FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Nucor Corporation

AUTHORIZING THE OPERATION OF
Nucor Steel Jewett Texas Division
Iron and Steel Mills and Ferroalloy Manufacturing

LOCATED AT
Leon County, Texas
Latitude 31° 21′ 26″ Longitude 96° 9′ 53″
Regulated Entity Number: RN100211093

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: O1289 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 YYYYY or Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, § 113.1340 or § 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. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

      (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

      (ii) Title 30 TAC § 111.111(a)(1)(E)

      (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

      (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), 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. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that

does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units 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 emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent 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.

(5) 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)(1) and (a)(1)(B).

(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)(1)(F) 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.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. 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.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(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 source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources 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 sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source 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)(8) and (a)(8)(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)(8)(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.

D. 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.

E. 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)

F. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:

(i) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)

(ii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

(iii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)

4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

   A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed less than 100,000 gallons of gasoline in any calendar month after October 31, 2014, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

      (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

      (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

      (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

      (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

5. 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)

6. 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.

7. For the metallic scrap utilized at an electric arc furnace steelmaking facility as specified in 40 CFR Part 63, Subpart YYYYY, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.1340 incorporated by reference):

   A. Title 40 CFR § 63.10685(a) and (a)(1), relating to the requirement to prepare and implement a pollution prevention plan

   B. Title 40 CFR § 63.10685(a) and (a)(2), relating to the control of contaminants (HAPs) from restricted metallic scrap charged to the electric arc furnace

C. Title 40 CFR § 63.10685(a)(1), (c), and (c)(3), relating to recordkeeping and reporting requirements

D. Title 40 CFR § 63.10690(a), (b), (b)(1), and (b)(2), relating to general provisions

8. For scrap utilized at an electric arc furnace steelmaking facility as specified in 40 CFR Part 63, Subpart YYYYY, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.1340 incorporated by reference):

A. Title 40 CFR § 63.10685(b), (b)(1), (b)(2), and/or (b)(3), relating to mercury requirements for scrap containing motor vehicle scrap

B. Title 40 CFR § 63.10685(b)(1), (b)(2), (b)(3), (c), (c)(1) and/or (c)(2) and 63.10685(c)(3), relating to recordkeeping and reporting requirements for scrap containing motor vehicle scrap

C. Title 40 CFR § 63.10685(b)(4), (c), and (c)(3), relating to recordkeeping and reporting requirements for scrap that does not contain motor vehicle scrap

D. Title 40 CFR § 63.10690(a), (b), and (b)(3), relating to general provisions

9. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):

A. Title 40 CFR § 63.11111(e), for records of monthly throughput

B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput

C. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput

D. Title 40 CFR § 63.11115(a), for operation of the source

E. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices

F. Title 40 CFR § 63.11116(b), for records availability

G. Title 40 CFR § 63.11116(d), for portable gasoline containers

10. 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

11. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:

A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).

B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

C. 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 "CAM 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 in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

12. 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

13. 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 August 21, 2025 in the application for project 37466, 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

14. 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.

15. 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

16. 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.

17. 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)

Protection of Stratospheric Ozone

18. 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.

B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.

Permit Location

19. 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)

20. 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

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
BAGHSMS	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
BAGHSMS	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
BAGHSMS	STEEL PLANT UNIT	N/A	60AAa-1	40 CFR Part 60, Subpart AAa	Facility Type = Dust handling equipment/system.
BAGHSMS	STEEL PLANT UNIT	N/A	60AAa-EAF	40 CFR Part 60, Subpart AAa	Opacity = Opacity is determined by a certified visible emissions observer., Test Procedures = Only basing compliance on control of the combined emissions., Shop Opacity Observations = Shop opacity observations are performed as specified in 40 CFR § 60.273a(d)., Inspections as Specified in 40 CFR § 60.274a(d) = Inspections are performed as specified in 40 CFR § 60.274a(d)., Facility Type = Electric arc furnace., Alternate Method of Documentation = The EPA Administrator has not approved an alternative to monthly operational status inspections that will provide a continuous record of the operation of the emission capture system or no such alternate has been requested., EAF Additional Emissions = Emissions from the EAF or AOD vessel are combined with emissions from facilities not subject to 40 CFR Part 60, Subpart

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					AAa to feed a common capture/control system., Multiple Control Devices = Emissions from the electric arc furnace are not fed to more than one control device., Filter Type = Single stack fabric filter.
BAGHSMS	STEEL PLANT UNIT	N/A	63YYYYY-01	40 CFR Part 63, Subpart YYYYY	No changing attributes.
EWP	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
EWP	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EWP2	SRIC ENGINES	N/A	60IIII-02	40 CFR Part 60, Subpart IIII	No changing attributes.
EWP2	SRIC ENGINES	N/A	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FUGEAF	STEEL PLANT UNIT	N/A	60AAa-1	40 CFR Part 60, Subpart AAa	No changing attributes.
REHEATXI	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
REHEATXII	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	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)
BAGHSMS	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(b) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
BAGHSMS	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See CAM Summary	None	None
BAGHSMS	EU	60AAa-1	PM (Opacity)	40 CFR Part 60, Subpart AAa	§ 60.272a(b)	On or after the date of the performance test (by §60.8)no owner or operator shall allow discharge into the atmosphere from dust handling system any gases that exhibit 10 percent opacity or greater.	§ 60.273a(b) § 60.275a(d) § 60.275a(e) § 60.275a(e)(3)	None	None
BAGHSMS	EU	60AAa-EAF	PM	40 CFR Part 60, Subpart AAa	§ 60.272a(a)(1)	Gases which exit from a control device and contain particulate matter in excess of 12 mg/dscm (0.0052 gr/dscf) shall not be discharged into the atmosphere.	§ 60.274a(d) [G]§ 60.274a(h) § 60.275a(a) § 60.275a(b) § 60.275a(b)(1) § 60.275a(d) § 60.275a(e) § 60.275a(e)(1) § 60.275a(e)(4) § 60.275a(f) § 60.275a(g) § 60.275a(h)	§ 60.274a(d) § 60.276a(a)	[G]§ 60.276a(f)

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)
							§ 60.275a(h)(1) § 60.275a(j)		
BAGHSMS	EU	60AAa-EAF	PM (Opacity)	40 CFR Part 60, Subpart AAa	§ 60.272a(a)(2)	Gases which exit from a control device and exhibit 3 percent opacity or greater shall not be discharged into the atmosphere.	§ 60.273a(c) § 60.273a(e) § 60.273a(e)(1) § 60.273a(e)(2) § 60.273a(e)(3) [G]§ 60.273a(e)(4) § 60.273a(e)(5) [G]§ 60.273a(e)(6) § 60.273a(e)(7) § 60.273a(e)(8) [G]§ 60.273a(f) § 60.273a(g) [G]§ 60.274a(h) § 60.275a(d) § 60.275a(e) § 60.275a(e)(3) § 60.275a(e)(4) § 60.275a(j)	§ 60.273a(c) § 60.273a(e)(2) § 60.276a(a) § 60.276a(h) § 60.276a(h)(1) § 60.276a(h)(2) § 60.276a(h)(3)	[G]§ 60.273a(e)(4) [G]§ 60.273a(e)(6) § 60.276a(b) [G]§ 60.276a(f)
BAGHSMS	EU	63YYYYY-01	PM	40 CFR Part 63, Subpart YYYYY	§ 63.10686(b)(1) § 63.10686(a) § 63.10686(b) § 63.10690(a)	Except as provided in paragraph (c) of this section, you must not discharge or cause the discharge into the atmosphere from an EAF or AOD vessel any gases which exit from a control device and contain in excess of 0.0052 grains of PM per dry standard cubic foot (gr/dscf).	[G]§ 60.274a(h) § 60.275a(a) § 63.10686(d) § 63.10686(d)(6) § 63.10686(e) § 63.10690(a)	§ 63.10686(d)(6) § 63.10686(e) § 63.10690(a)	§ 63.10686(d)(6) § 63.10686(e) § 63.10690(a) § 63.10690(b) § 63.10690(b)(4) § 63.10690(b)(5) § 63.10690(b)(6)
BAGHSMS	EU	63YYYYY-01	PM (Opacity)	40 CFR Part 63, Subpart YYYYY	§ 63.10686(b)(2) § 63.10686(b) § 63.10690(a)	Except as provided in paragraph (c) of this section, you must not discharge or cause the discharge into the atmosphere from an EAF or	[G]§ 60.274a(h) § 63.10686(d) § 63.10686(d)(6) § 63.10690(a)	§ 63.10686(d)(6) § 63.10690(a)	§ 63.10686(d)(6) § 63.10690(a) § 63.10690(b) § 63.10690(b)(5)

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)
						AOD vessel any gases which exit from a melt shop and, due solely to the operations of any affected EAF(s) or AOD vessel(s), exhibit 6 percent opacity or greater.			
EWP	EU	60IIII-01	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)	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)
EWP	EU	60IIII-01	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)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 4.0 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)
EWP	EU	60IIII-01	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)	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)
EWP	EU	63ZZZZ-01	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
EWP2	EU	60IIII-02	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)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 37 KW and less	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)
					§ 60.4211(c) [G]§ 60.4211(f)	than 130 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 5.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
EWP2	EU	60IIII-02	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)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)
EWP2	EU	60IIII-02	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)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than 130 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 0.30 g/KW-hr, as stated in 40 CFR	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)
						60.4202(a)(2) and 40 CFR 1039-Appendix I.			
EWP2	EU	63ZZZZ-02	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
FUGEAF	EU	60AAa-1	PM (Opacity)	40 CFR Part 60, Subpart AAa	§ 60.272a(a)(3)	Gases which exit from a shop and exhibit 6 percent opacity or greater due to the operations of any affected EAF(s) or AOD vessel(s) shall not be discharged into the atmosphere.	§ 60.273a(d) § 60.274a(c) [G]§ 60.274a(h) § 60.275a(c) § 60.275a(d) § 60.275a(e) § 60.275a(e)(3) § 60.275a(e)(4) § 60.275a(f) § 60.275a(i) § 60.275a(j)	§ 60.273a(d) § 60.274a(a) § 60.274a(a)(2) § 60.274a(c) § 60.276a(a) § 60.276a(g)	§ 60.276a(c) [G]§ 60.276a(f) § 60.276a(g)
REHEATXI	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[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)
REHEATXII	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: BAGHSMS	
Control Device ID No.: BAGHSMS	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Bag Leak Detection Signal	
Minimum Frequency: four times per hour	
Averaging Period: Establish per EPA Guidance (EPA-454/R-98-015)	
Deviation Limit: 10 million counts with a 6 minute delay	
CAM Text: Each monitoring device shall be installed, operated, calibrated, and maintained in a manner consistent with EPA, Office of Air Quality Planning and Standards, Fabric Filter Bag Leak Detection Guidance (EPA-454/R-98-015).	

CAM Summary

Unit/Group/Process Information	
ID No.: BAGHSMS	
Control Device ID No.: BAGHSMS	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Bag Leak Detection Signal	
Minimum Frequency: four times per hour	
Averaging Period: Establish per EPA Guidance (EPA-454/R-98-015)	
Deviation Limit: 10 million counts with a 6 minute delay	
CAM Text: Each monitoring device shall be installed, operated, calibrated, and maintained in a manner consistent with EPA, Office of Air Quality Planning and Standards, Fabric Filter Bag Leak Detection Guidance (EPA-454/R-98-015).	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: REHEATXI	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: N/A	
Deviation Limit: When firing liquid fuel 15% opacity averaged over 6 minutes	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: REHEATXII	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: N/A	
Deviation Limit: When firing liquid fuel 15% opacity averaged over 6 minutes	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Permit Shield

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
FUGLMF	N/A	40 CFR Part 60, Subpart AAa	Unit is not one of the processes listed under applicability.
LADLEPREHT	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel.
LADLEPREHT	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.
LMS	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel.
LMS	N/A	40 CFR Part 60, Subpart AAa	Unit is not one of the processes listed under applicability.
REHEATXI	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel
REHEATXI	N/A	30 TAC Chapter 117, Subchapter B	Facility is located in Leon County, not a listed county
REHEATXI	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.
REHEATXII	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel
REHEATXII	N/A	30 TAC Chapter 117, Subchapter B	Facility is located in Leon County, not a listed county
REHEATXII	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.
RLINEPREHT	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel.
RLINEPREHT	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.
TUNDDRY	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel.
TUNDDRY	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.

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
TUNDNZLHT	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel.
TUNDNZLHT	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.
TUNDPREHT	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not use liquid fuel.
TUNDPREHT	N/A	40 CFR Part 63, Subpart JJJJJJ	Process heaters are excluded from the definition of a boiler.
UNLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	All unloading of VOC other than gasoline (from transport vessels) in Leon County is exempt from Subchapter C, Division 1.

New Source Review Authorization References

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.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1029M3	Issuance Date: 07/31/2025
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.: 53581	Issuance Date: 07/31/2025
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	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: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.532	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**
BAGHSMS	MELTSHOP BAGHOUSE DUST HANDLING	53581, PSDTX1029M3
BAGHSMS	MELTSHOP BAGHOUSE STACK	53581, PSDTX1029M3
EWP	EMERGENCY WATER PUMP FOR EAF	53581, PSDTX1029M3
EWP2	EMERGENCY WATER PUMP ENGINE	53581, PSDTX1029M3
FUGEAF	EAF BUILDING FUGITIVES	53581, PSDTX1029M3
FUGLMF	LMS/CASTER BUILDING FUGITIVES	53581, PSDTX1029M3
LADLEPREHT	LADLE PREHEATERS	53581, PSDTX1029M3, 106.183/09/04/2000, 106.264/09/04/2000
LMS	LADDLE METALURGICAL STATION	53581, PSDTX1029M3
REHEATXI	TEXAS I REHEAT FURNACE STACK	53581, PSDTX1029M3
REHEATXII	TEXAS II REHEAT FURNACE STACK	53581, PSDTX1029M3
RLINEPREHT	RELINE PREHEATERS	53581, PSDTX1029M3
TUNDDRY	TUNDISH DRYERS	53581, PSDTX1029M3
TUNDNZLHT	TUNDISH NOZZLE PREHEATERS	53581, PSDTX1029M3
TUNDPREHT	TUNDISH BURNERS	53581, PSDTX1029M3
UNLOAD	VOC UNLOADING OPERATIONS	106.472/09/04/2000

**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

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_2S ..... 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
RO ..... Responsible Official
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

Appendix B

Major NSR Summary Table

Permit Numbers: 53581 and PSDTX1029M3					Issuance Date: July 31, 2025		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
BAGHSMS	Meltshop Baghouse Stack FINs: EAF, LMS, CASTER, LADLETO, and TUNDDUMP	PM (total)	55.55	243.31	4, 5, 6, 8, 15, 17, 24, 29, 34, 37, 38, 39, 40, 45	4, 5, 6, 8, 9, 15, 24, 29, 33, 34, 38, 39, 40, 49	4, 5, 37, 38, 40, 42, 43, 44, 46, 48, 49
		PM (filterable)	34.21	149.86			
		PM_{10} (total)	55.55	243.31			
		PM_{10} (filterable)	34.21	149.86			
		$PM_{2.5}$ (total)	54.02	236.61			
		$PM_{2.5}$(filterable)	34.21	149.86			
		NOx	283.77	673.50			
		CO	1124.43	1701.08			
		SO_2	555.21	1317.75			
		VOC	136.83	324.75			
		Exempt Solvents	0.07	0.32			
		Benzene	1.32	5.10			
		Pb	0.03	0.15			
		Fluoride	0.23	1.00			
		Sb	0.0062	0.27			
		As	0.015	0.045			
		Be	0.0009	0.00115			
		Cd	0.051	0.109			
		Cr	0.26	0.88			
		Cu	0.23	0.77			
		Mn	1.28	5.00			
		Hg	0.40	1.08			
		Ni	0.026	0.101			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
		Se	0.023	0.100			
		Ag	0.0092	0.0101			
		Tl	0.029	0.11			
		V	0.070	0.22			
		Zn	13.10	41.40			
CASTERVENT	West LMS/Caster Building Vents FINS: CASTERVENT, LADLEPREHT, TUNDPREHT, RLINEPREHT, TUNDDRY, SENPREHT (5)	PM	15.76	31.22	3, 6, 8,17, 39	6, 8, 24, 39, 49	49
		PM_{10}	12.24	24.58			
		$PM_{2.5}$	8.72	17.93			
		NOx	18.24	46.38			
		CO	12.02	38.96			
		SO_2	0.09	0.28			
		VOC	0.80	2.58			
		Exempt Solvents	0.004	0.02			
		Pb	0.02	0.03			
		Fluoride	0.0005	0.001			

Major NSR Summary Table

Permit Numbers: 53581 and PSDTX1029M3					Issuance Date: July 31, 2025		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
RUNOUTVENT	Billet Caster Runout Building Vents FINs: Caster, Torch (5)	PM	6.59	11.60	3, 6, 8, 18, 34, 39	6, 8, 34, 39, 49	37, 42, 43, 44, 46, 47, 48, 49
		PM_{10}	5.62	9.89			
		$PM_{2.5}$	3.34	5.91			
		NOx	1.32	2.89			
		CO	1.11	2.42			
		SO_2	0.008	0.017			
		VOC	0.22	0.81			
		Exempt Solvents	0.08	0.34			
		Pb	0.0001	0.0001			
		Fluoride	0.01	0.02			
FINISHVENT	Rolling Mill and Billet Storage Building Vents (5)	PM	56.64	142.58	3, 6, 8, 16, 34, 39	6, 8, 33, 34, 39, 49	37, 42, 43, 44, 46, 47, 48, 49
		PM_{10}	48.66	122.49			
		$PM_{2.5}$	19.20	48.34			
		VOC	3.38	14.82			
		Exempt Solvents	1.78	7.78			
		Pb	0.0005	0.0019			
REHEATXI	TEXAS I Reheat Station Stack	PM	1.35	5.91	3, 6, 8, 24, 34, 38, 39, 45	6, 8, 24, 34, 38, 39, 49	37, 38, 42, 43, 44, 46, 47, 48, 49
		PM_{10}	1.35	5.91			
		$PM_{2.5}$	1.35	5.91			
		CO	14.91	65.29			
		NOx	16.29	71.35			
		SO_2	0.11	0.47			
		VOC	0.98	4.27			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
REHEATXII	TEXAS II Reheat Station Stack	PM	1.54	6.08	3, 6, 8, 24, 34, 38, 39, 45	6, 8, 24, 34, 38, 39, 49	37, 38, 42, 43, 44, 46, 47, 48, 49
		PM_{10}	1.54	6.08			
		$PM_{2.5}$	1.54	6.08			
		CO	10.35	40.82			
		NOx	15.53	61.23			
		SO_2	0.12	0.48			
		VOC	1.12	4.40			
SLAGDUMP	Slag Pot Dump Pile (5)	PM	0.48	1.42	7, 8, 39	7, 8, 39, 49	49
		PM_{10}	0.23	0.68			
		$PM_{2.5}$	0.03	0.10			
		Pb	0.00001	0.00004			
SLAGPROC	Slag/Mill Scale Processing (5)	PM	2.55	1.12	8, 39	8, 21, 22, 23, 39, 49	49
		PM_{10}	1.17	0.46			
		$PM_{2.5}$	0.17	0.06			
		Pb	0.00007	0.00003			
FUGLANCE	Outdoor Scrap Lancing (5)	PM	4.46	2.30	3, 8, 39	8, 39, 49	49
		PM_{10}	4.46	2.30			
		$PM_{2.5}$	4.46	2.30			
		NOx	2.07	4.53			
		CO	1.74	3.81			
		SO_2	0.01	0.03			
		VOC	0.11	0.25			

Major NSR Summary Table

Permit Numbers: 53581 and PSDTX1029M3					Issuance Date: July 31, 2025		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
TEAROUT	Ladle Tearout and Tundish Dump (5)	PM	1.09	0.40	8, 39	8, 39, 49	49
		PM_{10}	0.52	0.19			
		$PM_{2.5}$	0.08	0.03			
		Pb	0.00003	0.00001			
CLEANOUT	EAF Drop Out Box (5)	PM	0.55	0.46	8, 39	8, 39, 49	49
		PM_{10}	0.26	0.02			
		$PM_{2.5}$	0.04	0.003			
		Pb	0.001	0.0001			
ALLOYDUMP	Alloy Dump to Larry Car (5)	PM	0.08	0.02	8, 39	8, 39, 49	49
		PM_{10}	0.04	0.01			
		$PM_{2.5}$	0.006	0.002			
ALLOYEAF	Alloy dump at EAF	PM	0.08	0.02	8, 39	8, 39, 49	49
		PM_{10}	0.04	0.01			
		$PM_{2.5}$	0.006	0.002			
ALLOYBUNKR	Alloy Storage Bunkers (5)	PM	0.04	0.11	8, 39	8, 39, 49	49
		PM_{10}	0.02	0.05			
		$PM_{2.5}$	<0.01	<0.01			
LIMEBIN1	Lime Silo No. 1 Bin Vent	PM	<0.01	<0.01	6, 38	6, 38, 49	38, 49
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
LIMEBIN2	Lime Silo No. 2 Bin Vent	PM	<0.01	<0.01	6, 38	6, 38, 49	38, 49
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
DOLOBIN1	Dolomite Silo No. 1 Bin Vent	PM	<0.01	<0.01	6, 38	6, 38, 49	38, 49
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
CARBONBIN2	Carbon Silo Nos. 2, 4 and 6 to Common Bin Vent	PM	<0.01	<0.01	6, 38	6, 38, 49	38, 49
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
CARBONBIN	Carbon Silo, Carbon Bin 3 and Carbon Silo #5 to Common Bin Vent	PM	<0.01	<0.01	6, 38	6, 38, 49	38, 49
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
SCALPITXI	Texas I Mill Scale Cleanout (5)	PM	0.96	0.19	8, 39	8, 39, 49	49
		PM_{10}	0.45	0.09			
		$PM_{2.5}$	0.07	0.01			
		Pb	<0.00001	<0.00001			
SCALPITXII	Texas II Mill Scale Cleanout (5)	PM	0.96	0.19	8, 39	8, 39, 49	49
		PM_{10}	0.45	0.09			
		$PM_{2.5}$	0.07	0.01			
		Pb	<0.00001	<0.00001			
SCALPITRM	Roll Mill Scale Cleanout (5)	PM	1.92	0.38	8, 39	8, 39, 49	49
		PM_{10}	0.91	0.18			
		$PM_{2.5}$	0.14	0.03			
		Pb	<0.00001	<0.00001			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
CASTSPRAYW	Caster Spray Chamber Exhaust (West)	PM	0.03	0.10			
		PM_{10}	0.02	0.08			
		$PM_{2.5}$	<0.01	<0.01			
		VOC	0.59	2.59			
		Exempt Solvents	0.31	1.36			
		Fluoride	0.01	0.03			
CASTSPRAYE	Caster Spray Chamber Exhaust (East)	PM	0.03	0.100			
		PM_{10}	0.02	0.08			
		$PM_{2.5}$	<0.01	<0.01			
		VOC	0.59	2.59			
		Exempt Solvents	0.31	1.36			
		Fluoride	0.01	0.03			
CWTCCRMI	Texas I Contact Cooling Tower	PM	0.09	0.38			
		PM_{10}	0.05	0.21			
		$PM_{2.5}$	<0.01	<0.01			
CWTNCRMI	Roll Mill Non-Contact Cooling Tower	PM	0.05	0.22			
		PM_{10}	0.03	0.12			
		$PM_{2.5}$	<0.01	<0.01			
CWTCHILLER	Texas II Chiller Tower	PM	0.02	0.07			
		PM_{10}	<0.01	0.04			
		$PM_{2.5}$	<0.01	<0.01			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
CWTNCMS	New Melt Shop Cooling Tower	PM	0.56	2.47			
		PM_{10}	0.31	1.38			
		$PM_{2.5}$	<0.01	0.01			
SCRAPSTGPR	Scrap Unloading Area Primary (5)	PM	0.94	0.93	8, 39	8, 39, 49	49
		PM_{10}	0.45	0.46			
		$PM_{2.5}$	0.07	0.07			
		Pb	0.002	0.002			
SCRAPSTGN	Scrap and Tire Storage Area North (5)	PM	2.89	6.27	8, 39	8, 39, 49	49
		PM_{10}	1.40	3.12			
		$PM_{2.5}$	0.21	0.47			
		Pb	0.005	0.012			
SCRAPSTGS	Scrap Storage Area South (5)	PM	1.89	1.86	8, 39	8, 39, 49	49
		PM_{10}	0.90	0.91			
		$PM_{2.5}$	0.14	0.14			
		Pb	0.004	0.003			
SCRAPTRKE	Scrap Truck Dump Area (5)	PM	0.19	0.71	8, 39	8, 39, 49	49
		PM_{10}	0.09	0.34			
		$PM_{2.5}$	0.01	0.05			
		Pb	0.0004	0.0013			
SCRAPSTGNW	Scrap Storage Area Northwest (5)	PM	1.09	1.57	8, 39	8, 39, 49	49
		PM_{10}	0.52	0.78			
		$PM_{2.5}$	0.08	0.12			
		Pb	0.002	0.003			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
LANDFILL	Non-Hazardous Landfill Area (5)	PM	0.71	2.70	8, 39	8, 39, 49	49
		PM_{10}	0.35	1.35			
		$PM_{2.5}$	0.05	0.20			
FUELLOCOD	Locomotive Fueling Station Diesel Tank	VOC	<0.01	<0.01	3	24, 49	49
FUELSLAGD1	Slag Fueling Station Diesel Tank #1	VOC	<0.01	<0.01	3	24, 49	49
FUELSLAGD2	Slag Fueling Station Diesel Tank #2	VOC	<0.01	<0.01	3	24, 49	49
FUELSLAGG	Slag Fueling Station Gasoline Tank	VOC	0.58	0.82	3	24, 49	49
FUELMOBD	Mobile Maintenance Diesel Tank	VOC	<0.01	<0.01	3	24, 49	49
FUELMOBG	Mobile Maintenance Gasoline Tank	VOC	0.58	1.01	3	24, 49	49
FUELLUBEG	Lube Fuel Station Gasoline Tank	VOC	0.86	0.47	3	24, 49	49
FUELSCRAP	Scrap Vehicle Fueling Diesel Tank	VOC	<0.01	0.01	3	24, 49	49
FUELSHIP	Shipping Vehicle Fueling Diesel Tank	VOC	<0.01	<0.01	3	24, 49	49
FUELPUMP	Cooling Water Emergency Pumps Fuel Tank	VOC	<0.01	<0.01	3	24, 49	49
FUELBHD	Baghouse Fueling Station Diesel Tank	VOC	<0.01	<0.01	3	24, 49	49

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
FUGEAF	EAF Building Fugitives (5)	PM	9.78	23.21	4, 6, 39	4, 6, 39, 49	4, 49
		PM_{10}	5.67	13.46			
		$PM_{2.5}$	5.06	12.00			
		NOx	0.002	0.006			
		CO	0.14	0.34			
		SO_2	0.003	0.007			
		VOC	0.003	0.008			
		Pb	0.01	0.024			
FUGLMS	LMS/Caster Building Fugitives (5)	PM	8.61	20.44	3, 6, 8, 39	6, 8, 39, 49	49
		PM_{10}	4.99	11.85			
		$PM_{2.5}$	4.45	10.57			
		NOx	2.95	7.01			
		CO	2.17	5.16			
		SO_2	5.56	13.19			
		VOC	0.05	0.11			
		Pb	0.009	0.021			
		Fluoride	0.021	0.090			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
PLASMA	Meltshop Cutting Emissions (5)	PM	1.76	2.38	19		
		PM_{10}	1.76	2.38			
		$PM_{2.5}$	1.76	2.38			
		NOx	0.007	0.01			
		CO	0.006	0.008			
		SO_2	<0.0001	<0.0001			
		VOC	<0.0004	0.001			
		Pb	0.0002	0.0002			
BLAST	Abrasive Blasting (5)	PM	2.75	12.03	25	49	49
		PM_{10}	0.33	1.43			
		$PM_{2.5}$	0.05	0.21			
BLASTCAB	Abrasive Blast Cabinet Baghouse Stack	PM	0.13	0.56	6, 12, 38	6, 38, 49	38, 49
		PM_{10}	0.13	0.56			
		$PM_{2.5}$	0.13	0.56			
BILLCUT	Billet Cutting (5)	PM	0.01	0.01	8, 39	8, 39, 49	49
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
HWBLR1	Heating Water Boiler #1	PM	0.02	0.07	3	24, 49	49
		PM_{10}	0.02	0.07			
		$PM_{2.5}$	0.02	0.07			
		NOx	0.22	0.96			
		CO	0.18	0.81			
		SO_2	0.001	0.006			
		VOC	0.01	0.05			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
HWBLR2	Heating Water Boiler #2	PM	0.02	0.07	3	24, 49	49
		PM_{10}	0.02	0.07			
		$PM_{2.5}$	0.02	0.07			
		NOx	0.22	0.96			
		CO	0.18	0.81			
		SO_2	0.001	0.006			
		VOC	0.01	0.05			
CBLR1	Domestic Boiler #1	PM	0.003	0.013		24, 49	49
		PM_{10}	0.003	0.013			
		$PM_{2.5}$	0.003	0.013			
		NOx	0.04	0.17			
		CO	0.03	0.14			
		SO_2	<0.001	0.001			
		VOC	0.002	<0.01			
CBLR2	Domestic Boiler #2	PM	0.003	0.013		24, 49	49
		PM_{10}	0.003	0.013			
		$PM_{2.5}$	0.003	0.013			
		NOx	0.04	0.17			
		CO	0.03	0.14			
		SO_2	<0.001	0.001			
		VOC	0.002	<0.01			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
SLAGPREHT	Slag Pot Preheater (5)	PM	0.08	0.04		24, 49	49
		PM_{10}	0.08	0.04			
		$PM_{2.5}$	0.08	0.04			
		NOx	0.98	0.49			
		CO	0.82	0.41			
		SO_2	0.006	0.003			
		VOC	0.05	0.03			
EWP	Emergency Cooling Water Pump Engine (6)	PM	1.36	0.07	4	4, 24, 27, 49	4, 49
		PM_{10}	1.36	0.07			
		$PM_{2.5}$	1.36	0.07			
		NOx	19.13	0.96			
		CO	4.12	0.21			
		SO_2	1.27	0.06			
		VOC	1.52	0.08			
EWP2	Emergency Cooling Water Pump Engine (6)	PM	0.24	0.01	4	4, 24, 27, 49	4, 49
		PM_{10}	0.24	0.01			
		$PM_{2.5}$	0.24	0.01			
		NOx	3.41	0.17			
		CO	0.74	0.04			
		SO_2	0.23	0.01			
		VOC	0.27	0.01			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (7)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**	**Special Conditions/ Application Information**
CWTTXIIRF	Texas II Reheat Furnace Cooling Tower	PM	0.01	0.04			
		PM_{10}	0.01	0.02			
		$PM_{2.5}$	<0.0001	<0.0001			
FUELEAF	EAF Building Diesel Tank	VOC	0.003	<0.001			
DOCFUG	Drop-Out Chamber Storage and Loading (5)	PM	0.28	0.04	8, 39	8, 39, 49	49
		PM_{10}	0.13	0.02			
		$PM_{2.5}$	0.02	<0.01			
ALL	All Sources	Any HAP	---	<10.00		49	
		All HAPS	---	<25.00			
SHEARFUG	Scrap Shearing	PM	0.22	0.68			
		PM_{10}	0.11	0.34			
		$PM_{2.5}$	0.02	0.05			
PLASMA3	Plasma Scrap Cutting Station North	PM	0.02	0.07	20		
		PM_{10}	0.02	0.07			
		$PM_{2.5}$	0.02	0.07			
		Lead	1.68E-06	7.36E-06			
		NOx	0.50	2.19			
FUELPUMP2	TXII Reheat Emergency Water Pump Fuel Tank	VOC	<0.01	<0.01	3	24, 49	49

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NOx - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
Pb - lead
Sb - antimony
As - arsenic
Be - beryllium
Cd - cadmium
Cr - chromium
Cu - copper
Mn - manganese
Hg - mercury
Ni - nickel
Se - selenium
Ag - silver
Tl - thallium
V - vanadium
Zn - zinc
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Limited to 100 hours per year of non-emergency operation.
(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet the conditions of 30 TAC §116.119.

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 31, 2025

MR JOHN HEDEN
VICE PRESIDENT AND GENERAL MANAGER
NUCOR CORPORATION
PO BOX 126
JEWETT TX 75846-0126

Re: Permit Alteration
Permit Number: 53581
Expiration Date: June 26, 2033
Nucor Corporation
Steel Mill
Jewett, Leon County
Regulated Entity Number: RN100211093
Customer Reference Number: CN601246663
Associated Permit Number: PSDTX1029M3

Dear Mr. Heden:

Nucor Corporation has requested alteration of the representations of the above-referenced permit. We understand you are requesting to clarify the permit record regarding the Ladle Metallurgical Station (LMS) alloy storage and feed equipment.

In accordance with Title 30 Texas Administrative Code §116.116(c), Permit Number 53581 is altered. Please attach this letter to your permit.

All preconstruction authorizations (including authorization for emissions of greenhouse gases, if applicable) should be obtained prior to start of construction.

If you need further information or have any questions, please contact Mr. Bill Moody at (512) 239-1859 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

Re: Permit Number: 53581

Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Tara Capobianco, P.E., Glow Environmental LLC, Austin
Air Section Manager, Region 9 - Waco
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 392809

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 26, 2023

MS AMARI JONES
ENVIRONMENTAL MANAGER
NUCOR CORPORATION
PO BOX 126
JEWETT TX 75846-0126

Re: Permit Renewal
Permit Number: 53581
Expiration Date: June 26, 2033
Nucor Corporation
Steel Mill
Jewett, Leon County
Regulated Entity Number: RN100211093
Customer Reference Number: CN601246663
Associated Permit Number: PSDTX1029M3

Dear Ms. Jones:

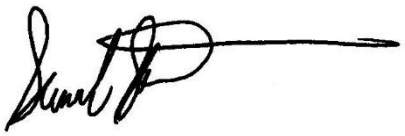
Nucor Corporation has requested to renew Permit Number 53581. This letter serves as notice that your application for the above-referenced permit is technically complete as of May 12, 2023.

In accordance with Title 30 Texas Administrative Code Section 116.314(a), Permit Number 53581 is hereby renewed. Since you certified there were no changes to your existing permit, it is renewed as written and will be in effect for ten years from the date this renewal was issued. Please attach this letter, including the attachment regarding referenced authorizations, and new general conditions to your permit.

Re: Permit Number: 53581

If you need further information or have any questions, please contact Mr. David R. Ferrell, P.E. at (512) 239-1199 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Air Section Manager, Region 9 - Waco
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 354899

Permit No. 53581 – Authorizations Referenced on June 26, 2023

This list includes authorizations referenced with the renewal of this permit. It is not intended to be all-inclusive and can be altered at the site without modification to the permit.

Facility/Change	Authorization	Registration Number
Cutting Station (EPN PLASMA2)	106.261 / 106.262	153794

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Nucor Corporation
Authorizing the Continued Operation of
Steel Mill
Located at **Jewett, Leon County, Texas**
Latitude 31.344406 Longitude -96.164425

Permit: 53581 and PSDTX1029M3

Issuance Date: June 26, 2023

Expiration Date: June 26, 2033

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours;

keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m^3 = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 53581 and PSDTX1029M3

Emission Standards

1. This permit authorizes only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in that attached table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities authorized by this permit.

Fuel Specifications

2. Fuel for the Billet Reheat Furnaces (Emission Point Nos. [EPN] REHEATXI and REHEATXII), Ladle Preheaters, Tundish Preheaters, Tundish Nozzle Preheaters, Reline Preheaters, Tundish Dryers (EPN CASTERVENT), Ladle Metallurgical Station (LMS) (EPN FUGLMS), Caster Runout Torches (EPN RUNOUTVENT), Slagpot Preheater (EPN SLAGPREHT), Plasma Cutting Units (EPN PLASMA), Plasma Scrap Cutting Station North (EPN PLASMA3), Boiler #1 (EPN HWBLR1), Boiler # 2 (EPN HWBLR2), Domestic Boiler #1 (EPN CBLR1), and Domestic Boiler #2 (EPN CBLR2) shall be pipeline-quality natural gas. Fuel for the Cutting Torches (EPN FUGLANCE) shall be either propane or pipeline-quality natural gas. Use of any other fuel will require prior approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ). **(12/19)**

3. Upon request by the Executive Director of the TCEQ or the TCEQ Regional Director or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels used in these facilities or shall allow air pollution control program representatives to obtain a sample for analysis.

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources in Title 40 Code of Federal Regulations (40 CFR) Part 60, specifically the following:

   A. Subpart A - General Provisions;

   B. Subpart AAa - Steel Plant Electric Arc Furnaces; and

   C. Subpart IIII - Stationary Compression Ignition Internal Combustion Engines.

5. These facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63, specifically the following:

   A. Subpart A - General Provisions;

   B. Subpart YYYYY - Electric Arc Furnace Steelmaking Facilities; and

   C. Subpart CCCCCC - Gasoline Dispensing Facilities.

Opacity/Visible Emission Limitations

6. Opacity of particulate matter emissions from the emission points shown in the following table shall not exceed the specified opacity values, averaged over a six-minute period. **(12/19)**

Table 1: Opacity Limits

EPN	Emission Point Name	Opacity	Notes
BAGHSMS	Meltshop Baghouse Stack	3 Percent	NSPS AAa, BACT
REHEATXI, REHEATXII	Texas I and Texas II Reheat Station Stacks	3 Percent	BACT
FUGEAF	EAF Building Fugitives	6 Percent	NSPS AAa
FUGLMS	LMS/Caster Building Fugitives	6 Percent	BACT
LIMEBIN1 LIMEBIN2 DOLOBIN1 CARBONBIN CARBONBIN2 BLASTCAB	Lime Silo No. 1 Bin Vent Lime Silo No. 2 Bin Vent Dolomite Silo No. 1 Bin Vent Carbon Silo, Carbon Silo 5, Carbon Bin 3 to Common Bin Vent Carbon Silo Nos. 2, 4 and 6 to Common Bin Vent Abrasive Blast Cabinet Baghouse Stack	5 percent	BACT
CASTERVENT RUNOUTVENT FINISHVENT	West LMS/Caster Building Vents Billet Caster Runout Building Vents Rolling Mill and Billet Storage Building Vents	6 percent	BACT

BACT - best available control technology

7. Opacity of emissions from any slag handling transfer point on belt conveyors or any screen shall not exceed 10 percent, averaged over a six-minute period.

8. Visible fugitive emissions from the following sources shall not leave the property for more than 30 cumulative seconds in any six-minute period: Melt Shop, LMS/Caster Building, Billet Bay Building Vents, Rolling Mill Building Vents, Texas I Reheat Station, Texas II Reheat Station, Slag Dump, Slag Mill Processing, Outdoor Scrap Lancing, Ladle Tearout and Tundish Dump, EAF Drop Out Box and Inspection Ports Clean-out, Alloy Truck Dump, Alloy Storage Bunker, Texas I Mill Scale Clean Out, Texas II Mill Scale Clean Out, Roll Mill Scale Cleanout, Scrap Unloading Area, Scrap and Tire Storage Area North, Scrap Storage Area South, Scrap Truck Dump, Scrap Storage Area Northwest, Non-Hazardous Landfill Area, Billet Cutting, and Drop-Out Chamber Storage and Loading. **(12/19)**

   Stack emissions may leave the plant property provided stack opacity restrictions are not violated.

Operational Limitations, Work Practices, and Plant Design

9. As represented, production of molten steel shall not exceed 316 tons per hour (tph), 6,600 tons per day (tpd) and 1,500,000 tons per year (tpy) in any rolling 12-month period. Production rates shall be calculated based on operating hours and tons of steel produced as measured by the tap weight and averaged over a 24-hour day starting at 7:00 a.m. **(12/19)**

10. A fabric filter baghouse with reverse air cleaning properly installed and in good working order shall control PM emissions from the EAF, LMS, and Caster. Particulate emissions from the Meltshop Baghouse Stack (EPN BAGHSMS) shall not exceed total PM (front-half and back-half) of 0.0052 grain per dry standard cubic foot (gr/dscf) and front-half PM of 0.0032 gr/dscf in the exhaust gases.

11. The Meltshop Baghouse Stack (EPN BAGHSMS) exhaust at a height of 120 feet, shall attain a stack minimum flow rate of 1,091,000 dscf per minute while in the melting and refining stages of the Electric Arc Furnace except during periods of equipment malfunction in which the stack flow rate shall not be less than 20 percent below the required minimum flow rate for a maximum of 10 minutes per 24-hour period.

12. A fabric filter baghouse designed to meet an outlet grain loading of not more than 0.005 gr/dscf of exhaust, properly installed and in good working order, shall control particulate matter emissions from the Abrasive Blast Cabinet when this equipment is in operation. **(04/16)**

13. The roof of the EAF building shall be completely enclosed to ensure the 6% opacity averaged over six minutes requirement is met for the building.

14. A system to collect and transport mill scale from the roll mill straighteners in the Roll Mill to a fabric filter that exhausts into the Roll Mill Building shall be employed. The fabric filter shall have a design outlet grain loading not greater than 0.005 gr/dscf.

15. All hood, duct, and collection systems shall be effective in capturing emissions from process equipment and in minimizing fugitive emissions from the buildings. The hood and duct systems shall be maintained free of holes, cracks, and other conditions that would reduce the collection efficiency of the emission capture system as represented in the application.

16. Rollmill oil and grease net usage shall be limited to 320 tpy in any rolling 12-month period. **(04/16)**

17. Caster oil and grease net usage shall be limited to 140 tpy in any rolling 12-month period. **(04/16)**

18. Use of mold powder having a maximum fluoride content of 20% is authorized. **(08/14)**

19. The plasma cutting operation shall employ a water table to minimize fumes from the cutting process and shall be limited to a maximum operating schedule of 2,800 hours per year. **(05/18)**

20. The emissions from Plasma Scrap Cutting Station North shall be collected and routed to the cartridge filter with 99.9% control efficiency for particulate matters. **(12/19)**

21. Slag processing shall not exceed 300 tph and 317,050 tpy in any rolling 12-month period.

22. Mill Scale processing shall not exceed 300 tph and 51,000 tpy in any rolling 12-month period.

23. The primary slag crusher shall be limited to a throughput of 69 tph and 72,922 tpy. Slag, refractory materials, and spent/broken EAF electrodes are authorized to be crushed.

24. Total natural gas combusted for reheat furnaces, REHEATXI and REHEATXII shall not exceed 1,554 MMscf/yr and 1,600 MMscf/yr, respectively.

To establish a federally enforceable limit for Green House Gas emissions and to comply with EPA permitting requirements, CO_{2e} from EAF CEMS, CP-1 natural gas combustion, diesel for stationary sources combustion, and propane combustion shall not exceed 263,039 tons CO_{2e}/year.

CP-1 equals site wide natural gas total minus EAF natural gas total. **(12/19)**

25. Non enclosed abrasive blasting operations shall be authorized for use including, but not limited to, support of EAF equipment repair (FIN BLAST). **(12/19)**

    A. Blast media used by FIN BLAST shall be limited to 4,205 tpy of coal/copper slag.

    B. Bulk blast media shall be received in bags and manually transferred to the abrasive blast units.

26. Use of wood pallets and scraps as a defoaming agent in the slag pots is authorized.

27. The diesel engines powered emergency water pumps (EPNs EWP and EWP2) are limited to 100 non-emergency operating hours per year each. **(12/19)**

28. Plant roads shall be paved and cleaned and/or sprinkled with water as necessary to minimize fugitive dust emissions and to maintain compliance with the TCEQ rules and regulations.

29. The Meltshop Baghouse dust collection and handling system, from the Meltshop Baghouse hoppers to the shipping container or vehicle, shall be totally enclosed. This collection and handling system shall be physically inspected once per month to ensure that the system is properly maintained to prevent any dust emissions from becoming airborne.

30. Replaced or used Meltshop Baghouse bags shall be placed in sealed containers and shall be disposed of in a manner that will prevent any dust from becoming airborne.

31. Permanently mounted water spray bars shall be installed at all shaker screens, and at all slag processing material transfer points, including the slag dump. Area type water sprays shall be installed at all slag stockpiles and active slag work areas. All water spray systems shall be operated as necessary to maintain compliance with all TCEQ rules and regulations.

32. Drop-out chamber solids storage (EPN DOCFUG) shall be partially enclosed with at least 3 sides. **(04/16)**

Chemical and Operational Flexibility

33. The owner/operator is authorized to adjust the method of operation of the Electric Arc Furnace and the Rolling Mill to optimize production and emissions control, so long as maximum production does not exceed production rates listed in Special Condition 9 and emissions comply with the emission limits specified in the Maximum Allowable Emissions Rate Table. Permissible adjustments include, but are not limited to that specified by paragraphs A through H of this condition. This condition does not authorize an increase in production rate over permitted levels, addition of burners or lances, increases in burner heat input, increases in nominal electric current capacity to the EAF, or increases in fuel use.

A. New or replacement compounds or products that serve the same basic process function and the emissions shall be emitted from the same location as the replaced compound or product emissions.

B. Changes in billet size up to 12" X 12" including round billets.

C. Changes in billet length.

D. Changes in types, quantities, grades, and location of feedstock addition. Any such changes shall meet BACT limitations.

E. Change in product grade, type, shape, length, and dimension of finished products in the Roll Mill.

F. Addition of new process materials to the furnaces meeting the criteria of Paragraph H or changes in raw material usage or fuel service that do not require construction or modification to existing equipment.

G. Changes in rolling oils and process additives subject to Paragraph H criteria and improvement in control system in the roll mill.

H. The Effects Screening Level (ESL) for any new or replacement compound or product authorized pursuant to paragraphs F or G shall not be less than the ESL value for any current compound or product and the emission rate (ER) for the replacement compound or product shall not be greater than the ER for the current compound or product, except if the following condition is met:

where: there is a direct substitution of one chemical for another

$$\frac{ER2}{ESL2} \leq \frac{ER1}{ESL1}$$

OR

where: the replacement has different constituents

$$\frac{ER2a}{ESL2a} + \frac{ER2b}{ESL2b} + \cdots + \frac{ER2n}{ESL2n} \leq \frac{ER1a}{ESL1a} + \frac{ER1b}{ESL1b} + \cdots + \frac{ER1n}{ESL1n}$$

where:

ER1 is the ER of an authorized compound or product (chemical).

ER2 is the ER of the replacement compound or product (chemical).

ESL1 is the ESL for an authorized compound or product.

ESL2 is the ESL for the replacement compound or product.

The ESL shall be taken from the permit application or the current TCEQ ESL list. The use of new chemicals not listed in the current TCEQ ESL list will require that the TCEQ Toxicology Division develop an ESL for each chemical to be applied in the ratio test set forth above.

Records as required in Special Condition No. 49.O shall be maintained at this site by the permit holder to demonstrate compliance with this condition and Special Condition No. 1 above.

Initial Determination of Compliance

34. To demonstrate compliance with the MAERT, represented equipment specifications, and represented speciated PM emissions, the holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere. Sampling shall occur within 60 days after achieving the maximum production rate but no later than 180 days after initial start-up of the new Melt Shop.

    The holder of this permit shall demonstrate compliance with the following:

    A. Maximum allowable emission rates for the Meltshop Baghouse Stack (EPN BAGHSMS). Air contaminants to be tested for include (but are not limited to) PM, particulate matter equal to or less than 10 microns in diameter (PM_{10}), particulate matter equal to or less than 2.5 microns in diameter ($PM_{2.5}$), nitrogen oxide (NO_x), carbon monoxide (CO), sulfur dioxide (SO_2), volatile organic compounds (VOC), vanadium, antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc;

    B. Emissions of PM, PM_{10}, $PM_{2.5}$, NO_x, CO, SO_2, VOC, and vanadium are to be measured by approved EPA Reference Methods. Emissions of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc are to be measured by EPA Reference Method 29;

    C. Sampling to demonstrate maximum emissions for PM, PM_{10}, and $PM_{2.5}$ shall occur during the charging and melting processes. Sampling to demonstrate maximum emissions of CO shall occur during the charging and melting processes;

    D. Represented stack flow rate for the Meltshop Baghouse Stack (EPN BAGHSMS) as detailed in Special Condition No. 11;

    E. Maximum allowable emission rates for Reheat Furnaces (EPNs REHEATXI and REHEATXII), if and when the holder of this permit installs new replacement reheat furnaces or retrofits existing furnaces with low-NO_x burner technology. Air contaminants to be tested for include (but are not limited to) NO_x, as measured by approved EPA Reference Methods;

    F. Represented outlet grain loading of 0.0032 gr/dscf front-half PM catch and 0.0052 gr/dscf total PM catch from the Meltshop Baghouse, as measured by TCEQ modified Method 5 or equivalent;

    G. Capture effectiveness of the EAF Direct Shell Evacuation and Roof Canopy collection systems for control of PM emissions from the EAF, using EPA TM 9 or equivalent, to demonstrate that the opacity is less than 6 percent, averaged over a six-minute period;

    H. Capture effectiveness of the Close Capture and Roof Canopy collection systems for the control of PM emissions from the LMS and Caster Deck, using EPA TM 9 or equivalent, to demonstrate that the opacity is less than 6 percent, averaged over a six-minute period; and

    I. Maximum allowable emission rates for the Billet Caster Runout Building Vents (EPN RUNOUTVENT) and Rolling Mill and Billet Storage Building Vents (EPN FINISHVENT). Air contaminants to be tested for include (but are not limited to) PM, as measured by TCEQ modified Method 5A or equivalent or approved alternative.

35. If, as a result of stack sampling, compliance with the MAERT cannot be demonstrated, the holder of this permit shall adjust any operating parameters (including reduction of molten steel production rate) so as to comply with Special Condition No. 1 and the MAERT.

36. If opacity exceeds 6 percent from any opening, the holder of this permit shall take immediate action to correct the opacity exceedance and/or adjust any operating parameters (including reduction of molten steel production rate) so as to comply with Special Condition No. 6.

37. If the holder of this permit is required to adjust any operating parameters for compliance, then beginning no later than 60 days after the date of the test conducted, the holder of this permit shall submit to the TCEQ on a monthly basis, a record of adjusted operating parameters and daily records of molten steel production sufficient to demonstrate compliance with the MAERT. Daily records of molten steel production and operating parameters shall be distributed as follows:

    One copy to the appropriate TCEQ Regional Office.

    One copy to the TCEQ Office of Air, Air Permits Division in Austin.

Demonstration of Continuous Compliance

38. The holder of this permit shall conduct a quarterly visible emissions determination to demonstrate compliance with the opacity limitations specified in this permit for the Meltshop Baghouse Stack (EPN BAGHSMS), Texas I and Texas II Reheat Station Stacks (EPNs REHEATXI and REHEATXII), Lime Silo No. 1 Bin Vent (EPN LIMEBIN1), Lime Silo No. 2 Bin Vent (EPN LIMEBIN2), Dolomite Silo No. 1 Bin Vent (EPN DOLOBIN1), Carbon Silo, Carbon Silo 5 and Carbon Bin 3 to Common Bin Vent (EPN CARBONBIN), Carbon Silo Nos. 2, 4 and 6 to Common Bin Vent (EPN CARBONBIN2), and the Abrasive Blast Cabinet Baghouse Stack (EPN BLASTCAB). This visible emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), and 5) at least two stack heights, but not more than five stack heights, from the emission point. If visible emissions are observed from the emission point, the owner or operator shall: **(12/19)**

    A. Take immediate action to eliminate visible emissions, record the corrective action within 24 hours, and comply with any applicable requirements in 30 Texas Administrative Code (TAC) § 101.201, Emissions Event Reporting and Record Keeping Requirements; or

    B. Determine opacity using 40 CFR Part 60, Appendix A, Test Method 9. If the opacity limit is exceeded, take immediate action (as appropriate) to reduce opacity to within the permitted limit, record the corrective action within 24 hours, and comply with applicable requirements in 30 TAC § 101.201, Emissions Event Reporting and Record Keeping Requirements.

39. The holder of this permit shall conduct a quarterly visible emissions determination to demonstrate compliance with the visible emissions limitation specified in this permit for the Melt Shop, LMS/Caster Building, Billet Bay Building Vents, Rolling Mill Building Vents, Texas I Reheat Station, Texas II Reheat Station, Slag Dump, Slag Mill Processing, Outdoor Scrap Lancing, Ladle Tearout and Tundish Dump, EAF Drop Out Box and Inspection Ports Clean-out, Alloy Truck Dump, Alloy Storage Bunker, Texas I Mill Scale Clean Out, Texas II Mill Scale Clean Out, Roll Mill Scale Cleanout, Scrap Unloading Area, Scrap and Tire Storage Area North, Scrap Storage Area South, Scrap Truck Dump, Scrap Storage Area Northwest, Non-Hazardous Landfill Area, Billet Cutting, and Drop-Out Chamber Storage and Loading. This visible emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), 5) at least 15 feet, but not more than 0.25 mile, from the plume, and 6) in accordance with EPA 40

CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible emissions. The corrective action shall be documented within 24 business hours of completion. **(04/16)**

40. The holder of this permit shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and continuous flow rate sensor to measure and record the concentrations of NO_x, CO, SO_2, O_2, and exhaust flow rate from the Meltshop Baghouse Stack (EPN BAGHSMS). The initial certification and relative accuracy test audit (RATA) shall be conducted prior to or during the sampling required by Special Condition No. 34, and include the following:

    A. The CEMS and flow rate sensor shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Numbers. 1 through 9, 40 CFR Part 60, Appendix B. If there is no applicable performance specifications in 40 CFR Part 60, Appendix B, the permit holder shall submit proposed performance specifications, which shall be subject to review and approval by the Executive Director of the TCEQ. The proposed specifications shall be submitted to the TCEQ Regional Director with jurisdiction; **(04/16)**

    B. The system shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR Part 60, Appendix B or as specified by the TCEQ if not specified in Appendix B.

    Each monitor shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1, and Section 5.1.2. Cylinder Gas Audit (CGA) conducted in all four calendar quarters may be used in lieu of RATA for non-NSPS sources and for NSPS sources not subject to 40 CFR Part 60, Appendix F.

    The flow rate monitoring system shall be maintained according to 40 CFR Part 60, Appendix B;

    C. The monitoring data shall be reduced to hourly average concentrations at least once everyday, using a minimum of four equally spaced data points from each one hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in pounds per hour at least once everyday and cumulative tpy on a 12-month rolling average at least once every month;

    D. The TCEQ Regional Director with jurisdiction shall be notified as soon as possible after the discovery of any CEMS malfunction which is expected to result in more than 24 hours of lost data. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director in case of extended CEMS downtime;

    E. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TCEQ Executive Director or designated representative upon request;

    F. The TCEQ Regional Office with jurisdiction shall be notified in writing at least 21 days prior to any quarterly CGA required by Appendix F in order to provide the TCEQ staff the opportunity to observe the testing;

    G. All CGA in excess of ±15 percent accuracy or 5 parts per million, whichever is greater, and any CEMS downtime shall be reported to the appropriate TCEQ Regional Director in the

"Excess Emissions and CEMS Downtime" quarterly report that is used to comply with 40 CFR § 60.7(c), and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director; and

H. Quality assured (or valid) data shall be generated when the meltshop (EPN BAGHSMS) is operating except during performance of daily zero and span checks and quarterly quality assurance tests. Loss of valid data due to periods of monitor breakdown, out-of-control operations (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5% of the meltshop operating time on a quarterly basis.

Sampling Requirements

41. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling ports and platforms shall be incorporated into the design of the stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Office with jurisdiction.

42. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Regional Office with jurisdiction shall be notified not less than 45 days prior to sampling to schedule a pretest meeting. Test methods to be used shall be determined at this pretest meeting. The notice shall include: **(04/16)**

    A. Date for pretest meeting;

    B. Date sampling will occur;

    C. Points or sources to be sampled;

    D. Name of firm conducting sampling;

    E. Type of sampling equipment to be used; and

    F. Method or procedure to be used in sampling.

    The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting test reports.

43. A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or applicable EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Office shall approve or disapprove of any deviation from specified sampling procedures.

44. Requests to waive testing for any pollutant specified may be submitted for approval to the TCEQ Office of Air, Air Permits Division in Austin.

45. The plant shall operate at maximum authorized steel production rates during stack emissions testing. Replacement reheat furnaces or retrofitted reheat furnaces shall operate at maximum firing rates during stack emissions testing. If the plant is unable to operate at maximum production rates during testing or the replaced or retrofitted reheat furnaces are unable to operate at maximum firing rates during testing, then additional stack testing shall be conducted within 60 days of achieving a

steel production rate (based on tap weight and averaged over a 24-hour day starting at 7:00 a.m.) or a firing rate (based on firing rates averaged over a 24-hour period) that exceeds the previous stack test production rate/firing rate by +10 percent.

46. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with any applicable federal requirements requires the EPA approval, and requests shall be submitted to the EPA Region 6.

47. The sampling report shall include the following:

    A. Steel production rates, in tph;

    B. Fuel consumption rates, standard cubic feet per minute; and

    C. Any other pertinent parameters, as determined at the pretest meeting.

48. The final sampling report shall be provided within 60 days after sampling is completed. Sampling reports shall comply with the provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. Copies of the final sampling reports shall be distributed as follows:

    One copy to the appropriate TCEQ Regional Office.

    One copy to the TCEQ Office of Air, Air Permits Division in Austin.

    One copy to the EPA, Region 6.

Recordkeeping/Reporting Requirements

49. The following records shall be maintained at this facility and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction. These records shall be totaled for each calendar month, retained for a rolling 60-month period, and include the following:

    A. To show compliance with Special Condition 9, a daily record of operating hours and molten steel produced in tons per 24-hour period. From this data, average hourly production shall be calculated;

    B. To show compliance with Special Condition 9, an annual record of molten steel produced in tons on a rolling 12-month basis;

    C. An annual record of rollmill and caster oil and grease net usage in tons on a rolling 12-month basis; **(04/16)**

    D. To show compliance with Special Condition 24, annual records on a rolling 12-month basis of total natural gas (in cubic feet), total propane (in gallons), and total diesel (in gallons) and CO_{2e} emissions in tons/year; **(10/16)**

    E. An annual record of natural gas used for the Reheat Furnaces (EPNs REHEATXI and REHEATXII) in cubic feet on a rolling 12-month basis;

    F. An annual record of slag processed in tons on a rolling 12-month basis;

    G. An annual record of mill scale processed in tons on a rolling 12-month basis;

H. An annual record of slag crushed in tons on a rolling 12-month basis;

I. An annual record of coal/copper slag and starblast used in tons on a rolling 12-month basis;

J. Quarterly observations for visible emissions and/or opacity determinations from the Meltshop Baghouse Stack (EPN BAGHSMS), Texas I and Texas II Reheat Station Stacks (EPNs REHEATXI and REHEATXII), Lime Silo No. 1 Bin Vent (EPN LIMEBIN1), Lime Silo No. 2 Bin Vent (EPN LIMEBIN2), Dolomite Silo No. 1 Bin Vent (EPN DOLOBIN1), Carbon Silo, Carbon Silo 5 and Carbon Bin 3 to Common Bin Vent (EPN CARBONBIN), Carbon Silo Nos. 2, 4 and 6 to Common Bin Vent (EPN CARBONBIN2), and the Abrasive Blast Cabinet Baghouse Stack (EPN BLASTCAB); **(12/19)**

K. Quarterly observations for visible emissions determinations from the Melt Shop, LMS/Caster Building, Billet Bay Building Vents, Rolling Mill Building Vents, Texas I Reheat Station, Texas II Reheat Station, Slag Dump, Slag Mill Processing, Outdoor Scrap Lancing, Ladle Tearout and Tundish Dump, EAF Drop Out Box and Inspection Ports Clean-out, Alloy Truck Dump, Alloy Storage Bunker, Texas I Mill Scale Clean Out, Texas II Mill Scale Clean Out, Roll Mill Scale Cleanout, Scrap Unloading Area, Scrap and Tire Storage Area North, Scrap storage Area South, Scrap Truck Dump, Scrap Storage Area Northwest, Non-Hazardous Landfill Area, Billet Cutting, and Drop-Out Chamber Storage and Loading; **(04/16)**

L. Records of operating hours for the diesel engine powered emergency water pump and the plasma cutting operation in hours on a rolling 12-month basis; **(05/18)**

M. A monthly record of inspection of the Meltshop Baghouse dust collection and handling system. The inspection record shall include the date of inspection, any deficiencies noted, and corrections implemented;

N. Records of cleaning and/or watering of roads; **(08/14)**

O. Records required to document changes made per Special Condition 33;

P. Records required under 40 CFR Part 60 Subparts A and AAa. The holder of this permit shall report excess of the limits, as detailed in the Operational Limitations, Work Practices, and Plant Design Section of this permit, to the appropriate TCEQ Regional Office within 48 hours of an exceedance; and

Q. Records shall be kept in sufficient detail to allow emission rates of Hazardous Air Pollutants (HAPS) to be accurately determined from all emission points having the potential to emit HAPS. Using this recorded data, a report shall be produced for the emission of HAPs (in tons per year) over the previous 12 consecutive months. The required records shall be kept with examples of the method of data reduction including units, conversion factors, assumptions, and the basis of the assumptions.

Other Conditions

50. The holder of this permit shall physically identify and clearly mark in a conspicuous location all point sources as listed on the MAERT as follows:

A. The FINs as submitted to the Emissions Inventory Section of the TCEQ for this permit; and

B. The EPNs as listed on the MAERT.

The identification numbers and EPNs shall be maintained so as to always be clearly visible.

Date: December 23, 2019

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 53581 and PSDTX1029M3

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
BAGHSMS	Meltshop Baghouse Stack FINs: EAF, LMS, CASTER, LADLETO, and TUNDDUMP	PM (total)	55.55	243.31
		PM (filterable)	34.21	149.86
		PM_{10} (total)	55.55	243.31
		PM_{10} (filterable)	34.21	149.86
		$PM_{2.5}$ (total)	54.02	236.61
		$PM_{2.5}$ (filterable)	34.21	149.86
		NO_x	283.77	673.50
		CO	1124.43	1701.08
		SO_2	555.21	1317.75
		VOC	136.83	324.75
		Exempt Solvents	0.07	0.32
		Benzene	1.32	5.10
		Pb	0.03	0.15
		Fluoride	0.23	1.00
		Sb	0.0062	0.27
		As	0.015	0.045
		Be	0.0009	0.00115
		Cd	0.051	0.109
		Cr	0.26	0.88
		Cu	0.23	0.77
		Mn	1.28	5.00

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
		Hg	0.40	1.08
		Ni	0.026	0.101
		Se	0.023	0.100
		Ag	0.0092	0.0101
		Tl	0.029	0.11
		V	0.070	0.22
		Zn	13.10	41.40
CASTERVENT	West LMS/Caster Building Vents FINS: CASTERVENT, LADLEPREHT, TUNDPREHT, RLINEPREHT, TUNDDRY, SENPREHT (5)	PM	15.76	31.22
		PM_{10}	12.24	24.58
		$PM_{2.5}$	8.72	17.93
		NO_x	18.24	46.38
		CO	12.02	38.96
		SO_2	0.09	0.28
		VOC	0.80	2.58
		Exempt Solvents	0.004	0.02
		Pb	0.02	0.03
		Fluoride	0.0005	0.001
RUNOUTVENT	Billet Caster Runout Building Vents FINs: Caster, Torch (5)	PM	6.59	11.60
		PM_{10}	5.62	9.89
		$PM_{2.5}$	3.34	5.91
		NO_x	1.32	2.89
		CO	1.11	2.42
		SO_2	0.008	0.017
		VOC	0.22	0.81

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
		Exempt Solvents	0.08	0.34
		Pb	0.0001	0.0001
		Fluoride	0.01	0.02
FINISHVENT	Rolling Mill and Billet Storage Building Vents (5)	PM	56.64	142.58
		PM_{10}	48.66	122.49
		$PM_{2.5}$	19.20	48.34
		VOC	3.38	14.82
		Exempt Solvents	1.78	7.78
		Pb	0.0005	0.0019
REHEATXI	TEXAS I Reheat Station Stack	PM	1.35	5.91
		PM_{10}	1.35	5.91
		$PM_{2.5}$	1.35	5.91
		CO	14.91	65.29
		NO_x	16.29	71.35
		SO_2	0.11	0.47
		VOC	0.98	4.27
REHEATXII	TEXAS II Reheat Station Stack	PM	1.54	6.08
		PM_{10}	1.54	6.08
		$PM_{2.5}$	1.54	6.08
		CO	10.35	40.82
		NO_x	15.53	61.23
		SO_2	0.12	0.48
		VOC	1.12	4.40

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
SLAGDUMP	Slag Pot Dump Pile (5)	PM	0.48	1.42
		PM_{10}	0.23	0.68
		$PM_{2.5}$	0.03	0.10
		Pb	0.00001	0.00004
SLAGPROC	Slag/Mill Scale Processing (5)	PM	2.55	1.12
		PM_{10}	1.17	0.46
		$PM_{2.5}$	0.17	0.06
		Pb	0.00007	0.00003
FUGLANCE	Outdoor Scrap Lancing (5)	PM	4.46	2.30
		PM_{10}	4.46	2.30
		$PM_{2.5}$	4.46	2.30
		NO_x	2.07	4.53
		CO	1.74	3.81
		SO_2	0.01	0.03
		VOC	0.11	0.25
TEAROUT	Ladle Tearout and Tundish Dump (5)	PM	1.09	0.40
		PM_{10}	0.52	0.19
		$PM_{2.5}$	0.08	0.03
		Pb	0.00003	0.00001
CLEANOUT	EAF Drop Out Box (5)	PM	0.55	0.46
		PM_{10}	0.26	0.02
		$PM_{2.5}$	0.04	0.003
		Pb	0.001	0.0001

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
ALLOYDUMP	Alloy Dump To Larry Car (5)	PM	0.08	0.02
		PM_{10}	0.04	0.01
		$PM_{2.5}$	0.006	0.002
ALLOYEAF	Alloy dump at EAF	PM	0.08	0.02
		PM_{10}	0.04	0.01
		$PM_{2.5}$	0.006	0.002
ALLOYBUNKR	Alloy Storage Bunkers (5)	PM	0.04	0.11
		PM_{10}	0.02	0.05
		$PM_{2.5}$	<0.01	<0.01
LIMEBIN1	Lime Silo No. 1 Bin Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
LIMEBIN2	Lime Silo No. 2 Bin Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DOLOBIN1	Dolomite Silo No. 1 Bin Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
CARBONBIN2	Carbon Silo Nos. 2, 4 and 6 to Common Bin Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
CARBONBIN	Carbon Silo, Carbon Bin 3 and Carbon Silo #5 to Common Bin Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
SCALPITXI	Texas I Mill Scale Cleanout (5)	PM	0.96	0.19
		PM_{10}	0.45	0.09
		$PM_{2.5}$	0.07	0.01
		Pb	<0.00001	<0.00001
SCALPITXII	Texas II Mill Scale Cleanout (5)	PM	0.96	0.19
		PM_{10}	0.45	0.09
		$PM_{2.5}$	0.07	0.01
		Pb	<0.00001	<0.00001
SCALPITRM	Roll Mill Scale Cleanout (5)	PM	1.92	0.38
		PM_{10}	0.91	0.18
		$PM_{2.5}$	0.14	0.03
		Pb	<0.00001	<0.00001
CASTSPRAYW	Caster Spray Chamber Exhaust (West)	PM	0.03	0.10
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	<0.01
		VOC	0.59	2.59
		Exempt Solvents	0.31	1.36
		Fluoride	0.01	0.03
CASTSPRAYE	Caster Spray Chamber Exhaust (East)	PM	0.03	0.100
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	<0.01
		VOC	0.59	2.59
		Exempt Solvents	0.31	1.36
		Fluoride	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
CWTCCRMI	Texas I Contact Cooling Tower	PM	0.09	0.38
		PM_{10}	0.05	0.21
		$PM_{2.5}$	<0.01	<0.01
CWTNCRMI	Roll Mill Non-Contact Cooling Tower	PM	0.05	0.22
		PM_{10}	0.03	0.12
		$PM_{2.5}$	<0.01	<0.01
CWTCHILLER	Texas II Chiller Tower	PM	0.02	0.07
		PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
CWTNCMS	New Melt Shop Cooling Tower	PM	0.56	2.47
		PM_{10}	0.31	1.38
		$PM_{2.5}$	<0.01	0.01
SCRAPSTGPR	Scrap Unloading Area Primary (5)	PM	0.94	0.93
		PM_{10}	0.45	0.46
		$PM_{2.5}$	0.07	0.07
		Pb	0.002	0.002
SCRAPSTGN	Scrap and Tire Storage Area North (5)	PM	2.89	6.27
		PM_{10}	1.40	3.12
		$PM_{2.5}$	0.21	0.47
		Pb	0.005	0.012
SCRAPSTGS	Scrap Storage Area South (5)	PM	1.89	1.86
		PM_{10}	0.90	0.91
		$PM_{2.5}$	0.14	0.14
		Pb	0.004	0.003

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
SCRAPTRKE	Scrap Truck Dump Area (5)	PM	0.19	0.71
		PM_{10}	0.09	0.34
		$PM_{2.5}$	0.01	0.05
		Pb	0.0004	0.0013
SCRAPSTGNW	Scrap Storage Area Northwest (5)	PM	1.09	1.57
		PM_{10}	0.52	0.78
		$PM_{2.5}$	0.08	0.12
		Pb	0.002	0.003
LANDFILL	Non-Hazardous Landfill Area (5)	PM	0.71	2.70
		PM_{10}	0.35	1.35
		$PM_{2.5}$	0.05	0.20
FUELLOCOD	Locomotive Fueling Station Diesel Tank	VOC	<0.01	<0.01
FUELSLAGD1	Slag Fueling Station Diesel Tank #1	VOC	<0.01	<0.01
FUELSLAGD2	Slag Fueling Station Diesel Tank #2	VOC	<0.01	<0.01
FUELSLAGG	Slag Fueling Station Gasoline Tank	VOC	0.58	0.82
FUELMOBD	Mobile Maintenance Diesel Tank	VOC	<0.01	<0.01
FUELMOBG	Mobile Maintenance Gasoline Tank	VOC	0.58	1.01
FUELLUBEG	Lube Fuel Station Gasoline Tank	VOC	0.86	0.47
FUELSCRAP	Scrap Vehicle Fueling Diesel Tank	VOC	<0.01	0.01
FUELSHIP	Shipping Vehicle Fueling Diesel Tank	VOC	<0.01	<0.01
FUELPUMP	Cooling Water Emergency Pumps Fuel Tank	VOC	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
FUELBHD	Baghouse Fueling Station Diesel Tank	VOC	<0.01	<0.01
FUGEAF	EAF Building Fugitives (5)	PM	9.78	23.21
		PM_{10}	5.67	13.46
		$PM_{2.5}$	5.06	12.00
		NO_x	0.002	0.006
		CO	0.14	0.34
		SO_2	0.003	0.007
		VOC	0.003	0.008
		Pb	0.01	0.024
FUGLMS	LMS/Caster Building Fugitives (5)	PM	8.61	20.44
		PM_{10}	4.99	11.85
		$PM_{2.5}$	4.45	10.57
		NO_x	2.95	7.01
		CO	2.17	5.16
		SO_2	5.56	13.19
		VOC	0.05	0.11
		Pb	0.009	0.021
		Fluoride	0.021	0.090
PLASMA	Meltshop Cutting Emissions (5)	PM	1.76	2.38
		PM_{10}	1.76	2.38
		$PM_{2.5}$	1.76	2.38
		NO_x	0.007	0.01
		CO	0.006	0.008
		SO_2	<0.0001	<0.0001

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
		VOC	<0.0004	0.001
		Pb	0.0002	0.0002
BLAST	Abrasive Blasting (5)	PM	2.75	12.03
		PM_{10}	0.33	1.43
		$PM_{2.5}$	0.05	0.21
BLASTCAB	Abrasive Blast Cabinet Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.13	0.56
BILLCUT	Billet Cutting (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
HWBLR1	Heating Water Boiler #1	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		NO_x	0.22	0.96
		CO	0.18	0.81
		SO_2	0.001	0.006
		VOC	0.01	0.05
HWBLR2	Heating Water Boiler #2	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		NO_x	0.22	0.96
		CO	0.18	0.81
		SO_2	0.001	0.006

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
		VOC	0.01	0.05
CBLR1	Domestic Boiler #1	PM	0.003	0.013
		PM_{10}	0.003	0.013
		$PM_{2.5}$	0.003	0.013
		NO_x	0.04	0.17
		CO	0.03	0.14
		SO_2	<0.001	0.001
		VOC	0.002	<0.01
CBLR2	Domestic Boiler #2	PM	0.003	0.013
		PM_{10}	0.003	0.013
		$PM_{2.5}$	0.003	0.013
		NO_x	0.04	0.17
		CO	0.03	0.14
		SO_2	<0.001	0.001
		VOC	0.002	<0.01
SLAGPREHT	Slag Pot Preheater (5)	PM	0.08	0.04
		PM_{10}	0.08	0.04
		$PM_{2.5}$	0.08	0.04
		NO_x	0.98	0.49
		CO	0.82	0.41
		SO_2	0.006	0.003
		VOC	0.05	0.03
EWP	Emergency Cooling Water Pump Engine (6)	PM	1.36	0.07
		PM_{10}	1.36	0.07

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
		$PM_{2.5}$	1.36	0.07
		NO_x	19.13	0.96
		CO	4.12	0.21
		SO_2	1.27	0.06
		VOC	1.52	0.08
EWP2	Emergency Cooling Water Pump Engine (6)	PM	0.24	0.01
		PM_{10}	0.24	0.01
		$PM_{2.5}$	0.24	0.01
		NO_x	3.41	0.17
		CO	0.74	0.04
		SO_2	0.23	0.01
		VOC	0.27	0.01
CWTTXIIRF	Texas II Reheat Furnace Cooling Tower	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.0001	<0.0001
FUELEAF	EAF Building Diesel Tank	VOC	0.003	<0.001
DOCFUG	Drop-Out Chamber Storage and Loading (5)	PM	0.28	0.04
		PM_{10}	0.13	0.02
		$PM_{2.5}$	0.02	<0.01
ALL	All Sources	Any HAP	-	<10.00
		All HAPS	-	<25.00
SHEARFUG	Scrap Shearing	PM	0.22	0.68
		PM_{10}	0.11	0.34
		$PM_{2.5}$	0.02	0.05

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
PLASMA3	Plasma Scrap Cutting Station North	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		Lead	1.68E-06	7.36E-06
		NOx	0.50	2.19
FUELPUMP2	TXII Reheat Emergency Water Pump Fuel Tank	VOC	<0.01	<0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
Pb - lead
Sb - antimony
As - arsenic
Be - beryllium
Cd - cadmium
Cr - chromium
Cu - copper
Mn - manganese
Hg - mercury
Ni - nickel
Se - selenium
Ag - silver
Tl - thallium
V - vanadium
Zn - zinc
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Limited to 100 hours per year of non-emergency operation.
(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet the conditions of 30 TAC §116.119.

Date: December 23, 2019