FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Lhoist North America of Texas, LLC

AUTHORIZING THE OPERATION OF
New Braunfels Lime Plant
Lime Manufacturing

LOCATED AT
Comal County, Texas
Latitude 29° 40′ 52″ Longitude 98° 10′ 44″
Regulated Entity Number: RN100552454

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: O1122 Issuance Date: July 12, 2024

K Keel

For the Commission

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General Terms and Conditions

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

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

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

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

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

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute 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. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

F. 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)

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

(i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)

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

(iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)

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

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

4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

5. For the nonmetallic mineral processing operations specified in 40 CFR Part 60, Subpart OOO, the permit holder shall comply with the following requirements:

A. Title 40 CFR § 60.670(f) (relating to Applicability and Designation of Affected Facility), for Table 1 for Subpart A

B. Title 40 CFR § 60.673(a) - (b) (relating to Reconstruction)

C. Title 40 CFR § 60.676(h) (relating to Reporting and Recordkeeping)

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 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 § 63.11111(j), for dispensing from fixed tank into portable tank for on-site delivery

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

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

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

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

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

Additional Monitoring Requirements

8. 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. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:

      (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or

      (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.

F. 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.

9. 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

10. 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 March 11, 2024 in the application for project 35447), 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

11. 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.

12. 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

13. 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.

14. Use of Discrete Emission Credits to comply with the applicable requirements:

    A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) If applicable, offsets for Title 30 TAC Chapter 116

        (iv) Temporarily exceed state NSR permit allowables

    B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

        (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

        (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

        (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

        (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

15. 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.

Temporary Fuel Shortages (30 TAC § 112.15)

16. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:

    A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)

    B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)

    C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)

    D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Permit Location

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

Permit Shield (30 TAC § 122.148)

18. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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
1-TRNSFR	MINERAL PROCESSING PLANT	N/A	60OOO-012	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is using water carryover from upstream water sprays for fugitive emissions control.
1-TRNSFR	MINERAL PROCESSING PLANT	N/A	60OOO-013	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is not using water sprays or water carryover for fugitive emissions control.
10COALIN	COAL PREPARATION PLANT	N/A	60Y-0001	40 CFR Part 60, Subpart Y	No changing attributes.
11CLCRBN	COAL PREPARATION PLANT	N/A	60Y-0001	40 CFR Part 60, Subpart Y	No changing attributes.
13RKLN2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
14COALYARD	COAL PREPARATION PLANT	N/A	60Y-0001	40 CFR Part 60, Subpart Y	No changing attributes.
9RKLN3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
9RKLN3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	111111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
9RKLN3	MINERAL PROCESSING PLANT	N/A	60HH-0002	40 CFR Part 60, Subpart HH	No changing attributes.
GASLOAD	LOADING/UNLOADING OPERATIONS	N/A	115-LD0003	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRP GASENG	SRIC ENGINES	KILN2ENG,	63ZZZZ-001	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		KILN3ENG		ZZZZ	
GRPSCRNOP	MINERAL PROCESSING PLANT	NW-SCR1, NW-SCR2	60OOO-003	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is using water carryover from upstream water sprays for fugitive emissions control.
GRPSCRNOP	MINERAL PROCESSING PLANT	NW-SCR1, NW-SCR2	60OOO-008	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is using direct water sprays for fugitive emissions control.
GRPTRANSP	MINERAL PROCESSING PLANT	NW-LHC-01, NW-LHC-02, NW-LHC-03, NW-LHC-04, NW-LHC-05, NW-LHC-06, NW-LHC-07, NW-LHC-08, NW-LHC-09, NW-LHC-10, NW-LHC-11, NW-LHC-12, NW-LHC-13, NW-LHC-14	60OOO-002	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is using water carryover from upstream water sprays for fugitive emissions control.
GRPTRANSP	MINERAL PROCESSING PLANT	NW-LHC-01, NW-LHC-02, NW-LHC-03, NW-LHC-04, NW-LHC-05, NW-LHC-06, NW-LHC-07, NW-LHC-08, NW-LHC-09, NW-LHC-10, NW-LHC-11, NW-LHC-12, NW-LHC-13, NW-LHC-14	60OOO-006	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is using direct water sprays for fugitive emissions control.
GRPTRANSP	MINERAL PROCESSING PLANT	NW-LHC-01, NW-LHC-02, NW-LHC-	60OOO-007	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is not using water sprays or water

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		03, NW-LHC-04, NW-LHC-05, NW-LHC-06, NW-LHC-07, NW-LHC-08, NW-LHC-09, NW-LHC-10, NW-LHC-11, NW-LHC-12, NW-LHC-13, NW-LHC-14			carryover for fugitive emissions control.
KILN4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
NW-BIN1	MINERAL PROCESSING PLANT	N/A	60OOO-004	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is using water carryover from upstream water sprays for fugitive emissions control.
NW-BIN1	MINERAL PROCESSING PLANT	N/A	60OOO-009	40 CFR Part 60, Subpart OOO	Wet Suppression = Affected facility is not using water sprays or water carryover for fugitive emissions control.
NW-CRUSH	MINERAL PROCESSING PLANT	N/A	60OOO-001	40 CFR Part 60, Subpart OOO	No changing attributes.
NW-ENG	SRIC ENGINES	N/A	60IIII-001	40 CFR Part 60, Subpart IIII	No changing attributes.
NW-ENG	SRIC ENGINES	N/A	63ZZZZ-002	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
TRANS6	COAL PREPARATION PLANT	N/A	60Y-0001	40 CFR Part 60, Subpart Y	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)
1-TRNSFR	EU	60OOO-012	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(e)(1)	Any building enclosing affected facilities shall not emit fugitive emissions from building openings in excess of 7 percent opacity.	§ 60.674(b) [G]§ 60.674(b)(1) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) § 60.675(d) § 60.675(d)(1) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(i) § 60.676(k)
1-TRNSFR	EU	60OOO-013	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(e)(1)	Any building enclosing affected facilities shall not emit fugitive emissions from building openings in excess of 7 percent opacity.	§ 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(3) § 60.675(d) § 60.675(d)(1) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) [G]§ 60.676(i) § 60.676(k)
10COALIN	EU	60Y-0001	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed,	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c) § 60.258(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)
						or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.			
11CLCRBN	EU	60Y-0001	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c) § 60.258(d)
13RKLN2	EP	R151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 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
14COALYARD	EU	60Y-0001	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic	None	§ 60.258(c) § 60.258(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)
						not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	Monitoring Summary		
9RKLN3	EP	R151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 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
9RKLN3	EP	111111-001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
9RKLN3	EU	60HH-0002	PM	40 CFR Part 60, Subpart HH	§ 60.342(a)(1)	The owner or operator shall not allow the discharge of any gases which contain particulate matter in excess of 0.30 kilogram per megagram (0.60 lb/ton) of stone feed.	§ 60.343(d) § 60.344(a) § 60.344(b) § 60.344(b)(1) § 60.344(b)(2) § 60.344(b)(3)	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)
9RKLN3	EU	60HH-0002	PM (Opacity)	40 CFR Part 60, Subpart HH	§ 60.342(a)(2)	The owner or operator shall not allow the discharge of any gases which exhibit greater than 15 percent opacity when exiting from a dry emission control device.	§ 60.343(a) § 60.343(e) § 60.344(a) § 60.344(b)(4)	§ 60.343(a)	§ 60.343(e)
GASLOAD	EU	115-LD0003	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(3)(A) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Plants, excluding gasoline bulk plants, which load less than 20,000 gallons of VOC into transport vessels per day with a true vapor pressure greater than or equal to 1.5 psia is exempt from the division, except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None
GRP GASENG	EU	63ZZZZ-001	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.10 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j)	For each existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP, located at an area source, you must comply with the requirements as specified in Table 2d.10.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(j) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRPSCRNOP	EU	60OOO-003	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and	§ 60.674(b) [G]§ 60.674(b)(1) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(g) [G]§ 60.676(i) § 60.676(k)

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)
						60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.			
GRPSCRNOP	EU	60OOO-008	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.	§ 60.674(b) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(g) [G]§ 60.676(i) § 60.676(k)
GRPTRANSP	EU	60OOO-002	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification,	§ 60.674(b) [G]§ 60.674(b)(1) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(g) [G]§ 60.676(i) § 60.676(k)

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)
						or reconstruction on or after April 22, 2008.			
GRPTRANSP	EU	60OOO-006	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.	§ 60.674(b) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(g) [G]§ 60.676(i) § 60.676(k)
GRPTRANSP	EU	60OOO-007	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.	§ 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) [G]§ 60.676(g) [G]§ 60.676(i) § 60.676(k)

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)
KILN4	EP	R151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 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
NW-BIN1	EU	60OOO-004	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.	§ 60.674(b) [G]§ 60.674(b)(1) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(i) § 60.676(k)
NW-BIN1	EU	60OOO-009	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins,	§ 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) [G]§ 60.676(i) § 60.676(k)

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)
						enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.			
NW-CRUSH	EU	60OOO-001	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	Fugitive emissions from any crusher without a capture system that commenced construction, modification, or reconstruction on or after April 22, 2008 shall not exceed 12 percent opacity.	§ 60.674(b) § 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(1)(iii) § 60.675(c)(3) [G]§ 60.675(e)(2) § 60.675(g)	§ 60.674(b) § 60.674(b)(2) § 60.676(b)(1)	§ 60.675(g) § 60.676(f) [G]§ 60.676(i) § 60.676(k)
NW-ENG	EU	60IIII-001	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 8 KW and less than 19 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 6.6 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(i)-(ii), 40 CFR 1039-Appendix I, and Table 2 to this subpart.	None	None	None
NW-ENG	EU	60IIII-001	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 37	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	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 7.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(i)-(ii), 40 CFR 1039-Appendix I, and Table 2 to this subpart.			
NW-ENG	EU	60IIII-001	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with a PM emission limit of 0.40 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(ii) and Table 2 to this subpart.	None	None	None
NW-ENG	EU	63ZZZZ-002	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	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						applicable. No further requirements apply for such engines under this part.			
TRANS6	EU	60Y-0001	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c) § 60.258(d)

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: 13RKLN2	
Control Device ID No.: 13KLN2BL	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R151-1
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per day	
Averaging Period: six-minute	
Deviation Limit: Maximum Opacity = 10%	
CAM Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period each day, in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9 and 40 CFR § 64.7(c). If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded.	

CAM Summary

Unit/Group/Process Information	
ID No.: 9RKLN3	
Control Device ID No.: 9B	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R151-1
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Maximum Opacity = 10%	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: KILN4	
Control Device ID No.: 6140-DB02	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R151-1
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Minimum pressure drop = 1 inch H2O; Maximum pressure drop = 10 inches H2O	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 0.5 inches water gauge pressure (± 125 pascals); or ± 0.5% of span.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 1-TRNSFR	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-013
Pollutant: PM (Opacity)	Main Standard: § 60.672(e)(1)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: 7 percent opacity	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 10COALIN	
Control Device ID No.: 10COALBH	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-0001
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Every 2 weeks	
Averaging Period: None	
Deviation Limit: Opacity greater than or equal to 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 11CLCRBN	
Control Device ID No.: 11CLCRBH	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-0001
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Every 2 weeks	
Averaging Period: None	
Deviation Limit: Opacity greater than or equal to 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 14COALYARD	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-0001
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Every 2 weeks	
Averaging Period: None	
Deviation Limit: Opacity greater than or equal to 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPTRANSP	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-007
Pollutant: PM (Opacity)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: 7% Opacity	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: NW-BIN1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-009
Pollutant: PM (Opacity)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: 7% Opacity	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TRANS6	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-0001
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Every 2 weeks	
Averaging Period: None	
Deviation Limit: Opacity greater than or equal to 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report 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
10COALPILE	N/A	40 CFR Part 60, Subpart Y	Construction completed prior to 10/24/74
13RKLN2	N/A	30 TAC Chapter 112, Sulfur Compounds	Kiln does not combust liquid fossil fuel.
13RKLN2	N/A	40 CFR Part 60, Subpart HH	Kiln not constructed or modified after 5/3/77
15QL2-3CON	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the conveyor is not an affected unit.
16QL1-2CON	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
17QL1-2ELV	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
18KSILO	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
19GSILO	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
19HSILO	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
21DOLGRD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
22QLHYFD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			affected unit.
23CORSNDRY	N/A	40 CFR Part 60, Subpart Dc	Unit is not a steam generating unit.
23CORSNHYD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
2400-HB03	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2400-HB04	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2400-HB12	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2400-HB17	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2400-HB20	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2400-HB35	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2400-HB40	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
2440-HE19	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
24HCAL2HYD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
2500-CV12	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2500-HB17	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2500-HB18	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2500-SS06	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2500-SS07	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
2500-WB	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
25HCAL1HYD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
26HCALCONV	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
27CMNTBN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
28SABIN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
29DLQKCON	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
30PACFDBN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
31DOLHYBN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
3240	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
3240-1	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
33DOLOMILL	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
33HCHYSIL	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
34HCHY4BN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
35HCLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
36IRRLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
36JRRLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
37FBN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
37FBNLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
38KRRLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
39DOLOMILL	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.

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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
3CRUSHPILE	N/A	40 CFR Part 60, Subpart OOO	Storage piles are not affected facilities subject to NSPS OOO.
3PRICRSHR	N/A	40 CFR Part 60, Subpart OOO	Not constructed, modified or reconstructed after 8/31/1983
40TRKLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
4100-SS12	N/A	40 CFR Part 60, Subpart OOO	This source is not subject to NSPS OOO because it is not part of a production line that includes crushing or grinding.
41HYTRKLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
41QLTRKLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
42HCPAC	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
42SAPAC	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the unit is not an affected unit.
42SAPLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
4SNDCRSHR	N/A	40 CFR Part 60, Subpart OOO	Not modified after 8/31/1983

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
5CRSHFINES	N/A	40 CFR Part 60, Subpart OOO	Not modified after 8/31/1983
5SCRSHLD	N/A	40 CFR Part 60, Subpart OOO	Does not load into enclosed trucks or railcars, so NSPS OOO is not potentially applicable.
6HCLSTONE	N/A	40 CFR Part 60, Subpart OOO	“Transfer point” means a point in a conveying operation...except where the nonmetallic mineral is being transferred to a stockpile.
7KSTNSCN	N/A	40 CFR Part 60, Subpart OOO	Not modified after 8/31/1983
7SCLPSCNLD	N/A	40 CFR Part 60, Subpart OOO	Does not load into enclosed trucks or railcars, so NSPS OOO is not potentially applicable.
8RK3DSTBN	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
8RK3DSTLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
9RKLN3	N/A	30 TAC Chapter 112, Sulfur Compounds	Kiln does not combust liquid fossil fuel.
COKEPILE	N/A	40 CFR Part 60, Subpart OOO	Coke does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
COKEPILE	N/A	40 CFR Part 60, Subpart Y	Coke does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
DIESELTANK	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
GRP GASENG	KILN2ENG, KILN3ENG	40 CFR Part 60, Subpart JJJJ	Engine has not been constructed, reconstructed, or modified after June 12, 2006.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPCONVEYORS	TRANS1, TRANS2, TRANS3, TRANS4, TRANS5, TRANS7	40 CFR Part 60, Subpart OOO	Not modified after 8/31/1983
HICALBLD	N/A	40 CFR Part 60, Subpart OOO	Not modified after 8/31/1983
HYDHTR1	N/A	40 CFR Part 60, Subpart Dc	Unit is not a steam generating unit.
HYDTAILLD	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
HYDTAILSL	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a non-metallic mineral, and thus the storage bin is not an affected unit.
LIMEDUMP	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
NWBIN2	N/A	40 CFR Part 60, Subpart OOO	Processed lime does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
NWBIN2LD	N/A	40 CFR Part 60, Subpart OOO	Lime kiln dust does not meet the definition of a nonmetallic mineral, and thus the unit is not an affected unit.
OTHLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Except in Aransas, Bexar, Calhoun, Gregg, Matagorda, Nueces, San Patricio, Travis, and Victoria Counties, all loading and unloading of VOC other than gasoline (to or from transport vessels) is exempt from the requirements of this division.

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.: GHGPSDTX187	Issuance Date: 03/30/2023
PSD Permit No.: PSDTX256M3	Issuance Date: 03/30/2023
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.: 7808	Issuance Date: 03/30/2023
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
1-TRNSFR	NEW 2X5 STONE CONVEYOR	7808, PSDTX256M3
10COALIN	COAL UNLOAD & RECLAIM	7808, PSDTX256M3
10COALPILE	SURGE PILE, COAL STORAGE	7808, PSDTX256M3
11CLCRBN	COAL CRUSHING & STORAGE BIN	7808, PSDTX256M3
13RKLN2	ROTARY KILN 2	7808, PSDTX256M3
14COALYARD	COAL HANDLING STORAGE FACILITY	7808, PSDTX256M3
15QL2-3CON	QUICKLIME CONVEYOR IN KILN	7808, PSDTX256M3
16QL1-2CON	1RK & 2RK QUICKLIME CONVEYOR	7808, PSDTX256M3
17QL1-2ELV	QUICKLIME CONVEY/ELEVATOR	7808, PSDTX256M3
18KSILO	K SILO QUICKLIME STORAGE	7808, PSDTX256M3
19GSILO	G SILO QUICKLIME STORAGE	7808, PSDTX256M3
19HSILO	H SILO QUICKLIME STORAGE	7808, PSDTX256M3
21DOLGRD	DOLOMITE, GRIND, STORE, AND LOAD	7808, PSDTX256M3
22QLHYFD	QUICKLIME HYDRATED FEED BIN	7808, PSDTX256M3
23CORSNDRY	CORSON HYDRATOR BAGHOUSE DRYER	7808, PSDTX256M3
23CORSNHYD	CORSON HYDRATOR	7808, PSDTX256M3
2400-HB03	CLEAN UP BELT	7808, PSDTX256M3
2400-HB04	BELT CONVEYOR	7808, PSDTX256M3
2400-HB12	BELT CONVEYOR	7808, PSDTX256M3
2400-HB17	BELT CONVEYOR	7808, PSDTX256M3
2400-HB20	BELT CONVEYOR	7808, PSDTX256M3

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**
2400-HB35	BELT CONVEYOR	7808, PSDTX256M3
2400-HB40	BELT CONVEYOR	7808, PSDTX256M3
2440-HE19	BUCKET ELEVATOR	7808, PSDTX256M3
24HCAL2HYD	NO. 2 HI-CAL HYDRATOR	7808, PSDTX256M3
2500-CV12	KILN 4 VIBRATING SCREEN	7808, PSDTX256M3
2500-HB17	BELT CONVEYOR	7808, PSDTX256M3
2500-HB18	BELT CONVEYOR	7808, PSDTX256M3
2500-SS06	5” X 2” BUFFER BIN	7808, PSDTX256M3
2500-SS07	2” X 1” BUFFER BIN	7808, PSDTX256M3
2500-WB	KILN 4 SKIP HOIST WEIGHT BIN	7808, PSDTX256M3
25HCAL1HYD	NO. 1 HI-CAL HYDRATOR	7808, PSDTX256M3
26HCALCONV	CONVEYOR HI-CAL HYDRATE PNEU	7808, PSDTX256M3
27CMNTBN	CEMENT BIN, MIXING AREA	7808, PSDTX256M3
28SABIN	SA LIME BIN	7808, PSDTX256M3
29DLQKCON	DOLO QUICKLIME CONVEYOR	7808, PSDTX256M3
30PACFDBN	SA SILO	7808, PSDTX256M3
31DOLHYBN	DOLO HYDRATE BIN	7808, PSDTX256M3
3240	BELT CONVEYOR	7808, PSDTX256M3
3240-1	KILN 4 WEIGHT BIN 1	7808, PSDTX256M3
33DOLOMILL	DOLOMITIC HYDRATE TUBE MILL	7808, PSDTX256M3
33HCHYSIL	HI-CAL HYDRATE SILOS	7808, PSDTX256M3

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**
34HCHY4BN	HY-CAL HYDRATE STORAGE	7808, PSDTX256M3
35HCLD	HI-CAL BULK LOAD	7808, PSDTX256M3
36IRRLD	I SILO RAIL LOADING	7808, PSDTX256M3
36JRRLD	J SILO RAIL LOADING	7808, PSDTX256M3
37FBN	F SILO	7808, PSDTX256M3
37FBNLD	F SILO RAIL LOADING	7808, PSDTX256M3
38KRRLD	K SILO RAIL LOADING	7808, PSDTX256M3
39DOLOMILL	DOLOMITIC HYDRATE TUBE MILL	7808, PSDTX256M3
3CRUSHPILE	PRIMARY CRUSHER STONE STORAGE	7808, PSDTX256M3
3PRICRSHR	PRIMARY CRUSHER	7808, PSDTX256M3
40TRKLD	SILO 5 TRUCK LOADING	7808, PSDTX256M3
4100-SS12	OFF-SPEC STONE BIN	7808, PSDTX256M3
41HYTRKLD	SILO 4 TRUCK LOADING	7808, PSDTX256M3
41QLTRKLD	QUICKLIME TRUCK LOADING	7808, PSDTX256M3
42HCPAC	PACKING 2 SPOUT	7808, PSDTX256M3
42SAPAC	PACKAGE DOLOMITE	7808, PSDTX256M3
42SAPLD	TRUCK LOADING AT BAGGING	7808, PSDTX256M3
4SNDCRSHR	SECONDARY CRUSHER	7808, PSDTX256M3
5CRSHFINES	SECONDARY CRUSHER FINES	7808, PSDTX256M3
5SCRSHLD	CRUSHER FINES TRUCK LOADING	7808, PSDTX256M3
6HCLSTONE	HI-CAL STORAGE PILE	7808, PSDTX256M3

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
7KSTNSCN	CONVEYOR AND SCALP SCREEN	7808, PSDTX256M3
7SCLPSCNLD	SCALPING BIN TRUCK LOADING	7808, PSDTX256M3
8RK3DSTBN	ROTARY KILN #3 DUST BIN	7808, PSDTX256M3
8RK3DSTLD	NO. 3 DUST BIN TRUCK LOADING	7808, PSDTX256M3
9RKLN3	ROTARY KILN 3	7808, PSDTX256M3
COKEPILE	COKE PILE, COKE STORAGE	7808, PSDTX256M3
DIESELTANK	DIESEL TANK	106.472/09/04/2000
GASLOAD	GASOLINE LOADING/ UNLOADING	106.473/09/04/2000
HICALBLD	HI-CAL BUILDING	7808, PSDTX256M3
HYDHTR1	NO. 1 HYDRATOR BAGHOUS DRYER	7808, PSDTX256M3
HYDTAILLD	HYDRATE TAILINGS (OPEN) TRUCK LOADING	7808, PSDTX256M3
HYDTAILSL	HYDRATE TAILINGS SILO	7808, PSDTX256M3
KILN2ENG	KILN ENGINES	106.511/09/04/2000
KILN3ENG	KILN ENGINES	106.511/09/04/2000
KILN4	KILN 4	7808, GHGPSDTX187, PSDTX256M3
LIMEDUMP	LIME DUMP STORAGE PILE	7808, PSDTX256M3
NW-BIN1	NW SECONDARAY CRUSHER BIN	7808, PSDTX256M3
NW-CRUSH	NW SECONDARY CRUSHER	7808, PSDTX256M3
NW-ENG	NW EMERGENCY GENERATOR	106.511/09/04/2000
NW-LHC-01	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-02	NW BELT CONVEYOR	7808, PSDTX256M3

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**
NW-LHC-03	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-04	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-05	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-06	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-07	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-08	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-09	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-10	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-11	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-12	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-13	NW BELT CONVEYOR	7808, PSDTX256M3
NW-LHC-14	NW BELT CONVEYOR	7808, PSDTX256M3
NW-SCR1	NW VIBRATING SCREEN 1	7808, PSDTX256M3
NW-SCR2	NW VIBRATING SCREEN 2	7808, PSDTX256M3
NWBIN2	NO.2 (NW) DUST BIN	7808, PSDTX256M3
NWBIN2LD	NO. 2 (NW) DUST BIN TRUCK LOADING	7808, PSDTX256M3
OTHLOAD	DIESEL LOADING/ UNLOADING	106.472/09/04/2000
TRANS1	CONVEYOR TRANSFER 1	7808, PSDTX256M3
TRANS2	CONVEYOR TRANSFER 2	7808, PSDTX256M3
TRANS3	CONVEYOR TRANSFER 3	7808, PSDTX256M3
TRANS4	CONVEYOR TRANSFER 4	7808, PSDTX256M3

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**
TRANS5	CONVEYOR TRANSFER 5	7808, PSDTX256M3
TRANS6	CONVEYOR TRANSFER 6	7808, PSDTX256M3
TRANS7	CONVEYOR TRANSFER 7	7808, PSDTX256M3

**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
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 Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
13KLN2STCK	Rotary Kiln 2 Baghouse Stack	PM	5.02	21.98	2, 4, 6, 8, 12, 16, 17, 29, 36, 37, 38, 52, 54, 55, 56, 57, 58	2, 4, 8, 12, 16, 17, 29, 36, 37, 38, 52, 54, 55, 56, 57, 58, 59	8, 12, 38, 54, 58, 60
		PM_{10}	5.02	21.98			
		$PM_{2.5}$	2.46	10.79			
		NO_x (6)	105.00	459.90			
		CO (6)	63.00	276.00			
		VOC	0.83	3.61			
		SO_2	53.60	234.77			
		H_2SO_4	2.04	8.96			
		HCl (7)	1.52	6.63			
9KLN3STCK	Rotary Kiln 3 Baghouse Stack	PM	7.71	33.78	2, 4, 6, 8, 11, 16, 17, 29, 36, 37, 38, 50, 54, 55, 56, 57, 58	2, 4, 8, 11, 16, 17, 29, 36, 37, 38, 50, 54, 55, 56, 57, 58, 59	8, 38, 54, 58, 60
		PM_{10}	7.71	33.78			
		$PM_{2.5}$	3.78	16.58			
		NO_x (6)	91.00	398.58			
		CO (6)	77.00	337.26			
		VOC	1.10	4.82			

Major NSR Summary Table

Permit Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		SO_2	71.52	313.26			
		H_2SO_4	2.73	11.94			
		HCl (7)	1.52	6.63			
10CLSURGE	Surge Pile, Coal Storage (8)	PM	--	0.14	15, 22, 30, 53	15, 22, 30, 53, 59	
		PM_{10}	--	0.07			
		$PM_{2.5}$	--	0.01			
10COALBHFN	Coal Unload and Reclaim Dust Collector Stack	PM	0.24	1.05	8, 14, 17, 29, 51	8, 14, 17, 29, 51, 59	8
		PM_{10}	0.24	1.05			
		$PM_{2.5}$	0.12	0.51			
11CLCRFN	Coal Crush and Bins Dust Collector Stack	PM	0.10	0.45	8, 14, 29, 51	8, 14, 29, 51, 59	8
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.05	0.22			
14COALYARD	Coal Handling Facility	PM	--	6.09	8, 15, 22, 53	8, 15, 22, 53, 59	8

Major NSR Summary Table

Permit Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Storage (8)	PM_{10}	--	3.05			
		$PM_{2.5}$	--	0.46			
15Q2-3CNFN	Quicklime Conveyor in Kiln Dust Collector Stack	PM	0.26	1.13	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.26	1.13			
		$PM_{2.5}$	0.13	0.55			
16QL1-2FN	1rk and 2rk Quicklime Conveyors Dust Collector Stack	PM	0.49	2.16			
		PM_{10}	0.49	2.16	14, 17, 29, 51	14, 17, 29, 51, 59	
		$PM_{2.5}$	0.24	1.06			
17QL1-2FN	QL Convey/Elevator Dust Collector Stack	PM	0.39	1.73			
		PM_{10}	0.39	1.73	14, 17, 29, 51	14, 17, 29, 51, 59	
		$PM_{2.5}$	0.19	0.85			
18KSILOFN	K Silo Quicklime Storage Bin Vent	PM	0.20	0.88			
		PM_{10}	0.20	0.88	14, 29, 51	14, 29, 51, 59	
		$PM_{2.5}$	0.10	0.43			
19GSILOFN	G Silo Quicklime	PM	0.25	1.09	14, 17, 29, 51	14, 17, 29, 51, 59	

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Storage Bin Vent	PM_{10}	0.25	1.09			
		$PM_{2.5}$	0.12	0.53			
19HSILOFN	H Silo Quicklime Storage Bin Vent	PM	0.11	0.50	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.11	0.50			
		$PM_{2.5}$	0.05	0.25			
21DOLGRDFN	Dolomite, Grind, Store, and Load Dust Collector Stack	PM	0.43	1.88	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.43	1.88			
		$PM_{2.5}$	0.21	0.92			
22QLHYFN	Quicklime Hydrated Feed Bin Dust Collector Stack	PM	0.24	1.03	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.24	1.03			
		$PM_{2.5}$	0.12	0.50			
23CORSNSTK	Corson Hydrator Dryer Stack	PM	0.03	0.13	6, 14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.03	0.13			
		$PM_{2.5}$	0.03	0.13			
		NO_x	0.39	1.72			

Major NSR Summary Table

Permit Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		CO	.33	01.44			
		VOC	0.02	0.1			
		SO_2	0.06	0.25			
23CORSNSTK	Corson Hydrator Dust Collector Stack	PM	0.32	1.40			
		PM_{10}	0.32	1.40	14, 17, 29, 51	14, 17, 29, 51, 59	
		$PM_{2.5}$	0.32	1.40			
24HYSCBR	No. 2 HI-CAL Hydrator Vent	PM	1.20	5.30			
		PM_{10}	0.66	2.90		58	
		$PM_{2.5}$	0.324	1.43			
25HYSCBR	No. 1 HI-CAL Hydrator Vent	PM	1.20	5.30			
		PM_{10}	0.66	2.90	14, 20	14, 20, 59	
		$PM_{2.5}$	0.324	1.43			
26HCCONFN	Conveyor HI-CAL Hydrate Pneumatic Dust Collector Stack	PM	0.20	0.88			
		PM_{10}	0.20	0.88	14, 29, 51	14, 29, 51, 59	
		$PM_{2.5}$	0.10	0.43			

Major NSR Summary Table

Permit Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
27CMNTFN	Cement Bin, Mixing Area Dust Collector Stack	PM	0.20	0.88	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.20	0.88			
		$PM_{2.5}$	0.10	0.43			
28SAFN	Silo#6 in Hydrator/Packaging Area Dust Collector Stack	PM	0.15	0.39	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.15	0.39			
		$PM_{2.5}$	0.07	0.19			
29DLQKFN	Dolo Quicklime Conveyor Dust Collector Stack	PM	0.20	0.88	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.20	0.88			
		$PM_{2.5}$	0.10	0.43			
30PACFDFN	SA Silo Bin Vent	PM	0.20	0.88	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.20	0.88			
		$PM_{2.5}$	0.10	0.43			

Major NSR Summary Table

Permit Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
31DOLHYFN	Dolo Hydrator Bin Baghouse Stack	PM	0.13	0.56	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.13	0.56			
		$PM_{2.5}$	0.06	0.27			
33DOMILLFN	Dolomitic Hydrate Tube Mill Dust Collector Stack	PM	0.11	0.50	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.11	0.50			
		$PM_{2.5}$	0.05	0.25			
33HCHYFN	HI-CAL Hydrate Silos Bin Vent	PM	0.09	0.38	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.09	0.38			
		$PM_{2.5}$	0.04	0.19			
34HCHY4FN	Silo #4 Hydrated Lime Storage Dust Collector Stack	PM	0.21	0.18	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.21	0.18			
		$PM_{2.5}$	0.10	0.09			
35HCLDFN	HI-CAL Bulk Load Dust Collector Stack	PM	0.05	0.23	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.05	0.23			
		$PM_{2.5}$	0.02	0.11			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
35HCLDFUG	Silo 8 Truck Loading (8)	PM	0.38	0.46	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.21	0.25			
		$PM_{2.5}$	0.10	0.12			
36IRRFN	Rail Loading, I Silo Bin Vent	PM	0.37	1.63	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.37	1.63			
		$PM_{2.5}$	0.18	0.80			
36IRRLDFUG	I Silo Rail Loading (8)	PM	0.76	0.38	15, 18, 31, 53	15, 18, 31, 53, 59	
		PM_{10}	0.42	0.21			
		$PM_{2.5}$	0.21	0.10			
36JRRLDFUG	J Silo Rail Loading (8)	PM	0.46	0.38	15, 18, 31, 53	15, 18, 31, 53, 59	
		PM_{10}	0.25	0.21			
		$PM_{2.5}$	0.12	0.10			
37FBNFN	F Silo Baghouse Stack	PM	0.09	0.38	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.09	0.38			
		$PM_{2.5}$	0.04	0.19			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
37FBNLDFUG	F Silo Rail Loading (8)	PM	0.92	0.76	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.50	0.42			
		$PM_{2.5}$	0.25	0.21			
38KRRFN	Rail Loading, K Silo Baghouse Stack	PM	0.13	0.58	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.13	0.58			
		$PM_{2.5}$	0.06	0.28			
38KRRLDFUG	K Silo Rail Loading (8)	PM	0.90	0.14	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.50	0.07			
		$PM_{2.5}$	0.24	0.04			
39DOMILLFN	Dolomitic Hydrate Tube Mill Dust Collector Stack	PM	0.09	0.41	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.09	0.41			
		$PM_{2.5}$	0.04	0.20			
3CRUSHPILE	Primary Crusher Stone Storage (8)	PM	--	2.22	15, 21, 30, 53	15, 21, 30, 53, 59	
		PM_{10}	--	1.11			
		$PM_{2.5}$	--	0.17			

Major NSR Summary Table

Permit Number: 7808 and PSDTX256M3					Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
3PCRSHRFN	Primary Crusher Dust Collector Stack	PM	0.24	0.74	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.24	0.74			
		$PM_{2.5}$	0.12	0.36			
40TRKFN	Truck Loading Dust Collector Stack	PM	0.11	0.49	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.11	0.49			
		$PM_{2.5}$	0.05	0.24			
40TRKLDFUG	Silo 5 Truck Loading (8)	PM	0.31	0.15	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.17	0.08			
		$PM_{2.5}$	0.08	0.04			
41HYTRKFN	Hydrated Lime Truck Loading Dust Collector Stack	PM	0.06	0.05	14, 29, 32, 33, 49, 51	14, 29, 32, 33, 49, 51, 59	
		PM_{10}	0.06	0.05			
		$PM_{2.5}$	0.03	0.03			
41QLLDFUG	Quicklime Truck Loading (8)	PM	0.15	0.61	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.08	0.34			
		$PM_{2.5}$	0.04	0.16			

Major NSR Summary Table

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
41QLTRKFN	Quicklime Truck Loading Dust Collector Stack	PM	0.11	0.50	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.11	0.50			
		$PM_{2.5}$	0.05	0.25			
42HCPACFN	Packing 2 Spout Dust Collector Stack	PM	0.36	1.60	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.36	1.60			
		$PM_{2.5}$	0.18	0.78			
42SAPACFN	Packaging Area Dust Collector Stack	PM	0.43	1.27	14, 17, 29, 33, 49, 51	14, 17, 29, 33, 49, 51, 59	
		PM_{10}	0.43	1.27			
		$PM_{2.5}$	0.21	0.62			
4SCRSHRFN	Secondary Crusher Baghouse Stack	PM	0.54	1.66	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.54	1.66			
		$PM_{2.5}$	0.26	0.81			
5CRSHLDFUG	Crusher Fines Truck Loading (8)	PM	1.00	1.55	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.48	0.74			
		$PM_{2.5}$	0.07	0.11			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
5FINESFN	Secondary Crusher Fines Dust Collector Stack	PM	0.06	0.26	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.06	0.26			
		$PM_{2.5}$	0.03	0.13			
6HCLSTONE	HI-CAL Storage Pile (8)	PM	--	12.50	15, 21, 30, 53	15, 21, 30, 53, 59	
		PM_{10}	--	6.25			
		$PM_{2.5}$	--	0.94			
7SCLPLDFUG	Scalping Bin Truck Loading (8)	PM	0.62	0.17	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.30	0.08			
		$PM_{2.5}$	0.05	0.01			
7SCLPSCNFN	Conveyor and Scalp Screen Dust Collector Stack	PM	0.12	0.53	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.12	0.53			
		$PM_{2.5}$	0.06	0.26			
8RK3DSTFN	No. 3 Dust Bin Baghouse Stack	PM	0.21	0.93	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.21	0.93			
		$PM_{2.5}$	0.10	0.46			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
8RK3LDFUG	No. 3 Dust Bin Truck Loading (8)	PM	9.00	4.50	15, 19, 27, 31, 53	15, 19, 27, 31, 53, 59	
		PM_{10}	4.95	2.48			
		$PM_{2.5}$	2.43	1.22			
COKEPILE	Coke Pile, Coke Storage (8)	PM	--	6.09	15, 30, 53	15, 30, 53, 59	
		PM_{10}	--	3.05			
		$PM_{2.5}$	--	0.46			
HICALBLDFN	HI-CAL Building Dust Collector Stack	PM	0.62	2.71	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.62	2.71			
		$PM_{2.5}$	0.30	1.33			
HYD1FN	No. 1 Hydrator Dust Collector Stack	PM	0.31	1.35	14, 17, 29, 51	14, 17, 29, 51, 59	
		PM_{10}	0.31	1.35			
		$PM_{2.5}$	0.15	0.66			
HYD1FN	No. 1 Hydrator Dryer Baghouse Stack	PM	0.02	0.10	6, 14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.02	0.10			
		$PM_{2.5}$	0.02	0.10			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		NO_x	0.29	1.29			
		CO	0.25	1.08			
		VOC	0.02	0.07			
		SO_2	0.04	0.18			
HYDLDFUG	Hydrate Tailings Truck Loading (8)	PM	0.29	0.10	15, 27, 31, 53	15, 27, 31, 53, 59	
		PM_{10}	0.16	0.06			
		$PM_{2.5}$	0.08	0.03			
HYDTAILVNT	Hydrate Tailing Silo Bin Vent	PM	0.03	0.11	14, 29, 51	14, 29, 51, 59	
		PM_{10}	0.03	0.11			
		$PM_{2.5}$	0.01	0.05			
LIMEDUMP	Lime Dump Storage Pile (8)	PM	--	2.41	15, 30, 53	15, 30, 53, 59	
		PM_{10}	--	1.21			
		$PM_{2.5}$	--	0.18			
NWBIN2FN	No. 2 (NW) Dust Bin Dust Collector Stack	PM	0.40	1.76	14, 29, 51	14, 29, 59	
		PM_{10}	0.40	1.76			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.20	0.86			
NWBN2LDFUG	No. 2 Dust Bin Truck Loading (8)	PM	0.05	0.06	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.03	0.03			
		$PM_{2.5}$	0.01	0.02			
TRANS1FUG	Conveyor Transfer 1 (8)	PM	0.20	0.44	15, 25, 53	15, 25, 53, 59	
		PM_{10}	0.10	0.21			
		$PM_{2.5}$	0.01	0.03			
TRANS2FUG	Conveyor Transfer 2 (8)	PM	0.20	0.44	15, 25, 53	15, 25, 53, 59	
		PM_{10}	0.10	0.21			
		$PM_{2.5}$	0.01	0.03			
TRANS3FUG	Conveyor Transfer 3 (8)	PM	0.20	0.44	15, 25, 53	15, 25, 53, 59	
		PM_{10}	0.10	0.21			
		$PM_{2.5}$	0.01	0.03			
TRANS4FUG	Conveyor Transfer 4 (8)	PM	0.05	0.21	15, 25, 53	15, 25, 53, 59	
		PM_{10}	0.02	0.10			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		$PM_{2.5}$	<0.01	0.01			
TRANS5FUG	Conveyor Transfer 5 (8)	PM	0.02	0.08	15, 25, 53	15, 25, 53, 59	
		PM_{10}	0.01	0.04			
		$PM_{2.5}$	<0.01	0.01			
TRANS6FUG	Conveyor Transfer 6 (8)	PM	0.01	0.03	8, 15, 25, 53	8, 15, 25, 53, 59	8
		PM_{10}	<0.01	0.01			
		$PM_{2.5}$	<0.01	<0.01			
TRANS7FUG	Conveyor Transfer 7 (8)	PM	0.05	0.22	15, 25, 53	15, 25, 53, 59	
		PM_{10}	0.03	0.11			
		$PM_{2.5}$	<0.01	0.01			
6140-Db02	Kiln No. 4 Baghouse Stack	PM	4.01	17.57	3, 5, 6, 8, 13, 16, 17, 29, 36, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51	3, 5, 8, 13, 16, 17, 29, 36 38, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 59	8, 41, 44, 45, 47, 60
		PM_{10}	4.01	17.57			
		$PM_{2.5}$	1.97	8.61			
		NO_x	9.63	42.16			
		CO	17.88	78.29			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		SO_2	1.25	5.48			
		VOC	0.54	2.34			
		HCl	0.55	2.41			
SCREEN	Screening Operations (5)	PM	0.05	0.22	8, 15, 31, 53	8, 15, 31, 53, 59	8
		PM_{10}	0.02	0.07			
		$PM_{2.5}$	0.01	0.01			
CONVEY	Conveyance Operations (5)	PM	0.26	0.58	8, 15, 25, 53	8, 15, 25, 53, 59	8
		PM_{10}	0.09	0.19			
		$PM_{2.5}$	0.02	0.05			
TRANSFER	Material Transfer Operations (5)	PM	0.24	0.53	8, 15, 25, 53	8, 15, 25, 53, 59	8
		PM_{10}	0.08	0.17			
		$PM_{2.5}$	0.02	0.05			
STOCKPILES	Material Stockpiles (5)	PM	--	0.73	15, 21, 30, 53	15, 21, 30, 53, 59	
		PM_{10}	--	0.36			
		$PM_{2.5}$	--	0.05			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
OFFLDFUG	Off-Spec Lime and Reject Stone Loading (5)	PM	0.02	0.04	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.01	0.02			
		$PM_{2.5}$	<0.01	<0.01			
PRODLDFUG	Product Loading Fugitives (5)	PM	0.07	0.07	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.04	0.04			
		$PM_{2.5}$	0.02	0.02			
NW-CRUSH	Crusher (5)	PM	<0.01	0.02	8, 15, 30, 31, 53	8, 15, 30, 31, 53, 59	8
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
NW-SCREEN	Vibrating Screens (5)	PM	0.23	0.51	8, 15, 31, 53	8, 15, 31, 53, 59	8
		PM_{10}	0.08	0.18			
		$PM_{2.5}$	0.01	0.03			
NW-Convey	Conveyance Operations (5)	PM	0.07	0.15	8, 15, 25, 53	8, 15, 25, 53, 59	8
		PM_{10}	0.02	0.05			
		$PM_{2.5}$	<0.01	0.01			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
NW-TRANSFER	Material Transfer Operations (5)	PM	0.20	0.45	8, 15, 25, 53	8, 15, 25, 53, 59	8
		PM_{10}	0.07	0.15			
		$PM_{2.5}$	0.02	0.04			
NW-PILES	Material Stockpiles (5)	PM	--	3.61	15, 21, 30, 53	15, 21, 30, 53, 59	
		PM_{10}	--	1.81			
		$PM_{2.5}$	--	0.27			
HYDRDC	Hydrator Vent Dust Collector Stack	PM	0.15	0.53	14, 17, 29, 49, 51	14, 17, 29, 49, 51, 59	
		PM_{10}	0.15	0.53			
		$PM_{2.5}$	0.07	0.26			
HYDOSDC	Hydrator Dosing Bin Dust Collector Stack	PM	0.03	0.11	14, 29, 49, 51	14, 29, 49, 51, 59	
		PM_{10}	0.03	0.11			
		$PM_{2.5}$	0.02	0.05			
HYBINDC	Hydrator Quicklime Silo Dust Collector Stack	PM	0.21	0.72	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.21	0.72			
		$PM_{2.5}$	0.10	0.35			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
HYLOADDC	Hydrated Lime Truck Loading Dust Collector Stack	PM	0.04	0.09	14, 29, 32, 33, 49, 51	14, 29, 32, 33, 49, 51, 59	
		PM_{10}	0.04	0.09			
		$PM_{2.5}$	0.02	0.05			
HYHCBINDC	Hydrated Lime Rail Bin Dust Collector Stack	PM	0.15	0.10	14, 29, 32, 33, 49, 51	14, 29, 32, 33, 49, 51, 59	
		PM_{10}	0.15	0.10			
		$PM_{2.5}$	0.07	0.05			
HYRLOADDC	Hydrator Rail Loading Dust Collector Stack	PM	0.08	0.05	14, 29, 32, 33, 49, 51	14, 29, 32, 33, 49, 51, 59	
		PM_{10}	0.08	0.05			
		$PM_{2.5}$	0.04	0.02			
42SAPLDFUG	Hydrate Truck Loadout at Silo 6 (5)	PM	0.03	0.03	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.02	0.02			
		$PM_{2.5}$	<0.01	<0.01			
41HYLDFUG	Hydrate Truck Loadout at Silo 4 (5)	PM	0.03	0.03	15, 53	15, 53, 59	
		PM_{10}	0.02	0.02			
		$PM_{2.5}$	<0.01	<0.01			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
HYHCLDFUG	Hydrate Truck/Rail Loadout (5)	PM	0.06	<0.01	15, 31, 53	15, 31, 53, 59	
		PM_{10}	0.03	<0.01			
		$PM_{2.5}$	0.02	<0.01			
4140-Db08a	Vibrating Feeders Dust Collector 4140-Db08a Stack	PM	0.04	0.08	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.04	0.08			
		$PM_{2.5}$	0.02	0.04			
4140-Db08b	Vibrating Feeders Dust Collector 4140-Db08b Stack	PM	0.04	0.08	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.04	0.08			
		$PM_{2.5}$	0.02	0.04			
4140-Db17	Conveyor 4140-Hb05 Dust Collector 4140-Db17 Stack	PM	0.08	0.33	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.08	0.33			
		$PM_{2.5}$	0.04	0.16			
4140-Db76	Top of Run of Kiln Silos Dust Collector 4140-Db76 Stack	PM	0.18	0.79	14, 29, 49, 51	14, 29, 49, 51, 59	
		PM_{10}	0.18	0.79			
		$PM_{2.5}$	0.09	0.39			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
4140-Db83a	Conveyor 4140-Hb72 Dust Collector 4140-Db83a Stack	PM	0.04	0.12	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.04	0.12			
		$PM_{2.5}$	0.02	0.06			
4140-Db83b	Conveyor 4140-Hb72 Dust Collector 4140-Db83b Stack	PM	0.04	0.12	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.04	0.12			
		$PM_{2.5}$	0.02	0.06			
4140-Db87	Bottom of Run of Kiln Silos Dust Collector 4140-Db87 Stack	PM	0.21	0.92	14, 29, 49, 51	14, 29, 49, 51, 59	
		PM_{10}	0.21	0.92			
		$PM_{2.5}$	0.10	0.45			
6240-Db06	Product Surge Bins Dust Collector 6240-Db06 Stack	PM	0.04	0.09	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.04	0.09			
		$PM_{2.5}$	0.02	0.05			
6240-Db23	Product Loading Spout Dust Collector 6240-Db23 Stack	PM	0.08	0.17	14, 29, 33, 49, 51	14, 29, 33, 49, 51, 59	
		PM_{10}	0.08	0.17			
		$PM_{2.5}$	0.04	0.08			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
2440-Db21	Off-Spec and Reject Stone Silo-Dust Collector 2440-Db21 Stack	PM	0.05	0.23	8, 14, 29, 49, 51	8, 14, 29, 49, 51, 59	8
		PM_{10}	0.05	0.23			
		$PM_{2.5}$	0.03	0.11			
1-TRNSFR	2" x 5" Material Transfer Operations	PM	<0.01	<0.01	8, 15, 25, 53	8, 15, 25, 53, 59	8
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
1-PILES	Existing Kiln Area 2" x 5" Material Stockpile	PM	-	1.08	15, 21, 30, 53	15, 21, 30, 53, 59	
		PM_{10}	-	0.54			
		$PM_{2.5}$	-	0.08			
Before Construction of EPNs 6200-Db34, 6200-Db52, 6200-Db58, and GYPLDFUG							
GYPLOAD	Gypsum Loading (8)	PM	0.11	0.08	15, 28, 31	15, 28, 31, 59	
		PM_{10}	0.05	0.04			
		$PM_{2.5}$	0.01	<0.01			
After Construction of EPNs 6200-Db34, 6200-Db52, 6200-Db58, and GYPLDFUG							
6200-Db34	Gypsum Silo Dust	PM	0.04	0.02	14, 28, 29, 33, 49, 51	14, 28, 29, 33, 49, 51,	

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			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Collector 6200-Db34 Stack	PM_{10}	0.04	0.02		59	
		$PM_{2.5}$	0.02	<0.01			
6200-Db52	Gypsum Loading Spout Dust Collector 6200-Db52 Stack	PM	0.07	0.05	14, 28, 29, 33, 49, 51	14, 28, 29, 33, 49, 51, 59	
		PM_{10}	0.07	0.05			
		$PM_{2.5}$	0.03	0.02			
6200-Db58	Gypsum Loading Spout Dust Collector 6200-Db58 Stack	PM	0.07	0.05	14, 28, 29, 33, 49, 51	14, 28, 29, 33, 49, 51, 59	
		PM_{10}	0.07	0.05			
		$PM_{2.5}$	0.03	0.02			
GYPLDFUG	Gypsum Truck/Rail Loading Fugitives	PM	<0.01	<0.01	15, 31, 53	15, 31, 53, 59	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<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
HCl - hydrogen chloride
H_2SO_4 - sulfuric acid

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Planned startup and shutdown emissions are included.
(6) The hourly (lb/hr) emission rate for this air contaminant is on a 30-day rolling average basis.
(7) The combined HCl emissions from Kiln Nos. 2 and 3 shall not exceed these rates. Any stack testing that the TCEQ Executive Director might require to demonstrate compliance with this limit shall be conducted on Kiln Nos. 2 and 3 simultaneously.
(8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Major NSR Summary Table

Permit Number: GHGPSDTX187				Issuance Date: March 30, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**	**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			TPY (4)	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
VERTKLNSTK	Vertical Lime Kiln Baghouse Stack	CO_2 (5)	265,887	62	61, 62	
		CH_4 (5)	0.959			
		N_2O (5)	0.096			
		CO_2e	265,940			

(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) CO_2 - carbon dioxide N_2O - nitrous oxide
CH_4 - methane
CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015): CO_2 (1), N_2O (298), CH_4(25), SF_6 (22,800), HFC (various), PFC (various)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Lhoist North America Of Texas, LLC
Authorizing the Construction and Operation of
Lime Manufacturing Plant
Located at **New Braunfels, Comal County, Texas**
Latitude 29.681111 Longitude -98.178888

Permits: 7808, GHGPSDTX187 and PSDTX256M3

Amendment Date: March 30, 2023

Expiration Date: November 5, 2029

Erin E. Chancellor

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
$\mu g/m^3$ = 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 7808, PSDTX256M3, and GHGPSDTX187

Emission Limitations

1. This permit covers 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. Thirty-day rolling average emissions that are computed for purposes of determining compliance with the oxides of nitrogen (NO_x) or carbon monoxide (CO) emissions limits in these Special Conditions and the maximum allowable emission rates table (MAERT) shall be computed daily as the average of the daily average emissions on the 30 preceding days. In addition to the emissions from routine operations, this permit authorizes emissions from planned startup and shutdown activities, and those emissions shall comply with the limits specified in the MAERT. **(12/13)**

2. Kilns Nos. 2 and 3 (Emission Point Numbers [EPNs] 13KLN2STCK and 9KLN3STCK) shall meet the following emissions limitations, except during planned startup and shutdown:

   A. NO_x – 2.6 pounds per ton lime produced (lbs/tlp), 30-day rolling average, Kiln No. 3; 5.0 lbs/tlp, 30-day rolling average, Kiln No. 2.

   B. CO – 2.2 lbs/tlp, 30-day rolling average, Kiln No.3; 3.0 lbs/tlp, 30-day rolling average, Kiln No. 2.

   C. Particulate matter (PM) – 0.01 grain per dry standard cubic foot (gr/dscf), Kilns Nos. 2 and 3. **(03/10)**

3. Kiln No. 4 (EPN 6140-Db02) shall meet the following emissions limitations, except during planned startup and shutdown: **(03/20)**

   A. NO_x – 0.35 pounds (lbs)/tons of lime produced (tlp), 3-hour rolling average.

   B. CO – 0.65 lbs/tlp, 3-hour rolling average.

   C. PM/PM_{10} – 0.009 grains (gr)/dry standard cubic feet (dscf), 3-hour average.

   D. $PM_{2.5}$ – 0.0044 gr/dscf, 3-hour average.

   E. HCl – 0.02 lbs/tlp, 3-hour average.

Fuel Specifications

4. The only fuels authorized for Rotary Kiln 2 (EPN 13KLN2STCK) (150 million British thermal units per hour [MMBtu/hr] maximum) and Rotary Kiln 3 (EPN 9KLN3STCK) (200 MMBtu/hr maximum) are natural gas, coal, and petroleum coke. The maximum sulfur from the above-referenced fuels that can be fed to Kiln No. 2 is 426 pounds per hour. The maximum sulfur from the above-referenced fuels that can be fed to Kiln No. 3 is 568 pounds per hour. Compliance with the limits in this condition is to be determined on a daily (24-hour block average) basis. **(03/10)**

5. Fuel for Kiln No. 4 (EPN 6140-Db02) shall be 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). **(03/20)**

6. 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. If the holder of the permit provides a fuel sample to the agency, the permit holder may take a split sample for their own analysis.

Fuel Analysis

7. The holder of this permit shall determine and maintain documentation of the total sulfur content (wet/as received basis) of, and a trace metals analysis (consisting of vanadium, nickel, chromium, and lead) of the coal and petroleum coke to be fired. These analyses shall be conducted every six months thereafter or within one month of a change of vendors to insure the composition of the fuel has not significantly changed from permit application representations. Trace metal composition shall be limited to the part per million (ppm) concentrations listed below.

   A. Vanadium at 3,500 ppmw

   B. Nickel at 600 ppmw

   C. Chromium at 50 ppmw

   D. Lead at 10 ppmw

   If sampling/analysis indicates an exceedance of any of these limits, the holder of this permit must notify the Texas Commission on Environmental Quality (TCEQ) San Antonio Regional Office and must conduct additional analyses to confirm concentrations. If the additional analyses confirm exceedances of these limits, a corrective action plan must be submitted to the TCEQ San Antonio Regional Office. **(03/10)**

Federal Applicability

8. 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: **(11/19)**

   A. Subpart A - General Provisions;

   B. Subpart Y - Coal Preparation Plants;

   C. Subpart HH - Lime Manufacturing Plants; and

   D. Subpart OOO - Nonmetallic Mineral Processing Plants.

9. 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: **(11/19)**

   A. Subpart A - General Provisions;

   B. Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines.

10. If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit condition shall govern and be the standard by which compliance shall be demonstrated.

Opacity/Visible Emission Limitations

11. Opacity of emissions from the Rotary Kiln 3 Baghouse Stack (EPN 9KLN3STCK) shall not exceed 10 percent averaged over a six-minute period, as measured by a Continuous Opacity Monitoring System. **(03/10)**

12. Opacity of emissions from the Rotary Kiln 2 Baghouse Stack (EPN 13KLN2STCK) shall not exceed 10 percent averaged over a six-minute period, as measured by EPA Reference Method 9 (RM 9). **(03/10)**

13. Opacity of emissions from the Kiln No. 4 Baghouse Stack (EPN 6140-Db02) shall not exceed 5 percent averaged over a six-minute period, as measured by a Continuous Opacity Monitoring System. **(03/20)**

14. Opacity of particulate matter emissions from each baghouse stack other than the kiln-associated baghouse stacks shall not exceed 5 percent, averaged over a six-minute period. **(03/10)**

15. There shall be no visible fugitive emissions leaving the property from process buildings or fugitive sources exceeding a cumulative 30 seconds in duration in any six-minute period. **(11/19)**

Operational Limitations, Work Practices, and Plant Design

16. The production by each kiln of quick lime shall be limited as follows: **(11/19)**

    A. Rotary Kiln No. 2 (EPN 13KLN2STCK) shall be limited to 504 tons per day on a calendar month basis;

    B. Rotary Kiln No. 3 (EPN 9KLN3STCK) shall be limited to 850 tons per day on a calendar month basis; and

    C. The Kiln No. 4 (EPN 6140-Db02) shall be limited to 660 tons per day on a 30-day average basis.

17. Membrane-type bags shall be utilized on all baghouses with a flow rate greater than 5,000 acfm, the baghouses which control the F Silo (EPN 37FBNFN), and the Dolo Hydrator Bin (EPN 31DOLHYFN).

18. A pole barn-type enclosure with two sides and plastic curtains at the ends (or equivalent enclosure with written approval of the Director of APD) shall be utilized around the I and J Silos rail loading area (EPNs 36IRRLDFUG and 36JRRLDFUG).

19. Controls at least equivalent to a partial enclosure (skirt) shall be utilized on the No. 3 Dust Bin Truck Loading area (EPN 8RK3LDFUG) and the Off-Spec and Reject Stone Loading (EPN OFFLDFUG). The Vibrating Screens (EPN NW-SCREEN) shall utilize a partial enclosure combined with a high-pressure water system. **(03/22)**

20. A heated baghouse shall be utilized to control emissions from the No. 1 HI-CAL Hydrator (EPN 25HYSCBR).

21. Outside aggregate stockpiles shall be sprinkled with water and/or chemicals as necessary to ensure no visible emissions due to stockpiles leave the property boundary. **(03/10)**

22. Outside stockpiles of coal or petroleum coke shall be compacted and/or sprayed with chemicals as necessary to ensure no visible emissions due to stockpiles leave the property boundary. **(03/10)**

23. Outgoing railroad cars and trucks used in transporting products produced at the site shall be cleaned and maintained as necessary to reduce visible emissions from them as they leave the property boundary. **(03/10)**

24. All in-plant roads shall be paved and cleaned, and traffic areas and quarry roads shall be oiled or sprinkled with water and/or chemicals as necessary to ensure no visible emissions due to such roads and traffic areas leave the property boundary. **(03/10)**

25. All outdoor conveyor systems utilized shall be covered to the extent necessary to ensure that no visible emissions due to such conveyor systems leave the property boundary. **(03/10)**

26. Material collected by all air pollution abatement equipment which is not returned to the process shall be disposed of in a manner so as to not cause visible emissions associated with such disposal to leave the property boundary. **(03/10)**

27. The hours of operation for the No. 3 Dust Bin Truck Loading (EPN 8RK3LDFUG) and the Hydrate Tailings Truck Loading (EPN HYDLDFUG) shall be limited to 5:00 a.m. to 9:00 p.m. **(03/10)**

28. The existing gypsum handling operation source (EPN GYPLOAD) will no longer be authorized once the new gypsum handling system (EPNs 4900-Db34, 6200-Db52, 6200-Db58, GYPLDFUG) starts operational. **(03/23)**

29. Baghouses (dust collectors), properly installed and in good working order shall control particulate matter (PM) emissions from the following sources: **(03/22)**

Table 1: Sources Controlled by Baghouses/Fabric Filters (Dust Collectors)

EPN	Source Name	PM Outlet grain loading (grains per dry standard cubic feet)
13KLN2STCK	Rotary Kiln 2	0.01
9KLN3STCK	Rotary Kiln 3	0.01
10COALBHFN	Coal Unload and Reclaim	0.005
11CLCRFN	Coal Crush and Bins	0.01
15Q2-3CNFN	Quicklime Conveyor in Kiln	0.01
16QL1-2FN	1rk and 2rk Quicklime Conveyors	0.005
17QL1-2FN	QL Convey/Elevator	0.005
18KSILOFN	K Silo Quicklime Storage	0.01
19GSILOFN	G Silo Quicklime Storage	0.005
19HSILOFN	H Silo Quicklime Storage	0.01
21DOLGRDFN	Dolomite, Grind, Store, and Load	0.005
22QLHYFN	Quicklime Hydrated Feed Bin	0.01
23CORSNSTK	Corson Hydrator	0.005

EPN	Source Name	PM Outlet grain loading (grains per dry standard cubic feet)
26HCCONFN	Conveyor HI-CAL Hydrate Pneumatic	0.01
27CMNTFN	Cement Bin, Mixing Area	0.01
28SAFN	Silo #6	0.005
29DLQKFN	Dolo Quicklime Conveyor	0.01
30PACFDFN	SA Silo	0.01
31DOLHYFN	Dolo Hydrator Bin	0.005
33DOMILLFN	Dolomitic Hydrate Tube Mill	0.01
33HCHYFN	HI-CAL Hydrate Silos	0.01
34HCHY4FN	Silo #4 Hydrated Lime Storage	0.005
35HCLDFN	HI-CAL Bulk Load	0.01
36IRRFN	Rail Loading, I Silo	0.005
37FBNFN	F Silo	0.005
38KRRFN	Rail Loading, K Silo	0.01
39DOMILLFN	Dolomitic Hydrate Tube Mill	0.01
3PCRSHRFN	Primary Crusher	0.005
40TRKFN	Truck Loading	0.01
41HYTRKFN	Hydrated Lime Truck Loading	0.005
41QLTRKFN	Quicklime Truck Loading	0.01
42HCPACFN	Packing 2 Spout Dust Collector	0.005
42SAPACFN	Packaging Area	0.005
4SCRSHRFN	Secondary Crusher	0.005
5FINESFN	Secondary Crusher Fines	0.01
7SCLPSCNFN	Conveyor and Scalp Screen	0.01
8RK3DSTFN	No. 3 Dust Bin	0.01
HICALBLDFN	HI-CAL Building	0.005
HYD1FN	No. 1 Hydrator Dryer	0.005
HYDTAILVNT	Hydrate Tailing Silo	0.01
NWBIN2FN	No. 2 (NW) Dust Bin	0.01
6140-Db02	Kiln No. 4	0.009
HYDRDC	Hydrator Vent	0.0022
HYDOSDC	Hydrator Dosing Bin	0.0044
HYBINDC	Hydrator Quicklime Silo	0.005
HYLOADDC	Hydrated Lime Truck Loading	0.005
HYHCBINDC	Hydrated Lime Rail Bin	0.005

EPN	Source Name	PM Outlet grain loading (grains per dry standard cubic feet)
HYRLOADDC	Hydrator Rail Loading	0.005
4140-Db08a	Vibrating Feeders	0.005
4140-Db08b	Vibrating Feeders	0.005
4140-Db17	Conveyor 4140-Hb05	0.005
4140-Db76	Top of Run of Kiln Silos	0.005
4140-Db83a	Conveyor 4140-Hb72	0.005
4140-Db83b	Conveyor 4140-Hb72	0.005
4140-Db87	Bottom of Run of Kiln Silos	0.005
6240-Db06	Product Surge Bins	0.005
6240-Db23	Product Loading Spout	0.005
2440-Db21	Off-Spec and Reject Stone Silo	0.005
6200-Db34	Gypsum Silo	0.005
6200-Db52	Gypsum Loading Spout	0.005
6200-Db58	Gypsum Loading Spout	0.005

30. A permanently mounted spray bar shall be installed at the inlet and outlet of the Stone Handling Area Crusher (EPN NW-CRUSH). A dedicated water truck or area-type water sprays shall be available or installed at all stockpiles and active work areas. All water spray systems shall be operated as necessary to maintain compliance with TCEQ rules and regulations and permit application representations relating to dust control. **(11/19)**

31. Emission rates are based on and the facilities shall be limited to the following maximum hourly throughputs/production rates and annual throughputs/production rates: **(03/22)**

Table 2: Throughput Limits for Material and Product Loading

EPN	Description	24-hr Throughput Limit (tons/day)	Annual Throughput Limit (tons/yr)
37FBNLDFUG	F Silo Rail Loading	1,500	250,000
36IRRLDFUG	I Silo Rail Loading	2,000 (total for EPNs 36IRRLDFUG and 36JRRLDFUG)	250,000

EPN	Description	24-hr Throughput Limit (tons/day)	Annual Throughput Limit (tons/yr)
36JRRLDFUG	J Silo Rail Loading	2,000 (total for EPNs 36IRRLDFUG and 36JRRLDFUG)	250,000
41QLLDFUG	Quicklime Truck Loading	1,200	400,000
41HYLDFUG	Silo 4 Truck Loading	240	100,000
40TRKLDFUG	Silo 5 Truck Loading	2,400	100,000
35HCLDFUG	Silo 8 Truck Loading	3,000	300,000
NWBN2LDFUG	No.2 Dust Bin Truck Loading	384	40,000
8RK3LDFUG	No. 3 Dust Bin Truck Loading	120	40,000
HYDLDFUG	Hydrate Tailings Truck Loading	312	9,000
38KRRLDFUG	K Silo Rail Loading	300	12,000
7SCLPLDFUG	Scalping Screen Fines Bin Truck Loading	4,320	100,000
5CRSHLDFUG	Secondary Crusher Fines Truck Loading	3,480	900,000
GYPLOAD	Gypsum Loading	9.6	2,200
42SAPLDFUG	Silo 6 Truck Loading	960	100,000
HYHCLDFUG	Hydrate Loadout	480	3,600
SCREEN	Screening Operations	3,600	1,314,000
OFFLDFUG	Off Spec Lime and Reject Stone Truck Loading	960	183,960
PRODLDFUG	Product Loading	2,016	240,900
GYPLDFUG	Gypsum Truck/Rail Loading	36	15,000
NW-CRUSH	Crusher	3,000	1,095,000
NW-SCREEN	Vibrating Screen 1	8,628	3,149,220
NW-SCREEN	Vibrating Screen 2	5,016	1,830,840

32. Modeled emission rates are based on and the facilities shall be limited to the following maximum hours of operation per day: **(03/23)**

Table 3: Daily Hours of Operation Limitations

EPN	Description	Maximum Hours of Operation/Day
3PCRSHRFN	Primary Crusher	19.2

EPN	Description	Maximum Hours of Operation/Day
4SCRSHRFN	Secondary Crusher	19.2
4100-Db08a	Vibrating Feeders	24 (combined)
4100-Db08b	Vibrating Feeders	
4100-Db83a	Conveyor 4140-Hb72	16.8
4100-Db83b	Conveyor 4140-Hb72	16.8
4900-Db06	Product Surge Bins	16.8
4900-Db23	Product Loading Spout	16.8
4900-Db34	Gypsum Silo	2.4
4900-Db52	Gypsum Loading Spout	3.6
4900-Db58	Gypsum Loading Spout	3.6
HYLOADDC	Hydrated Lime Truck Loading	19.2
HYHCBINDC	Hydrated Lime Rail Bin	4.8
HYRLOADDC	Hydrator Rail Loading	4.8
41HYTRKFN	Hydrated Lime Truck Loading	4.8

33. Emission rates are based on and the facilities associated with the following baghouses (dust collectors) shall be limited to the following maximum hours of operation per year: **(03/23)**

Table 4: Annual Hours of Operation Limitations

EPN	Description	Maximum Hours of Operation/Year
28SAFN	Silo #6	5,256
34HCHY4FN	Silo #4 Hydrated Lime Storage	1,752
3PCRSHRFN	Primary Crusher	6,132
41HYTRKFN	Hydrated Lime Truck Loading	1,752
42SAPACFN	Packaging Area Vent	5,840
4SCRSHRFN	Secondary Crusher	6,132
HYDRDC	Hydrator	7,000
HYDOSC	Hydrator Dosing Bin	7,000
HYBINDC	Hydrator Quicklime Silo	7,000
HYLOADDC	Hydrated Lime Truck Loading Vent	4,380
HYHBINDC	Hydrated Lime Rail Bin Vent	1,314
HYRLOADDC	Hydrator Rail Loading Vent	1,314
4140-Db08a	Vibrating Feeders	4,380
4140-Db08b	Vibrating Feeders	4,380
4140-Db83a	Conveyor 4140-Hb72	6,132

EPN	Description	Maximum Hours of Operation/Year
4140-Db83b	Conveyor 4140-Hb72	6,132
6240-Db06	Product Surge Bins	4,380
6240-Db23	Product Loading Spout	4,380
6200-Db34	Gypsum Silo	876
6200-Db52	Gypsum Loading Spout	1,314
6200-Db58	Gypsum Loading Spout	1,314

34. The table below lists the sources or activities that are authorized by permits by rule (PBR) under Title 30 Texas Administrative Code (30 TAC) Chapter 106. This list is not intended to be all inclusive and can be altered at the site without modifications to this permit. **(12/13)**

Table 5: PBR Authorization References

Source or Activity	Authorization
Vacuum truck solids loading	PBR 106.263
Vacuum truck solids unloading	PBR 106.263
Material handling system maintenance	PBR 106.263
Dry abrasive blasting	PBR 106.263
CEMS calibration	PBR 106.263
Organic chemical usage	PBR 106.263
Lube oil maintenance	PBR 106.263
Refractory maintenance operations	PBR 106.263
Deslagging/descaling maintenance operations	PBR 106.263
Miscellaneous particulate filter maintenance	PBR 106.263
Kiln particulate filter maintenance	PBR 106.263
Management of sludge from pits, ponds, sumps, and water conveyances	PBR 106.263
Gaseous fuel venting	PBR 106.263
Solid material transfers using shovels, skid-steer loaders, dumpsters, etc. for housekeeping purposes	PBR 106.263

Planned Dry-Out, Startup and Shutdown

35. The holder of this permit shall minimize emissions during planned startup and shutdown activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility. **(12/13)**

36. Emissions during planned startup and shutdown activities of the kilns shall be minimized as follows: **(03/20)**

A. Kiln No. 2: A planned startup of the kiln is defined as the period starting when the kiln's induced draft fan is turned on and fuel is fired in the main burner and ending when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 25 tons per hour, whichever occurs first.

B. Kiln No. 3: A planned startup of the kiln is defined as the period starting when the kiln's induced draft fan is turned on and fuel is fired in the main burner and ending when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 42.5 tons per hour, whichever occurs first.

C. Kiln Nos. 2 and 3: A planned shutdown of the kiln is defined as the period starting when feed to the kiln is halted and ending when continuous kiln rotation ceases. A planned shutdown of the kiln is limited to 48 hours.

D. Kiln No. 4:

(1) Any planned startup not described in Section (2) of this Special Condition is defined as the period starting when fuel is fired in the kiln and ending when the average refractory temperature of the two kiln shafts reaches 1,100 degrees Fahrenheit. Such planned startup of the kiln is limited to 120 hours.

(2) Any planned startup that occurs after new refractory is installed in the kiln and/or when limestone is added into an empty kiln starts when fuel is fired to the small dedicated burner in the bottom of the kiln to drive off moisture. When the gas temperature at the top of the kiln reaches 1,000 degrees Fahrenheit, the kiln exhaust is diverted to the baghouse and the main burner lances are ignited. The planned startup ends when the average refractory temperature of the kiln reaches 1,100 degrees Fahrenheit. Such planned startup of the kiln is limited to 168 hours.

(3) A planned shutdown of the kiln is defined as the period starting when fuel supply to the kiln is halted and ending when the kiln blowers are turned off. A planned shutdown of the kiln is limited to 72 hours.

Sampling Requirements for Kilns 2 and 3

37. Sampling ports and platforms shall be incorporated into the design of all exhaust stacks according to the specifications set forth in the attachment entitled “Chapter 2, Stack Sampling Facilities.” Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.

38. The holder of this permit shall perform stack sampling and other testing as required (and as requested by the TCEQ San Antonio Regional Office) to establish the actual quantities of air contaminants being emitted into the atmosphere from Rotary Kiln 2 Baghouse Stack and Rotary Kiln 3 Baghouse Stack (EPNs 13KLN2STCK and 9KLN3STCK). Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with EPA Test Methods or by other equivalent methods approved by the TCEQ Regional Director. Appropriate sampling methods or procedures include the following: RMs 201A and 202, or RM 5 modified to include back-half condensable for the concentration of PM_{10}; RM 8, RM 6, or RM 6c for sulfur dioxide (SO_2); RM 9 for opacity. Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling. **(03/10)**

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

A. The TCEQ Regional Office shall be contacted as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting. The notice shall include:

(1) Date for pretest meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

(5) Method or procedure to be used in sampling.

(6) Procedure used to determine kiln production rates during and after the sampling period.

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 the test reports.

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

Requests to waive testing for any air contaminant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division (APD). Test waivers and alternate or equivalent procedure proposals for NSPS testing which must have EPA approval shall be submitted to the TCEQ Regional Director.

B. Air contaminants and diluents from the kilns to be sampled and analyzed include (but are not limited to) SO_2, particulate matter (PM), and opacity. The SO_2 shall be sampled once every three years; PM shall be sampled biennially.

C. Each kiln shall be tested while operating at or above 90 percent of maximum production specified in these Special Conditions. Primary operating parameters that enable determination of production rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the plant is unable to operate at or above 90 percent of maximum production rate during testing, additional stack testing may be required when higher rates are achieved.

D. Additional sampling shall occur as may be required by the TCEQ or EPA.

E. If stack sampling demonstrates that the actual SO_2 emissions are less than 80 percent of the permit allowable emissions, the permit holder shall not use the “SB 1126” authorization delineated in 30 TAC § 116.116(e) to authorize any physical or operational change that will cause an increase in actual SO_2 emissions from Rotary Kiln 2 or Rotary Kiln 3.

F. Within 60 days after the completion of the testing and sampling required herein, three copies of the sampling reports shall be distributed as follows:

(1) One copy to the EPA Region 6 Office, Dallas

(2) One copy to the TCEQ San Antonio Regional Office.

(3) One copy to the TCEQ Office of Air, APD in Austin.

Initial Determination of Compliance

39. To demonstrate compliance with the MAERT and with emission performance levels as specified in these Special Conditions, the holder of this permit shall perform stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from Kiln No. 4 (EPN 6140-Db02). Air contaminants to be tested for include (but are not limited to) PM_{10}, $PM_{2.5}$, NO_x, CO, and HCl. Sampling shall be accomplished within 60 days of achieving maximum production but not later than 180 days after start of operation of Kiln No. 4. Sampling must be conducted in accordance with the TCEQ *Guidelines for Stack Sampling Facilities* and in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director prior to sampling. **(03/20)**

Sampling Requirements for Kiln No. 4

40. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stack(s) according to the specifications set forth in the attachment entitled "Guidelines for Stack Sampling Facilities" prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Office with jurisdiction. **(11/19)**

41. Requests to waive testing for any pollutant specified shall be submitted, in writing, for approval to the TCEQ Office of Air, Air Permits Division in Austin. **(11/19)**

42. During stack sampling emission testing, Kiln No. 4 shall operate at or above 90 percent of maximum production rates. Primary operating parameters that enable determination of production rates shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. **(03/20)**

43. If the plant is unable to operate at or above 90 percent of maximum production rate during testing, additional stack testing may be required when higher rates are achieved. **(11/19)**

44. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with the applicable federal requirements requires EPA approval, and requests shall be submitted to the TCEQ Regional Office with jurisdiction. **(11/19)**

45. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows: **(11/19)**

    One copy to the TCEQ Regional Office with jurisdiction.

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

    One copy to each appropriate local air pollution control program with jurisdiction.

46. If, as a result of stack sampling, compliance with the permitted emission rates cannot be demonstrated, the holder of this permit shall adjust any operating parameters so as to comply with Special Condition No. 1 and the permitted emission rates, unless the holder of this permit obtains

authorization to increase the permitted emissions rates to levels at which compliance can be demonstrated. **(11/19)**

47. 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 production sufficient to demonstrate compliance with the permitted emission rates. Daily records of production and operating parameters shall be distributed as follows: **(11/19)**

    One copy to the TCEQ Regional Office with jurisdiction.

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

    This requirement will cease to apply if the holder of this permit obtains authorization to increase the permitted emissions rates to levels at which compliance can be demonstrated.

Demonstration of Continuous Compliance

48. Upon request by the TCEQ Executive Director or the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere to demonstrate compliance with the MAERT and with emission performance levels as specified in the Special Conditions and/or otherwise prove satisfactory equipment performance. Sampling must be conducted in accordance with the TCEQ Sampling Procedures Manual and in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director or the appropriate TCEQ Regional Director prior to conducting sampling.

49. The following requirements apply to the below specified baghouses (dust collectors): **(03/22)**

Table 6: Baghouses (Dust Collectors) Subject to PM

EPN	Source Name
28SAFN	Silo #6 Dust Collector
34HCHY4FN	Silo #4 Hydrated Lime Storage Dust Collector
41HYTRKFN	Hydrated Lime Truck Loading Dust Collector
42SAPACFN	Packaging Area Dust Collector
6140-Db02	Kiln No. 4 Baghouse
HYDRDC	Hydrator Vent Dust Collector
HYDOSDC	Hydrator Dosing Bin Dust Collector
HYBINDC	Hydrator Quicklime Silo Dust Collector
HYLOADDC	Hydrated Lime Truck Loading Dust Collector
HYHCBINDC	Hydrated Lime Rail Bin Dust Collector
HYRLOADDC	Hydrator Rail Loading Dust Collector
4140-Db08a	Vibrating Feeders Dust Collector 4140-Db08a

EPN	Source Name
4140-Db08b	Vibrating Feeders Dust Collector 4140-Db08b
4140-Db17	Conveyor 4140-Hb05 Dust Collector 4140-Db17
4140-Db76	Top of Run of Kiln Silos Dust Collector 4140-Db76
4140-Db83a	Conveyor 4140-Hb72 Dust Collector 4140-Db83a
4140-Db83b	Conveyor 4140-Hb72 Dust Collector 4140-Db83b
4140-Db87	Bottom of Run of Kiln Silos Dust Collector 4140-Db87
6240-Db06	Product Surge Bins Dust Collector 6240-Db06
6240-Db23	Product Loading Spout Dust Collector 6240-Db23
2440-Db21	Off-Spec and Reject Stone Silo Dust Collector 2440-Db21
6200-Db34	Gypsum Silo Dust Collector 6200-Db34
6200-Db52	Gypsum Loading Spout Dust Collector 6200-Db52
6200-Db58	Gypsum Loading Spout Dust Collector 6200-Db58

A. The baghouses (dust collectors) shall be operated and maintained in accordance with the manufacturer's recommendations to assure that the minimum control efficiency is met at all times when the controlled facilities are required to be operated.

B. The holder of this permit shall install, calibrate (if applicable), and maintain a differential pressure gauge to monitor pressure drop across the filter media of each of the baghouses (dust collectors). Each monitoring device that requires calibration shall be calibrated at least annually in accordance with the manufacturer's specifications and shall be accurate to within a range of ± 0.5 inch water gauge pressure (± 125 pascals) or a span of ± 3 percent. If a monitoring device requires to be zeroed, it shall be zeroed at least once a week.

C. The pressure drop reading across the filter media of each of the baghouses (dust collectors) shall be maintained within the operating range specified by the manufacturer. Filters shall be replaced whenever the pressure drop reading across the filter media is outside the manufacturer's specified operating range.

D. Pressure drop readings for the Kiln No. 4 Baghouse Stack (EPN 6140-Db02) shall be recorded at least four times per hour that the system is required to be operated.

E. Pressure drop readings for the other EPNs listed above in this condition shall be recorded at least once daily when the baghouses (dust collectors) are operational.

F. Maintenance on the ventilation system, including filter replacement, shall be performed only when the facility being controlled is not in operation.

50. Continuous monitoring and recordkeeping of opacity shall be performed at the Rotary Kiln 3 Baghouse Stack (EPN 9KLN3STCK) and the Kiln No. 4 Baghouse Stack (EPN 6140-Db02). The holder of this permit shall install, calibrate, and maintain a continuous opacity monitoring system (COMS) for monitoring opacity. **(03/20)**

A. The COMS shall meet the design and performance specification, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in Performance Specification No. 1, 40 CFR Part 60, Appendix B.

B. The COMS 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.

C. The opacity monitor shall complete a minimum of one cycle of data recording for each successive ten-second period. Six-minute averages shall be computed from at least 36 data points over a six-minute period. Data recorded during periods of COMS breakdowns, repairs, calibration checks, and zero span adjustments shall not be included in the computed data averages.

51. 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 following baghouse (dust collector) stacks: **(03/22)**

Table 7: Baghouses (Dust Collectors) Subject to Quarterly Visible Emissions Determinations

EPN	Source Name
10COALBHFN	Coal Unload and Reclaim Dust Collector Stack
11CLCRFN	Coal Crush and Bins Dust Collector Stack
15Q2-3CNFN	Quicklime Conveyor in Kiln Dust Collector Stack
16QL1-2FN	1rk and 2rk Quicklime Conveyors Dust Collector Stack
17QL1-2FN	QL Convey/Elevator Dust Collector Stack
18KSILOFN	K Silo Quicklime Storage Bin Vent
19GSILOFN	G Silo Quicklime Storage Bin Vent
19HSILOFN	H Silo Quicklime Storage Bin Vent
21DOLGRDFN	Dolomite, Grind, Store, and Load Dust Collector Stack
22QLHYFN	Quicklime Hydrated Feed Bin Dust Collector Stack
23CORSNSTK	Corson Hydrator Dryer Stack
26HCCONFN	Conveyor HI-CAL Hydrate Pneumatic Dust Collector Stack
27CMNTFN	Cement Bin, Mixing Area Dust Collector Stack
28SAFN	Silo #6 in Hydrator/Packaging Area Dust Collector Stack
29DLQKFN	Dolo Quicklime Conveyor Dust Collector Stack
30PACFDFN	SA Silo Bin Vent
31DOLHYFN	Dolo Hydrator Bin Baghouse Stack
33DOMILLFN	Dolomitic Hydrate Tube Mill Dust Collector Stack
33HCHYFN	HI-CAL Hydrate Silos Bin Vent
34HCHY4FN	HI-CAL Hydrate Storage Dust Collector Stack
35HCLDFN	HI-CAL Bulk Load Dust Collector Stack
36IRRFN	Rail Loading, I Silo Bin Vent
37FBNFN	F Silo Baghouse Stack
38KRRFN	Rail Loading, K Silo Baghouse Stack
39DOMILLFN	Dolomitic Hydrate Tube Mill Dust Collector Stack

EPN	Source Name
3PCRSHRFN	Primary Crusher Dust Collector Stack
40TRKFN	Truck Loading Dust Collector Stack
41HYTRKFN	Hydrated Lime Truck Loading Dust Collector Stack
41QLTRKFN	Quicklime Truck Loading Dust Collector Stack
42HCPACFN	Packing 2 Spout Dust Collector Stack
42SAPACFN	Packaging Area Dust Collector Stack
4SCRSHRFN	Secondary Crusher Baghouse Stack
5FINESFN	Secondary Crusher Fines Dust Collector Stack
7SCLPSCNFN	Conveyor and Scalp Screen Dust Collector Stack
8RK3DSTFN	No. 3 Dust Bin Baghouse Stack
HICALBLDFN	HI-CAL Building Dust Collector Stack
HYD1FN	No. 1 Hydrator Dust Collector Stack
HYD1FN	No. 1 Hydrator Dryer Baghouse Stack
HYDTAILVNT	Hydrate Tailing Silo Bin Vent
NWBIN2FN	No. 2 (NW) Dust Bin Dust Collector Stack
6140-Db02	Kiln No. 4 Baghouse Stack
HYDRDC	Hydrator Vent Dust Collector Stack
HYDOSDC	Hydrator Dosing Bin Dust Collector Stack
HYBINDC	Hydrator Quicklime Silo Dust Collector Stack
HYLOADDC	Hydrated Lime Truck Loading Dust Collector Stack
HYHCBINDC	Hydrated Lime Rail Bin Dust Collector Stack
HYRLOADDC	Hydrator Rail Loading Dust Collector Stack
4140-Db08a	Vibrating Feeders Dust Collector 4140-Db08a Stack
4140-Db08b	Vibrating Feeders Dust Collector 4140-Db08b Stack
4140-Db17	Conveyor 4140-Hb05 Dust Collector 4140-Db17 Stack
4140-Db76	Top of Run of Kiln Silos Dust Collector 4140-Db76 Stack
4140-Db83a	Conveyor 4140-Hb72 Dust Collector 4140-Db83a Stack
4140-Db83b	Conveyor 4140-Hb72 Dust Collector 4140-Db83b Stack
4140-Db87	Bottom of Run of Kiln Silos Dust Collector 4140-Db87 Stack
6240-Db06	Product Surge Bins Dust Collector 6240-Db06 Stack
6240-Db23	Product Loading Spout Dust Collector 6240-Db23 Stack
2440-Db21	Off-Spec and Reject Stone Silo Dust Collector 2440-Db21 Stack
6200-Db34	Gypsum Silo Dust Collector 6200-Db34 Stack
6200-Db52	Gypsum Loading Spout Dust Collector 6200-Db52 Stack
6200-Db58	Gypsum Loading Spout Dust Collector 6200-Db58 Stack

These 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: **(03/20)**

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.

52. The holder of this permit shall monitor the opacity on the Kiln No. 2 exhaust stack (EPN 13KLN2STCK) using a certified observer for at least one, six-minute period each morning, in accordance with EPA RM 9 and 40 CFR § 64.7(c). Each observation shall be recorded. If an observation cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded; subsequent observations shall be attempted hourly, until either an observation has been successfully conducted, or daylight conditions prohibit proper RM 9 readings. A corrective action plan shall be promptly initiated if the opacity reading is greater than or equal to 9 percent (averaged over a six minute period). **(03/10)**

53. The holder of this permit shall conduct a quarterly visible emissions determination to demonstrate compliance with the limitation specified in this permit for visible fugitive emissions leaving the property from process buildings or fugitive sources. 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. **(11/19)**

54. The holder of this permit shall calibrate, maintain, and operate a CEMS to measure and record the concentrations of NO_x, CO, and diluent gases (oxygen [O_2] or carbon dioxide [CO_2]), from each rotary kiln exhaust stack (Emission Point Nos. [EPNs] 13KLN2STCK and 9KLN3STCK). **(11/19)**

A. The CEMS 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 Nos. 1 through 9, 40 CFR Part 60, Appendix B, or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, APD in Austin for requirements to be met. The CEMS shall comply with the following requirements:

The holder of this permit shall assure that the CEMS meets the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3, and any CEMS downtime and all cylinder gas audit exceedances of 15 percent accuracy shall be reported semiannually to the TCEQ Regional Director, and necessary

corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the TCEQ Regional Director.

B. The monitoring data shall be reduced to hourly average values at least once every day, using a minimum of four equally-spaced data points from each one-hour period. At least two valid data points shall be generated during the hourly period in which zero and span is performed.

C. All monitoring data and quality-assurance data shall be maintained at the plant site for a period of five years and shall be made available to the TCEQ Executive Director or designated representative upon request. The hourly average data from the CEMS shall be used to calculate the 30-day rolling average NO_x and CO emission rates. This data will be used to demonstrate compliance with both the short-and long-term NO_x and CO emission rate limitations on the MAERT.

D. The TCEQ Regional Office shall be notified at least 21 days prior to any required relative accuracy test audit in order to provide them the opportunity to observe the testing.

E. If applicable, the CEMS may be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A. The requirements of 40 CFR Part 75, Appendixes A and B, respectively, are deemed an acceptable alternative to the performance specifications and quality assurance requirements of 40 CFR Part 60 for the NO_x and O_2 CEMS.

55. For each air contaminant for which a continuous emission monitoring system (CEMS) is not required by this permit, determination of compliance with hourly emission limits in the MAERT shall be based upon the parameter specified in the following table. Exceedance of the limitation in this permit for any such parameter will constitute an exceedance of the hourly emission limit(s) in the MAERT for any air contaminant(s) that is associated with that parameter in the table below. **(03/10)**

Table 8: Determination of Compliance for Air Contaminants without CEMS

Pollutant	Parameter
PM/PM_{10}	Daily lime production rate
VOC	Daily lime production rate
SO_2	Total fuel sulfur input as calculated using measurements of fuel feed rates and total sulfur content of fuels
HCl	Daily lime production rate
Dioxins/Furans	Daily lime production rate
Mercury	Daily lime production rate
Vanadium, Nickel, Chromium, and Lead	Concentration in coal or coke

56. The holder of this permit may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging times specified, 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). **(03/10)**

57. The holder of this permit shall perform monthly inspections to verify proper operation of the emissions capture systems to verify there are no holes, cracks and/or other conditions that would reduce the collection efficiency of the emission capture system as represented. If the results of the inspections indicate that a capture system is not operating properly, the permit holder shall promptly take necessary corrective actions. **(03/10)**

58. The TCEQ Regional Office shall be notified as soon as possible after the discovery of any monitor 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 monitor downtime. Necessary corrective action shall be taken if the downtime exceeds 5 percent of the (emissions source) operating hours in the quarter. Failure to complete any corrective action as directed by the TCEQ Regional Office may be deemed a violation of the permit. **(03/10)**

Recordkeeping/Reporting Requirements

59. The holder of this permit shall keep the following records on-site for a rolling 60-month period in a format suitable for inspection and shall make such records available during normal business hours upon request of designated representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction: **(03/20)**

    A. The quantity of natural gas (thousands of cubic feet), coal (tons), and petroleum coke (tons) fired per day, as well as the MMBtu/hr for each fuel, as determined in accordance with the Special Conditions;

    B. Records of operational time of each kiln;

    C. The quantity of all quick lime (tons) produced per day, per kiln, including off-spec quick lime;

    D. The weight percent of sulfur as received (wet basis), the heating value (Btu/lb), and trace metal analysis of a typical sample of coal and petroleum coke. A certified sulfur analysis and trace metals analysis performed by the fuel supplier will be acceptable;

    E. Annual report from the natural gas supplier identifying total sulfur and H_2S content of natural gas;

    F. The quantity, and measurement methodology of sulfur that is delivered to Rotary Kiln 2 (EPN 13KLNSTCK) and Rotary Kiln 3 (EPN 9KLN3STCK) to demonstrate compliance with the Fuel Specifications of these Special Conditions;

    G. Annual hours of operation for the equipment associated with the following EPNs: **(03/21)**

EPN	Description
28SAFN	Silo #6
34HCHY4FN	Silo #4 Hydrated Lime Storage
3PCRSHRFN	Primary Crusher
41HYTRKFN	Hydrated Lime Truck Loading
42SAPACFN	Packaging Area Vent
4SCRSHRFN	Secondary Crusher
HYDRDC	Hydrator

EPN	Description
HYDOSDC	Hydrator Dosing Bin
HYBINDC	Hydrator Quicklime Silo
HYLOADDC	Hydrated Lime Truck Loading Vent
HYHBINDC	Hydrated Lime Rail Bin Vent
HYRLOADDC	Hydrator Rail Loading Vent
4140-Db08a	Vibrating Feeders
4140-Db08b	Vibrating Feeders
4140-Db83a	Conveyor 4140-Hb72
4140-Db83b	Conveyor 4140-Hb72
6240-Db06	Product Surge Bins
6240-Db23	Product Loading Spout
6200-Db34	Gypsum Silo
6200-Db52	Gypsum Loading Spout
6200-Db58	Gypsum Loading Spout

H. Preventative maintenance, scheduled maintenance, and repairs performed on any abatement device shall be recorded within two days;

I. All monitoring data and support information as specified in 30 TAC § 122.144;

J. Inspections of capture systems and abatement devices shall be recorded within two days;

K. Records of COMS data and calibrations; **(12/13)**

L. Records of visible emission observations and opacity readings; **(12/13)**

M. Records of pressure drop readings for the baghouses;

N. Records of startup and shutdown of the kilns, including the date, time, duration, and emissions associated with those activities. **(12/13)**

60. The holder of this permit shall submit to the TCEQ Regional Office and the Air Enforcement Branch of the EPA Region 6 Office in Dallas semiannual reports as described in 40 CFR, Part 60. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit. **(03/10)**

Greenhouse Gases Recordkeeping Requirements

61. Permit holders must keep records sufficient to demonstrate compliance with 30 TAC 116.164. Records shall be sufficient to demonstrate the amount of emissions of GHGs from the source as a result of construction; a physical change or a change in method of operation does not require authorization under 30 TAC 116.164(a). Records shall be maintained for a period of five years after collection. **(11/19)**

62. The holder of this permit shall maintain the following records at the plant site in a form suitable for inspection for a period of five years after collection, and the records shall be made available upon

request to representatives of the TCEQ, EPA, or any air pollution control agency with jurisdiction. **(11/19)**

A. Daily and monthly lime production rates.

B. Records of the average monthly consumption of fuels.

C. Total monthly CO_2 and CO_2e emissions are to be calculated and recorded monthly as follows:

(1) Sum total monthly CO_2 emissions from lime production rates.

(2) Calculate total CO_2, nitrous oxide (N_2O) and methane (CH_4) monthly emissions from fuel combustion using Equation C-8 of 40 CFR Part 98, Subpart C.

(3) Convert CO_2, N_2O and CH_4 monthly emissions to CO_2e emissions using Equation A-1 of 40 CFR Part 98, Subpart A.

D. The monthly data from paragraph C of this Special Condition data shall be used to calculate rolling 12-month total emission rates of CO_2 and CO_2e to demonstrate compliance with emissions limits in the MAERT.

Date: March 30, 2023

Emission Sources - Maximum Allowable Emission Rates

Permit Number 7808 and PSDTX256M3

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	
			lbs/hour	TPY (4)
13KLN2STCK	Rotary Kiln 2 Baghouse Stack	PM	5.02	21.98
		PM_{10}	5.02	21.98
		$PM_{2.5}$	2.46	10.79
		NO_x (6)	105.00	459.90
		CO (6)	63.00	276.00
		VOC	0.83	3.61
		SO_2	53.60	234.77
		H_2SO_4	2.04	8.96
		HCl (7)	1.52	6.63
9KLN3STCK	Rotary Kiln 3 Baghouse Stack	PM	7.71	33.78
		PM_{10}	7.71	33.78
		$PM_{2.5}$	3.78	16.58
		NO_x (6)	91.00	398.58
		CO (6)	77.00	337.26
		VOC	1.10	4.82
		SO_2	71.52	313.26
		H_2SO_4	2.73	11.94
		HCl (7)	1.52	6.63
10CLSURGE	Surge Pile, Coal Storage (8)	PM	--	0.14
		PM_{10}	--	0.07
		$PM_{2.5}$	--	0.01
10COALBHFN	Coal Unload and Reclaim Dust Collector Stack	PM	0.24	1.05
		PM_{10}	0.24	1.05
		$PM_{2.5}$	0.12	0.51

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
11CLCRFN	Coal Crush and Bins Dust Collector Stack	PM	0.10	0.45
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.05	0.22
14COALYARD	Coal Handling Facility Storage (8)	PM	--	6.09
		PM_{10}	--	3.05
		$PM_{2.5}$	--	0.46
15Q2-3CNFN	Quicklime Conveyor in Kiln Dust Collector Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.13	0.55
16QL1-2FN	1rk and 2rk Quicklime Conveyors Dust Collector Stack	PM	0.49	2.16
		PM_{10}	0.49	2.16
		$PM_{2.5}$	0.24	1.06
17QL1-2FN	QL Convey/Elevator Dust Collector Stack	PM	0.39	1.73
		PM_{10}	0.39	1.73
		$PM_{2.5}$	0.19	0.85
18KSILOFN	K Silo Quicklime Storage Bin Vent	PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.10	0.43
19GSILOFN	G Silo Quicklime Storage Bin Vent	PM	0.25	1.09
		PM_{10}	0.25	1.09
		$PM_{2.5}$	0.12	0.53
19HSILOFN	H Silo Quicklime Storage Bin Vent	PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.05	0.25

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
21DOLGRDFN	Dolomite, Grind, Store, and Load Dust Collector Stack	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.21	0.92
22QLHYFN	Quicklime Hydrated Feed Bin Dust Collector Stack	PM	0.24	1.03
		PM_{10}	0.24	1.03
		$PM_{2.5}$	0.12	0.50
23CORSNSTK	Corson Hydrator Dryer Stack	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		NO_x	0.39	1.72
		CO	0.33	1.44
		VOC	0.02	0.1
		SO_2	0.06	0.25
23CORSNSTK	Corson Hydrator Dust Collector Stack	PM	0.32	1.40
		PM_{10}	0.32	1.40
		$PM_{2.5}$	0.32	1.40
24HYSCBR	No. 2 HI-CAL Hydrator Vent	PM	1.20	5.30
		PM_{10}	0.66	2.90
		$PM_{2.5}$	0.324	1.43
25HYSCBR	No. 1 HI-CAL Hydrator Vent	PM	1.20	5.30
		PM_{10}	0.66	2.90
		$PM_{2.5}$	0.324	1.43
26HCCONFN	Conveyor HI-CAL Hydrate Pneumatic Dust Collector Stack	PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.10	0.43
27CMNTFN	Cement Bin, Mixing Area Dust Collector Stack	PM	0.20	0.88
		PM_{10}	0.20	0.88

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.10	0.43
28SAFN	Silo#6 in Hydrator/Packaging Area Dust Collector Stack	PM	0.15	0.39
		PM_{10}	0.15	0.39
		$PM_{2.5}$	0.07	0.19
29DLQKFN	Dolo Quicklime Conveyor Dust Collector Stack	PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.10	0.43
30PACFDFN	SA Silo Bin Vent	PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.10	0.43
31DOLHYFN	Dolo Hydrator Bin Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.06	0.27
33DOMILLFN	Dolomitic Hydrate Tube Mill Dust Collector Stack	PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.05	0.25
33HCHYFN	HI-CAL Hydrate Silos Bin Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.04	0.19
34HCHY4FN	Silo #4 Hydrated Lime Storage Dust Collector Stack	PM	0.21	0.18
		PM_{10}	0.21	0.18
		$PM_{2.5}$	0.10	0.09
35HCLDFN	HI-CAL Bulk Load Dust Collector Stack	PM	0.05	0.23
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.02	0.11

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
35HCLDFUG	Silo 8 Truck Loading (8)	PM	0.38	0.46
		PM_{10}	0.21	0.25
		$PM_{2.5}$	0.10	0.12
36IRRFN	Rail Loading, I Silo Bin Vent	PM	0.37	1.63
		PM_{10}	0.37	1.63
		$PM_{2.5}$	0.18	0.80
36IRRLDFUG	I Silo Rail Loading (8)	PM	0.76	0.38
		PM_{10}	0.42	0.21
		$PM_{2.5}$	0.21	0.10
36JRRLDFUG	J Silo Rail Loading (8)	PM	0.46	0.38
		PM_{10}	0.25	0.21
		$PM_{2.5}$	0.12	0.10
37FBNFN	F Silo Baghouse Stack	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.04	0.19
37FBNLDFUG	F Silo Rail Loading (8)	PM	0.92	0.76
		PM_{10}	0.50	0.42
		$PM_{2.5}$	0.25	0.21
38KRRFN	Rail Loading, K Silo Baghouse Stack	PM	0.13	0.58
		PM_{10}	0.13	0.58
		$PM_{2.5}$	0.06	0.28
38KRRLDFUG	K Silo Rail Loading (8)	PM	0.90	0.14
		PM_{10}	0.50	0.07
		$PM_{2.5}$	0.24	0.04
39DOMILLFN	Dolomitic Hydrate Tube Mill Dust Collector Stack	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.04	0.20

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
3CRUSHPILE	Primary Crusher Stone Storage (8)	PM	--	2.22
		PM_{10}	--	1.11
		$PM_{2.5}$	--	0.17
3PCRSHRFN	Primary Crusher Dust Collector Stack	PM	0.24	0.74
		PM_{10}	0.24	0.74
		$PM_{2.5}$	0.12	0.36
40TRKFN	Truck Loading Dust Collector Stack	PM	0.11	0.49
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.05	0.24
40TRKLDFUG	Silo 5 Truck Loading (8)	PM	0.31	0.15
		PM_{10}	0.17	0.08
		$PM_{2.5}$	0.08	0.04
41HYTRKFN	Hydrated Lime Truck Loading Dust Collector Stack	PM	0.06	0.05
		PM_{10}	0.06	0.05
		$PM_{2.5}$	0.03	0.03
41QLLDFUG	Quicklime Truck Loading (8)	PM	0.15	0.61
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.04	0.16
41QLTRKFN	Quicklime Truck Loading Dust Collector Stack	PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.05	0.25
42HCPACFN	Packing 2 Spout Dust Collector Stack	PM	0.36	1.60
		PM_{10}	0.36	1.60
		$PM_{2.5}$	0.18	0.78
42SAPACFN	Packaging Area Dust Collector Stack	PM	0.43	1.27
		PM_{10}	0.43	1.27
		$PM_{2.5}$	0.21	0.62

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
4SCRSHRFN	Secondary Crusher Baghouse Stack	PM	0.54	1.66
		PM_{10}	0.54	1.66
		$PM_{2.5}$	0.26	0.81
5CRSHLDFUG	Crusher Fines Truck Loading (8)	PM	1.00	1.55
		PM_{10}	0.48	0.74
		$PM_{2.5}$	0.07	0.11
5FINESFN	Secondary Crusher Fines Dust Collector Stack	PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.03	0.13
6HCLSTONE	HI-CAL Storage Pile (8)	PM	--	12.50
		PM_{10}	--	6.25
		$PM_{2.5}$	--	0.94
7SCLPLDFUG	Scalping Bin Truck Loading (8)	PM	0.62	0.17
		PM_{10}	0.30	0.08
		$PM_{2.5}$	0.05	0.01
7SCLPSCNFN	Conveyor and Scalp Screen Dust Collector Stack	PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.06	0.26
8RK3DSTFN	No. 3 Dust Bin Baghouse Stack	PM	0.21	0.93
		PM_{10}	0.21	0.93
		$PM_{2.5}$	0.10	0.46
8RK3LDFUG	No. 3 Dust Bin Truck Loading (8)	PM	9.00	4.50
		PM_{10}	4.95	2.48
		$PM_{2.5}$	2.43	1.22
COKEPILE	Coke Pile, Coke Storage (8)	PM	--	6.09
		PM_{10}	--	3.05
		$PM_{2.5}$	--	0.46

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
HICALBLDFN	HI-CAL Building Dust Collector Stack	PM	0.62	2.71
		PM_{10}	0.62	2.71
		$PM_{2.5}$	0.30	1.33
HYD1FN	No. 1 Hydrator Dust Collector Stack	PM	0.31	1.35
		PM_{10}	0.31	1.35
		$PM_{2.5}$	0.15	0.66
HYD1FN	No. 1 Hydrator Dryer Baghouse Stack	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
		NO_x	0.29	1.29
		CO	0.25	1.08
		VOC	0.02	0.07
		SO_2	0.04	0.18
HYDLDFUG	Hydrate Tailings Truck Loading (8)	PM	0.29	0.10
		PM_{10}	0.16	0.06
		$PM_{2.5}$	0.08	0.03
HYDTAILVNT	Hydrate Tailing Silo Bin Vent	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.01	0.05
LIMEDUMP	Lime Dump Storage Pile (8)	PM	--	2.41
		PM_{10}	--	1.21
		$PM_{2.5}$	--	0.18
NWBIN2FN	No. 2 (NW) Dust Bin Dust Collector Stack	PM	0.40	1.76
		PM_{10}	0.40	1.76
		$PM_{2.5}$	0.20	0.86
NWBN2LDFUG	No. 2 Dust Bin Truck Loading (8)	PM	0.05	0.06
		PM_{10}	0.03	0.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.01	0.02
TRANS1FUG	Conveyor Transfer 1 (8)	PM	0.20	0.44
		PM_{10}	0.10	0.21
		$PM_{2.5}$	0.01	0.03
TRANS2FUG	Conveyor Transfer 2 (8)	PM	0.20	0.44
		PM_{10}	0.10	0.21
		$PM_{2.5}$	0.01	0.03
TRANS3FUG	Conveyor Transfer 3 (8)	PM	0.20	0.44
		PM_{10}	0.10	0.21
		$PM_{2.5}$	0.01	0.03
TRANS4FUG	Conveyor Transfer 4 (8)	PM	0.05	0.21
		PM_{10}	0.02	0.10
		$PM_{2.5}$	<0.01	0.01
TRANS5FUG	Conveyor Transfer 5 (8)	PM	0.02	0.08
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.01
TRANS6FUG	Conveyor Transfer 6 (8)	PM	0.01	0.03
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
TRANS7FUG	Conveyor Transfer 7 (8)	PM	0.05	0.22
		PM_{10}	0.03	0.11
		$PM_{2.5}$	<0.01	0.01
6140-Db02	Kiln No. 4 Baghouse Stack	PM	4.01	17.57
		PM_{10}	4.01	17.57
		$PM_{2.5}$	1.97	8.61
		NO_x	9.63	42.16
		CO	17.88	78.29

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		SO_2	1.25	5.48
		VOC	0.54	2.34
		HCl	0.55	2.41
SCREEN	Screening Operations (5)	PM	0.05	0.22
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.01	0.01
CONVEY	Conveyance Operations (5)	PM	0.26	0.58
		PM_{10}	0.09	0.19
		$PM_{2.5}$	0.02	0.05
TRANSFER	Material Transfer Operations (5)	PM	0.24	0.53
		PM_{10}	0.08	0.17
		$PM_{2.5}$	0.02	0.05
STOCKPILES	Material Stockpiles (5)	PM	--	0.73
		PM_{10}	--	0.36
		$PM_{2.5}$	--	0.05
OFFLDFUG	Off-Spec Lime and Reject Stone Loading (5)	PM	0.02	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
PRODLDFUG	Product Loading Fugitives (5)	PM	0.07	0.07
		PM_{10}	0.04	0.04
		$PM_{2.5}$	0.02	0.02
NW-CRUSH	Crusher (5)	PM	<0.01	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
NW-SCREEN	Vibrating Screens (5)	PM	0.23	0.51
		PM_{10}	0.08	0.18
		$PM_{2.5}$	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
NW-Convey	Conveyance Operations (5)	PM	0.07	0.15
		PM_{10}	0.02	0.05
		$PM_{2.5}$	<0.01	0.01
NW-TRANSFER	Material Transfer Operations (5)	PM	0.20	0.45
		PM_{10}	0.07	0.15
		$PM_{2.5}$	0.02	0.04
NW-PILES	Material Stockpiles (5)	PM	--	3.61
		PM_{10}	--	1.81
		$PM_{2.5}$	--	0.27
HYDRDC	Hydrator Vent Dust Collector Stack	PM	0.15	0.53
		PM_{10}	0.15	0.53
		$PM_{2.5}$	0.07	0.26
HYDOSDC	Hydrator Dosing Bin Dust Collector Stack	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.02	0.05
HYBINDC	Hydrator Quicklime Silo Dust Collector Stack	PM	0.21	0.72
		PM_{10}	0.21	0.72
		$PM_{2.5}$	0.10	0.35
HYLOADDC	Hydrated Lime Truck Loading Dust Collector Stack	PM	0.04	0.09
		PM_{10}	0.04	0.09
		$PM_{2.5}$	0.02	0.05
HYHCBINDC	Hydrated Lime Rail Bin Dust Collector Stack	PM	0.15	0.10
		PM_{10}	0.15	0.10
		$PM_{2.5}$	0.07	0.05
HYRLOADDC	Hydrator Rail Loading Dust Collector Stack	PM	0.08	0.05
		PM_{10}	0.08	0.05
		$PM_{2.5}$	0.04	0.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
42SAPLDFUG	Hydrate Truck Loadout at Silo 6 (5)	PM	0.03	0.03
		PM_{10}	0.02	0.02
		$PM_{2.5}$	<0.01	<0.01
41HYLDFUG	Hydrate Truck Loadout at Silo 4 (5)	PM	0.03	0.03
		PM_{10}	0.02	0.02
		$PM_{2.5}$	<0.01	<0.01
HYHCLDFUG	Hydrate Truck/Rail Loadout (5)	PM	0.06	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.02	<0.01
4140-Db08a	Vibrating Feeders Dust Collector 4140-Db08a Stack	PM	0.04	0.08
		PM_{10}	0.04	0.08
		$PM_{2.5}$	0.02	0.04
4140-Db08b	Vibrating Feeders Dust Collector 4140-Db08b Stack	PM	0.04	0.08
		PM_{10}	0.04	0.08
		$PM_{2.5}$	0.02	0.04
4140-Db17	Conveyor 4140-Hb05 Dust Collector 4140-Db17 Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.04	0.16
4140-Db76	Top of Run of Kiln Silos Dust Collector 4140-Db76 Stack	PM	0.18	0.79
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.09	0.39
4140-Db83a	Conveyor 4140-Hb72 Dust Collector 4140-Db83a Stack	PM	0.04	0.12
		PM_{10}	0.04	0.12
		$PM_{2.5}$	0.02	0.06
4140-Db83b	Conveyor 4140-Hb72 Dust Collector 4140-Db83b Stack	PM	0.04	0.12
		PM_{10}	0.04	0.12
		$PM_{2.5}$	0.02	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
4140-Db87	Bottom of Run of Kiln Silos Dust Collector 4140-Db87 Stack	PM	0.21	0.92
		PM_{10}	0.21	0.92
		$PM_{2.5}$	0.10	0.45
6240-Db06	Product Surge Bins Dust Collector 6240-Db06 Stack	PM	0.04	0.09
		PM_{10}	0.04	0.09
		$PM_{2.5}$	0.02	0.05
6240-Db23	Product Loading Spout Dust Collector 6240-Db23 Stack	PM	0.08	0.17
		PM_{10}	0.08	0.17
		$PM_{2.5}$	0.04	0.08
2440-Db21	Off-Spec and Reject Stone Silo-Dust Collector 2440-Db21 Stack	PM	0.05	0.23
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.03	0.11
1-TRNSFR	2" x 5" Material Transfer Operations	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
1-PILES	Existing Kiln Area 2" x 5" Material Stockpile	PM	-	1.08
		PM_{10}	-	0.54
		$PM_{2.5}$	-	0.08
Before Construction of EPNs 6200-Db34, 6200-Db52, 6200-Db58, and GYPLDFUG				
GYPLOAD	Gypsum Loading (8)	PM	0.11	0.08
		PM_{10}	0.05	0.04
		$PM_{2.5}$	0.01	<0.01
After Construction of EPNs 6200-Db34, 6200-Db52, 6200-Db58, and GYPLDFUG				
6200-Db34	Gypsum Silo Dust Collector 6200-Db34 Stack	PM	0.04	0.02
		PM_{10}	0.04	0.02
		$PM_{2.5}$	0.02	<0.01
6200-Db52		PM	0.07	0.05

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Gypsum Loading Spout Dust Collector 6200-Db52 Stack	PM_{10}	0.07	0.05
		$PM_{2.5}$	0.03	0.02
6200-Db58	Gypsum Loading Spout Dust Collector 6200-Db58 Stack	PM	0.07	0.05
		PM_{10}	0.07	0.05
		$PM_{2.5}$	0.03	0.02
GYPLDFUG	Gypsum Truck/Rail Loading Fugitives	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<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
HCl - hydrogen chloride
H_2SO_4 - sulfuric acid
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Planned startup and shutdown emissions are included.
(6) The hourly (lb/hr) emission rate for this air contaminant is on a 30-day rolling average basis.
(7) The combined HCl emissions from Kiln Nos. 2 and 3 shall not exceed these rates. Any stack testing that the TCEQ Executive Director might require to demonstrate compliance with this limit shall be conducted on Kiln Nos. 2 and 3 simultaneously.
(8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: March 30, 2023

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX187

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
VERTKLNSTK	Vertical Lime Kiln Baghouse Stack	CO_2 (5)	265,887
		CH_4 (5)	0.959
		N_2O (5)	0.096
		CO_2e	265,940

(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) CO_2 - carbon dioxide
N_2O - nitrous oxide
CH_4 - methane
CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
CO_2 (1), N_2O (298), CH_4(25), SF_6 (22,800), HFC (various), PFC (various)
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: November 6, 2019