	EU	60III-0003	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)
GRPEG3	EU	63ZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPGENEX1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPGENEX1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPGENEX1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPMVENT1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPMVENT1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPMVENT1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPRCTO1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPRCTO1	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(A)	Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPSCRUB1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPSCRUB1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPSCRUB1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPSCRUB2	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPSCRUB2	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPSCRUB2	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPTANKS1	EU	115C-001	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
GRPTANKS1	EU	115B-001	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPTANKS3	EU	115C-001	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
GRPTANKS3	EU	115B-001	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Additional Monitoring Requirements

Periodic Monitoring Summary 30

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOILER1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2A-0001
Pollutant: SO ₂	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Fuel Sulfur Content	
Minimum Frequency: With each fuel delivery	
Averaging Period: N/A	
Deviation Limit: Maximum No. 2 distillate oil sulfur content = 15 ppm	
Periodic Monitoring Text: Maintain fuel purchase and composition records to the specified method to demonstrate a uniform composition and that only 15 ppm sulfur maximum is burned in the unit. Should fuel blending be practiced, measure and record the sulfur content of the fuel. Any monitoring data above the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOILER1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-0001
Pollutant: CO	Main Standard: § 117.410(c)(1)
Monitoring Information	
Indicator: Fuel flow rate and hours of operation	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: A fuel flow that exceeds a calculated heat input of 21 MMBtu/hr (for each boiler) shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.</p> <p>The fuel flow rate shall be used in conjunction with the permitted NSR CO emission factor to demonstrate compliance with the NSR MAERT limitations, which corresponds to a CO concentration less than 30 TAC Chapter 117 CO emission limitation of 400 ppmv at 3.0% oxygen (O₂), dry basis.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOILER1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-0001
Pollutant: NO _x	Main Standard: § 117.410(a)(1)(C)
Monitoring Information	
Indicator: Fuel flow rate and hours of operation	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: A fuel flow that exceeds a calculated heat input of 21 MMBtu/hr (for each boiler) shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.</p> <p>The fuel flow rate shall be used in conjunction with the permitted NSR NO_x emission factor to demonstrate compliance with the NSR MAERT limitations, which corresponds to a NO_x concentration less than 30 TAC Chapter 117 NO_x emission limitation of 30 ppmv at 3.0% oxygen (O₂), dry basis.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOILER2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-0002
Pollutant: CO	Main Standard: § 117.410(c)(1)
Monitoring Information	
Indicator: Fuel flow rate and hours of operation	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: A fuel flow that exceeds a calculated heat input of 5 MMBtu/hr (per boiler) shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.</p> <p>The fuel flow rate shall be used in conjunction with the CO emission factor used determine potential emissions under associated PBR to demonstrate compliance with 30 TAC Chapter 117 CO emission limitation of 400 ppmv at 3.0% oxygen (O₂), dry basis.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOILER2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-0002
Pollutant: NO _x	Main Standard: § 117.410(a)(1)(C)
Monitoring Information	
Indicator: Fuel flow rate and hours of operation	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: A fuel flow that exceeds a calculated heat input of 5.0 MMBtu/hr (per boiler) shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.</p> <p>The fuel flow rate shall be used in conjunction with the NO_x emission factor used determine potential emissions under associated PBR to demonstrate compliance with 30 TAC Chapter 117 NO_x emission limitation of 30 ppmv at 3.0% oxygen (O₂), dry basis.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOOL1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPGENEX1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPMVENT1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRCT01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSCRUB1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSCRUB2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Permit Shield

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Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPBOILER1	B1, B2	40 CFR Part 60, Subpart D	Heat input capacity less than 250 MMBtu/hr.
GRPBOILER1	B1, B2	40 CFR Part 60, Subpart Da	Heat input capacity less than 250 MMBtu/hr.
GRPBOILER1	B1, B2	40 CFR Part 60, Subpart Db	Heat input capacity less than 100 MMBtu/hr.
GRPBOILER1	B1, B2	40 CFR Part 63, Subpart JJJJJJ	Gas-fired boilers are not subject to this subpart.
GRPBOILER2	B10, B11, B22, B23, B24, B25, B26, B7, B8, B9	40 CFR Part 60, Subpart D	Heat input capacity less than 250 MMBtu/hr.
GRPBOILER2	B10, B11, B22, B23, B24, B25, B26, B7, B8, B9	40 CFR Part 60, Subpart Da	Heat input capacity less than 250 MMBtu/hr.
GRPBOILER2	B10, B11, B22, B23, B24, B25, B26, B7, B8, B9	40 CFR Part 60, Subpart Db	Heat input capacity less than 100 MMBtu/hr.
GRPBOILER2	B10, B11, B22, B23, B24, B25, B26, B7, B8, B9	40 CFR Part 60, Subpart Dc	Heat input capacity less than 10 MMBtu/hr.
GRPBOILER2	B10, B11, B22, B23, B24, B25, B26, B7, B8, B9	40 CFR Part 63, Subpart JJJJJJ	Gas-fired boilers are not subject to this subpart.
GRPEG1	EG-1	40 CFR Part 60, Subpart IIII	Constructed before July 11, 2005 and has not been modified or reconstructed.
GRPEG2	FP-1, FP-2	40 CFR Part 60, Subpart IIII	Fire pump engines manufactured on or before July 1, 2006.
GRPSCRUB1	AX-1, AX-10, AX-2, AX-21, AX-22, AX-23, AX-24, AX-25, AX-26, AX-27, AX-28, AX-29, AX-3, AX-30, AX-31, AX-32, AX-4, AX-5, AX-6, AX-7, AX-8, AX-9	40 CFR Part 63, Subpart WWWWWW	Electroplating or electroless plating of listed HAPs is not performed.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPTANKS1	ST11, ST12, ST21, ST22	40 CFR Part 60, Subpart Kb	Storage vessels with a capacity less than 75 cubic meters (19,800 gal) are not subject to NSPS Kb.
GRPTANKS2	T1ING1, T1ING10, T1ING2, T1ING3, T1ING4, T1ING5, T1ING6, T1ING7, T1ING9, T2ING1, T2ING2, T2ING3, T2ING4, T2ING5, T2ING6, T2ING7, T2ING8, T2ING9	30 TAC Chapter 115, Storage of VOCs	Storage vessels that do not store volatile organic liquids are not subject to 30 TAC Chapter 115.
GRPTANKS2	T1ING1, T1ING10, T1ING2, T1ING3, T1ING4, T1ING5, T1ING6, T1ING7, T1ING9, T2ING1, T2ING2, T2ING3, T2ING4, T2ING5, T2ING6, T2ING7, T2ING8, T2ING9	40 CFR Part 60, Subpart Kb	Storage vessels that do not store volatile organic liquids are not subject to NSPS Kb.
GRPTANKS3	DTANKS, T1ING11	40 CFR Part 60, Subpart Kb	Storage vessels with a capacity less than 75 cubic meters (19,800 gal) are not subject to NSPS Kb.

New Source Review Authorization References

New Source Review Authorization References 45

New Source Review Authorization References by Emission Unit 46

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 70017	Issuance Date: 02/08/2023
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.225	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.373	Version No./Date: 09/04/2000
Number: 106.451	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
AX-1	FAB1 - Acid Scrubber 1	70017
AX-10	FAB1 - Acid Scrubber 10	70017
AX-2	FAB1 - Acid Scrubber 2	70017
AX-21	FAB2 - Acid Scrubber 21	70017
AX-22	FAB2 - Acid Scrubber 22	70017
AX-23	FAB2 - Acid Scrubber 23	70017
AX-24	FAB2 - Acid Scrubber 24	70017
AX-25	FAB2 - Acid Scrubber 25	70017
AX-26	FAB2 - Acid Scrubber 26	70017
AX-27	FAB2 - Acid Scrubber 27	70017
AX-28	FAB2 - Acid Scrubber 28	70017
AX-29	FAB2 - Acid Scrubber 29	70017
AX-3	FAB1 - Acid Scrubber 3	70017
AX-30	FAB2 - Acid Scrubber 30	70017
AX-31	FAB2 - Acid Scrubber 31	70017
AX-32	FAB2 - Acid Scrubber 32	70017
AX-4	FAB1 - Acid Scrubber 4	70017
AX-5	FAB1 - Acid Scrubber 5	70017
AX-6	FAB1 - Acid Scrubber 6	70017
AX-7	FAB1 - Acid Scrubber 7	70017
AX-8	FAB1 - Acid Scrubber 8	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
AX-9	FAB1 - Acid Scrubber 9	70017
B1	Boiler 1	70017
B10	Boiler 10	106.183/09/04/2000
B11	Boiler 11	106.183/09/04/2000
B2	Boiler 2	70017
B22	Boiler 22	70017
B23	Boiler 23	70017
B24	Boiler 24	70017
B25	Boiler 25	70017
B26	Boiler 26	70017
B7	Boiler 7	106.183/09/04/2000
B8	Boiler 8	106.183/09/04/2000
B9	Boiler 9	106.183/09/04/2000
COOL1	FAB1 - Cooling Towers	70017
COOL2	FAB2 - Cooling Towers	70017
CX-1	FAB1 - Caustic Scrubber 1	70017
CX-2	FAB1 - Caustic Scrubber 2	70017
CX-22	FAB2 - Caustic Scrubber 22	70017
CX-23	FAB2 - Caustic Scrubber 23	70017
CX-24	FAB2 - Caustic Scrubber 24	70017
CX-25	FAB2 - Caustic Scrubber 25	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
CX-26	FAB2 - Caustic Scrubber 26	70017
CX-3	FAB1 - Caustic Scrubber 3	70017
CX-4	FAB1 - Caustic Scrubber 4	70017
CX-5	FAB1 - Caustic Scrubber 5	70017
DTANKS	Misc. Diesel Tanks	106.472/09/04/2000
EG-1	Emergency Generator 1	106.511/09/04/2000
EG-2	Emergency Generator 2 (N Cup)	106.511/09/04/2000
EG-3	Emergency Generator 3 (S Cup)	106.511/09/04/2000
FP-1	Fire Pump 1	106.511/09/04/2000
FP-2	Fire Pump 2	106.511/09/04/2000
GX-1	FAB1 - General Exhaust Vent 1	70017
GX-10	FAB1 - General Exhaust Vent 10	70017
GX-11	FAB1 - General Exhaust Vent 11	70017
GX-12	FAB1 - General Exhaust Vent 12	70017
GX-13	FAB1 - General Exhaust Vent 13	70017
GX-14	FAB1 - General Exhaust Vent 14	70017
GX-15	FAB1 - General Exhaust Vent 15	70017
GX-16	FAB1 - General Exhaust Vent 16	70017
GX-17	FAB1 - General Exhaust Vent 17	70017
GX-18	FAB1 - General Exhaust Vent 18	70017
GX-19	FAB1 - General Exhaust Vent 19	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
GX-2	FAB1 - General Exhaust Vent 2	70017
GX-20	FAB1 - General Exhaust Vent 20	70017
GX-205	FAB2 - General Exhaust Vent 205	70017
GX-206	FAB2 - General Exhaust Vent 206	70017
GX-207	FAB2 - General Exhaust Vent 207	70017
GX-208	FAB2 - General Exhaust Vent 208	70017
GX-209	FAB2 - General Exhaust Vent 209	70017
GX-210	FAB2 - General Exhaust Vent 210	70017
GX-211	FAB2 - General Exhaust Vent 211	70017
GX-212	FAB2 - General Exhaust Vent 212	70017
GX-213	FAB2 - General Exhaust Vent 213	70017
GX-214	FAB2 - General Exhaust Vent 214	70017
GX-215	FAB2 - General Exhaust Vent 215	70017
GX-216	FAB2 - General Exhaust Vent 216	70017
GX-217	FAB2 - General Exhaust Vent 217	70017
GX-218	FAB2 - General Exhaust Vent 218	70017
GX-219	FAB2 - General Exhaust Vent 219	70017
GX-220	FAB2 - General Exhaust Vent 220	70017
GX-221	FAB2 - General Exhaust Vent 221	70017
GX-222	FAB2 - General Exhaust Vent 222	70017
GX-223	FAB2 - General Exhaust Vent 223	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
GX-224	FAB2 - General Exhaust Vent 224	70017
GX-225	FAB2 - General Exhaust Vent 225	70017
GX-226	FAB2 - General Exhaust Vent 226	70017
GX-227	FAB2 - General Exhaust Vent 227	70017
GX-228	FAB2 - General Exhaust Vent 228	70017
GX-229	FAB2 - General Exhaust Vent 229	70017
GX-23	FAB1 - General Exhaust Vent 23	70017
GX-230	FAB2 - General Exhaust Vent 230	70017
GX-231	FAB2 - General Exhaust Vent 231	70017
GX-232	FAB2 - General Exhaust Vent 232	70017
GX-233	FAB2 - General Exhaust Vent 233	70017
GX-24	FAB1 - General Exhaust Vent 24	70017
GX-25	FAB1 - General Exhaust Vent 25	70017
GX-26	FAB1 - General Exhaust Vent 26	70017
GX-27	FAB1 - General Exhaust Vent 27	70017
GX-28	FAB1 - General Exhaust Vent 28	70017
GX-3	FAB1 - General Exhaust Vent 3	70017
GX-4	FAB1 - General Exhaust Vent 4	70017
GX-5	FAB1 - General Exhaust Vent 5	70017
GX-6	FAB1 - General Exhaust Vent 6	70017
GX-7	FAB1 - General Exhaust Vent 7	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
GX-8	FAB1 - General Exhaust Vent 8	70017
GX-9	FAB1 - General Exhaust Vent 9	70017
REABCT	Cooling Towers	106.261/11/01/2003 [121628]
ST11	FAB1 - Solvent Waste Tank 11	70017
ST11	FAB1 - Solvent Waste Tank 11 Unloading	70017
ST12	FAB1 - Solvent Waste Tank 12	70017
ST12	FAB1 - Solvent Waste Tank 12 Unloading	70017
ST21	FAB2 - Solvent Waste Tank 21	70017
ST21	FAB2 - Solvent Waste Tank 21 Unloading	70017
ST22	FAB2 - Solvent Waste Tank 22	70017
ST22	FAB2 - Solvent Waste Tank 22 Unloading	70017
T1ING1	FAB1 - Inorganic Tank 1 (Caustic Day Tank)	70017
T1ING10	FAB1 - Inorganic Tank 10 (Decon Tank)	106.263/11/01/2001
T1ING11	FAB1 - Diesel Tank	106.472/09/04/2000
T1ING11	FAB1 - Diesel Tank Loading	106.472/09/04/2000
T1ING2	FAB1 - Inorganic Tank 2 (Sodium Hydroxide Reagent)	70017
T1ING3	FAB1 - Inorganic Tank 3 (Sodium Hydroxide Reagent)	70017
T1ING4	FAB1 - Inorganic Tank 4 (Sulfuric Acid Recycle Tk)	70017
T1ING5	FAB1 - Inorganic Tank 5 (Hydrochloric Acid)	70017
T1ING6	FAB1 - Inorganic Tank 6 (Bleach)	70017
T1ING7	FAB1 - Inorganic Tank 7 (Phosphoric Acid)	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
T1ING9	FAB1 - Inorganic Tank 9 (Anhydrous Ammonia)	106.225/09/04/2000
T2ING1	FAB2 - Inorganic Tank 1 (Sulfuric Acid Recycle Tk)	70017
T2ING2	FAB2 - Inorganic Tank 2 (Caustic Day Tank)	70017
T2ING3	FAB2 - Inorganic Tank 2 (Sodium Hydroxide Reagent)	70017
T2ING4	FAB2 - Inorganic Tank 4 (Sodium Hydroxide Reagent)	70017
T2ING5	FAB2 - Inorganic Tank 5 (Phosphoric Acid)	70017
T2ING6	FAB2 - Inorganic Tank 6 (Copper Sulfate)	70017
T2ING7	FAB2 - Inorganic Tank 7 (Bleach)	70017
T2ING8	FAB2 - Inorganic Tank 8 (Hydrochloric Acid)	70017
T2ING9	FAB2 - Inorganic Tank 9 (Anhydrous Ammonia)	106.225/09/04/2000
VGX-1	FAB1 - Mechanical Vent 1	70017
VGX-2	FAB1 - Mechanical Vent 2	70017
VGX-21	FAB2 - Mechanical Vent 21	70017
VGX-22	FAB2 - Mechanical Vent 22	70017
VGX-23	FAB2 - Mechanical Vent 23	70017
VGX-24	FAB2 - Mechanical Vent 24	70017
VGX-25	FAB2 - Mechanical Vent 25	70017
VGX-26	FAB2 - Mechanical Vent 26	70017
VGX-27	FAB2 - Mechanical Vent 27	70017
VGX-28	FAB2 - Mechanical Vent 28	70017
VGX-29	FAB2 - Mechanical Vent 29	70017

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
VGX-3	FAB1 - Mechanical Vent 3	70017
VGX-4	FAB1 - Mechanical Vent 4	70017
VX-1A	FAB1 - RCTO1 Vent (Cold Stack)	70017
VX-1B	FAB1 - RCTO1 Vent (Hot Stack)	70017
VX-2A	FAB1 - RCTO2 Vent (Cold Stack)	70017
VX-2B	FAB1 - RCTO2 Vent (Hot Stack)	70017
VX-3A	FAB1 - RCTO3 Vent (Cold Stack)	70017
VX-3B	FAB1 - RCTO3 Vent (Hot Stack)	70017
VX-4A	FAB1 - RCTO4 Vent (Cold Stack)	70017
VX-4B	FAB1 - RCTO4 Vent (Hot Stack)	70017
VX-5A	FAB2 - RCTO5 Vent (Cold Stack)	70017
VX-5B	FAB2 - RCTO5 Vent (Hot Stack)	70017
VX-6A	FAB2 - RCTO6 Vent (Cold Stack)	70017
VX-6B	FAB2 - RCTO6 Vent (Hot Stack)	70017
VX-7A	FAB2 - RCTO7 Vent (Cold Stack)	70017
VX-7B	FAB2 - RCTO7 Vent (Hot Stack)	70017
VX-8A	FAB2 - RCTO8 Vent (Cold Stack)	70017
VX-8B	FAB2 - RCTO8 Vent (Hot Stack)	70017
VX-9A	FAB2 - RCTO9 Vent (Cold Stack)	70017
VX-9B	FAB2 - RCTO9 Vent (Hot Stack)	70017

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers,

Minor NSR permit numbers, and Major NSR permit numbers.

Appendix A

Acronym List 56

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	.....	actual cubic feet per minute
AMOC	.....	alternate means of control
ARP	.....	Acid Rain Program
ASTM	.....	American Society of Testing and Materials
B/PA	.....	Beaumont/Port Arthur (nonattainment area)
CAM	.....	Compliance Assurance Monitoring
CD	.....	control device
CEMS	.....	continuous emissions monitoring system
CFR	.....	Code of Federal Regulations
COMS	.....	continuous opacity monitoring system
CVS	.....	closed vent system
D/FW	.....	Dallas/Fort Worth (nonattainment area)
EP	.....	emission point
EPA	.....	U.S. Environmental Protection Agency
EU	.....	emission unit
FCAA Amendments	.....	Federal Clean Air Act Amendments
FOP	.....	federal operating permit
gr/100 scf	.....	grains per 100 standard cubic feet
HAP	.....	hazardous air pollutant
H/G/B	.....	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	.....	hydrogen sulfide
ID No.	.....	identification number
lb/hr	.....	pound(s) per hour
MACT	.....	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	.....	Million British thermal units per hour
NA	.....	nonattainment
N/A	.....	not applicable
NADB	.....	National Allowance Data Base
NESHAP	.....	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	.....	nitrogen oxides
NSPS	.....	New Source Performance Standard (40 CFR Part 60)
NSR	.....	New Source Review
ORIS	.....	Office of Regulatory Information Systems
Pb	.....	lead
PBR	.....	Permit By Rule
PEMS	.....	predictive emissions monitoring system
PM	.....	particulate matter
ppmv	.....	parts per million by volume
PRO	.....	process unit
PSD	.....	prevention of significant deterioration
psia	.....	pounds per square inch absolute
SIP	.....	state implementation plan
SO ₂	.....	sulfur dioxide
TCEQ	.....	Texas Commission on Environmental Quality
TSP	.....	total suspended particulate
TVP	.....	true vapor pressure
U.S.C.	.....	United States Code
VOC	.....	volatile organic compound